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THE ROCKLAND PROPERTY

SILVERTON

B.C..

REPORT

ON

A GEOCHEMICAL SURVEY

OF

PART OF THE PROPERTY

BY

ALLEN GEOLOGICAL ENGINEERING LTD.

VANCOUVER 1, B. C.

FEBRUARY 14, 1969

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## THE ROCKLAND PROPERTY

### SILVERTON B. C.

#### INTRODUCTION

Persuant to instructions from the management of Rockland Mining Ltd., (N.P.L.) of 635-789 West Pender Street, Vancouver 1, B. C., a geochemical survey was made of the central portion of the copper-molybdenum property near Silverton, B. C. by Allen Geological Engineering Ltd. Mr. David H. Hawkins, President of Rockland Mining Ltd., remained at the property during the course of the survey, and supplied detailed information pertaining to the local geology, terrain and mineral showings that was most valuable to the job.

Reports in the company files contain much data pertaining to general descriptions of location showings, workings and geology, hence these are not covered in detail, herein, but are mentioned briefly, and emphasis is placed on the geochemical investigation.

LOCATION AND ACCESSIBILITY

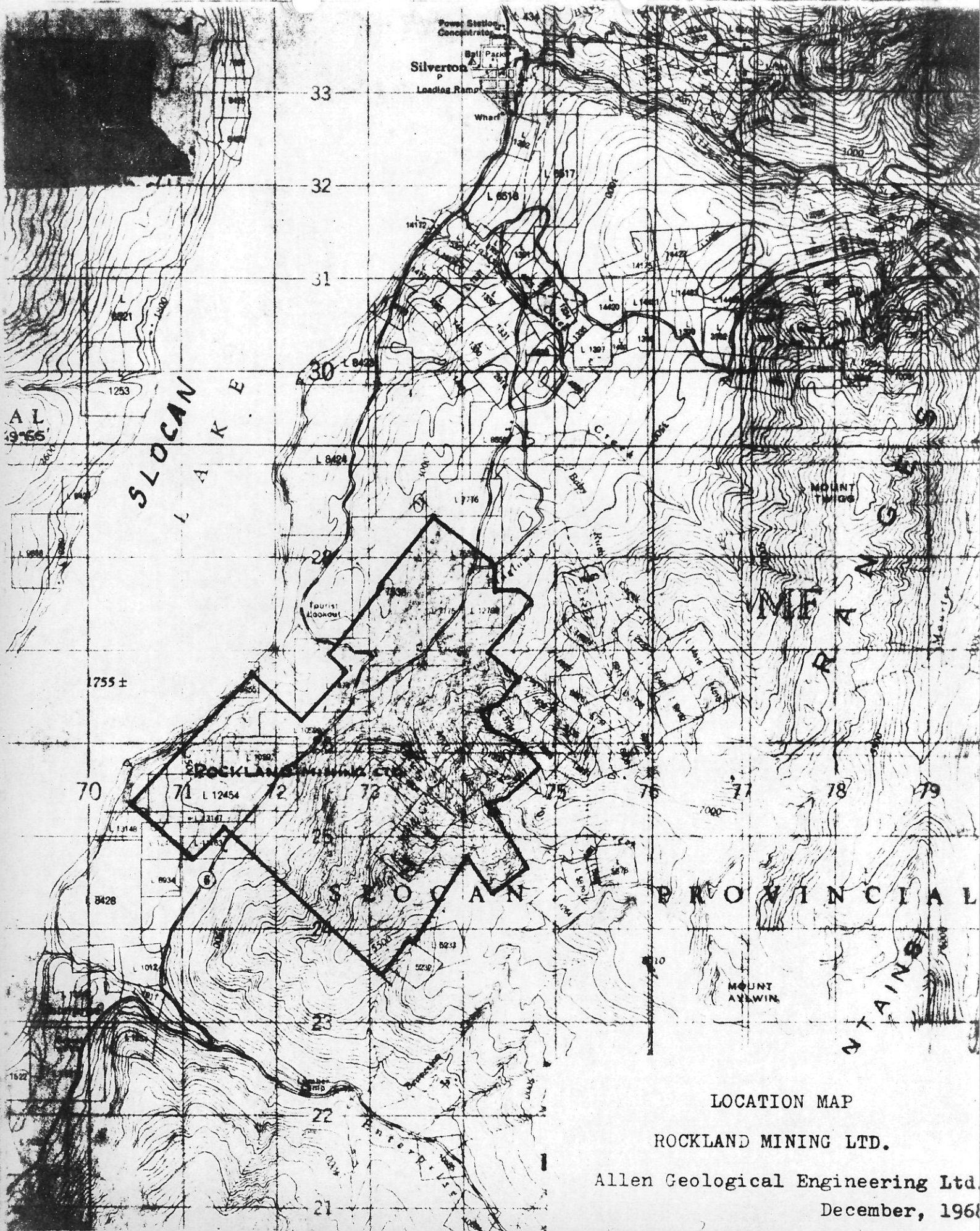
The property is located on the east shore of Slocan Lake, about 3½ miles south of Silverton B. C. Access is via Castlegar, north for 57 miles on highway six.

PROPERTY

The property is made up of four crown grant mineral claims, a 3-claim lease, and 47 located claims. These are as follows:-

Mineral Lease # 58	Willa	L.1529
	Rockland	L.3884
	Rustler	L.3885
Individual Crown Grants	Little Daisy	L.7302
	Golden	L.7303
	Idler	L.7304
	Golden Fr.	L.7307

Claims held by location	L.C.	1-4 inclusive
	Mel	1-4 inclusive
	Dave	
	P.w.	1 Fr.
	A-S	1
	O-M	1-3 inclusive
	A.C.	1
	F-X	1
	O(O	1-2 inclusive
	X.X.X.	1
	E-O	
	Blanket	2-3 inclusive
	W-Blanket	1-2 inclusive
	Final	1 Fr.



LOCATION MAP

ROCKLAND MINING LTD.

Allen Geological Engineering Ltd.

December, 1961

SCALE 1 50,000 ÉCHELLE

*Allen Geological Engineering Ltd.*

T.T.P.	1-3 inclusive
Final	2 Fr.
Final	3 Fr.
Final	4-6 inclusive
Finningan	Fr.
Flanningan	1
Completion	
A	1 Fr.
B	1 Fr.
C	1
D	1
E	1
F	1
G	1
Avalanche	
Slide	1-2 inclusive

#### TOPOGRAPHY

The claims area is on the rugged and steeply sloping east shoreline of Slocan Lake. The lake is 1,755 feet above sea level. The highest ridge, near the southeastern corner of the property is in excess of 5,900 feet above sea level.

Alwin Creek and tributaries flow westerly in narrow rugged valleys to Slocan Lake.

## GEOLOGY

Within the Nelson batholith, the property is underlain by a complex of metamorphosed Elocan Group sediments and augite porphyry. Diabase and quartz eye porphyry, along with minor lamprophyre dykes have been intruded into the above rocks. Brecciation and faulting further complicate the geology, and within and near the broken zones there is sulphide mineralisation. Copper and Molybdenum, along with gold and silver are the important constituents of the mineralized zones.

## GEOCHEMICAL SURVEY

### INTRODUCTION

In 1967 Amax Exploration Inc. conducted reconnaissance surveys over roads, trails and creek valleys, sampling rock outcrops, soil, silt and water. Results indicated that geochemical investigation was practicable and additional work was recommended. Subsequently Allen Geological Engineering Ltd. was retained to conduct soil sampling survey over the central portion of the property

on a grid pattern. The grid covered the following claims:-

<u>Wholly</u>	<u>Partially</u>
Rockland	Rustler
Willa	E 1
C 1	Avalanch 1
Little Daisy	Slide 1
Idler	A 1 Fr.
B 1 Fr.	D 1
	Active
	Golden
	Golden Fr.

#### PURPOSE

The workings and showings are centrally located on the surveyed grid which is almost one mile square. The purpose of the survey was to acquire if possible sufficient data upon which to assist in determining the trend of the mineralized zones.

#### CREW

Mr. T. Thomas an experienced senior staff member of Allen Geological Engineering, was in charge of the



job. He was assisted by Mr. Terry Thomas, Mr. J. Hunyadi and Mr. C.Hart.

#### DURATION

The work was started October 27th and was carried on continuously to November 2nd, 1968.

#### PROCEDURE

A base line was surveyed through the approximate centre of the grid area by chain and transit in a north-south direction. East-west grid lines were surveyed by chain and Brunton compass on a 300 foot spacing.

On all lines stations were established every 100 feet with a numbered picket.

At each picket a small bag of soil was taken and designated with the station number. The samples were taken to Langley B. C., dried and tested by the

Time and weather did not allow the establishment of close grid patterns on and around the anomalous areas for detailed information. Such follow-up surveys are warranted when weather permits in order to localize the bedrock sources of the copper mineralization. Because of the rugged topography, however, it is considered that, along with available data acquired from the workings and showings, the locations of the sources of the copper mineralization is sufficiently tied down to warrant proceeding with additional investigations forthwith.

#### INTERPRETATION

The major anomaly outlined principally on the Willa and Little Daisy claims appears to have been derived from two sources of copper mineralization. The most obvious of these is the Willa brecciated zone which extends northeasterly across the easterly and upper part of the anomaly. The second possible source is the quartz eye porphyry which underlies this particular location. Primary consideration is therefor

allocated to the hypotheses that the zone of weakness and the porphyry intrusive may be important sources of copper mineralization. The long extension of the large anomaly northwest down the creek valley may be the result of seepage and coarse mineralized talus located there.

The anomaly in the central part of the Rockland claim appears to be tied in with the Rockland shear, but here also there is a nearby occurrence of quartz eye porphyry. Detailed investigation of the anomaly is warranted.

The anomalous zone on the southwestern portion of the Idler claim is close to the same elevation as the Rockland anomaly, and additional investigation of the anomaly is advisable.

#### SURFACE SAMPLING

Below the #1 adit tunnel samples were cut at 10-foot intervals, in bedrock, along the left creek bank. The lower 100 feet had recently been exposed by bulldozing. The following assay results are from the samples taken near the #1 adit tunnel by Mr. T. Thomas.

#1 adit tunnel by Mr. T. Thomas.

Sample Number	Location	Width Ft.	Gold oz/T	Silver oz/T	Cu. %	Mo %
18921 C	10 Ft. E. of #1 portal	10	0.95	3.90	0.40	Trace
18922 C	10 Ft. W. of & below #1 portal	10	0.07	1.85	0.70	Trace
18923 C	20 Ft. W. of & below #1 portal	10	0.02	0.10	0.28	"
18924 C	30 Ft. W. of & below #1 portal	10	Trace	0.10	0.30	"
18925 C	40 Ft. W. of & below #1 portal	10	0.005	0.60	0.18	"
18927 C	60 Ft. W. of & below #1 portal	10	0.005	0.05	0.15	"
18928 C	70 Ft. W., of & below #1 portal	10	0.015	0.30	0.35	"
18929 C	80 Ft. W. of & Below #1 portal	10	0.005	0.20	0.20	"
18930 C	90 Ft. W. of and below #1 portal	10	0.01	0.15	0.18	"
18931 C	100 Ft. W. of & below #1 portal	10	0.005	0.10	0.20	"
18932 C	110 Ft. W. of & below #1 portal	10	0.01	0.10	0.20	"
18933 C	120 Ft. W. of & below #1	10	0.005	0.15	0.23	"
18934 C	175 Ft. S. Sta. 6E, small Falls,	15	0.01	0.05	0.15	0.15

### CONCLUSIONS

The Rockland property is well located in the Slocan mining area of B.C., near the town of Silverton. Impressive showings of copper, along with gold, silver and molybdenum, have been partially explored by short adit tunnels and trenches. In the past, work has been directed towards opening up the high-grade showings, but current policy is to investigate the large tonnage potential of the property. The adit tunnel on the Rockland claim was rehabilitated, bedrock was exposed for examination below the portal, and the access road from the highway was cleared and improved. A geochemical survey was completed over approximately the central square mile of the claims area. Positive results therefrom point to the necessity for an expanded exploration programme. Detailed in the following paragraph, therefore, is a works programme considered to be most practicable for the 1969 season on the Rockland property.

### RECOMMENDATIONS

The following work is recommended on the Rockland property

	<u>Estimated Costs</u>
1. Additional topographic mapping of the central portion of the property,	\$2,000.00
2. Detailed geological mapping,	3,000.00
3. Geochemical surveys over selected areas on 20 to 50 foot grids to tie in the indicated anomalous areas,	4,000.00
4. Bulldozing and stripping to check bedrock geology,	10,000.00
5. Rock trenching,	4,000.00
6. Preparation of sites for core and percussion surface drilling,	8,000.00
7. Surface core drilling,	50,000.00
8. Improvement and opening of underground workings,	10,000.00
9. Underground core drilling,	10,000.00
10. Contingencies fund,	<u>14,000.00</u>
Estimated total costs,	<u>\$115,000.00</u>

Respectfully submitted,

per *Allen* P. Eng.

ALLEN GEOLOGICAL ENGINEERING LTD.

Vancouver, B.C  
February 15th, 1969

REFERENCES

Cairnes, C. E., Slocan Mining Camp, Mem 173, 1934

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