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REPORT ON *812-F*  
ROCKLAND PROPERTY  
SLOCAN M. D.  
By  
R. H. Seraphim, P. Eng.  
Vancouver, B.C., November, 1968

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GEOLOGICAL ENGINEERING

427-470 GRANVILLE  
VANCOUVER 2, B.C.

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REPORT ON  
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SUMMARY AND CONCLUSIONS:

The Rockland property is situated between Slocan City and Silverton in the Slocan Mining Camp. The property contains a shear and fracture zone at least 4,000 ft. long and one to two hundred feet wide. The zone contains copper with minor gold, silver, and molybdenum. Samples reported have assayed from 30 or 40 feet of 0.6% Cu to about 100 ft. of 0.35% Cu. These samples are from the best mineralized part of the exposed zone.

The prospect does not show sufficient promise of providing ore grade material to recommend it at present. However, geochemical and geophysical surveys, and some trenching, are in progress. If results from this work are particularly favorable, the property should be reassessed in the light of the new information.

INTRODUCTION:

A short examination of the property was completed October 28, 1968 for Cyprus Exploration. Dave Hawkins, a principal of Rockland Mining Co., acted as guide. The short examination was more to determine the overall nature and po-

tential of the property than to map and sample in detail. Grade and size of the known showings had been fairly well established by Cominco's short diamond drill holes. Surface is too irregularly mineralized and too oxidized for reliable surface sampling. Hawkins made reports and maps by J. F. McIntyre and others available at the property, and the included 300 ft. to the inch map is mostly traced from one of these.

LOCATION AND ACCESS:

The property is on Aylwin Creek about five miles south of Silverton. The showings are a mile east of the Silverton-Slocan City road, and at 3900 to 4500 ft. elevation. A steep road has been constructed to some of the showings from this main road.

CLAIMS:

The claims are listed below from J. F. McIntyre's report of May 17, 1967, and are reported to be owned or controlled by Rockland Mining Co. They have not been verified. A claim map showing the approximate location of the mineralized zone is in the pocket of the report cover.

Willa L. 1529  
Rockland L. 3884  
Mel. 1 to 4  
P.W. No. 1 Fr.  
A.S. 1

Rustler L. 3885  
D.C. 1 to 4  
E-0  
Blanket 2 & 3  
W. Blanket 1 & 2

OM 1 to 3  
AC 1  
FX 1  
Oxo 1 & 2  
XXX 1  
T.T.T. 1 to 3  
B1 Fr, C1, D1  
E1, F1, G1

Final 1,2, & 3 Fr.  
Final 4 to 6 inc.  
Finigan Fr.  
Finigan 1  
Completion  
A 1 Fr.  
Avalanche  
Slide 1 & 2

#### TOPOGRAPHY:

The claims lie on the steep hillsides bordering Aylwin Creek. The lower slopes have much talus cover and are heavily timbered. The higher areas are in many places bluffs which are too steep to traverse. Outcrops are thus abundant in the higher portions, and in a few places in creek canyons, but talus covers a surprising amount of the claim group.

#### HISTORY:

The property was explored many decades ago by surface trenching and several hand-steeled tunnels. Several hundred tons of ore are reported shipped in 1899, but the stope producing the ore was not seen. The old tunnels are now being rehabilitated. Cominco optioned the property about 1964 and diamond drilled several holes which are shown on the accompanying map. Amax later completed some reconnaissance geochemical survey. Rockland Mining Co. acquired the property about 1966, and are currently conducting surveys and some bulldozer trenching.

REGIONAL GEOLOGY: (See G.S.C. Map 109A - Nelson West Half)

The claims are on a small pendant of andesitic volcanics within the Nelson batholith. The volcanics are Triassic (Nicola) in age, thus it should not be surprising to find them copper-bearing though the remaining rocks in the Slocan Camp, sediments and intrusives, host a multitude of silver lead zinc lodes.

LOCAL GEOLOGY:

The 300 ft. to the inch map shows the principal claims, outcrops and workings. The andesitic volcanics are fractured, silicified, and mineralized, but appear to be breccia flow or agglomerate originally. The granitoid rock, mainly quartz porphyry, is also in places silicified, bleached, and mineralized.

A gossan zone, with shearing, fracturing, and mineralization is probably continuous from south of the Rockland northeasterly to at least the Daisy claim. The zone could thus be 4,000 ft. or more long. The width of more intense fracturing and mineralization is in the order of 100 ft., but weaker fracturing on the borders locally adds to this width, making in places perhaps 300 ft. width to the total zone.

The mineralization is chiefly pyrite, with minor chalcopyrite and a trace of molybdenite. The sulfides are

irregularly distributed, but are mostly in the areas of more intense fracturing. These zones are much oxidized on surface, and this, along with the irregular distribution, makes accurate surface sampling very difficult.

McIntyre's sampling across the shear zone as exposed near the tunnels and drill holes on the Willa claim is reported as follows:

<u>Width (ft.)</u>	<u>Au (oz)</u>	<u>Ag (oz)</u>	<u>Cu (%)</u>
30	0.015	0.30	0.35
20	gap snow covered		
30	0.025	0.10	0.35
20	0.015	Tr	0.40
30	0.005	Tr	0.19

These samples appear to be as good as or better grade than visual estimate.

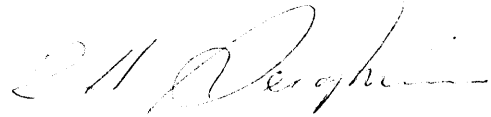
The tunnel on the Rockland claim was still too deep in mud and water, and thus not examined. It is reported to have provided 60 ft. of 0.51% Cu, but it is driven sub-parallel to the shear zone, (though it is well into the border of the zone of most intense shearing).

The Cominco drill holes are reported to have provided assays of -

C-1	73 ft.	0.11% Cu	(McIntyre)
C-2	36 ft.	0.40% Cu	(McIntyre)
C-3	30 ft.	0.60% Cu	(Hawkins)
C-4	25 ft.	0.75% Cu	(Hawkins)



The core is still at the property, but is not in good condition, and can no longer be correlated reliably with the appropriate hole location.

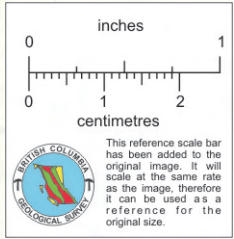
A handwritten signature in cursive script, appearing to read "R. H. Seraphim".

Dr. R. H. Seraphim, P. Eng.

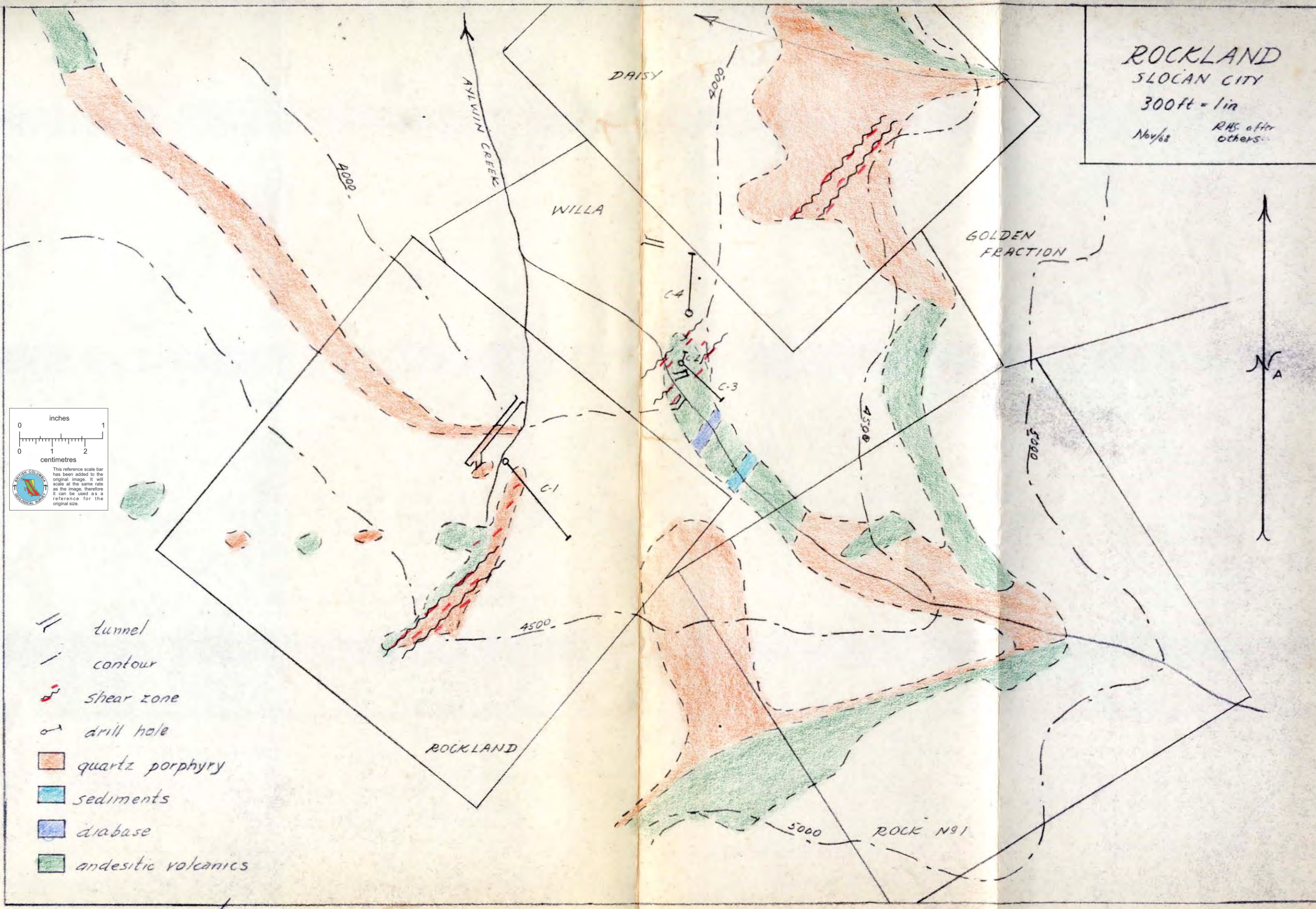
November, 1968

ROCKLAND  
SLOCAN CITY  
300ft = 1in

Nov/68 R.H.S. after others



- tunnel
- contour
- shear zone
- drill hole
- quartz porphyry
- sediments
- diabase
- andesitic volcanics



0 inches 1

0 centimetres 2

BRITISH COLUMBIA GEOLOGICAL SURVEY

This reference scale bar has been added to the original image. It will scale at the same rate as the image, therefore it can be used as a reference for the original size.

# Silverton

# Lake



# RED MTN.

# MT. AYLWIN