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GEOCHEMICAL REPORT
ROSS CLAIMS
ROSSLAND 49°, 117° SW
DR. A. C. SKERL, P. ENG.
ROSSLAND MINING CO.
July 12 to August 12 1967

1094

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A. C. SKERL

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MAP (1" to 300') #1	In pocket

28th October 1967

G E O C H E M I C A L S U R V E Y
R O S S C L A I M S
R O S S L A N D M I N I N G C O M P A N Y
R O S S L A N D , B . C .

I N T R O D U C T I O N

From July 12th to August 12th 1967 a geochemical soil survey for copper and molybdenum was conducted under the writer's supervision over most of the claims held by Rossland Mining Company near Rossland, B.C. A large proportion of the claims are crown grants. This report concerns the twelve fractional Ross claims that cover gaps between the crown grants and also 'square off' the east end of the group.

The survey was recommended because of the successful development of molybdenum deposits immediately to the north at Red Mountain Mines and Cascade Molybdenum. The geology was considered favourable and a few limited occurrences of molybdenite had been reported.

The line cutting and soil sampling were contracted together at \$100 per line mile to Mr. T. Doubt with whom I have been associated at intervals for several years when he was employed by Silver Arrow Mines. He has had considerable experience as a surveyor and in taking soil samples.

S I T U A T I O N

The Ross claims are in an area stretching from $\frac{1}{2}$ mile to $1\frac{1}{2}$ miles southeast of the city of Rossland and are all within 2000 feet of a gravel road.

T O P O G R A P H Y

The area is in the headwaters of Trail Creek and the elevations range from 3200 feet on the west to 2500 feet on the east.

GEOLOGY

The oldest formation is a sedimentary series of graphitic shales, sandstones and chert known as the Mount Roberts Formation. It is overlain by a series of volcanic lava flows with interbedded tuffs and banded cherts.

In the general area there are a number of intrusive rocks that have been identified as monzonite, granodiorite, granite porphyry, diorite porphyry and pulaskite. In many cases the so-called intrusive rocks appear to be the result of feldspathization of the volcanics.

Patches of glacial deposits are found throughout the area.

MINERALIZATION

The deposits that were originally worked in the Rossland camp were in the altered volcanics and the intruding monzonite. At present prices the ore produced would be worth over one hundred million dollars. The average grade was 1% Cu and 0.40 oz Au per ton.

Less than a mile to the northwest of these old mines a valuable molybdenite mine has recently been put into production by Red Mountain Mines and less than half a mile south of this another mine is being readied by Cascade Molybdenum.

The claims of Rossland Mining Company cover the south contact of the main monzonite intrusive where there are a number of old prospects on deposits containing lead, zinc and silver. This so-called South Belt was previously explored by self-potential and electromagnetic methods. As a result underground development was concentrated on the Blue Bird - Mayflower zone. A certain amount of ore was found but not enough to warrant a mill.

GEOCHEMICAL SURVEY

1. PROCEDURE

The two base lines A and B were re-run and flagged with stations every 200 feet. The N-S cross lines were then re-run every 400 feet with stations every 200 feet.

At each station a soil sample was taken from a depth of 12 to 15 inches with a 3/4" auger and placed in a numbered envelope. The samples were shipped in batches to T S L laboratories in Vancouver who used hot H-Cl acid extraction to determine total copper content by atomic adsorption and total molybdenum by the Zn - dithiol method.

The values were plotted on a base map (scale 1" to 300') as shown on the accompanying copy.

2. RESULTS

Interesting results for both molybdenum and copper were obtained in the north-west corner of the claims but only for copper in the Ross claims.

A promising copper anomaly was obtained in the Ross No 10 claim which extends into the neighbouring Monday and Nest Egg crown grants. The anomaly is up to 1500 feet long in a westerly direction and 900 feet northerly. It is probably due to a series of mineralized E-W structures. The values range up to 500 ppm with one of 3750 ppm and anything over 50 ppm is anomalous in this area.

A minor copper anomaly is present in the Ross No 12 claim that could be significant as a guide to other mineralization.

Another minor anomaly was found in Ross No 6 corresponding to an E-M anomaly. Nothing of note was found in Ross Nos 1 to 5 and 7 to 9.

REMARKS

The copper anomalies obtained in the Ross Nos 10 and 12 claims are at the south contact of the main Rossland monzonite, on either end of the Homestake-Gopher vein system and an associated copper anomaly 300 feet north of the Gopher.

These anomalies are of particular interest because they could be due to deposits of silver-lead-zinc-copper ore.

RECOMMENDATIONS

1. In each case the area of an anomaly should be closely prospected and the outcrops mapped in detail.
2. Bulldozing should then be tried in the hope of uncovering mineralization.

COSTS OF GEOCHEMICAL SURVEY

For the whole of the area surveyed the total contract price for the line cutting and soil sampling was \$4,050.

1141 soil samples were assayed for copper and Mo by T S L Laboratories at a cost of \$2,040.

Consultant's fees and expenses were \$516.

Thus a total of \$6,606 was expended on the geochemical survey.

For the purposes of assessment work the Ross claims Nos 1 to 12 are grouped with the crown grants Celtic Queen, Robert E. Lee, Maid of Erin, Red Eagle, Olla Podrida, Blue Bird, Monday and Nest Egg.

It is estimated that not less than \$2000 was expended on these 20 claims.

A. C. Skerl

DOMINION OF CANADA:
 PROVINCE OF BRITISH COLUMBIA.

In the Matter of *Ross #1-12.*

To Wit:

The Geochemical Survey of the claims of
 Rossland Mining Co. at Rossland, B.C.

July 12 to August 12 1967

**SUB-MINING RECORDER
 RECEIVED**
 OCT 31 1967
 M.R. #14645 \$101.00
 VANCOUVER, B. C.

I, **Augustus C. Skerl**
 of **1758 Western Parkway, Vancouver 8, B.C.**

in the Province of British Columbia, do solemnly declare that the various expenses incurred were as follows:

By the partners Terry Doubt and Abraham Wall both of P.O. Box 867 Princeton, B.C. who carried out the line-cutting, surveying and collection of soil samples:

Board and Lodging at \$12 per man per day for 31 days	-	\$744
Truck operation for 31 days - Rental at \$10 per day	-	310
Mileage 923 miles at 15¢		138.45
Gas and oil		79
Supplies: 2 axes	\$11	
Chain	20	
Survey flagging	28	
Auger	8	67
Drafting map - Altair Services, Vancouver B. C.		53
		<u>1391.45</u>

Labour:

2 weeks of 7 days at 12 hrs per day	-	88	plus	80	ov. time	
2 weeks of 6 days at 12 hrs per day	-	88	"	56	"	"
3 days at 12 hrs	-	24	"	12	"	"
		<u>200</u>	"	<u>148</u>	<u>x 1 1/2</u>	
				Equivalent ov. time		222
				Total hrs 1 man		422
2 men - 844 hrs at \$3.15 per hour						2658.60
				Total field expense		<u>\$4050.05</u>

1141 samples assayed by T S L Laboratories		2040.00
Fees of consultant, DR. A. C. Skerl - \$500 and expenses - \$16		<u>516.00</u>
Total cost of Geochemical survey		<u>\$6606.05</u>

Of this amount at least one third applies to the Ross Group.

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."

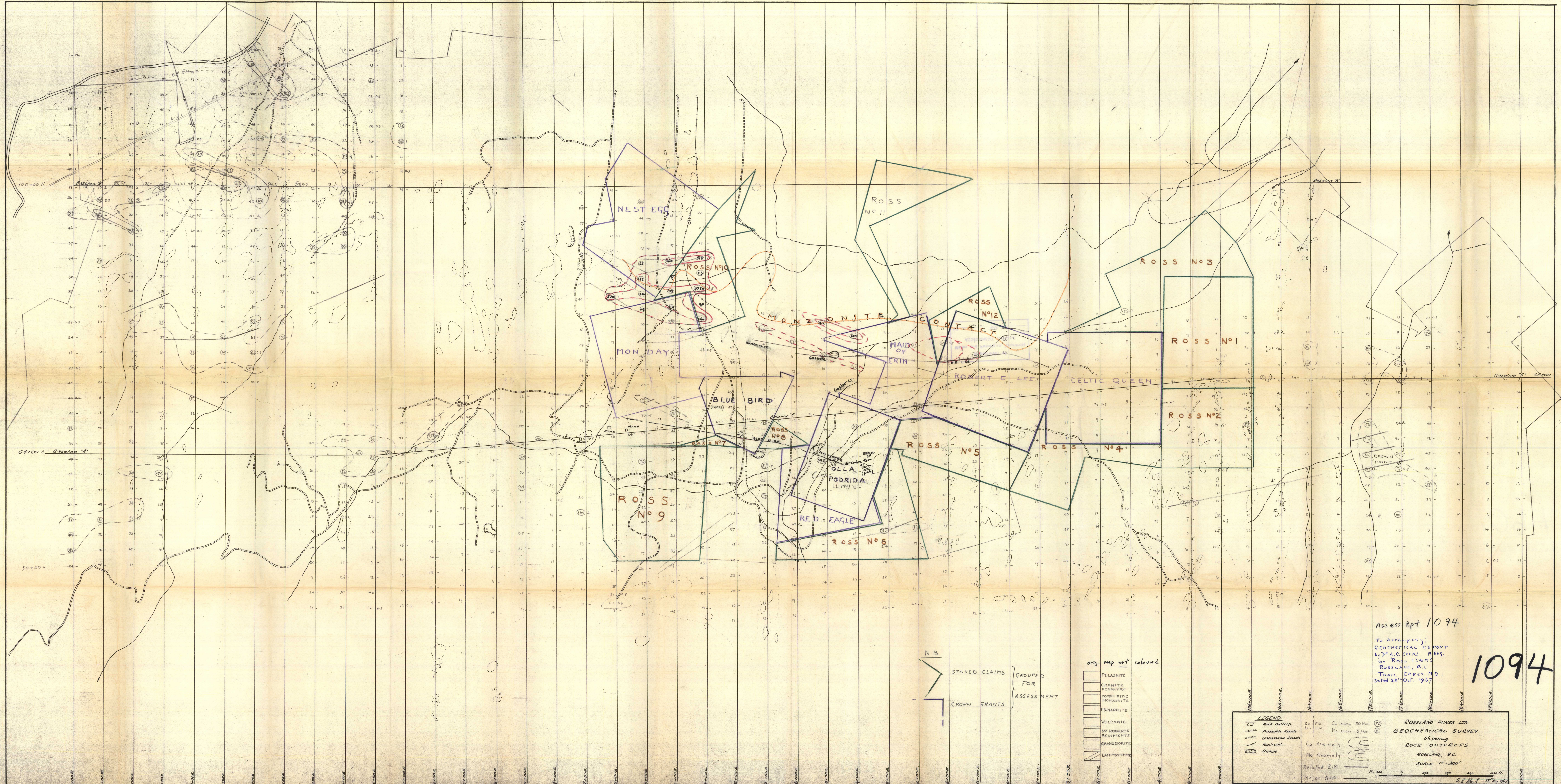
Declared before me at the City
 of Vancouver, in the
 Province of British Columbia, this 31
 day of October 1967, A.D.

A. C. Skerl

J. J. ...
 A Commissioner for taking Affidavits for British Columbia or
 A Notary Public in and for the Province of British Columbia.

★o

SUB-MINING RECORDER



Assess. Rpt 1094
 To Accompany:
 GEOCHEMICAL REPORT
 by D. A. C. SKEAL P. ENG.
 on ROSS CLAIMS
 ROSSLAND, B.C.
 TRAIL CREEK M.D.
 Dated 28th Oct. 1967

1094

NB
 STAKED CLAIMS } GROUPED FOR ASSESSMENT
 CROWN GRANTS }

orig. map not coloured

- PULASKITE
- GRANITE
- PORPHYRY
- PORPHYRIC MONZONITE
- MONZONITE
- VOLCANIC
- MT ROBERTS SEDIMENTS
- GRANODIORITE
- LAMPROPHIRE

LEGEND	
	Rock Outcrop
	Possible Roads
	Unpassable Roads
	Railroad
	Dumps
	Cu Anomaly
	Mo Anomaly
	Related E-M
	Major S-P

ROSSLAND MINES LTD
 GEOCHEMICAL SURVEY
 SHOWING
 ROCK OUTCROPS
 ROSSLAND, B.C.
 SCALE 1" = 300'
 1967