181-#360-#9150

ASSESSMENT REPORT

GEOCHEMICAL REPORT

ROEN 1 MINERAL CLAIM

GATAGA RIVER AREA LIARD MINING DIVISION BRITISH COLUMBIA

LOCATION:

N.T.S. 94K/4W, 94L/1E Latitude 58⁰08' N Longitude 126⁰00' W

OWNER & OPERATOR: SEREM LTD.

WORK COMPLETED: Between August 5 and August 8, 1980

AUTHOR:

W.J. WILKINSON, B.Sc.



NOVEMBER 27, 1980

TABLE OF CONTENTS

Page

	•	
INTRODUC	FION	1
i.	Location and Access	1
ii.	Topography	1
iii.	Property Definition	1
iv.	Economic Assessment of Property	2
v.	Work Summary	2
vi.	Claims Worked On	2
vii.	Purpose of Project	2
GEOLOGY	•••••••••••••••••••••••••••••••••••••••	3 .
GEOCHEMIS	STRY	3
i.	Sampling Methods	3
ii.	Analytical Procedures	3
iii.	Interpretation of Results	4
	(a) Copper	4
	(b) Zinc	4
	(c) Silver	5
	(d) Lead	5
CONCLUSIO	DNS	5
APPENDIX	I ITEMIZED COST STATEMENT	6
APPENDIX	II AUTHOR'S QUALIFICATIONS	8
APPENDIX	III BIBLIOGRAPHY	9

LIST OF ILLUSTRATIONS

1.1

Fig. l.	Location Map 1:250,000		Following page 1
Fig. 2.	Claim Map 1:50,000		Following page 1 Following page 1
Fig. 3.	Soil Geochemistry, Copper	1:5,000	In Pocket
Fig. 4.	Soil Geochemistry, Zinc	1:5,000	In Pocket
Fig. 5.	Soil Geochemistry, Silver	1:5,000	In Pocket
Fig. 6.	Soil Geochemistry, Lead	1:5,000	In Pocket

INTRODUCTION

In early August, 1980, Serem Ltd. conducted a soil geochemical survey of the Roen 1 Mineral Claim. The writer supervised this field work and made a brief examination of the claim.

i. Location and Access

The Roen 1 claim, Record No. 388, Liard Mining Division, straddles the boundaries of N.T.S. map-areas 94K/4W and 94L/1W at 58⁰08' N, 126⁰00' W, and covers a northwest-flowing tributary of Braid Creek. It is 9 km northwest of the Driftpile Creek lead-zinc deposit, and about 80 km north of Ware.

Access is by helicopter. Mayfield Lakes, situated 10 km northeast of the claim, is suitable for float-equipped aircraft. Duration of this project was considerably reduced by utilizing a helicopter based on nearby Driftpile Creek to set out crews along the base-line.

ii. Topography

Topography in the area consists of rugged, mountainous terrain with relief in the order of 700 metres. Elevations range between 1150 metres and 1850 metres. Vegetation is sub-alpine (shrubs, spruce and pine) to alpine (moss and grass).

iii. Property Definition

The Roen 1 and Roen 2 claims were located by Serem Ltd. in 1977 during a regional exploration program, after leadzinc silt geochemical anomalies were detected in the drainage, and prospecting turned up baritic shales. Work in 1977 consisted of prospecting and silt and gossan sampling (Assessment Report 6881, by Peter Tegart). In 1979 4.5 square





kilometres were mapped at 1:10,000. A baseline was established in the central valley and four cross lines, spaced 600 metres apart, were soil sampled (Assessment Report 7328, by Joan F. Carne). In early 1980 the Roen 1 claim was reduced in size from 20 to 12 units, and the Roen 2 claim was abandoned.

iv. Economic Assessment of Property

No mineralization of economic potential has been found. The geologic setting is favourable for the occurrence of shale-hosted baritic zinc-lead deposits.

v. Work Summary

7.1 line-kilometres were soil sampled at 50-metre intervals from a base line 1.80 kilometres long.

A total of 162 soil samples were collected.

vi. Claims Worked On

The bulk of the work was done on the Roen 1 Mineral Claim. Sampling was extended beyond the claim toward the west so as to gather data relevant to the appraisal of the anomalies on the claim.

vii. Purpose of Project

The 1980 field program was designed to further delineate the anomalous soil geochemical results obtained in 1979 by more detailed sampling, in the hope of finding areas where hand trenching might be effective.

GEOLOGY

Devonian-Mississippian Gunsteel Formation shales were observed throughout the area explored. They are predominantly thin bedded, light to dark grey shales with some mudstone and argillite. One (or more ?) horizons of silvergrey weathering shale contain blebs and nodules of barite, grading to massive barite laminations.

The Geology of the Roen claim has been described in more detail by J.F. Carne, who mapped the property in 1979 (Assessment Report 7328).

GEOCHEMISTRY

i. Sampling Methods

A baseline was established using chain and compass, oriented at N 30^O W (true), parallel to the baseline established along the creek by Carne in 1979. The baseline was flagged and labelled at 100-metre intervals. Cross lines were run between the baselines at 200-metre intervals.

Samples were collected at 50-metre intervals from the "B" soil horizon at a depth of 10-20 cm, using an iron mattock or shovel to first dig a hole, then placing a sample in a high wet-strength Kraft paper sample bag.

ii. Analytical Procedures

Samples were submitted to Min-En Laboratories Ltd., 705 West 15th Street, North Vancouver, B.C., for analysis for lead, zinc, copper and silver.

The samples were dried at 95⁰ Celsius and sieved, retaining the -80 mesh fraction. A 1.0 gram portion was

digested (6 hours) with a HNO₃-HClO₄ mixture. This was then cooled, diluted to a standard volume, and analyzed by Atomic Absorption Spectrophotometer. The results reported are not background-corrected.

iii. Interpretation of Results

Results of the 1979 survey, as well as the results of the current 1980 work are plotted on the accompanying plans. (1979 sample stations are shown as crosses; 1980 sample stations are shown as dots.) The 1979 samples were analyzed for lead-zinc only; the 1980 samples were analyzed for lead-zinc-copper-silver.

(a) Copper

Only a few isolated samples were anomalous in copper. Background is in the range of 12 ppm to 80 ppm, with anomalous values in the range of 100 ppm and better. In one area (4+00N, 2+50W to 3+00W), weakly anomalous values (94 ppm, 107 ppm) may be related to a nearby occurrence of massive barite with minor chalcopyrite, sphalerite and galena in what appeared to be a fault-controlled relacement vein or lens. A few scattered high values may reflect similar mineralization (6+00N, 0+00W; 8+00N, 5+50W; 16+00N, 0+50W).

(b) Zinc

Geochemical response for zinc is quite variable with background values ranging from 10 ppm to 200 ppm. Contouring at 200 ppm reveals a number of broad zones running sub-parallel to geological contacts. Highly anomalous response (1,000 ppm and better) is not uncommon along the valley floor, where it appears to be related to gossanous

4.

springs. Several isolated high values occurring on the east side of the grid should be spot checked in the field.

(c) Silver

Silver background is relatively high, with numerous results in the range of 1 to 3 ppm. Four anomalous values in the 8 to 15 ppm range may be significant. There is no strong correlation between silver and other metals apparent in the data, however.

(d) Lead

Lead background ranges from 10 ppm to 100 ppm (the mean value). Threshold anomalous values are in the 100-200 ppm range. Only 6 samples were greater than 400 ppm lead, of which two were 1,000 ppm or better. The 200 ppm lead contour outlines rather irregular, narrow zones lying sub-parallel to bedding. Strongly anomalous values (>400 ppm) within these zones, particularly 2+00S, 2+50W and 3+00N, 3+50W, are sufficiently attractive to justify detailed prospecting and hand trenching.

There is little coincidence between anomalous lead, zinc and silver. This may reflect a mono-mineralic or zonal tendency in any underlying mineralization.

CONCLUSIONS

The 1980 soil geochemical results are in accord with results from the 1979 program, and have delineated areas of anomalous significance to a degree which would justify a detailed surface appraisal including hand trenching.

> W.J WILKINSON S Wilkinson, B.Sc.

APPENDIX I

1

ITEMIZED COST STATEMENT

Wages

Emj	ployee	Position	Rate/Day	Days Worke	eđ	Total Days	Amount Paid
D.	Price	Sampler	\$100.00	Aug.	5-9	5	\$500.00
D.	Dolsen	Technician/ Sampler	\$ 80.00	Aug.	5-9	5	\$400.00
G.	Miles	Sampler	\$ 50.00	Aug.	5-9	5	\$250.00
R.	Stowe	Sampler	\$ 40.00	Aug.	7,8	2	\$ 80.00
J.	Rushton	Sampler	\$ 50.00	Aug.	8	1	\$ 50.00
G.	Price	Sampler	\$ 55.00	Aug.	8	1	\$ 55.00
w.	Wilkinson	Supervisor	\$185.00	Aug.	5-7	3	\$555.00
			Total mag	n day	S	22	
			Total wa	ges			\$1,890.00

Allocated Camp Costs

,	Per Man day		
Food	\$10.80		
Expediting	3.00		
Fixed Wing Support	13.20		
	\$27.00		
22 man days	@ \$27.00 per day	\$	594.00

Helicopter Charters

Viking H	elicopters (Hughes 500 D, CG-RYV)	
Aug. 5	2 hr. 45 min.	
Aug. 7	1 hr. 15 min.	
Aug. 9	<u>l hr. 10 min.</u>	
Total	5 hr. 10 min. @ \$310/hr + \$102/hr fuel	\$2,128.67

Continued

	He	elicopt	ter Chai	ters	(Conti	nued)	
Northern	Mountain	(Bell	206 B),	part	of Inv	. 10607	
Aug. 6	0.5 hr.						
Aug. 7	0.2 hr.						
Aug. 8	2.5 hr.		•				•
Aug 9	<u>1.5</u> hr.						
Total	4.7 hrs	@ \$350	0/hr + \$	\$98/hr	fuel		\$2,105.60

Assays

162 analyses for Pb, Zn, Cu	, Ag @ \$4.00/sample	
plus \$0.60/sample for prepa	ration (Min-En	
Invoices 6943 (75 samples),	6916 (87 samples)	\$ 745.20
Report Preparation		\$ <u>1,000.00</u>
	Total cost	\$8,463.47

7.

APPENDIX II

AUTHOR'S QUALIFICATIONS

The author holds a B.Sc. degree in geology from the University of British Columbia, is a Fellow of the Geological Association of Canada, and has been practising his profession continuously for thirteen years. He was employed by Zapata Granby Corporation for 10 years, initially as District Geologist (Smithers), then from 1977-1979 as Senior Exploration Geologist (Vancouver). From June through November, 1979 he was Manager, Metals Exploration for Granby. He is presently employed by Serem Ltd. as a Senior Geologist. He was responsible for planning and supervision of this programme, and directed field work on the property.

APPENDIX III

BIBLIOGRAPHY

Carne, J.F., 1979: Geology and Soil Geochemistry, Roen #1
and #2 Claims; Assessment Report

Tegart, P., 1978: Geological and Geochemical Report on the Roen Claims, Assessment Report 6881.



	M. J. M. HISOM S M. J. M. HISOM S Mallainov
ALL AND	LEGEND FLAGGED BASELINE GRID STATION, 1980 SURVEY GRID STATION, 1979 SURVEY SOIL GEOCHEMICAL RESULTS (VALUES IN PPM) LEGAL CORNER POST OUTLINE OF CLAIM CREEK ELEVATION CONTOURS (METRES) GEOCHEMICAL CONTOUR INTERVALS 100 ppm 200 ppm 400 ppm 1000 ppm
	SELWYN BASIN
	ROEN CLAIMS SOIL GEOCHEMISTRY <u>LEAD</u>
	DATE SEPT 1980 DATA W.J. WILKINSON FIGURE NTS 94K 4W DRAWN D.G. DOLSEN 6 SCALE 1:5000 CHECKED 500m 6 0 250m 500m 500m





W. J. WEIKINSON ilinson LEGEND FLAGGED BASELINE GRID STATION, 1980 SURVEY GRID STATION, 1979 SURVEY -**-**----۲ + •37 (66) SOIL GEOCHEMICAL RESULTS (VALUES IN PPM) LEGAL CORNER POST OUTLINE OF CLAIM CREEK ELEVATION CONTOURS (METRES) -1500-GEOCHEMICAL CONTOUR INTERVALS 200 ppm 400 ppm 1000 ppm \sim <u>~~</u>_ \sim S.E.R.E.M. LTD PROJECT SELWYN BASIN TITLE ROEN CLAIMS SOIL GEOCHEMISTRY <u>ZINC</u> FIGURE DATE SEPT. 1980 DATA W.J. WILKINSON DRAWN D.G. DOLSEN N.T.S. 94K 4W 4 CHECKED SCALE 1: 5 000 250m 500m

