# TABLE OF CONTENTS

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduction</td>
<td>1</td>
</tr>
<tr>
<td>Location and Access</td>
<td>1</td>
</tr>
<tr>
<td>1984 Exploration</td>
<td>2</td>
</tr>
<tr>
<td>Results and Conclusions</td>
<td>3</td>
</tr>
</tbody>
</table>

# LIST OF FIGURES

<table>
<thead>
<tr>
<th>Figure</th>
<th>Description</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Figure 1</td>
<td>Location Map</td>
<td>1</td>
</tr>
<tr>
<td>Figure 2</td>
<td>Claim Map</td>
<td>1</td>
</tr>
<tr>
<td>Figure 3</td>
<td>Compilation Map</td>
<td>2</td>
</tr>
<tr>
<td>Figure 4</td>
<td>Main Zone Detail</td>
<td>2</td>
</tr>
<tr>
<td>Figure 5</td>
<td>Trench 84-1</td>
<td>2</td>
</tr>
<tr>
<td>Figure 6</td>
<td>Trench 84-2</td>
<td>2</td>
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# APPENDICES

<table>
<thead>
<tr>
<th>Appendix</th>
<th>Description</th>
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<tbody>
<tr>
<td>Appendix I</td>
<td>Statement of Qualifications</td>
</tr>
<tr>
<td>Appendix II</td>
<td>Assay Certificates</td>
</tr>
<tr>
<td>Appendix III</td>
<td>Statement of Expenditures</td>
</tr>
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</table>
INTRODUCTION

Archer, Cathro & Associates (1981) Limited was contracted by Serem Inc. to evaluate mineralized float occurrences on the Rod property with hand trenching. Earlier work by MacIntyre Mines Limited (later Canadian Superior Exploration Ltd.) as well as Serem Ltd. (now Serem Inc.) is detailed in reports filed previously for assessment credit.

Most of the 1977 to 1980 exploration was concentrated in the south part of the property where carbonate-hosted lead-zinc occurrences are present. Silver-rich galena float mineralization located in the north part of the claim group in an area underlain by Paleozoic black shales received little work until 1982 when Serem purchased the property and performed a detailed geochemical and prospecting survey. That exploration outlined a virtually continuous, 2 km long lead-silver soil anomaly associated with galena float occurrences.

This report summarizes a hand trenching program carried out during June 1984 to evaluate results of the earlier work on the northern part of the claim block.

LOCATION AND ACCESS

The Rod property is located in the Mayo Mining District in central Yukon Territory, about 100 km northeast of the Keno Hill silver camp. The property comprises 100 claims totalling about 21 km² in area. Details are given below:

<table>
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<th>Claim Name</th>
<th>Record No.</th>
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<tr>
<td>Rod 13, 15, 17</td>
<td>YA15188, YA15190, YA15192</td>
<td>28 June, 1984</td>
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<td>Rod 14, 16, 18</td>
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<td>Rod 31-47</td>
<td>YA15206-YA15222</td>
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<td>Rod 48-100</td>
<td>YA15223-YA15275</td>
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<tr>
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<td></td>
<td>28 June, 1984</td>
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Note: Claim expiry dates are prior to assessment work filed in 1984.
Figure 1
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
LOCATION MAP
ROD CLAIMS
SEREM INC

To accompany report dated July 10, 1984
The centre of the claim block is located at latitude 64°12' and longitude 134°00'W. Access is by helicopter from Keno City, the nearest settlement, a distance of 60 km. Support for relatively large-scale exploration is facilitated by the nearby Rackla East airstrip and a winter bulldozer tote road from Elsa that passes within 5 km of the Rod property.

1984 EXPLORATION

A three-man trenching crew consisting of blaster M. Cloutier, assistant B. Sinclair and geologist-supervisor R. Carne fly-camped on the property during the period June 7 to June 10, inclusive. R. Carne and B. Sinclair were employees of Archer, Cathro while M. Cloutier was a private contractor hired directly by Serem Inc.

Two hand trenches on the Rod 35 claim were blasted with powder and mucked by hand. The trenches were oriented to expose bedrock at the uphill edge of the lead-silver geochemical anomaly and coincident galena float train. Volume of the trenches is calculated below:

Trench 84-1:

western third-\([(1.6m \times 1.1m)+(1.6m \times 1.2m \times \frac{1}{2})+(1.5m \times 1.6m \times \frac{1}{2})]\) 15m = 58.8m³
central third-\([(1.1m \times 1.1m)+(0.9m \times 1.1m \times \frac{1}{2})+(2.0m \times 1.1m \times \frac{1}{2})]\) 15m = 42.1m³
eastern third-\([(1.6m \times 1.0m)+(1.6m \times 1.6m \times \frac{1}{2})+(1.6m \times 1.7m \times \frac{1}{2})]\) 10m = 42.4m³

Total Volume = 143.3m³

Trench 84-2:

western half -\([(1.4m \times 1.0m)+(1.4m \times 1.5m \times \frac{1}{4})+(1.4m \times 2.5m \times \frac{1}{4})]\) 10m = 42.0m³
eastern half -\([(1.8m \times 1.1m)+(1.8m \times 1.6m \times \frac{1}{4})+(1.8m \times 2.3m \times \frac{1}{4})]\) 9.5m = 52.2m³

Total Volume = 94.2m³

Mineralized veins and altered shale were sampled using 2 x 20 cm continuous channel sampling unless otherwise specified. The galena float train was sampled along its north-south upper limit for a distance of 80 m to determine if variations
LEGEND

area of vegetation kill zone with direction of downslope mechanical transport

X GN galena float occurrence
X GN-OZ galena-quartz float occurrence
X ML-OZ molybdenite-quartz float occurrence

Figure 4
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
MAIN ZONE DETAIL
ROD CLAIMS
SEREM INC
Scale 1:500

To accompany report dated July 10, 1984
12.6-17.3m: gossanous frozen soil horizon with quartz vein fragments.
  Sample No. 2173 (Mn-rich grab)
  Sample No. 2174 (Fe-rich grab)

10.0-12.6m: unaltered dark grey, blocky, non-siliceous shale (not sampled)

8.6-10.0m: weakly altered grey shale (weak bleaching, minor clay alteration)
  Sample No. 2172

7.9-8.6m: unaltered black siliceous shale
  Sample No. 2171

7.5-7.9m: massive limonite; Sample No. 2170

6.4-7.5m: moderately altered grey shale
  Sample No. 2169

4.7-6.4m: moderately altered grey shale
  Sample No. 2168

3.7-4.7m: limonite with quartz stringers, bands of country rock and plombagerosite (IV); Sample No. 2167

3.0-3.7m: strongly altered grey shale; Sample No. 2166

1.5-3.0m: moderately altered grey shale
  Sample No. 2165

Figure 5
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
TRENCH 84-1
ROD CLAIMS
SEREM INC.

Scale 1:100
To accompany report dated July 10, 1984
13.4-10.2 m: unaltered, very carbonaceous black shale with numerous thin quartz-yellow oxide (plumbojarosite?) veinlets and gouge partings (not sampled).

16.7 m: narrow (0 cm - 1.5 cm) quartz-yellow oxide vein (not sampled).

16.7-15.4 m: complex quartz-galena vein-fault (see below).

4.9-11.6 m: unaltered, very carbonaceous black shale with numerous thin quartz-yellow oxide (plumbojarosite?) veinlets and gouge partings that decrease in frequency to the base of the interval (not sampled).

9.3 m: irregular, massive, fine grained bright orange-yellow oxide (plumbojarosite?) body; Sample No. 2163.

1.5-4.9 m: barren, unaltered very carbonaceous black shale.

Section through vein fault (looking northwest)

Figure 6:

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

TRENCH 84-2

ROD CLAIMS

SEREM INC

Scale: 1:100

5 m

To accompany report dated July 10, 1984
in silver-lead ratios occur along its length. The locations of galena float samples and channel samples in the floors of the trenches are shown on the accompanying detailed maps. Assays are listed by sample number in Appendix II.

RESULTS AND CONCLUSIONS

Hand trenching on the Rod 35 claim exposed numerous, narrow northwest-trending quartz veins stained with yellow oxide (plumbojarosite?). One complex vein-fault exposed in Trench 84-2 reaches a width of 1.3 m, including a 20 cm wide central zone of massive, fine-grained galena. Hydrothermal alteration consisting of bleaching and clay mineral alteration accompanies the vein system. The mineralization encountered in the trenches satisfactorily explains the distribution of galena float on surface and the associated soil lead-silver geochemical anomaly.

Respectfully submitted,

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

R.C. Carne, M.Sc.
APPENDIX I - STATEMENT OF QUALIFICATIONS
STATEMENT OF QUALIFICATIONS

I, Robert C. Carne, geologist, with business addresses in Whitehorse, Yukon Territory and Vancouver, British Columbia and residential address in Burnaby, British Columbia, hereby certify that:

1. I graduated from the University of British Columbia in 1974 with a B.Sc. and in 1979 with an M.Sc. majoring in Geological Sciences.

2. I am a member of the Geological Association of Canada.

3. From 1974 to the present, I have been actively engaged as a geologist in mineral exploration in British Columbia and Yukon Territory and on June 1, 1981 became a partner of Archer, Cathro & Associates (1981) Limited.

4. I have personally participated in or supervised the field work reported herein and have interpreted all data resulting from this work.

Robert C. Carne, B.Sc., M.Sc.
APPENDIX II - ASSAY CERTIFICATES
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<th>Sample description</th>
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**CERTIFICATE OF ANALYSIS**

**TO:** ARCHER CATHRO & ASSOC. (1981) LTD.

1016 - 510 W. HASTINGS ST.
VANCOUVER, B.C.
V6B 1L8

**CERT. #:** A8412626-001-A

**INVOICE #:** I8412626

**DATE:** 28-JUN-84

**P.O. #:** NONE

**SAMPLE DESCRIPTION**

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<td>2175</td>
<td>205</td>
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<td>75</td>
<td>673</td>
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**INVOICE #:** 18412626

**DATE:** 28-JUN-84

**P.O. #:** NONE

**SEREM ROD**

**MEMBER CANAMAN TESTING ASSOCIATION**

Certified by ..............................
APPENDIX III - STATEMENT OF EXPENDITURES
AFFIDAVIT

I, Joan Mariacher, of Whitehorse, Y.T. make oath and say:

That to the best of my knowledge the attached Statement of Expenditures for exploration work on the Rod 35 mineral claims on Claim Sheet 106D/1 & 106C/4 is accurate.

Joan Mariacher

Sworn before me at Whitehorse, Y.T.

this 11th day of July, 1984

Notary, Yukon Territory
Statement of Expenditures
Rod 35 Mineral Claim
June 28, 1984

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<th>Description</th>
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<td>Contract blaster - M. Cloutier - 7 days at $350/day (including equipment)</td>
<td>$2,450.00</td>
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<tr>
<td>CP Air - Vancouver/Whitehorse return for Cloutier</td>
<td>$ 493.00</td>
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<tr>
<td>Archer, Cathro &amp; Associates (1981) Limited - management and expense for program</td>
<td>$11,797.06</td>
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<td>Total</td>
<td>$14,740.06</td>
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In Account With
Serem Inc.
June 30, 1984

Re: Trenching Program - Rod Property, Yukon

Consulting Fees

R.J. Carne - 3/4 day pre-field preparation in Vancouver in May; 7 1/2 days travel, field and report preparation June 3-12; 1/2 day assessment reports July - total 8 3/4 days at $350/day $3,062.50

Labour

B. Wengzynowski - 1 day June 4-5 preparing field equipment and loading truck $140.00
B. Sinclair - 4 days June 7-10 assisting in field at $185/day 740.00
J. Mariacher - 9 1/4 hours typing reports and assessment 315.00 1,195.00

Expenses

R. Carne - CP Air Vancouver/Whitehorse return 493.00
Room and board in Whitehorse - 1 day 50.00
in Sadie camp - 4 mandays 200.00
Rental AC field camp equipment June 6-10 total 15 mandays at $20/day 300.00
Rental SBX11 radio - 5 days at $11/day 55.00
AC truck rental - 8 days at $40/day plus 340 miles at $.35/mile 439.00
Gasoline - $61 + $107.50 168.50
Groceries - Super Valu + Mayo Caselot 345.10
Okanagan Helicopters 3,094.35
Helicopter fuel purchased from Sadie camp; 300 litres including delivery cost and drum charge 327.60
Chemex Labs Ltd. 243.32
Yukon Explosives 808.59
B.C. Telephone & Northwestel 111.81
Xeroxing 70.00
Drafting - total 22 hours June & July 660.00
Receiver General - assessment filing fees 671.25
Northern Metalic & Beaver Lumber - crowbars 59.94
Freight - AC petty cash & CP Air 55.90
Books on Main 5.45
ICG - propane 52.00 8,210.81
Total $12,468.31

Respectfully submitted,

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

A.R. Archer

/mjm

A.R. Archer