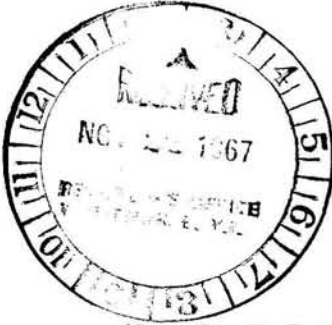


**ANVIL MINING CORPORATION LIMITED**

P.O. BOX 2470  
103 POLARIS BLOCK  
WHITEHORSE, YUKON TERRITORY  
CANADA



November 21, 1967

Mr. G. McIntyre  
Chief Mining Recorder  
Federal Building  
Whitehorse  
Yukon Territory

Dear Mr. McIntyre:

The accompanying report is submitted to apply as assessment work on the HOG Claim Group.

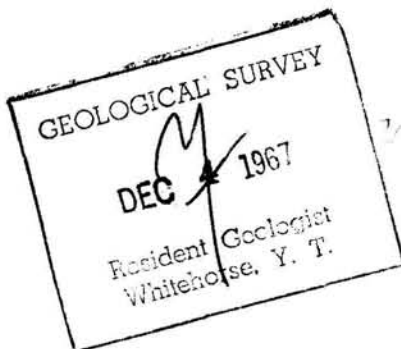
The area covered is on claim map sheets 105K/5.

Yours truly,

*M.O. Hampton*  
M.O. Hampton, P. Eng.  
Chief of Exploration  
ANVIL MINING CORPORATION LIMITED

MCH/ew

Attach.



|                                                                                                                                                    |
|----------------------------------------------------------------------------------------------------------------------------------------------------|
| This report has been examined by the Geological Evaluation Unit, Approved as to technical worth by:<br><i>D.C. Finlayson</i><br>RESIDENT GEOLOGIST |
| Approved as to cost in the amount of \$ 3739.25<br><i>A.E. Nelson</i><br>RESIDENT GEOL. ENGINEER                                                   |
| Accepted as representation work under Section 83(4) Yukon Quartz Mining Act.<br><i>[Signature]</i>                                                 |

**GEOCHEMICAL REPORT**

**on**

**HOG CLAIM GROUP**

**(62°22'N, 133°30'W)**

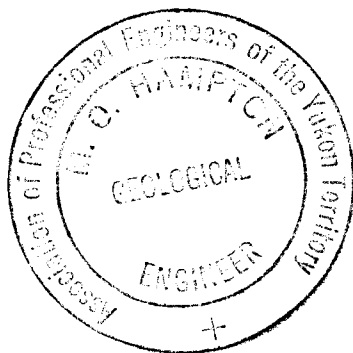
**at**

**ROSE MOUNTAIN, YUKON**

**for**

**ANVIL MINING CORPORATION LIMITED**

**REPORT BY:**



**M.O. Hampton, P. Eng.  
Chief of Exploration for  
ANVIL MINING CORPORATION LTD.**

**SAMPLED:**

**August 18 - September 9, 1967**

**GEOCHEMICAL SURVEY**

**HOG CLAIM GROUP**

**TABLE OF CONTENTS**

|                                                  | <b>PAGE</b>       |
|--------------------------------------------------|-------------------|
| <b>KEY MAP</b>                                   |                   |
| <b>INTRODUCTION</b>                              | <b>1</b>          |
| <b>SURVEY TECHNIQUES</b>                         | <b>1</b>          |
| <b>LABORATORY ANALYSIS</b>                       | <b>2</b>          |
| <b>RESULTS &amp; INTERPRETATION</b>              | <b>3</b>          |
| <b>CONCLUSIONS &amp; RECOMMENDATIONS</b>         | <b>3</b>          |
| <br>                                             |                   |
| <b><u>APPENDIX I</u></b>                         |                   |
| (i) Statement of Costs                           | <b>4</b>          |
| (ii) Personnel                                   | <b>5</b>          |
| (iii) Affidavit supporting<br>Statement of Costs | <b>6</b>          |
| <br>                                             |                   |
| <b><u>APPENDIX II</u></b>                        |                   |
| Geochemical Results                              | <b>MAP POCKET</b> |



CROWN

FUBAR

ROSE

GEOCHEMICAL SURVEY HOG

HOG CLAIMS

GEOCHEMICAL SURVEY

NOVEMBER 1967

105 K 5 & 6

62° 22' 30"

133° 30'

## INTRODUCTION

A geochemical soil sample survey was carried out on mineral claims HOG 45-68 inclusive during the periods August 18-25 inclusive, August 28-30 inclusive and September 4-9, 1967 inclusive. The sampling and part of the analysis was carried out by ANVIL personnel.

The soil sampling crew stayed at Anvil's Faro Camp and were transported, by helicopter, daily to the claim group.

The mineral claims covered in this survey were staked in June 1967 upslope from a group of HOG claims tested geochemically in 1966. The 1966 work indicated the possibility of a source of base metal ions higher in the watershed. The object of the 1967 soil sampling program was to test for such a source. The area covered by this survey is underlain by quartz-mica schist and phyllites have NW strikes and dipping approximately 30 degrees SW.

## SURVEY TECHNIQUES

The location line was chained and stations marked to act as a baseline. Samplers ran compass and tape traverses at 400 foot intervals along the baseline.

Soil samples were taken with mattocks at 400 foot intervals along the compass lines giving an overall sampling pattern on the corners of 400 foot squares. Where possible the B horizon was sampled. However, in general, the soil in this area is poorly developed and in most cases samples contained a relatively high organic content. The steep slope greatly decreased the production of the samplers.

#### LABORATORY ANALYSIS

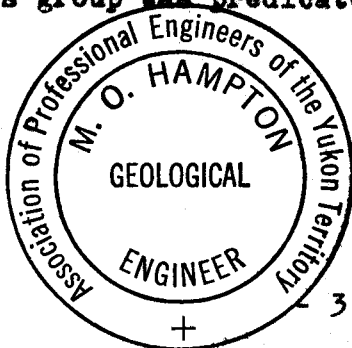
Part of the samples were analyzed in the geochemical laboratory at Faro by Anvil personnel, but approximately one half of the samples were taken after the laboratory was closed for the season. The latter samples were sent to a commercial laboratory in North Vancouver (Chemex Limited) for analysis. Test methods employed at Faro involved a hot aqua regia extraction of heavy metal ions from a standard quantity of the soil sample, followed by reaction with dithizone or biquinoline to give colored products. The colored reaction products were then compared to a series of colored solutions representing known metal content, to determine the metal content of the soil sample. Separate and specific tests for each of the three metals, copper, lead and zinc were carried out on each soil sample.


## RESULTS AND INTERPRETATION

A series of test samples run by the Anvil laboratory and two commercial laboratories showed the commercial laboratories consistently gave values two times higher for copper and zinc and four times higher for lead compared with the Anvil laboratory. As the samples from this survey were run in part by commercial laboratory and in part by Anvil, the Anvil results were factored and all results shown in terms of values obtained by Chemex Limited. The values obtained were plotted on a 1" = 400' plan. Of the metals analyzed for, copper over 120 parts per million and zinc values over 400 parts per million might be considered anomalous. No lead values were obtained that could be considered significant. Only a few erratic anomalous values in copper and zinc were obtained. There are shown in color on the enclosed plan.

## CONCLUSIONS AND RECOMMENDATIONS

The geochemical survey covered in this Report failed to indicate any major source of copper, lead or zinc ions. No further work is recommended on this area in that the staking of this group was predicated solely on the geochemical possibilities.



  
M.O. Hampton, P. Eng.  
Chief of Exploration for  
ANVIL MINING CORPORATION LIMITED

APPENDIX I (1)

STATEMENT OF COSTS

1967 Geochemical Survey  
HOG Group

(A) Soil Sampling (424 samples)

|                       |                                        |                |            |
|-----------------------|----------------------------------------|----------------|------------|
| Wages                 | 42 man days @ \$16                     | \$ 672.00      |            |
| Maintenance           | 42 man days @ \$ 8                     | 336.00         |            |
| Helicopter, transport | 9 hr 35 min @ \$110                    | <u>1054.17</u> | \$ 2062.17 |
|                       | (Aug 18, 20-25, 28-30,<br>Sept 4, 6-9) |                |            |

(B) Laboratory Analysis

|                      |   |               |           |
|----------------------|---|---------------|-----------|
| 228 samples @ \$1.66 | = | \$ 378.48     |           |
| 195 samples @ \$2.20 | = | <u>429.00</u> | \$ 807.48 |

(C) Compilation of Report

|                                              |  |                 |           |
|----------------------------------------------|--|-----------------|-----------|
| Draughting, typing, clerical<br>and printing |  | \$ 75.00        |           |
| Writing                                      |  | <u>\$ 45.00</u> | \$ 120.00 |

(d) Supervision

|            |               |              |                   |
|------------|---------------|--------------|-------------------|
| D. Mayes   | 3 days @ \$35 | \$ 105.00    |                   |
| M. Hampton | 1 day @ \$45  | <u>45.00</u> | \$ 150.00         |
|            |               |              | <u>\$ 3139.65</u> |

APPENDIX I (ii)

PERSONNEL

(A) Soil Sampling

|               |              |                            |
|---------------|--------------|----------------------------|
| M. Currie     | Soil Sampler | Box 2470, Whitehorse, Y.T. |
| D. Fleming    | " "          | " "                        |
| B. Fraser     | " "          | " "                        |
| G. Macdonald  | " "          | " "                        |
| J. Sadler     | " "          | " "                        |
| W. Vanderpoll | " "          | " "                        |

(B) Laboratory Analysis

|             |                    |                            |
|-------------|--------------------|----------------------------|
| L. Olsen    | Lab Technician     | Box 2470, Whitehorse, Y.T. |
| M. Knapp    | " "                | " "                        |
| G. Paterson | Sample Preparation | " "                        |
| W. Rundle   | Lab Assistant      | " "                        |

Chemex Labs Limited, 1416 Crown Street, North Vancouver, B. C.

(C) Compilation of Report

|            |                      |                            |
|------------|----------------------|----------------------------|
| A. Mak     | Draughtsman          | Box 2470, Whitehorse, Y.T. |
| M. Hampton | Chief of Exploration | " "                        |

(D) Supervision

|            |                      |                            |
|------------|----------------------|----------------------------|
| D. Mayes   | Geologist            | Box 2470, Whitehorse, Y.T. |
| M. Hampton | Chief of Exploration | " "                        |

APPENDIX I (111)

A F F I D A V I T

SUPPORTING STATEMENT OF COSTS  
Geochemical Survey  
Aug. 18 - Sept 9, 1967

---

I, Murray O. Hampton, Chief of Exploration for ANVIL MINING CORPORATION LIMITED, have compiled the Statement of Costs as presented in this report "Geochemical Report HOG Claim Group", DO MAKE OATH AND SAY AS FOLLOWS:

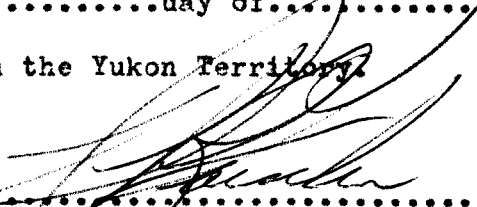
That to the best of my knowledge and belief, the Statement of Costs as presented is a true and an accurate presentation of expenditures to be applied as representative work.



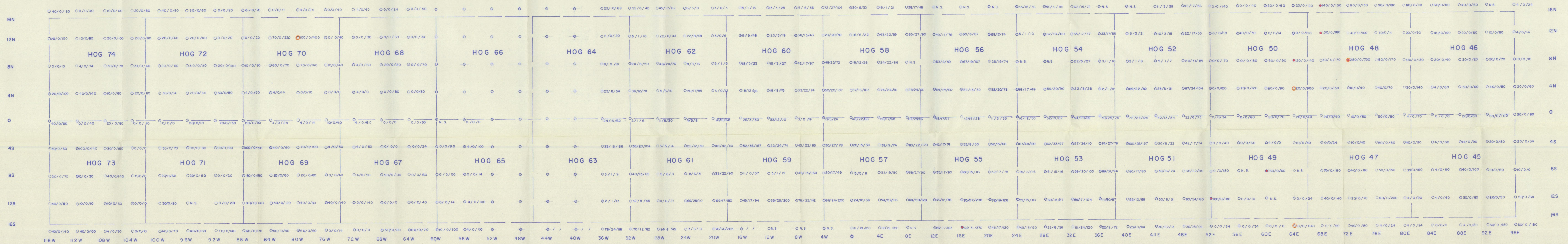
Murray O. Hampton, B.A.Sc., P. Eng.  
Chief of Exploration for  
ANVIL MINING CORPORATION LIMITED

NOV 22 1967

Sworn before me this.....day of.....  
1967, in the City of Whitehorse in the Yukon Territory.



.....  
A Commissioner for taking oaths in  
and for the Territory of the Yukon.



Cu / Pb / Zn ppm  
 ● > 120 ppm Cu  
 ○ > 400 ppm Zn

|                                                    |                       |
|----------------------------------------------------|-----------------------|
| ANVIL MINING CORPORATION LTD.                      |                       |
| HOG GEOCHEMISTRY                                   |                       |
| SCALE: 1" = 400'                                   | DATE: 8 NOV. 1967     |
| SAMPLES TAKEN: 424                                 | SAMPLES ANALYZED: 423 |
| DATE SAMPLED: AUGUST 18-25, 28-30/ SEPT. 4-9, 1967 |                       |
| SAMPLED BY: FLEMING, FRASER, MACDONALD,            |                       |
| VAN DER POLL, SADLER, CURRIE,                      |                       |
| ANALYZED BY: OLSEN, KNAPP, & CHEMEX LABS LTD.      |                       |
| DRAWN BY: A. M.                                    | DRAWING No. CWX-30    |
| DATE PRINTED: NOV 15 1967                          |                       |