December 12, 1966

Mr. J. McIntyre
Chief Mining Recorder
Federal Building
Whitehorse, Yukon Territory

Dear Mr. McIntyre:

The accompanying report is submitted to apply an assessment work on some of the LAUREL Mineral Claims.

The area covered is on claim map sheet 105 K/7.

Yours truly,

Murray C. Hampton, B.A.Sc.
Geologist for
ANVIL MINING CORP. LTD.

This report has been examined by the Geological Evaluation Unit. Approved at the total worth by:

[Signature]

Approved deposit in the amount of $6935.91

[Signature]

JAN 8 1967
Resident Geologist
Whitehorse, Y. T.
GEOCHEMICAL REPORT

on

LAUREL CLAIM GROUP

at

TAY RIVER, YUKON

(62° 25' N, 132° 50' W)

for

ANVIL MINING CORP LTD

November, 1966

REPORT BY:

M.C. Hampton, B.Sc.
Geologist for
ANVIL MINING CORP LTD.

APPROVED BY:

R.S. Adamson, P. Eng.
Chief of Exploration for
ANVIL MINING CORP LTD.

Sampled: July 29 - August 5, 1966
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### Appendix II

MAP FOLDER
INTRODUCTION

A geochemical survey was carried out on mineral claims Laurel 13, 15, 17, 19, 21, 23, 25, 27, 102, Laurel 41 to 68 inclusive and Laurel 87 to 100 inclusive during the 8 day period July 29th to August 5th, 1966. These claims are owned by NVIL MINING CORP LTD and the work was carried out by company personnel except for the preparatory linecutting.

Linecutting was done by contract linecutters of White, Hosford and Impey Ltd. of Whitehorse. All of the linecutting costs were submitted for assessment purposes with a geophysical survey.

Access to the property by all people involved was by helicopter.

The object of the survey was to establish relatively larger and generally defined areas of possible valuable metal content (Cu, Pb, Zn). In part this survey was correlation with anomalous areas outlined by geophysical techniques. Further, part of the survey was to determine if extension of geophysical surveyed area would be warranted.

A general purpose of geochemical survey is to determine whether airborne magnetic and electromagnetic anomalies, which in the TAY RIVER area are often caused by basic flows, intrusives and graphitic sediments respectively could be sulphide deposits carrying copper, lead or zinc.
SOIL SAMPLING SURVEY TECHNIQUES

A grid system was established with baselines laid out by transit and picket lines turned off by transit at 400 foot intervals along baselines. Stations were established at 100 foot intervals along the picket lines. A portion of the grid was extended by compass and tape methods.

Soil sampling was done on 400 foot centres for the most part. Two hundred and three hundred foot intervals were used when picket lines were not evenly divisible by 400 feet. When possible the B soil horizon was sampled. In the event of frozen or deep organic soil the best sample obtainable was taken and analyzed when possible. In that the target was a large near surface sulphide deposit it was felt that a generally defined anomaly was sufficient.

LABORATORY ANALYSIS

Test methods used involved a hot aqua regia extraction of heavy metal ions from the soil sample, followed by reaction with dithizone or biquimoline to give coloured products. The coloured reaction products were then matched with reacted solutions of 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

Of the three metals analyzed for, copper values, lead values, and zinc values above 60, 40 and 200 parts per million respectively might be considered anomalous.

In general, the copper and lead values are rather erratic. An area of high zinc values, supported by some high copper and lead values, exists in the central portion of the survey area.

Of the 569 samples taken in the field 513 were analyzed in the laboratory. Those not analyzed, in general, were of exceptionally high organic content.

CONCLUSIONS and RECOMMENDATIONS

An area of interesting geochemistry occurs in the central portion of the survey area. It is possible a sulphide body lies within this area.

Much of the geochemical anomalous area has not been checked by any geophysical means. The soil sampling should be extended to the northeast. The area should be covered by Induced Polarization surveys. If anomalies can be defined a programme of bulldozer trenching and diamond drilling is warranted. Further detailed geological mapping should be done on this area.

R.C. Hampton, B.Sc.
Geologist for
ANVIL MINING CORP LTD.

Approved by:
R.S. Adamson, P. Eng.
Exploration Chief for
ANVIL MINING CORP LTD.
APPENDIX I

STATEMENT OF COSTS

Geochemical Survey LAUREL Group

(A) Linecutting - Contract - Invoice submitted
White, Hosford & Impey Ltd. $4,882.13
Transportation, helicopter 600.00
$5,482.13

(B) Soil Sampling (569 samples)
Wages 24 man days @ $15. $360.00
Maintenance 24 man days @ $8. 192.00
Transportation, helicopter 300.00
$852.00

(C) Laboratory Analysis
513 samples @ $1.66 $851.58

(D) Compilation of Report
$200.00

(E) Supervision
$150.00

Total: $6,935.71
APPENDIX I (ii)

PERSONNEL

(A) Soil Sampling
   D. Hanson Soil Sampler Box 2470, Whitehorse, Y.T.
   G. Sprigge " " " "
   K. Roth " " " "

(B) Laboratory Analysis
   J. Kirkland Geochemist " " " "
   L. Olsen Lab Assistant " " " "
   E. Tringle Lab Assistant " " " "
   R. Rundle Sample Preparation " " " "

(C) Compilation of Report
   P.C. Hampton Geologist " " " "
   F. Byers Draughtsman " " " "

(D) Supervision
   P.S. Adamsen Chief of Exploration " " " "
   J. Kirkland Geochemist " " " "
   M.C. Hampton Geologist " " " "
APPENDIX 1 (III)

AFFIDAVIT

SUPPORTING STATEMENT OF COSTS
Geochemical Survey
July 29th - August 5th, 1966

I, Robert S. Adamson, Chief of Exploration for ANVIL MINING CORPORATION LIMITED, have compiled the statement of costs as presented in this report "Geochemical Survey of Laurel 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 true and an accurate representation of expenditures to be applied as representative work on the Laurel 1-28 inclusive, 41-43 inclusive, 45-68 inclusive, 83-115 inclusive and 131-142 inclusive mineral claims.

[Signature]
Robert S. Adamson, P. Eng.
Chief of Exploration for
ANVIL MINING COMP. LTD.

SWORN before me in the City of Whitehorse, Yukon Territory
this .......... day of ....................., 1966.

[Signature]
A Commissioner for taking Affidavits
in and for the Yukon Territory.
White, Hosford & Impy Limited

LEGAL SURVEYS :: ENGINEERING

Whitehorse, Yukon

13 July, 1966

Statement of Account

With: Anvil Mining Corporation
Box 2470
Whitehorse, Y.T.

To: Cut Grid Lines, Multi, Ace, Laurel.

Multi Grid:

Base Line: 6800' = 1.3/m @ $250.00 = $325.00
Picket Line: 5000' x 18 = 90000' = 1700.' = 88,300' = 16.7/m
16.7/m @ $77.50 = $1,294.25

Sub Total = $1,619.25

Ace Grid Extension:

Picket Line: 2500' x 15 = 37,500' = 7.1/m @ $77.50 = $550.35

Laurel Grid:

Base Line: 37,500' = 7.1/m @ $250.00 = $1,775.00
Picket Line: 170,800' = 32.35/m @ $77.50 = $2,507.13

Sub Total = $4,282.13

TOTAL THIS INVOICE = $6,451.73

Approved:

[Signature]

RECEIVED
JUL 1 4 1966
WHITEHORSE