015871

GEOCHEMICAL REPORT

on

LEE CLAIM GROUP

(62°23'N, 133°27'W)

at

ROSE CREEK, YUKON

for

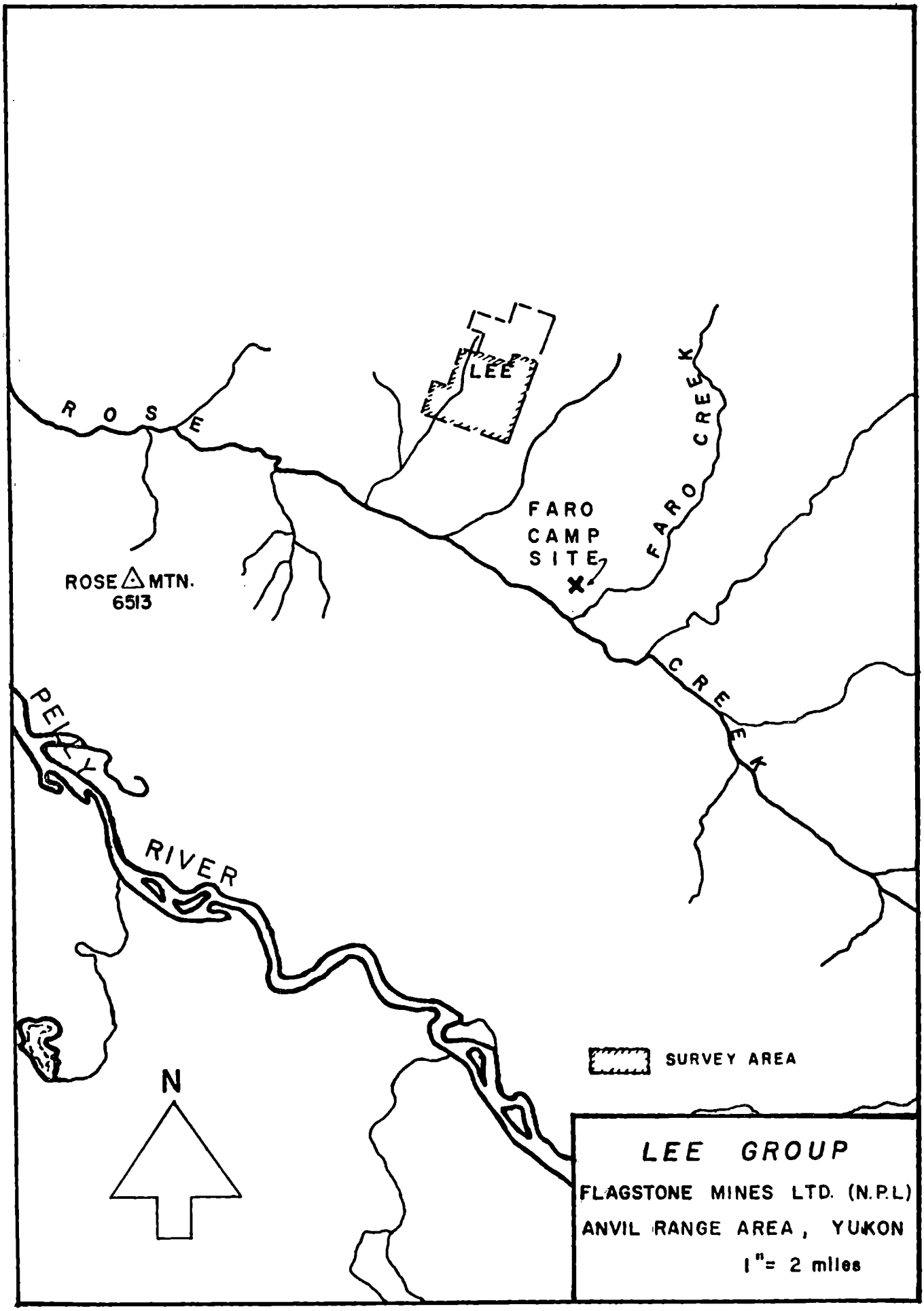
FLAGSTONE MINES LIMITED (N.P.L.)

REPORT BY: M.O. Hampton, B.A. Sc., P. Eng.
Chief of Exploration for
ANVIL MINING CORPORATION LIMITED

GEOCHEMICAL SURVEY

LEE CLAIM GROUP

TABLE OF CONTENTS


LEE
ROSE
FARO CAMP SITE
FARO CREEK
ROSE MTN. 6513
CREEK
PELLY RIVER
N
SURVEY AREA
LEE GROUP
FLAGSTONE MINES LTD. (N.P.L.)
ANVIL RANGE AREA, YUKON
1"= 2 miles

INTRODUCTION

A geochemical survey was carried out on the LEE mineral claim group on July 12 and 13, 1967. These claims, in the Rose Creek part of the Anvil Range area, are owned by FLAGSTONE MINES LIMITED (N.P.L.) and the work was carried out by ANVIL MINING CORPORATION LIMITED under a joint venture agreement.

Access to the property was by helicopter (Bell 47G3B1) based at Anvil's Faro Camp, some four miles to the southeast of the LEE group.

During the 1966 field season, Flagstone carried out magnetometer, electromagnetic and geologic surveys. The grid of cut lines established in 1966 was utilized for the 1967 work.

Soil samples were collected from the portion of the LEE group underlain by schists and phyllites of the stratigraphic unit known to contain orebodies elsewhere in the district.

SURVEY TECHNIQUE

The picket lines cut in 1966 are spaced at 400 foot

foot intervals and samples were collected at 100 foot intervals along these lines. Samples were dug with mattocks and placed in small plastic bags. Two part serially numbered tags were used to identify the samples. One part of the tag bearing only a number is placed in the sample bag which is tied in a manner to prevent the tag and soil from coming into contact. On the portion of the tag remaining in the book was recorded the sample location, sampler's name, date and some information as to soil conditions. Ideally "B" horizon soil is collected but soils in the Anvil Range area are poorly developed and a true "B" horizon is seldom available. Samples from the LEE property were mainly of clay, ash and organic material.

A five man crew and cook with an easily portable but comfortable tent camp was utilized on this survey.

LABORATORY ANALYSIS

Soil samples were analyzed in the geochemical laboratory at Faro Camp. Test methods used involved a hot aqua regia extraction of heavy metal ions from a measured quantity from the sample, followed by reaction with dithizone or biquinoline to give colored products. The colored

reaction products were then matched with 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. Samples with too high an organic content were not analyzed.

RESULTS AND INTERPRETATION

Results were plotted on a 1" = 200' plan of the sampled grid. Normally the results are contoured to point up patterns and areas of concentrations of anomalous values. This is an aid in predicting the location of the source of the metal ions. However, no values were obtained from the LEE soils that could be considered anomalously high.

CONCLUSIONS AND RECOMMENDATIONS

Geochemical analysis of soil samples taken from the LEE group has not isolated any geochemical anomaly and has therefore done nothing to enhance any of the favourable area. However, geochemistry should not be used to negate an area of favourable geology as orebodies capped by rock normally give no chemical expression in the overlying soil.

Therefore, it was recommended to proceed with the gravity survey and an I.P. check in order to outline a possible drill target.

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

APPENDIX I (i)

STATEMENT OF COSTS **Geochemical Survey LEE Group**

(A) Soil Sampling (744 samples)

Wages	15 man days @ $ 16 = $240	
Maintenance	15 man days @ $ 10 = $150	
Transportation, helicopter (July 11, 13, 14) 4 hrs 10 min	@ $110 = $458.33	$ 848.33

(B) Laboratory Analysis

736 @ $1.66 = $1221.76	$ 1221.76

(C) Compilation Report

Draughting, typing, clerical, printing and writing	$ 150.00

(D) Supervision

M.O. Hampton D. Mayes	$ 115.00
	$ 2335.09

APPENDIX I (ii)

PERSONNEL — LEE GEOCHEMISTRY

(A) Soil Sampling

P. Bucholtz	Cook	Box 2470, Whitehorse, Y.T.
D. Fleming	Soil Sampler	Box 2470, Whitehorse, Y.T.
B. Fraser	Soil Sampler	Box 2470, Whitehorse, Y.T.
G. Macdonald	Soil Sampler	Box 2470, Whitehorse, Y.T.
P. Ogison	Soil Sampler	Box 2470, Whitehorse, Y.T.
L. Schmuck	Soil Sampler	Box 2470, Whitehorse, Y.T.

(B)

L. Olsen	Lab Technician	Box 2470, Whitehorse, Y.T.
M. Knapp	Lab Technician	Box 2470, Whitehorse, Y.T.
W. Rundle	Lab Assistant	Box 2470, Whitehorse, Y.T.
G. Paterson	Lab Assistant	Box 2470, Whitehorse, Y.T.

(C) Compilation of Report

M.O. Hampton	Chief of Exploration	Box 2470, Whitehorse, Y.T.
D. Hanson	Draughtsman	Box 2470, Whitehorse, Y.T.
E. Winnig	Secretary	Box 2470, Whitehorse, Y.T.

(D) Supervision

M.O. Hampton	Chief of Exploration	Box 2470, Whitehorse, Y.T.
D. Mayes	Geologist	Box 2470, Whitehorse, Y.T.