UMEX 5557

UNION MINIERE EXPLORATIONS
AND MINING CORPORATION LIMITED

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BURNABY, B.C. V5G 1H4

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94c/3W, 4E

ASSESSMENT REPORT ON
GEOCHEMICAL SOIL SURVEY
END CLAIM GROUP

Mineral Claims	Record Numbers
END 9-20	130797-130808
NA 1-12	132413-132424
AMP 8-11	128097-128100

Omineca Mining Division, British Columbia

N.T.S. 94C/14E, 94C/3W

56°00' Latitude
125°30' Longitude

by

A.A. Burgoyne, P. Eng.

Work Dates: NA 1-12; August 25-29, 1974
END 9-12; August 25-29, 1974
END 13-20; July 8-15, 1975

Date: August 22, 1975

Owner: Union Miniere Explorations and Mining Corporation Limited

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END CLAIM GROUP

INTRODUCTION

The End claim group is located approximately 35 miles northwest of Germansen Landing, B.C. in the Haha Creek Valley. Access to the property is by chartered helicopter from Germansen Landing.

This assessment report covers assessment requirements for the following claims:

Claim Name	Record Number	Record Date
END 9-20	130797-130808	August 7
NA 1-6	132413-132418	August 26
NA 7-12	132419-132424	September 18
AMP 8-11	128097-128100	September 4

The claims are bounded on the west by the Rem claims.

Soil sampling and line location was done on August 25 to 29, 1974 on the NA and End claims south of Haha Creek and on July 8 to 15, 1975 on the End claims north of Haha Creek.

In 1974 fieldwork was completed by J. Haskins and D. Wade, geological assistants, and by A. Pauwels, B.Sc., geologist. In 1975 fieldwork was done by C. Winter and R. Elliott, geological assistants, and A. Pauwels, geologist. Overall supervision was by Mr. A. Burgoyne, P.Eng.

GRID CONTROL

Compass and chain were used to locate the lines. North of Haha Creek the lines follow a N52^{o}E direction (A Grid); south of Haha Creek they were placed in a N60^{o}E direction (B Grid). All lines were flagged and marked at 200 foot intervals. The lines north of Haha Creek are 400 feet apart whereas south of Haha Creek they are 800 feet apart. Approximately ten miles of line was completed.

GEOLOGY

The claims are located within the Hogem Batholith of the Omineca Intrusives of late Jurassic to early Cretaceous age. According to Garnett[1], the claims

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[1]Garnett, T.A., Preliminary Geological Map of Part of the Hogem Batholith, Duckling Creek Area; B.C. Department of Mines Map No. 9.

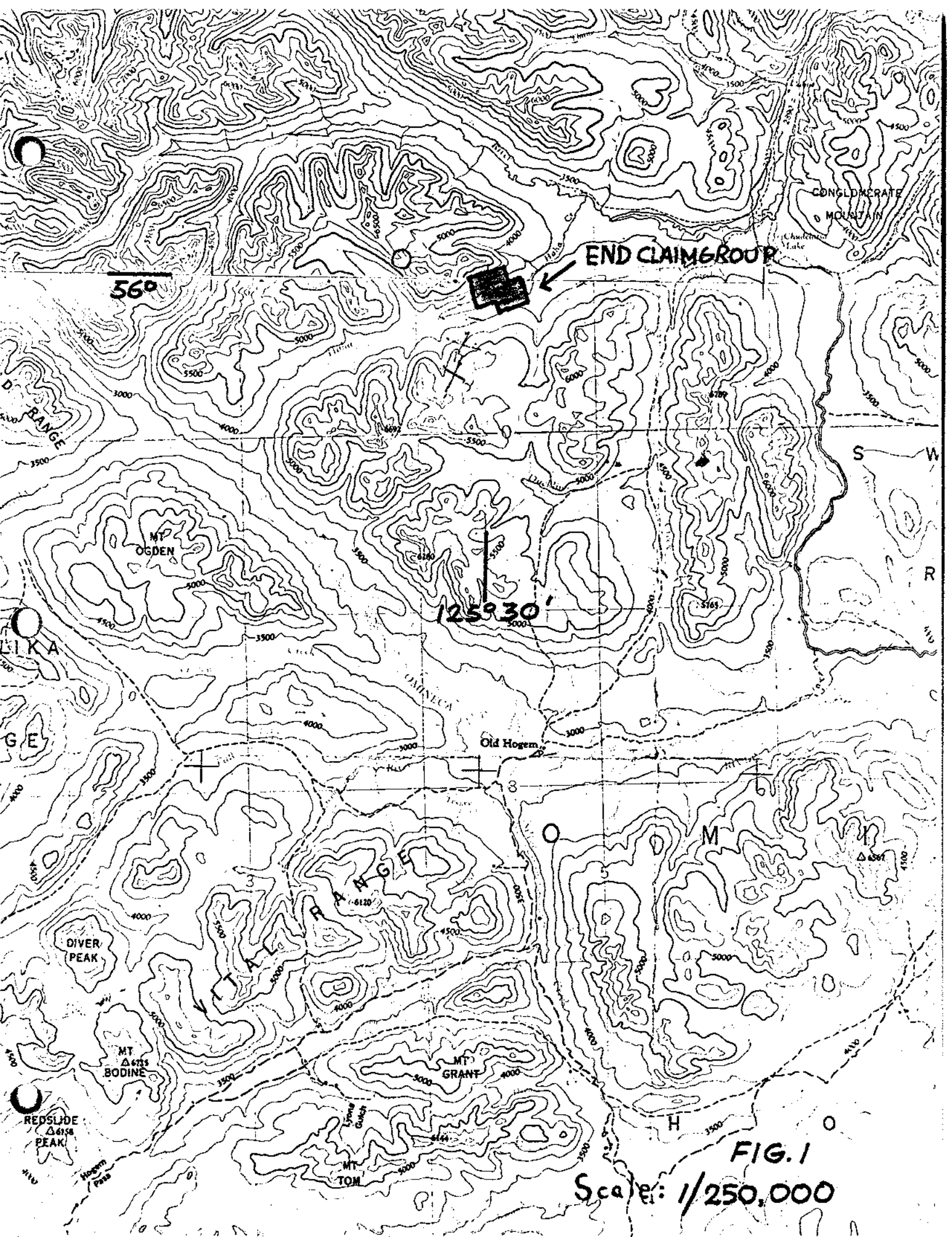

FIG. 1

Scale: 1/250,000

are underlain by a fine-to-medium grained, mesocratic monzodiorite-monzonite.

GEOCHEMICAL SOIL SURVEY

Method

A total of 279 soil samples were collected on the End and NA claims. All soil samples north of Haha Creek (End 13-20 claims) were analysed for copper, whereas those soil samples located south of Haha Creek on the End 9-12, and NA claims were analysed for copper and silver. At each sample location a pit was dug with a shovel to a depth of 16 inches or less, depending on the soil development, and a sample was taken from the B soil horizon. The soil was then placed in a Kraft paper soil sample bag and marked. The soil development for the surveyed areas is:

- A_0 Organic litter, 0 to 1 inch thick, but thicker in swampy areas and valley bottoms.
- A_1 Decomposed organic debris, and humus rich black in color, 0 to 2 inches thick but considerably thicker in swampy areas and valley bottoms.
- A_2 Light-coloured horizon of maximum eluviation. Thickness varies from 0 to 3 inches; spotty distribution.
- B Brown to orange in colour, loose structure, accumulation of clay minerals, iron minerals, and organic matter, 0 to 14 inches thick.
- C Weathered bedrock or glacial overburden.

Analytical Treatment

The soil samples were analysed by Chemex Labs Ltd. in North Vancouver, B.C. The samples were dried in their respective bags at a temperature of 120°F and sieved through a -80 mesh nylon screen. One-half gram portions of the -80 mesh fraction of the soils were placed in culture tubes and digested in 4 ml of a perchloric-nitric acid solution for three hours. The digested samples were bulked to a specific volume with deionized water and then asperated into an atomic absorption spectrophotometer. Calibration of the spectrophotometer is done by preparation of silver and copper standard solutions daily.

Results

Cumulative frequency versus metal content statistical treatment was not done on the copper data because of its limited usefulness for these particular

results. Those soil samples collected in and south of Haha Creek Valley are probably underlain by thick overburden cover of glacial origin. Those samples north of Haha Creek are underlain by only a thin overburden cover and the copper data is probably indicative of the bedrock content. Previously cumulative frequency statistical treatment was done on soil samples collected south of the Amp 8 and 10 claims[2]. Here three distinct copper populations were defined. Values below 75 ppm were caused by syenite, values from 85 to 230 ppm were represented by biotite and pyroxene-rich diorites and monzodiorite and related hybrid rocks and/or weak copper mineralization. Copper values in excess of 230 ppm were associated with copper mineralization.

The 75 ppm copper contour has been plotted on Figure 2 to illustrate "possible" anomalous areas. On the End 13 and 14 claims a northwest trending possible anomalous zone 2000 feet in length and 200 to 1000 feet wide is present. Other single sample possible anomalies are irregularly distributed over the claims.

Most silver values are below 0.5 ppm. Those values greater than 0.5 ppm are considered anomalous and these values are associated with anomalous copper values.

CONCLUSIONS AND RECOMMENDATIONS

A northwesterly trending possible anomalous copper zone some 2000 feet long and 200 to 1000 feet wide has been defined on the End 13 and 14 claims. This possible anomalous response may be caused by weakly disseminated copper mineralization.

No further work is recommended for the claims.

Respectfully submitted,

Alfred A. Burgoyne

Alfred A. Burgoyne, P.Eng.

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[2] Assessment Report on Ground Magnetic, Geochemical Soil Sampling, and Geological Mapping: Mineral Claims Rem 1-58, 63-72, 74, 76, 78-88, Amp 1-7; by A.A. Burgoyne, P.Eng., and A.M. Pauwels, B.Sc., for Union Miniere Explorations and Mining Corporation Limited, November 27, 1973.

APPENDIX I

Statement of Costs for End Claim Group
End 9-20, NA 1-12, Amp 8-11 Claims

1974 Expenditures

1) Personnel	
J. Haskins, August 25-29 @ $28.00/day	$ 140.00
D. Wade, August 25-29 @ $22.55/day	$ 112.75
A. Pauwels, September 11 @ $67.50/day(office)	$ 67.50
2) Accommodations	
10 days @ $12/day	$ 120.00
3) Analytical Costs	
130 samples @ $1.70/sample	$ 221.00

1975 Expenditures

1) Personnel	
A. Pauwels, July 8 and 16 @ $75.50/day	$ 151.00
R. Elliott, July 8 and 10 @ $28.00/day	$ 56.00
C. Winter, July 8 to 15 @ $27.00/day	$ 216.00
A. Burgoyne, August 22(office)	$ 100.00
2) Accommodations	
11 days @ $14/day	$ 154.00
3) Analytical Costs	
149 samples at $1.30/sample	$ 193.70
4) Helicopter Support	
1 hour @ $336/hour	$ 336.00
TOTAL	$1867.95

A-GRID

32E 36E 40E 44E 48E 52E 56E 60E 64E 68E 72E 76E 80E 84E 88E 92E

0 45 85 125 165 205 245 285 325

N52°E

REM 52

REM 50

REM 48

REM 26

REM 25

BASELINE

END 13

END 15

END 17

END 19

END 14

END 16

END 18

END 20

HAHA CREEK

AMP 9

AMP 11

AMP 8

AMP 10

AMP 1

AMP 3

END 9

END 11

END 10

END 12

END 5

END 7

END 8

B-GRID

8N 8S 16S

N60°E

NA 8

NA 9

NA 11

NA 7

NA 10

NA 12

NA

NA 3

NA 5

NA 2

NA 4

NA 6

LAKE

CREEK

40W 36W 32W 28W 24W 20W 16W 12W 8W 4W 0 4E 8E 12E 16E 20E 24E 28E (B GRID)

Claimlines and claimpost (not surveyed) Claimboundaries

AMP 10 Claim name

#1 AMP 10 No. 1 POST OF CLAIM AMP 10

Surveyline and soil sample site — ppm Copper / ppm Silver

Water logged terrain

Note: Soil samples analyzed for Cu and Silver on 'B' GRID
Soil samples analyzed for Cu only on 'A' GRID

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MAP 2

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. 5557 MAP 2

FIGURE 2

END CLAIMGROUP

COPPER AND SILVER IN "B" SOIL HORIZON

CLAIMS : NA 1-12
END 9-20
AMP 8-11

NTS:

Scale: 1" = 400' 0 200' 400' 1/4800

UMEX CORPORATION LTD.

DRAWN BY: AP
DATE: 15 JULY 1975
SURVEYED BY: BE, JH, AP, CW, DW

DWG. No.

Alfred A Burgoyne

To accompany Assessment Report on Geochemical Soil Survey on End 9-20, NA 1-12, Amp 8-11 Mineral Claims, dated August 22, 1975 by Alfred A. Burgoyne, P.Eng.