

# GM 16176

A REPORT ON THE GRAVITY SURVEY, S W DE FRENEUSE

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Québec 

A REPORT ON THE

GRAVITY SURVEY

S. W. DE FRENEUSE

CLAIM GROUP, NEW QUEBEC

Montreal, P.Q.

January 1965

Ministère des Richesses Naturelles, Québec

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LIST OF CONTENTS

Page No.

INTRODUCTION . . . . . 1

LOCATION AND ACCESS . . . . . 1

TOPOGRAPHY AND GENERAL GEOLOGY . . . . . 1

SURVEY METHOD. . . . . 2

RESULTS. . . . . 2

APPENDICES

## INTRODUCTION

During the 1962 field season, the S.W. De Freneuse claim group was mapped on a scale of 1000 feet to 1 inch by R. A. Crouse. A combined E.M. and magnetic survey was carried out concurrently over a grid layout of 17,500 line feet.

Geological investigations of an anomalous zone indicated by this survey failed to provide a satisfactory explanation for it and it was decided that a gravity survey would be useful in this regard.

Included in the Gravity survey were the following claims:-

Licence G 10350 - 1 to 4 (inclusive)  
" G 10418 - 3 and 4

## LOCATION AND ACCESS

The claim group consists of 10 claims located three miles south of Phillips Lake in the Lac De Freneuse area, Township 6046 New Quebec. These lie about 40 air miles west of Fort Chimo, New Quebec, and are only accessible by float or ski-equipped bush plane at this time.

## TOPOGRAPHY AND GENERAL GEOLOGY

Northwest striking ridge and valley relief is predominant and is characteristic for this part of the Labrador Trough.

Vegetation is sparse and restricted to stunted growths of black spruce, dwarf birch and caribou moss. The area is completely undeveloped.

In the immediate map area a strong northwest striking regional fault zone is bordered on the east by a Gabbro-sediment complex, and on the west by younger volcanics. It is this fault zone that is the site of immediate interest.

Structurally the claim group is located on the western limb of a large overturned anticline.

SURVEY METHOD

The gravity survey was contracted out to Prospecting Geophysics Limited of Montreal by Hollinger North Shore Exploration Company Limited.

From July 8th to July 14th, 1964, the following personnel carried out this work.

Gravimeter operator and party chief	- R. Maw
Level Operator	- J. McDonough
Rodman and assistant	- A. Lecouter

The gravity readings were taken at 50 foot stations on 4 grid lines for a total coverage of 4300 line feet. This survey is slowed somewhat by the necessary levelling control and so was run only over part of the previously indicated anomalous zone.

A World-Wide No. 7 gravity meter was used in the operation.

RESULTS

Briefly the results may be outlined as follows:-

- L 15N A definite gravity peak of 0.2 milligals occurs just east of the magnetic conductive zone.
- L 10N A single 0.2 milligal response is present over a compound magnetic conductive zone.
- L 10S A response of 0.2 milligals is again present over the conductor.
- L 15S Two sharp 0.2 milligal peaks are present over both margins of a compound magnetic conductive zone.

Respectfully submitted,



R. E. Russell

LIST OF APPENDICES

APPENDIX I	-	LIST OF MAPS
APPENDIX II	-	RECOMMENDATIONS AND CONCLUSIONS
APPENDIX III	-	MAG., E.M. GRAVITY AND TOPOGRAPHY PROFILES

APPENDIX I

LIST OF MAPS

LOCATION PLAN	-	1 inch = 1/2 Mile
LOCATION PLAN	-	1 inch = 1000 feet

## APPENDIX II

### RECOMMENDATIONS AND CONCLUSIONS

A small but definite gravity response is associated with magnetic conductive zone outlined by the previous work. No satisfactory geological explanation is available for it. The zone occurs within a strong regional fault and directly north of the claim group an 'on strike' gossan area is present. This later showing should possibly be investigated to determine the nature of the sulphide mineralization there before further work is considered within the claim group.



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No GM- 16176

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A map showing a grid of mineral claim blocks. The grid is divided into two columns and five rows. The left column contains blocks labeled 'G 10350' with numbers 1 through 5. The right column contains blocks labeled 'G 10418' with numbers 1 through 5. A horizontal line is drawn across the grid between the second and third rows. To the right of the grid, the number '58°5'' is written.

G 10350 1	G 10418 1
G 10350 2	G 10418 2
G 10350 3	G 10418 3
G 10350 4	G 10418 4
G 10350 5	G 10418 5

DATE <i>Dec 26/66</i>	HOLLINGER NORTH SHORE EXPL. CO. LTD.	SCALE <i>1" = 1/2 mi</i>
DRAWN BY <i>Am.</i>	<i>Southwest De Frenouse Co. TWP 6046.</i>	DWG. No.