

N.T.S. #31-E-11

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REPORT ON
GEOLOGICAL MAPPING OF
BUTT 1-73
BUTT TOWNSHIP
EASTERN ONTARIO MINING DIVISION
BURKS FALLS AREA, ONTARIO

AUGUST 21, 1974
TIMMINS, ONTARIO

E.A. GALLO
NORANDA EXPLORATION CO., LTD.

RECOMMENDATIONS

Two additional claims should be staked, tied onto the south of claims EO-380389 and EO-380390, for protection of the main graphite-bearing horizon.

An IP geophysical survey should be performed over the graphitic zone to outline possible areas of concentrated mineralization. If such areas are located, trenching and/or diamond drilling should be undertaken to further evaluate them.

INTRODUCTION

Increased prices for natural graphite, combined with predicted shortages in the near future for the material, has resulted in renewed interest in prospecting for the material. Noranda was aware of a potentially economic deposit in Butt Township, so they acquired it and are now in the initial phase of exploring and evaluating it.

LOCATION

The property consists of 10 unpatented contiguous mining claims numbered EO-380387-92, inclusive and EO-380176-79, inclusive. Claims EO-380179 and EO-380392 cover parts of the N $\frac{1}{2}$ of Lots 5 and 6, respectively in Concession X, Butt Township. The remaining claims lie north of Concession X, in the unsubdivided portion of Butt Township.

ACCESS

The property is easily reached by car along a good gravel tote road which leads off of the firetower road from Highway #518 at the north end of Sand Lake.

TOPOGRAPHY

The property is rugged, with rolling hills and ridges 100'-200' above the valleys. Some of the ridges have cliff faces which are difficult or impossible to traverse.

VEGETATION

The low ground is covered by mixed bush consisting of sugar maple, yellow birch, spruce, white pine and alders. The tops of cliffs are generally covered by white pine. The high ground is covered by sugar maple, with the occasional yellow birch.

LINECUTTING

A Base Line was laid out at Azimuth 34° from the southwest corner of the property, i.e., the #3 post of claim #EO-380179. Traverse lines were cut at right angles to the Base Line, at 400' intervals. The Base Line and traverse lines were all chained and picketed at 100' intervals. In all, about 7.4 miles of lines were cut. When the geological mapping was undertaken, it soon became apparent that the linecutters had done an extremely poor job. Consequently, the grid lines were all checked by pace and compass and corrected accordingly.

GEOLOGY

TABLE OF FORMATIONS

PRECAMBRIAN

(Grenville)

Paragneiss

Quartzite

Only two rock types were differentiated on the property---paragneiss and quartzite. The paragneiss is granitic in composition, containing quartz, biotite and feldspar, in varying amounts. Locally, muscovite or phlogopite might be present in place of biotite, or selective bands might be garnetiferous. Also locally, but always near the quartzites, the paragneiss might contain up to 3% disseminated flake graphite.

The paragneiss was found in a variety of colours, always in lighter shades. Generally it was light grey or pink, but was also found light brown, orange, yellow, rusty-coloured, or greyish-white. It was found

to weather deep---2-4" below the surface. It was generally banded, the bands being concentrations of the component minerals. Grain size varied from medium to coarse. Small stringers and veinlets of pegmatitic material locally dissected the paragneiss.

The quartzite was found to be coarse grained and locally appeared to be limey. It always contained disseminated flake graphite in varying amounts up to 5%. It was always whitish grey coloured, except where the graphite content was high, then it would be rusty brown, probably due to the oxidation of pyrite which was always present in minor amounts wherever the graphite content was high.

A general northeast-southwest trend is apparent throughout the property and is best displayed by the paragneiss. In the centre of the property, where the graphite-bearing quartzites are located, the trends become somewhat contorted and the dip of the beds vary from 0° to 45°. Some narrow beds of paragneiss carrying minor graphite occur interbedded with the quartzites. Similarly, some narrow beds of graphitic quartzite occur interbedded with the paragneiss, but always near the main quartzite horizon.

CONCLUSIONS

Concentrations of up to 5% graphite were found in the quartzites. Some of the quartzites have an indicated width of 400' and length of 800'. The general zone of graphitic occurrences extends for a length of 6400'.

Additional work is warranted on the property to further evaluate its potential.



E.A. GALLO
NORANDA EXPLORATION CO., LTD.



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RECEIVED

TO BE ATTACHED AS AN APPENDIX TO TECHNICAL REPORT
FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT
TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.

OCT 21 1974

PROJECTS UNIT

Type of Survey Geological
 Township or Area Butt Township
 Claim holder(s) Noranda Exploration Co., Ltd.
Box 45, Commerce Court West, Toronto, Ont.
 Author of Report E.A. Gallo
 Address Box 1205, Timmins, Ontario
 Covering Dates of Survey July 1 - August 21, 1974
 (linecutting to office)
 Total Miles of Line cut 7.4

MINING CLAIMS TRAVERSED
List numerically

EO	380176
(prefix)	(number)
EO	380177
EO	380178
EO	380179
EO	380387
EO	380388
EO	380389
EO	380390
EO	380391
EO	380392

If space insufficient, attach list

<u>SPECIAL PROVISIONS</u> <u>CREDITS REQUESTED</u>	DAYS per claim
ENTER 40 days (includes line cutting) for first survey.	Geophysical
	-Electromagnetic
	-Magnetometer
	-Radiometric
	-Other
ENTER 20 days for each additional survey using same grid.	Geological <u>40</u>
	Geochemical

AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)

Magnetometer _____ Electromagnetic _____ Radiometric _____
 (enter days per claim)

DATE: Oct. 17/74 SIGNATURE: E.A. Gallo
 Author of Report

PROJECTS SECTION

Res. Geol. _____ Qualifications 63.2224

Previous Surveys L.D.

Checked by _____ date _____

GEOLOGICAL BRANCH _____

Approved by _____ date _____

GEOLOGICAL BRANCH _____

Approved by _____ date _____

TOTAL CLAIMS 10

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