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REPORT ON

GEOPHYSICAL SURVEYS

on

GRAPHITE PROPERTY

MONTEAGLE TWP.ONTARIO.

John Rawlinson Lill. B.Sc. P. Eng.

#### SUMMARY

Magnetometer and VLF-EM surveys were carried out on a graphite property in Monteagle township Ontario, during December 1981.

There is some conductivity and anomalous magnetic readings in the vicinity of the old workings.

#### PROPERTY

The property consists of three claims located in Monteagle township Ontario, and lies 11 miles north of the village of Bancroft in Eastern Ontario.

The following are the claim numbers and locations:

EO	572261	N <sup>1</sup> ₂	Lot	23	Con.	XIII
EO	572262	Słź	Lot	23	Con.	XIII
EO	572263	Ε'5	Lot	24	Con.	XIII

Title to the mining rights is held by J. W. Gemmell,
Box 379, Commerce Court, Postal Station, Toronto.

#### LOCATION & ACCESS

Access is most easily gained by taking the "Graphite Lake" road which runs east from Highway 62N about 2.5 miles south of the hamlet of Maynooth.

#### LOCATION & ACCESS (Continued)

About 2.5 miles from here, a private road runs north for about 1 mile to the residence of John Freymond who owns the surface rights to the property.

#### MINERALIZATION

Numerous large pits and trenches are located in the central part of lot 23.

The mineralization consists of flake graphite in limestone and some production was carried out in the early part of the century.

The limestone is enclosed in paragneiss and appears to lie along the axis of a synclinal fault trending northwest-southeast (O.D.M. Map 1954-3).

#### SURVEY METHOD

A baseline running 309° true azimuth was cut from the southeast corner of the property to the northwest corner.

Lines normal to the baseline were cut at 400 'intervals, east and west to the property boundaries.

#### SURVEY METHOD (Continued)

A magnetic survey employing the McPhar M500A magnetometer and electromagnetic survey using the Ronka EM-16 was carried out, with readings taken at 100' intervals over the section lines.

Approximately 20% of the property consists of fields, and at the conclusion of the survey, as requested by John Freymond, all pickets and flagging were removed from these areas.

#### RESULTS

The old workings lie in an area of slightly higher magnetic intensity which stretches from 24+00N to 32+00N in the vicinity of the baseline. There is also an area of higher magnetic readings from 4+00N to 16+00N, along strike with the above zone, though this lies mostly in a lower swampy area.

EM conductors were located on lines 28+00N and 32+00N near the old workings.

#### RESULTS (Continued)

A strong conductor was located on line 16+00N near two old pits, but due to the presence of the hydro line, it could not be determined if this continued south.

No explanation was determined for the conductive zone running from 20+00N to 28+00N lying between 200&300 feet east of the baseline.

#### CONCLUSIONS & RECOMMENDATIONS

When weather permits, intermediate lines at 200' intervals should be cut between 16+00N and 32+00N.

Geological mapping, sampling of the pits (where possible) and detailed geophysical surveys should be carried out in the area of the old workings and the anomalous zone east of the baseline.

The areas about some of the magnetic anomalous readings should be examined to determine if any old iron is located nearby. This could not be done during the survey as there was 4 to 5 inches of snow on the ground.

The area near the south magnetic anomally should be geologically mapped to see if this lies in limestone.

#### CONCLUSIONS & RECOMMENDATIONS (Continued)

If this is the case, it could be the continuation of the north zone. However, ODM Map 1954-3 shows an east-west fault cutting off the limestone to the north of this magnetic high.

Respectfully submitted,

John Rawlinson Lill, B.Sc.P. Eng.



Ministry Natural

Report of Work

(Geophysical, Geological,
Geochemical and Expenditures)

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1362 (81/9)

Ministry of Natural Resources

Report of Work

(Geophysical, Geological, Geochemical and Expenditures)

Instructions: — Please type or print.

— If number of mining claims traversed exceeds space on this form, attach a list.

Note: — Only days credits calculated in the "Expenditures" section may be entered in the "Expend, Days Cr." columns.

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# Ontario

OFFICE USE ONLY

#### Ministry of Natural Resources

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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.

Type of Survey(s) <u>GEOPHYSICAL</u>	
Township or Area MONTEACLE	MINING CLAIMS TRAVERSED
Claim Holder(s) SAMES W, GEMBELL	List numerically
Claim Holder(s) SAMES W, GEMMELL PO BOX 379 COMMERCE COURT POSTAL STATION TORDUTO	
Survey Company John R. 2, 1/	
Author of Report JOHN R. 4 11	(prefix) (number)
Address of Author 40 FIRTH CRES SCARBORO ON	
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Previous Surveys	
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#### GEOPHYSICAL TECHNICAL DATA

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INDUCED POLARIZATION

2.4464

January 27, 1982

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R.M. Charnesky
Mining Recorder
Ministry of Natural Resources
Whitney Block, Room 1522
99 Wellesley Street West
Queen's Park
Toronto, Ontario
M7A 1W3

Dear Madam:

We have received reports and maps for a Geophysical (Electromagnetic and Magnetometer) Survey submitted under Special Provisions (credit for Performance and Coverage) on Mining Claims E0.572261 et al, in the Township of Monteagle.

This material will be examined and assessed and a statement of assessment work credits will be Issued.

Yours very truly,

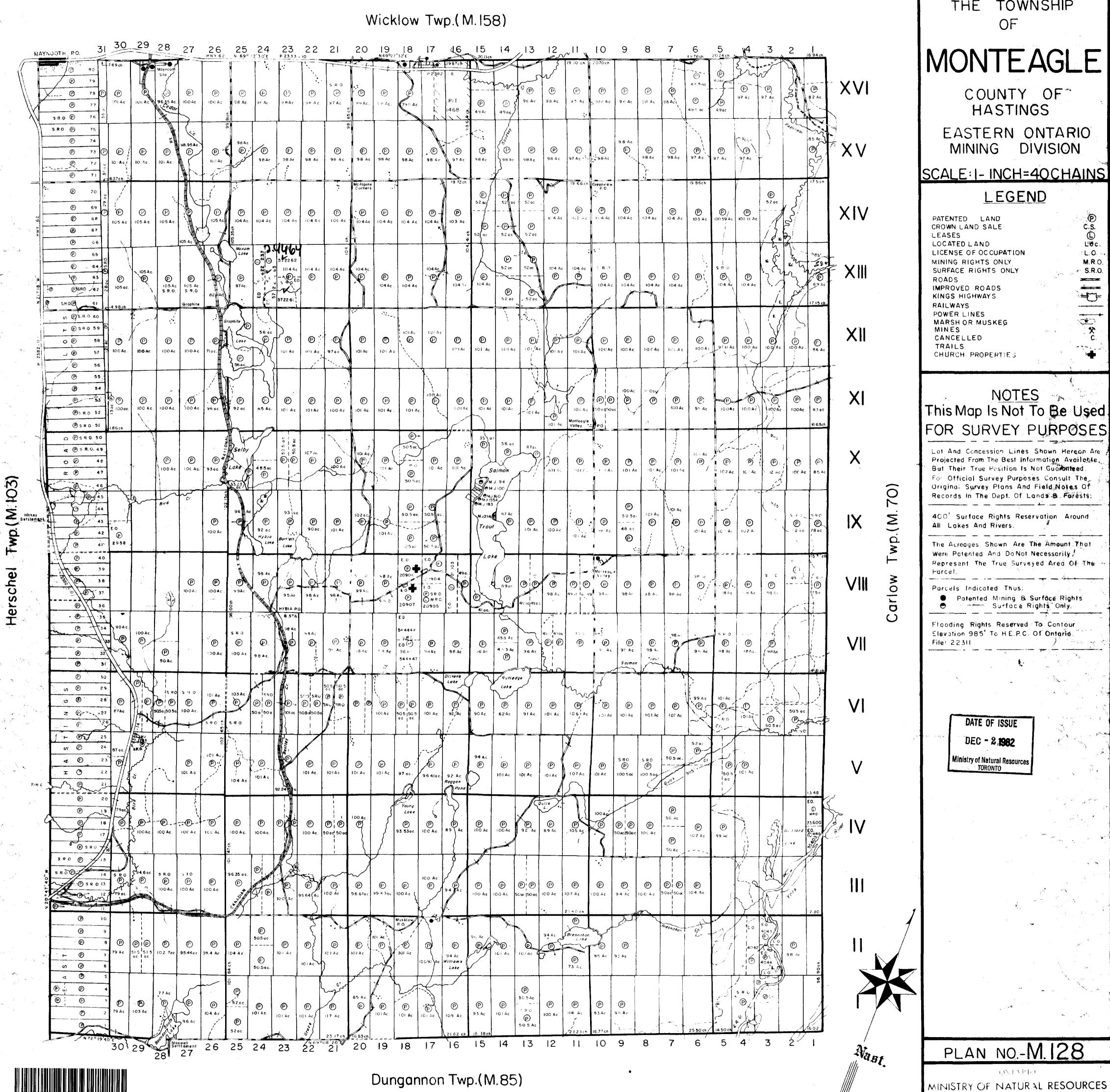
E.F. Anderson
Director
Land Management Branch

Whitney Block, Room 6450 Queen's Park Toronto, Ontario M7A 1W3 Phone: 416/96591380

de Skura/bk

cc: John R. Lill Scarboro, Ontario

cc: James W. Gemmell Toronto, Ontario



THE TOWNSHIP OF

# MONTEAGLE

COUNTY OF HASTINGS

EASTERN ONTARIO MINING DIVISION

## SCALE: I- INCH=40CHAINS

## LEGEND

(P) C.S.

Loc.

M.R.O

\* S.R.O.

LICENSE OF OCCUPATION MINING RIGHTS ONLY SURFACE RIGHTS ONLY MARSH OR MUSKEG

# NOTES -This Map Is Not To Be Used FOR SURVEY PURPOSES

Lot And Concession Lines Shown Hereon Are Projected From The Best Information Available, But Their True Position is Not Guaranteed. For Official Survey Purposes Consult The Original Survey Plans And Field Notes Of Records in The Dept. Of Lands & Forests:

400' Surface Rights Reservation Around All Lakes And Rivers.

The Acreages Shown Are The Amount That Were Patented And DoNot Necessarily! Represent The True Surveyed Ared Of The

Potented Mining & Surface Rights - - Surface Rights Only.

Flooding Rights Reserved To Contour Elevation 985' To HE.P.C. Of Ontario.

> DATE OF ISSUE DEC - 2.1982

PLAN NO.-M.128

ONTARIO

SURVEYS AND MATTING BRANCH

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