

REPORT

AIRBORNE GEOPHYSICAL SURVEY

ON THE PROPERTY OF

EMERALD ISLE RESOURCES INC.

SWAYZE TOWNSHIP, ONTARIO

BY

H. FERDERBER GEOPHYSICS LTD.

### RECEIVED

SEP 21 1987

August 1987 Val d'Or, Quebec MINING LANDS SECTION G.N Henriksen, B.Sc. Beologist

# REPORT ON THE AIRBORNE GEOPHYSICAL SURVEY ON THE PROPERTY OF EMERALD ISLE RESOURCES INC. SWAYZE TOWNSHIP, ONTARIO

#### INTRODUCTION

On July 26, 1987 an airborne geophysical survey was carried out on the property of Emerald Isle Resources Inc. in Swayze Township, Ontario. Magnetic and VLF-electromagnetic data was collected by the airborne division of H. Ferderber Geophysics Ltd. The survey was flown from a base at Chapleau, Ontario. A total 51.6 miles of data was collected.

The magnetic survey provides information which helps define underlying geological structures and identifies any potential economic concentrations from variations in accessory magnetic minerals. The VLF-electromagnetic survey outlines conductive zones which may represent shear zones and/or metallic sulphide deposits containing gold mineralization.

#### PROPERTY DESCRIPTION, LOCATION AND ACCESS

The Emerald Isle Resources Inc. property is comprised of 22 claims in Swayze Township, Porcupine Mining Division, Ontario. The claim cover approximately 352 hectares as two claim blocks. The north block consists of 16 claims in the northeast corner of the township and the south block consists of 6 claims in the central east part of the township. The claims are registered with the Ontario Mining Recorder's Office at Timmins and are listed in Appendix I.

The claim blocks are located approximately 58.3 km (35 miles) east of the town of Chapleau, 48.3 km (29 miles) south of the village of Palomar, 50 km (30 miles) south-southwest of the town of Foleyet and 28.3 km (17 miles) north-northwest of the village of Sultan.

Access to the south claim block can be obtained by taking a road north from the village of Sultan northward about 28 km where the western boundary of the claim block is reached. The road continues northward, traversing the northeast corner of the claim block and ends about 0.4 km (0.25 mile) south of the southern boundary of the north claim block.

Access can also be obtained by float/ski plane from Chapleau to Brett Lake on the northern claim block.

#### **GEOLOGY**

The Ontario Department of Mines Geological Compilation Map 2116 Chapleau-Foleyet Sheet is used to infer the geology. Over 98% of the north block is indicated to be underlain by acid volcanic rocks and 2% by intermediate and basic volcanics. One third of south block is thought to be underlain by acid volcanic, which lie on the western part of the claim block and 67% by basic and intermediate volcanic rock on the east part of the claim block.

A north-northwest trending sinstral fault traverses the claim block from the middle of the southern boundary to its northwest corner. It separates the acid volcanics rocks from the basic and intermediate volcanic rocks, and shows a displacement of about 0.5 miles. Two gold occurrences lie along strike of the fault approximately 5 miles and 6 miles north of the property. The fault lies immediately west of the southwest corner of the northern claim block.

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The Denyes gold occurrence lies about 5 miles west of the south claim block and appears to be along strike of the geology. The area of the gold occurrence is underlain by an east striking fold belt of Early Precambrian mafic to felsic metavolcanics, with minor interbedded metasediments (including iron formation). In the vicinity of the occurrence, massive to schistose rhyolitic metavolcanics contain small isolated bodies of clastic metasediments. The occurrence consists of small quartz veins carrying gold values.

Three gold occurrences lie north of and within 0.75 miles of the northeast corner of the northern claim block. These showings lie in intermediate to basic volcanic rocks. The southern showing, the McNeely-McCullogh gold prospect is situated about 2.0 miles east along geologic strike of the basic and intermediate volcanics thought to underly the northwest part of the claim block. The prospect area is underlain by an east-striking fold belt consisting of Early Precambrian mafic to felsic metavolcancis and small amounts of interbedded

metasediments. The showings consist mainly of narrow quartz-carbonate veins and stringers. These occupy fracture zones along the north edge of a feldspar prophyry body which is considered to be a phase of the felsic volcanic suite. Some of these showings reportedly gave moderately low gold values over narrow widths.

#### INSTRUMENTATION AND SURVEY METHODS

The survey was completed using a Cessna 172, fixed wing aircraft (CF-AAV) owned and operated by H. Ferderber Geophysics Ltd. It was piloted by P. Jevremovic of Val d'Or. The navigator/operator was M. Caron, also from Val d'Or. Geophysical sensors were mounted in modified wing tips. GEM-GSM-9 BA Overhauser Proton Precession Magnetometer and Herz Totem 2AG VLF-electromagnetic systems were used. The magnetometer has a resolution of 0.5 gammas, recorded on analogue tape. The VLF-EM measures the change in total field and vertical quadrature field on two channels simultaneously, with an accuracy of 1%. The data is then transferred to a printer. The transmitting station at Cutler, Maine, NAA, frequency 24.0 kiloherz was used.

The survey was conducted at an aircraft altitude of 250 feet above ground level. The altitude was measured with a Bonzer Mark 10 radar altimeter. A survey speed of approximately 100 miles per hour was used. Navigation was visual with reference to air photo mosaics at a scale of one inch to 1,320 feet. Lines flown in north-south directions at spacings of 440 feet were recovered from the photo mosaics. Manual fiducials were recorded simultaneously on the geophysical tapes and solid state memory.

#### DATA PRESENTATION

Flight lines, fiducial points and geophysical responses were reproduced from the air photo mosaics on maps at a scale of 1:15,840 (one inch to 1,320 feet). The outline of the claim group and claim map are shown on each sheet.

The aeromagnetic data was corrected for diurnal variations by using base lines as reference. The data was then reduced to a base level of 58,500 gammas, contoured at 25, and 100 gamma intervals and presented on map MG-1.

The VLF-EM data was transferred from the Totem 2AG memory to printed form. Base values were determined and the change in the total field strength as a percentage of the base values was calculated. These values were plotted on map EM-1. The positive values were contoured at intervals of 2%. The conductor axes were determined and numbered 1, 2, 3, etc. No priority was attached to the numbering system.

#### SURVEY RESULTS AND INTERPRETATION

#### Magnetic Survey Map MG-1

#### North Block

A steep northward climbing magnetic gradient lies in the northeast and northwest corners of the claim block. These areas have a strike and position which coincide roughly with the contact between basic and intermediate volcanic rock to the north and acid volcanic rock to the south. The magnetic low anomalous area that covers the remainder of the claim block, trends east-west and probably represent underlying acid volcanic rocks.

#### South Block

The magnetic relief on the south blocks is relatively low, approximately 100 gammas. This block is probably underlain by relatively homogeneous rock with low magnetic susceptibility, intermediate to felsic metavolcanics. A north-northeast trending linear zone defined by a saddle in the northwest trending magnetic high and a point magnetic low anomaly, may represent a structural break.

#### VLF-Electromagnetic Survey Map EM-1

#### North Block

Conductive zone 1 is a long, continuous, east-west trending conductor in the northwest part of the claim block. It coincides with the southern shoulder of a magnetic high anomalous zone and a lake. It probably represents a conductor associated with a geologic contact.

Conductive zone 2 is a long, continuous, eastwest trending condcutor in the southwest part of the claim block. It lies along strike in a magnetic low anomalous zone, has a strong electromagnetic response and along a linear arm of a lake. It may represent a structural break.

Conductive zone 3 is a discontinuous short northwest trending conductor located in the north central part of the property. It is situated over a lake and appears to crosscut magnetic contours at an oblique angle in a magnetic low anomalous zone. It may be the result of an electromagnetic gathering effect associated with the lake.

Conductor 4 is a long, continuous east-west trending conductor in the northeast part of the claim block. It's position coincides with the southern shoulder of a magnetic high anomalous zone and may represent a geologic contact similar to conductive zone 1.

#### South Block

Conductive zone 5 is a short, discontinuous, northeast trending conductor. It lies near a saddle in a small weak northwest trending magnetic high anomalous zone and a presumed fault. It may represent a structural break, possibly a shear.

#### CONCLUSIONS

The airborne VLF-electromagnetic and magnetic surveys were successful in outlining possible shear zones and helping define the underlying geology of the Emerald Isle Resources Inc. Property in Swayze Township, Ontario.

Rocks of high magnetic susceptability underlie the northeastern and northwestern corners of the north block and are thought to be east-west striking basic and intermediate volcanic rocks.

Rocks of low magnetic susceptability underly the remainder of the north block, trend east-west and are considered to be acid volcanic rocks.

The results of the magnetic survey indicate that the south block is probably underlain by intermediate to felsic volcanic rocks exhibiting local variations in magnetic content.

The McNeely-McCullogh gold prospect lies 20 miles east of the northwest corner of the claim block along strike of geology in intermediate and basic volcanic rocks. North of the south block, along strike of the fault pressumed to traverse the block, lies two gold occurrences.

Five conductive zones were outlined on the property. Of these conductive zones, zones 1, 2, 4, and 5 appear to be bedrock conductors.

Conductive zones 1 and 4 probably represent conductors related to geologic contacts. Conductive zones 2 and 5 may represent structural breaks.

#### RECOMMENDATIONS

Further work is warranted on the property especially in the areas of the above mentioned conductors and the area of the presumed fault on the south block. An exploration program of ground geophysics and geological maping should be undertaken. A combined vertical gradient/total magnetic survey and horizontal loop-electromagnetic survey should be performed followed by an induced polarization survey over selected conductors and the south block.

Potentially interesting geological targets and geophysical anomalies should then be tested by diamond drilling.

Respectfully submitted,

H. FERDERBER GEOPHYSICS LTD.

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G.N. Henriksen, B.Sc. Geologist

#### APPENDIX I

#### Claim List

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Ministryof Natural Resources

#### Report of Work

(Geophysical, Geological, Geochemical and Expenditures)





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Report of Work (Geophysical, Geological, Geochemical and Expenditures) #170/87

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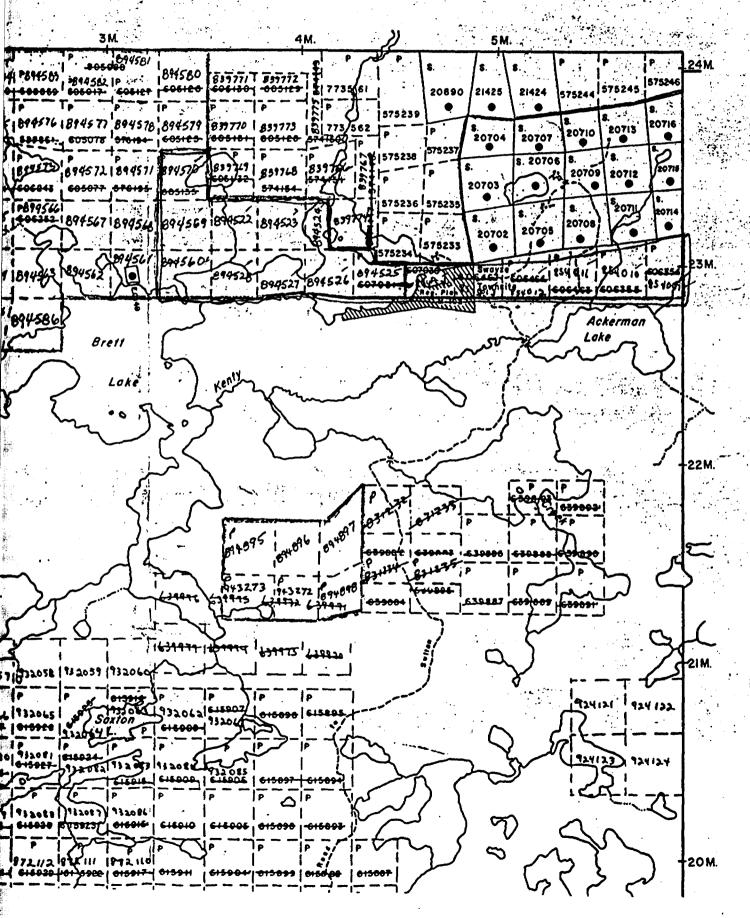
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Ministry of Northern Development and Mines

Ministère du Développement du Nord et des Mines

March 14, 1988

Our file: 2.10363 Your file: W8806-19

Mining Recorder Ministry of Northern Development and Mines 60 Wilson Avenue Timmins, Ontario P4N 2S7

Dear Sir:

Re: Airborne Geophysical (Electromagnetic & Magnetometer) Survey on Mining Claims P-854009, et al, in Swayze Township

The assessment work credits, as listed on the attached Report of Work, have been approved as recorded. Please disregard the approval dated November 16, 1987 (Report of Work #167/87).

Please inform the recorded holder of these mining claims and so indicate on your records.

Yours sincerely,

W.R. Cowan, Manager Mining Lands Section Mines & Minerals Division

Whitney Block, Room 6610 Queen's Park Toronto, Ontario M7A 1W3

DK:pl Enclosure

cc: Emerald Isle Resources Inc. 106 Fielding Road Lively, Ontario POM 2EO

> Resident Geologist Timmins, Ontario

Mr. David W. Constable Constable Consulting Inc. 10 Kingston Court Sudbury, Ontario P3A 1C9

File No 2./0363

# Mining Lands Section Control Sheet

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**Ministry of** Natural Resources Report of Work

(Geophysical, Geological, Geochemical and Expenditures)

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David W. Constable-Constable Consultants 10 Kingston Court,

Sudbury, Ontario P3A 1C9

Date Certified

July 28/87



Ministry of Natural Resources

Report of Work (Geophysical, Geological, Geochemical and Expenditures)

Instructions:

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2.10363 Note: The Mining Act

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July 28/87 Certification Verifying Repo	irt of Work	<u> </u>	<u></u>	NIBNOW	AH	3	Co.	
I hereby certify that I have a or witnessed same during and	personal and intimate k	_		•			aving performed	the work
Name and Postal Address of Pers		anu trie ann	even tehott is	tiue.				
David W. Consta	able, 10 Kin	gston	Court,	Sudbury, (	<u>Ontario</u>		1C9 y (Signature)	<i>†</i>
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1362 (81/9)								

November 9, 1987 File: 2.10363 REGISTERED Emerald Isle Resources Inc. 106 Fielding Road Lively, Ontario POM 2EO Dear Sirs: Re: Airborne (Electromagnetic and Magnetometer) Survey submitted on Mining Claims P 894522 et al in the Township of Swayze Enclosed is a copy of our letter dated October 8, 1987, requesting additional information for the above-mentioned survey. Unless you can provide the required data by November 19, 1987, we will have no alternative but to assess the material on hand and grant assessment work credits accordingly. For further information, please contact Arthur Barr at (416) 965-4888. Yours sincerely, W.R. Cowan, Manager Mining Lands Section Mines & Minerals Division Whitney Block, Room 6610 Queen's Park Toronto, Ontario M7A 1W3 AB: pl Enclosure cc: Mining Recorder Timmins, Ontario H. Ferderber Geophysics Ltd. 169 Perreault Ave. Val d'Or, Quebec J9P 2H1 Attention: Mr. G.N. Henriken

October 8, 1987 Report of Work: 167,170 File: 2.10363 Emerald Isle Resources Inc. 106 Fielding Road Lively, Ontario POM 2EO Dear Sir: Re: Airborne (Electromagnetic and Magnetometer) Survey Submitted on Mining Claims P-894522, et al, in the Township of Swayze In order to assess your submission of the above-mentioned survey, we require the actual number of miles flown over the claim group only. When submitting this information, please quote our file number 2.10363. For further information, please contact Arthur Barr at (416) 965-4888. Yours very truly, R.M. Charnesky (Mrs.) Acting Manager Mining Lands Section Mineral Development and Lands Branch Mines and Minerals Branch Whitney Block, Room 6610 Queen's Park Toronto, Ontario M7A 1W3 AB:pl cc: Mining Recorder H. Ferderber Geophysics Ltd. Timmins, Ontario 169 Perreault Ave. Val d'Or, Quebec J9P 2H1 Attention: Mr. G.N. Henriksen

September 21, 1987 Report of Work: 167,170/87 REGISTERED Emerald Isle Resources Inc. 106 Fielding Road Lively, Ontario POM 2EU Dear Stri RE: Mining Claims P-894522 et al in the Township of Swayze I have not received the reports and maps (in duplicate) for the Airborne Geophysical (Electromagnetic and Magnetometer) Survey on the above-mentioned claims. As the assessment "Reports of Work" were recorded by the Mining Recorder on July 29, 1987 the 60 day period allowed by Section 77 of the Mining Act for the submission of the technical reports and maps to this office will expire on September 27, 1987. If the material is not submitted to this office by September 28, 1987 we will have no alternative but to instruct the Hining Recorder to delete the work credits from the claim record sheets. For further information, please contact Mr. Dennis Kinvig at (416) 965-4888. Yours sincerely, R.M. Charnesky (Firs.) Acting Manager Mining Lands Section Mineral Development and Lands Branch Mines and Minerals Division Whitney Block, Room 6610 Queen's Park Toronto, Untario M7A 1W3 DK:pl cc: Hining Recorder

Mr. David W. Constable

Constable Consultants

10 Kingston Court

Sudbury, Ontario

P3A 1C9

Timmins, Untario

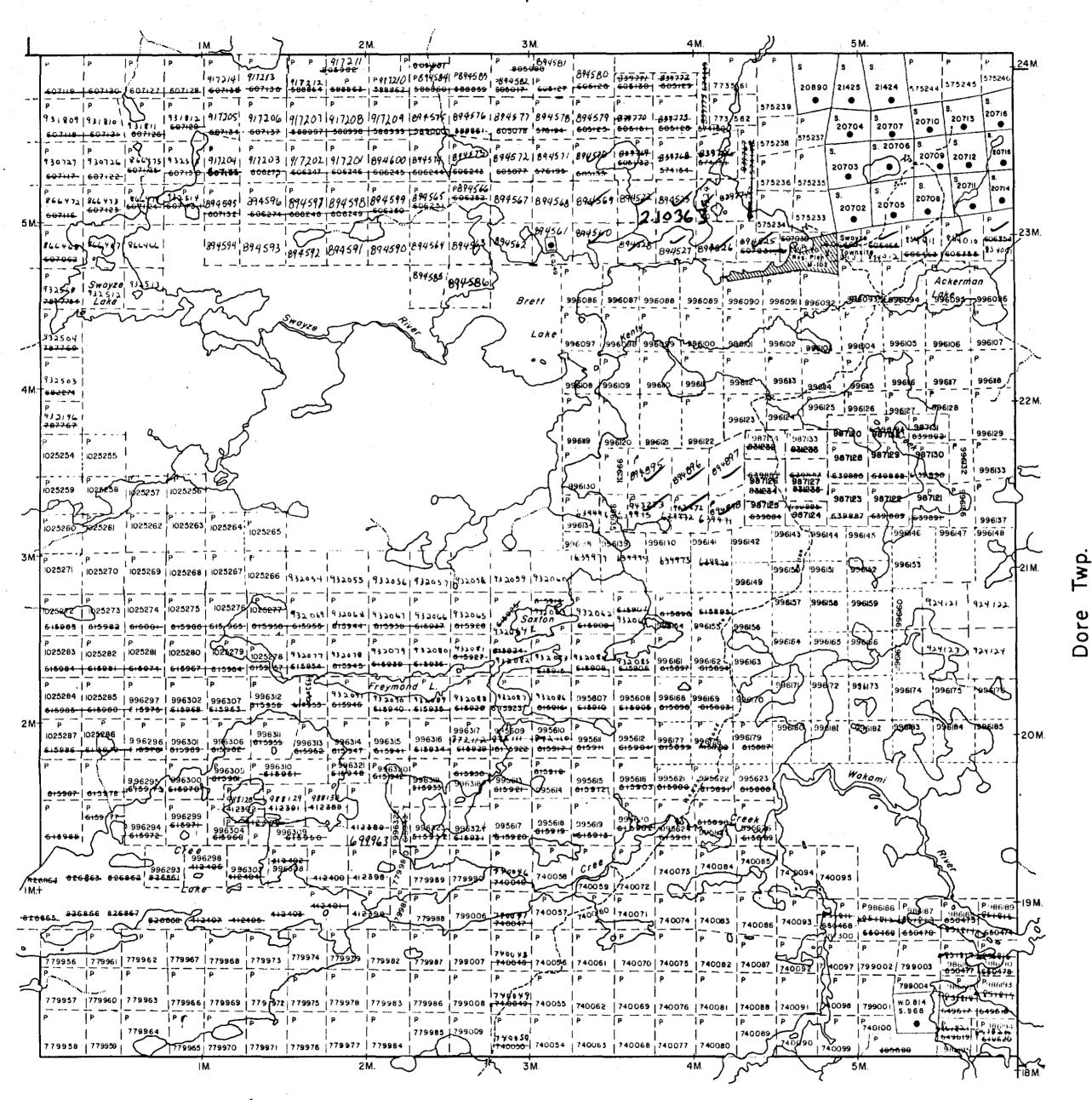
Mr. R. Campbell

Yal d'Or

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169 Perreault Ave.

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LEGEND HIGHWAY AND ROUTE No. OTHER ROADS TRAILS SURVEYED LINES: TOWNSHIPS, BASE LINES, ETC. LOTS, MINING CLAIMS, PARCELS, ETC. LOT LINES PARCEL BOUNDARY MINING CLAIMS ETC. **RAILWAY AND RIGHT OF WAY** UTILITY LINES NON-PERENNIAL STREAM FLOODING OR FLOODING RIGHTS SUBDIVISION OR COMPOSITE PLAN RESERVATIONS **ORIGINAL SHORELINE** MARSH OR MUSKEG MINES TRAVERSE MONUMENT **DISPOSITION OF CROWN LANDS** TYPE OF DOCUMENT SYMBOL PATENT, SURFACE & MINING RIGHTS \_\_\_\_\_ SURFACE RIGHTS ONLY..... NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 6, 1913, VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS AGT, R.S.O. 1970, CHAP. 380, SEC. 63, SUBSEC 1. SCALE: 1 INCH = 40 CHAINS 1000 2000 2.10363 TOWNSHIP

M.N.R. ADMINISTRATIVE DISTRICT

CHAPLEAU

MINING DIVISION

PORCUPINE

LAND TITLES / REGISTRY DIVISION

SUDBURY



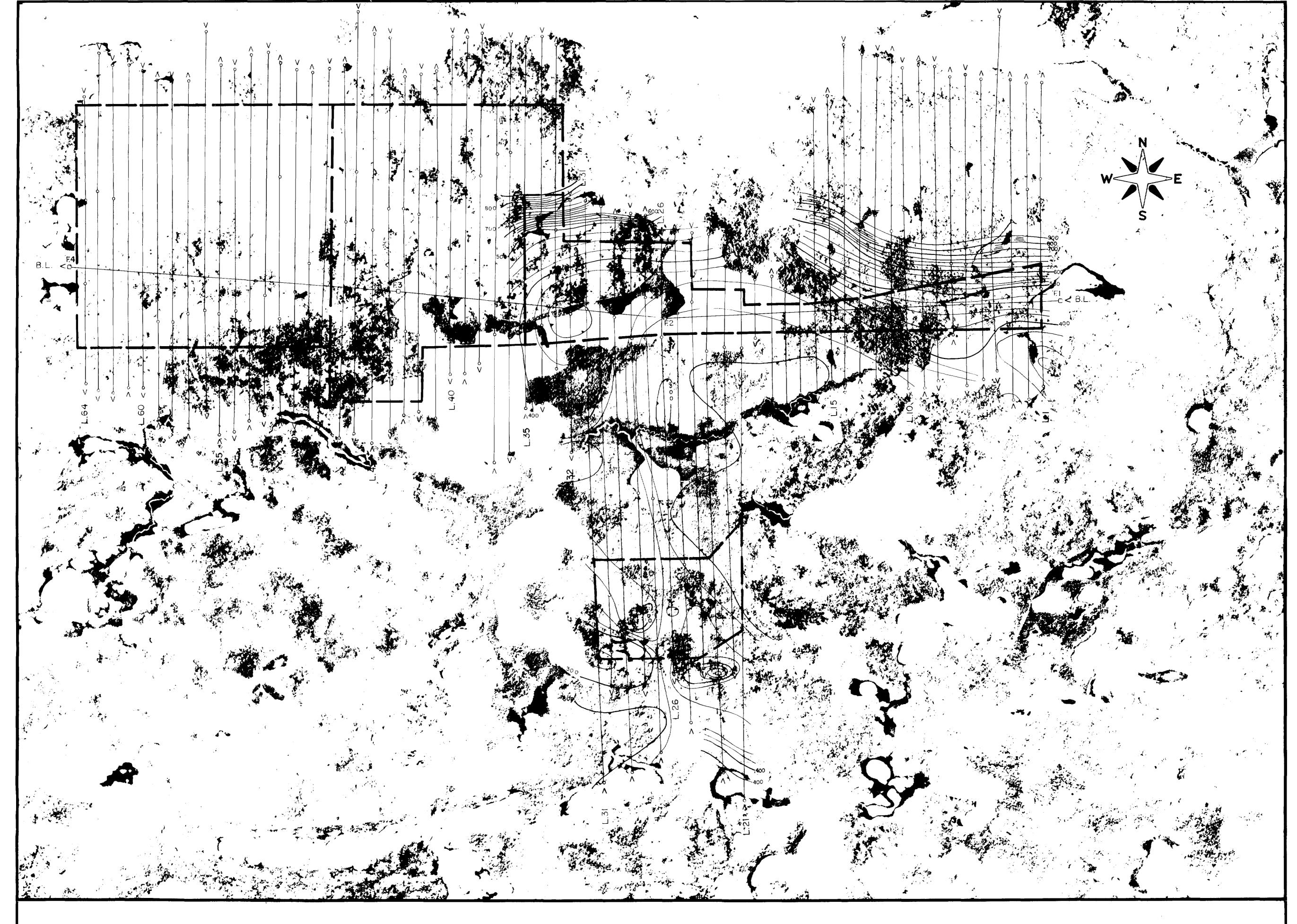
Ministry of Natural Resources Branch

Land Management

Ontario

Number

Date MARCH, 1985



## **LEGEND**

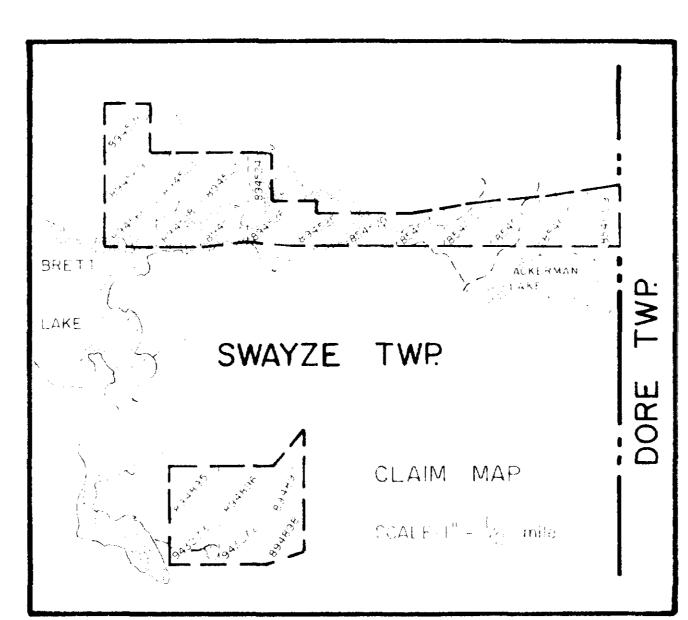
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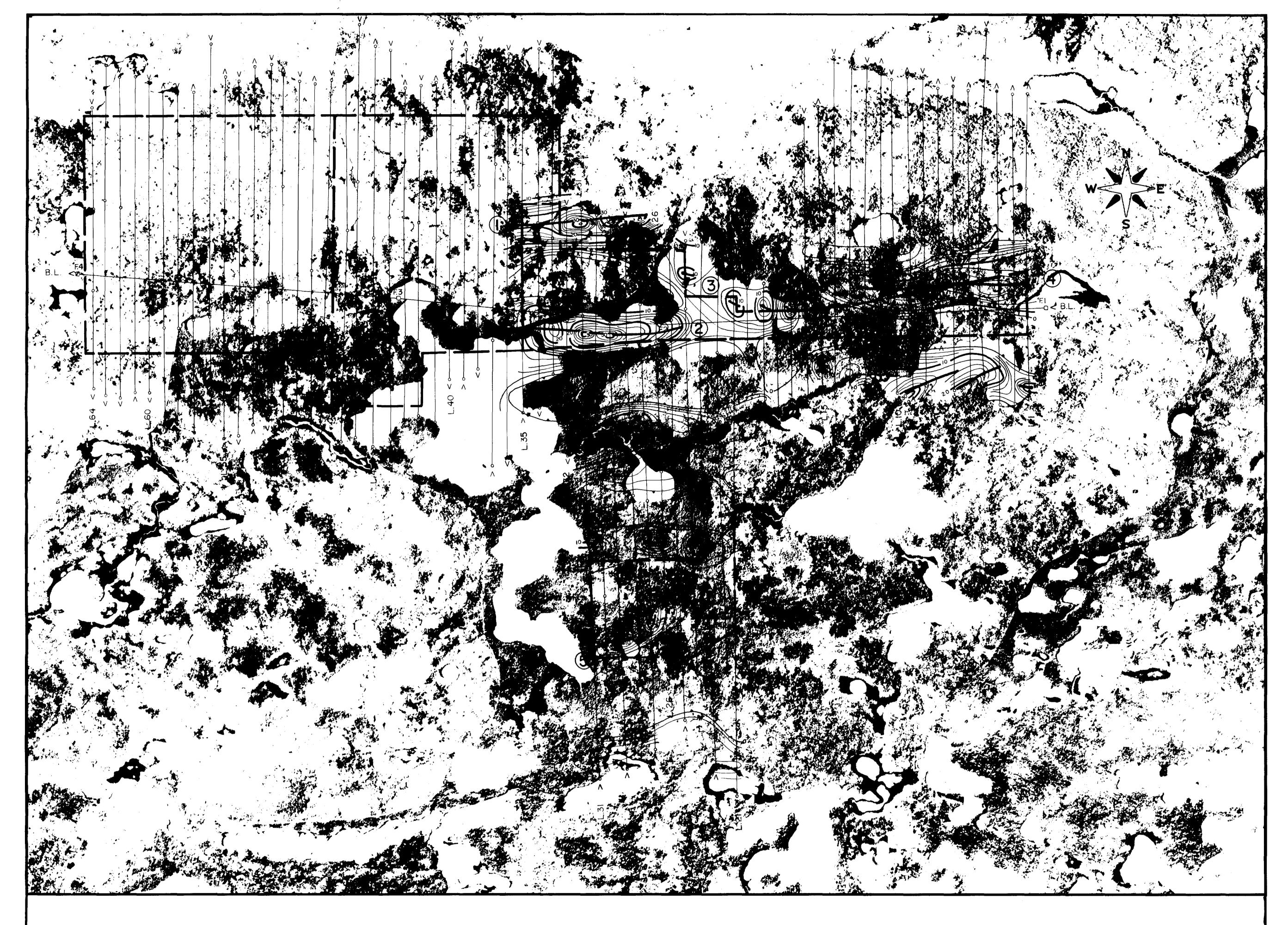
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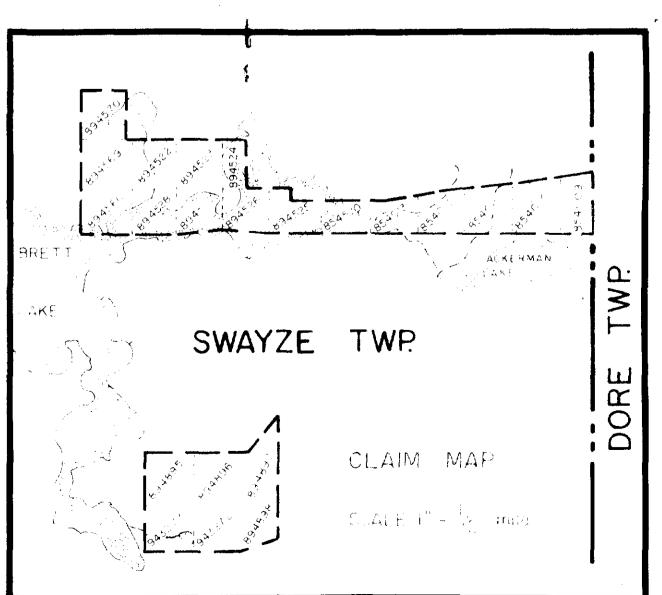
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