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Geological Report

Concession 5, Lots 6 &7

McCart Township

Timmins Area

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MINING LANDS SECTION

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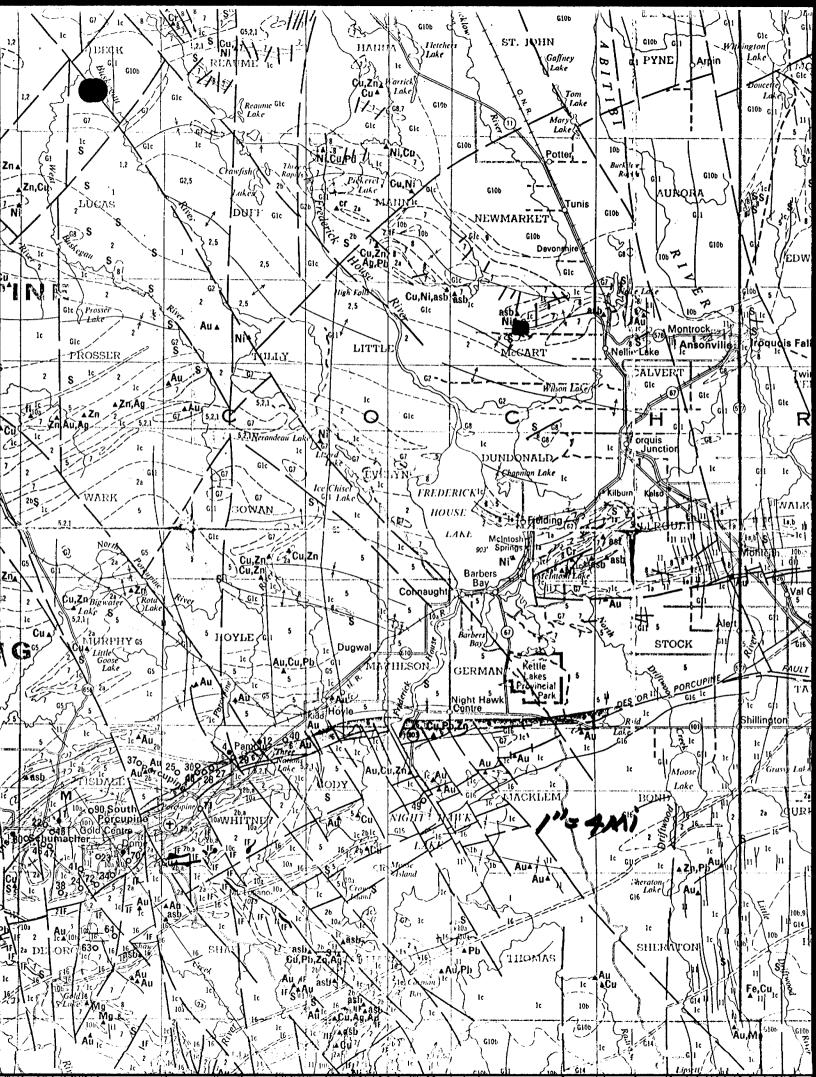
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Geological Report McCart Township Area

Introduction

This report covers the general geology of the following four claims in the north central part of McCart Township, Porcupine Mining Division:

P1090033 - SE1/4, S1/2, Lot 7, Conc 5

P1090034 - NE1/4, S1/2, Lot 7, Conc 5

P1090035 - SW1/4, S1/2, Lot 6, Conc 5

P1090036 - NW1/4, S1/2, Lot 6, Conc5

Access and Location

The claim group is approximately 30 miles NE of Timmins and 8 miles west of Iroquois Falls. Highway 11 passes within 3.5 miles of the property in Calvert Township, where a good road extends west along the Concession 4-5 boundary, directly to the property.

Previous Work

Other than regional compilation maps, the only published map of McCart Township is a preliminary map by Satterly (1953).

Nickel mineralization was known to occur on the property as early as 1916 (Baker, 1917), when samples from the Don O'Connor property in Lot 7, Conc 5 reportedly contained up to 3 per cent nickel.

During the 1950's, asbestos fibre was extensively explored for in the ultramafics in Lots 6 & 7 of Concession 5. Although a number of trenches were noted in the ultramafics on the current property, some of which contain minor fibre, the bulk of the exploration work appears to have been

Indertaken in the north half of Lots 6 & 7.

In 1957, Geo-Technical Development Company Limited conducted magnetic and electrical resistivity surveys over the property. Although five drill holes were recommended to test various resistivity anomalies, there is no record of follow-up drilling.

In 1961, Union Mining Corporation drilled one hole (*U-2) for 763 feet to test the serpentinite - volcanic contact zone in the north part of the property along which Ni-sulphide mineralization was known to occur. Only minor pyrrhotite and pyrite was reported, and most of this was confined to a graphitic argillite at the serpentinite - volcanic contact. No assays are reported.

In 1986, Ferderber Geophysics flew a magnetic-VLF survey over a large part of the NW quarter of McCart Township, which included the present claims. No follow-up work was reported.

Recently, the Ontario Geological Survey (1988) flew a combined magnetic and INPUT survey over the north Timmins area, which included McCart Township.

Present Survey

The present survey was done intermittently by D. Pyke over the period August 21-October 2, 1989. A total of four days were spent on the property. An aerial photograph at a scale of 1 inch to 400 feet was used for mapping control. As there is extensive barren outcrop exposure on the claim group, it was not necessary to run systematic traverse lines, as one can easily inspect the outcrops with a high degree of precision as to location.

Property Geology

The map as presented is at best preliminary, as both the quality and

xtent of bedrock exposure is unique for the north Timmins area, and certainly warrants a more detailed examination.

There are essentially two main rock types underlying the property:
1) ultramafic intrusive rocks consisting largely of serpentinized dunite peridotite and, 2) komatilitic volcanics - dominately basaltic, with lesser
ultramafic compositions.

The ultramafic intrusive rocks, confined to the SE and northern part of the property, are commonly massive, orange brown, orange grey to blue grey weathering, and dark blue black or locally medium green on fresh surfaces. Irregular fracturing and local development of asbestos fibre is common. In the NW part of the property one to two meter wide pyroxene-rich zones impart a layering to an otherwise homogeneous appearing massive rock.

The komatiitic volcanics are medium grey weathering, light to medium grey fresh, and generally display a characteristic polygonal jointing or polysuturing structure on the weathering surface which is diagnostic of komatiitic flows. Pyroxene spinifex, consisting of elongate subparallel pyroxene crystals to 4 inches in length was observed at two localities and form zones up to 3 feet thick overlying a serpentine-tremolite basal portion up to 30 feet thick. Most of the basaltic komatiites are pillowed, some of which are seen to form elongated tubes up to 10 feet in length. Columnar jointing is pronounced in the flows immediately south of the serpentinite contact in the north half of the property.

Structurally, the rocks trend in an east to NE direction, and where dips were discernable, appear to be largely at a shallow (20-30 degree) angle to the north. An east trending anticline-syncline pair is recognized on the basis of pillow facings, and from the known dips, would be highly overturned to the south.

<u> Aineralization</u>

Discontinuous 'pockets' of pyrrhotite-pyrite mineralization (3-5%) form rusty weathering gossan zones at the contact of the serpentinite and komatiitic volcanics, and locally up to 400 feet north of the contact zone. A number of old pits and treenches are evident along this zone which forms part of the long recognized mineralized area locally containing up to 3 percent nickel (Baker, 1917). Sampling of the mineralized outcrops and trenches was not undertaken during the present survey.

Recommendations and Conclusions

Because of the excellent rock exposure on the claim group it is recommended that detailed mapping and selective prospecting be undertaken. Although a number of trenches occur along the known mineralized zone at or near the serpentinite-komatiite contact, there is as yet no detailed structural information as to the attitude and plunge of the sulphide zones. Only minimum drilling is known to have been undertaken, and it is doubtful if the platinum potential of the ultramafic complex has been addressed. In addition, a VLF and magnetic survey should be completed over the property to assist in establishing the geological data base.

References

Baker, MB.

1917: Ontario Bureau Mines, Vol XXVI, p.270-271

Ontario Geological Survey

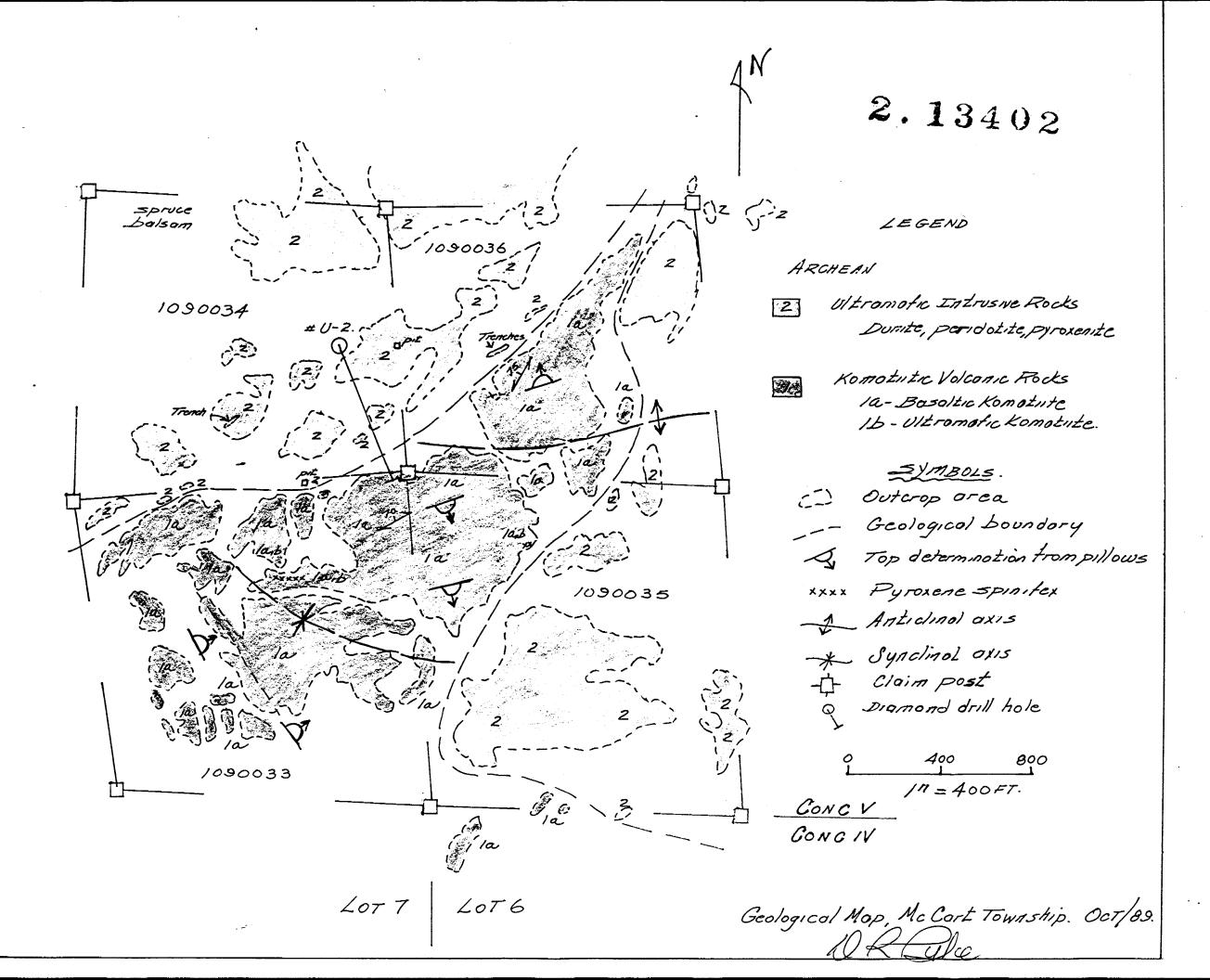
1988: Airborne Electromagnetic and Magnetic Survey, Timmins Area,

McCart Township, Map 81058, Scale 1:20,000.

Satterly, J.

1953: McCart Township: Ontario Department Mines, Preliminary Map

P16, Scale 1"=1/4 mile.



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Ministry of Natural Resources



GEOPHYSICAL – GEOLOGICAL – GEOCHEMICAL TECHNICAL DATA STATEMENT

2.13402

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.

TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.				
Type of Survey(s) Township or Area Claim Holder(s) TEO	LOGICAL CART PAINE	MINING CLAIMS TRAVERSED List numerically		
Author of Report D. P. Address of Author 31 DE	AUGIOD - JUNE 190 Minecutting to office)	7 1090033 (prefix) (number) 1090034 1090036		
SPECIAL PROVISIONS CREDITS REQUESTED ENTER 40 days (includes line cutting) for first survey. ENTER 20 days for each additional survey using same grid.	Geophysical -Electromagnetic -Magnetometer -Radiometric -Other Geological Geochemical			
AIRBORNE CREDITS (Special Magnetometer Electron (e)				
Res. Geol. Q Previous Surveys File No. Type Date	ualifications 8.3899 Claim Holder	-		
	7	TOTAL CLAIMS 4		

OFFICE USE ONLY

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS - If more than one survey, specify data for each type of survey

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	Accuracy - Scale constan	nt						
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	Base Station check-in interval (hours)							
	Base Station location and value							
ELECTROMAGNETIC	Instrument							
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CIR		Fixed transmitter		☐ In line	Parallel line			
TE	Frequency		(specify V.L.F. station)					
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II	Corrections made							
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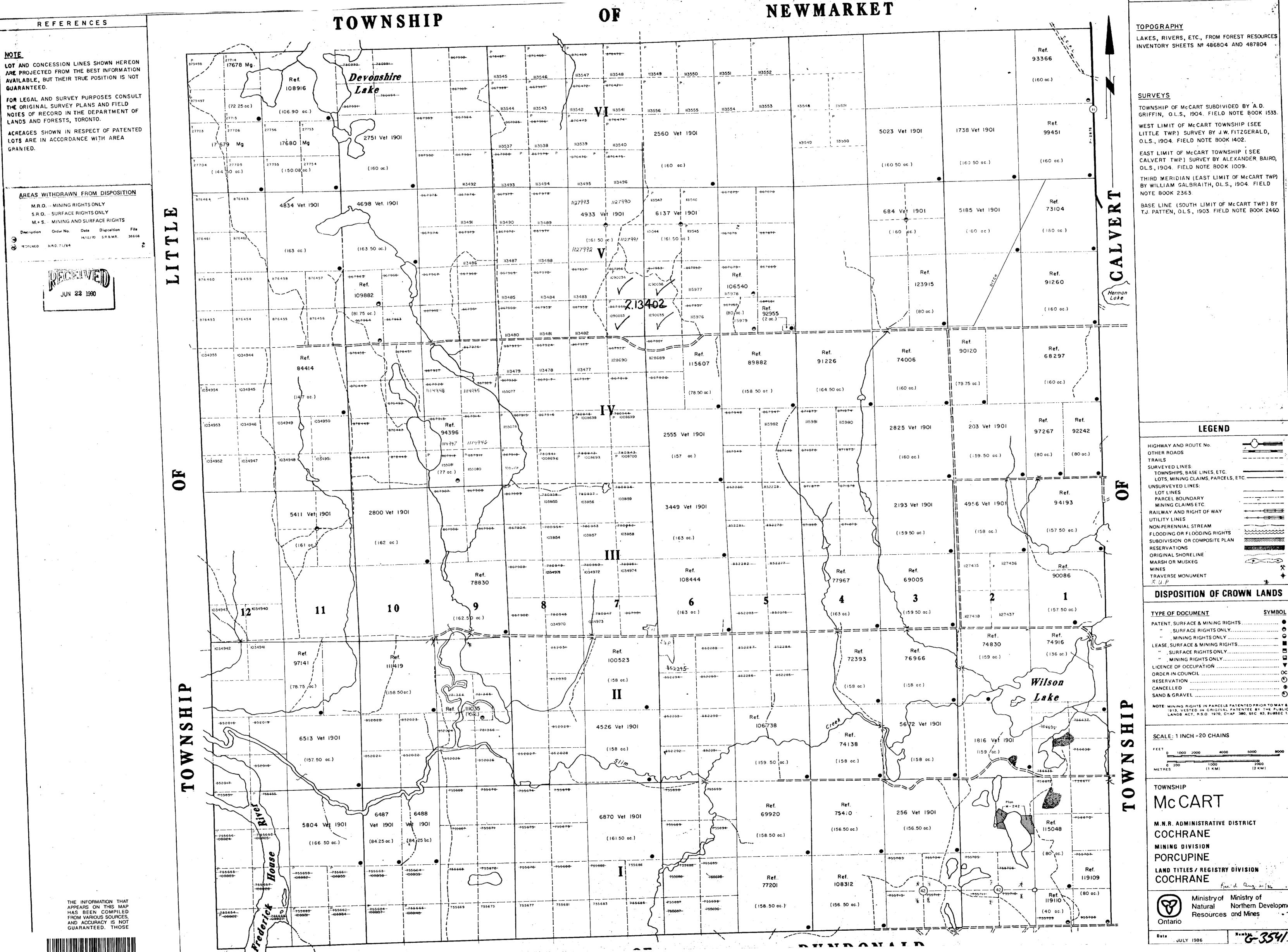


SELF POTENTIAL	
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Corrections made	
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Values measured	
Energy windows (levels)	
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Size of detector	
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GEOCHEMICAL SURVEY - PROCEDURE RECORD



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Type of Sample(Nature of Material)	— Values expressed in: per cent □
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Method of Collection	p. p. v. —
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Terrain	
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	Reagents Used
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(Includes drying, screening, crushing, ashing)	Name of Laboratory
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	Analytical Method
	Reagents Used
	General
General	



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REFERENCES

LAKES, RIVERS, ETC., FROM FOREST RESOURCES

TOWNSHIP OF Mc CART SUBDIVIDED BY A.D. GRIFFIN, O.L.S., 1904. FIELD NOTE BOOK 1533.

LITTLE TWP) SURVEY BY J.W. FITZGERALD,

EAST LIMIT OF MCCART TOWNSHIP (SEE CALVERT TWP) SURVEY BY ALEXANDER BAIRD,

THIRD MERIDIAN (EAST LIMIT OF McCART TWP) BY WILLIAM GALBRAITH, O.L.S., 1904. FIELD

BASE LINE (SOUTH LIMIT OF Mc CART TWP) BY T.J. PATTEN, O.L.S., 1903. FIELD NOTE BOOK 2460.

> LOTS, MINING CLAIMS, PARCELS, ETC. _____

> DISPOSITION OF CROWN LANDS

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