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Geological Report

on part of the

Four Corners Option

Bristol and Carscallen Townships

NTS 42A/5

for

Esso Minerals Canada

Timmins Office March, 1986

Joseph A. MacPherson

# RECEIVED

APR 9 **1986** 

MINING LANDS SECTION



42405NE0254 2.9012 CARSCALLEN

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Claim map, 1"=1/2 mile Property Geology, 1:2500

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#### Summary

During October, 1985 a detailed geological survey was carried out over a group of eight claims located in Bristol and Carscallen Townships. The claims are part of a larger group currently under option from Ralph E. Allerston of Timmins.

The main units mapped were felsic to intermediate volcanics and mafic volcanics of the Godfrey Group. These are intruded to the north by a large stock of gabbroic composition. All units are fresh looking and exhibit very little alteration or sulfide mineralization, with the exception of the contact between the mafic and felsic volcanics, which is moderately carbonatized and weakly pyritic.

No further work is recommended on the property.

#### Introduction

A group of seven claims located in Bristol and Carscallen Townships were covered in October, 1985 by a detailed geological survey.This survey was part of a larger mapping program encompassing the outcrop areas of a group of claims currently under option to Esso Minerals Canada from Ralph Allerston of Timmins, Ontario.

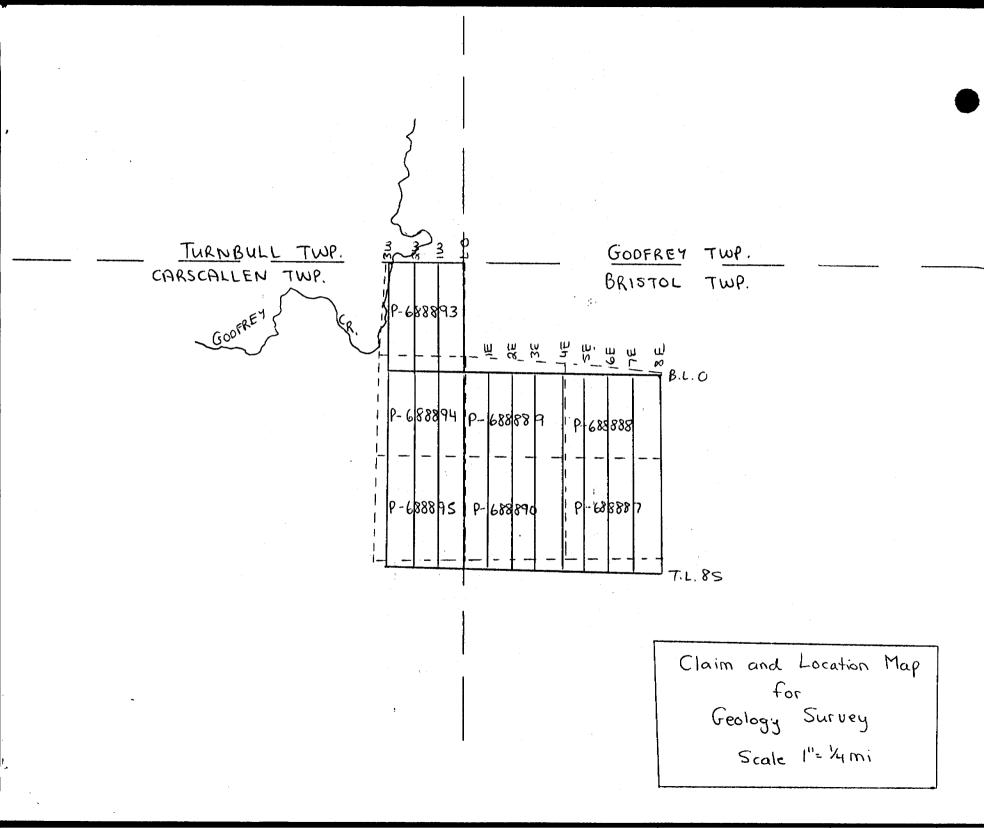
The claims straddle the boundary of Bristol and Carscallen Townships at the south boundary of Turnbull and Godfrey Townships.

The claims were covered by a grid with north-south lines cut at 100 meter intervals and stations every 25 meters.

Outcrop exposure is about 10% and most of this is in the northwest corner of the map area near a small creek. Observations on the type of overburden cover and vegetation were also recorded.

The claim numbers covered in this survey are as follows: P-688887-890, and P-688893-895.

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#### Property Geology

The property is underlain by a sequence of rocks interpreted to be part of the Godfrey Group of metavolcanics which is calc-alkalic in composition and locally is rich in potassium.

From north to south the rock types are: 1) Gabbro medium to fine grained, locally weakly magnetic, 1-2% pyrite, massive, no alteration, 2) Massive, aphanitic rhyolite to locally flow-banded rhyolite with some localized patches of lapilli tuff. A trace of pyrite may be present in the rhyolite but it is essentially unmineralized and unaltered, 3) Basalt, the north contact of which is quite irregular and intruded by feldspar porphyry dykes. Numerous epidote stringers were noted and the basalt is locally magnetic. Strong but spotty carbonate alteration was also noted in the basalts, especially near the north contact with the felsic volcanics. Pyrite was also noted in amounts not exceeding 5% over a couple of feet.

The general strike of the units is 110-140 degrees and the foliation dips steeply to the north. Bedding roughly parallels the foliation.

#### Recommendations

The area of the basalt-rhyolite contact should be prospected and mapped in detail in order to determine the exact extent of the sulfides and the carbonate alteration. IP surveys may also be of assistance in locating areas of higher sulfide content and/or carbonate alteration.

A final phase of diamond drilling of the geological and/or geophysical anomalies generated by the above surveys should then be implemented.

J.A. Mochhena

Joseph A. MacPherson

March 25, 1986

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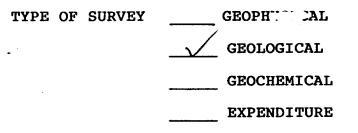
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## Mining Lands Section

### Control Sheet



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#### MINING LANDS COMMENTS:

1. Aurst

Signature of Assessor

apr 2 8/84

Date

April 16, 1986

File: 2.9012

Mining Recorder Ministry of Northern Development and Mines 60 Wilson Avenue Timmins, Ontario P4N 257

Dear Sir:

We received reports and maps on April 9, 1986 for a Geological Survey submitted under Special Provisions (credit for Performance and Coverage) on Mining Claims P 688887, et al, in Bristol Township.

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

We do not have a copy of the report of work which is normally filed with your office prior to the submission of this technical data. Please forward a copy as soon as possible.

Yours sincerely,

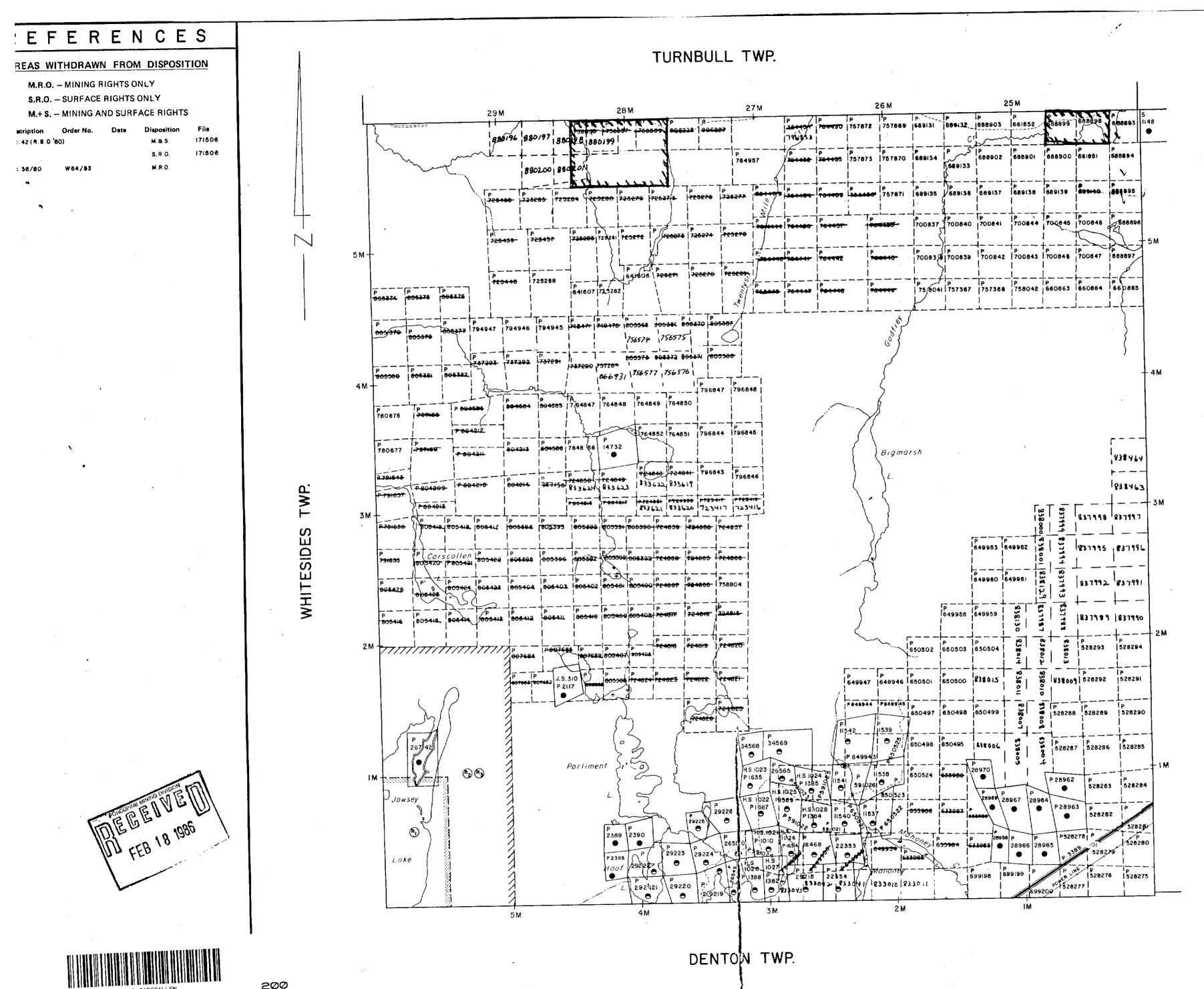
J.C. Smith, Supervisor Mining Lands Section

Whitney Block, 6th Floor Queen's Park Toronto, Ontario M7A 1W3

Telephone: (416) 965-4888

AB/mc

cc: Esso Resources Canada Ltd 120 Adelaide Street West Toronto, Ontario M5H 1S2 Attnetion: Joseph A. MacPherson



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LEGEND HIGHWAY AND ROUTE No. OTHER ROADS TRAILS SURVEYED LINES: TOWNSHIPS, BASE LINES, ETC. LOTS, MINING CLAIMS, PARCELS, ETC. -UNSURVEYED LINES: 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 Control of the Wallington ORIGINAL SHORELINE MARSH OR MUSKEG MINES TRAVERSE MONUMENT **DISPOSITION OF CROWN LANDS** SYMBOL TYPE OF DOCUMENT PATENT, SURFACE & MINING RIGHTS ... , SURFACE RIGHTS ONLY..... , MINING RIGHTS ONLY LEASE, SURFACE & MINING RIGHTS , SURFACE RIGHTS ONL MINING RIGHTS ONL LICENCE OF OCCUPATIO RESERVATION CANCELLED SAND & GRAVEL ..... NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 8, 1913, VESTED IN ORIGINAL PATENTEE BY THE PUBLIC Lands Act, R.S.O. 1970, Chap. 380, Sec. 63, SU65EC 1. SCALE: 1 INCH = 40 CHAINS FEET 1000 2000 2000 (2 KM) 0 200 (1 KM) METRES SITE PREPARATION MNR TOWNSHIP CARSCALLEN M.N.R. ADMINISTRATIVE DISTRICT TIMMINS MINING DIVISION PORCUPINE LAND TITLES / REGISTRY DIVISION COCHRANE Ministryof Land R Management Natural Resources Branch Ontario Number Det. SEPTEMBER, 1984

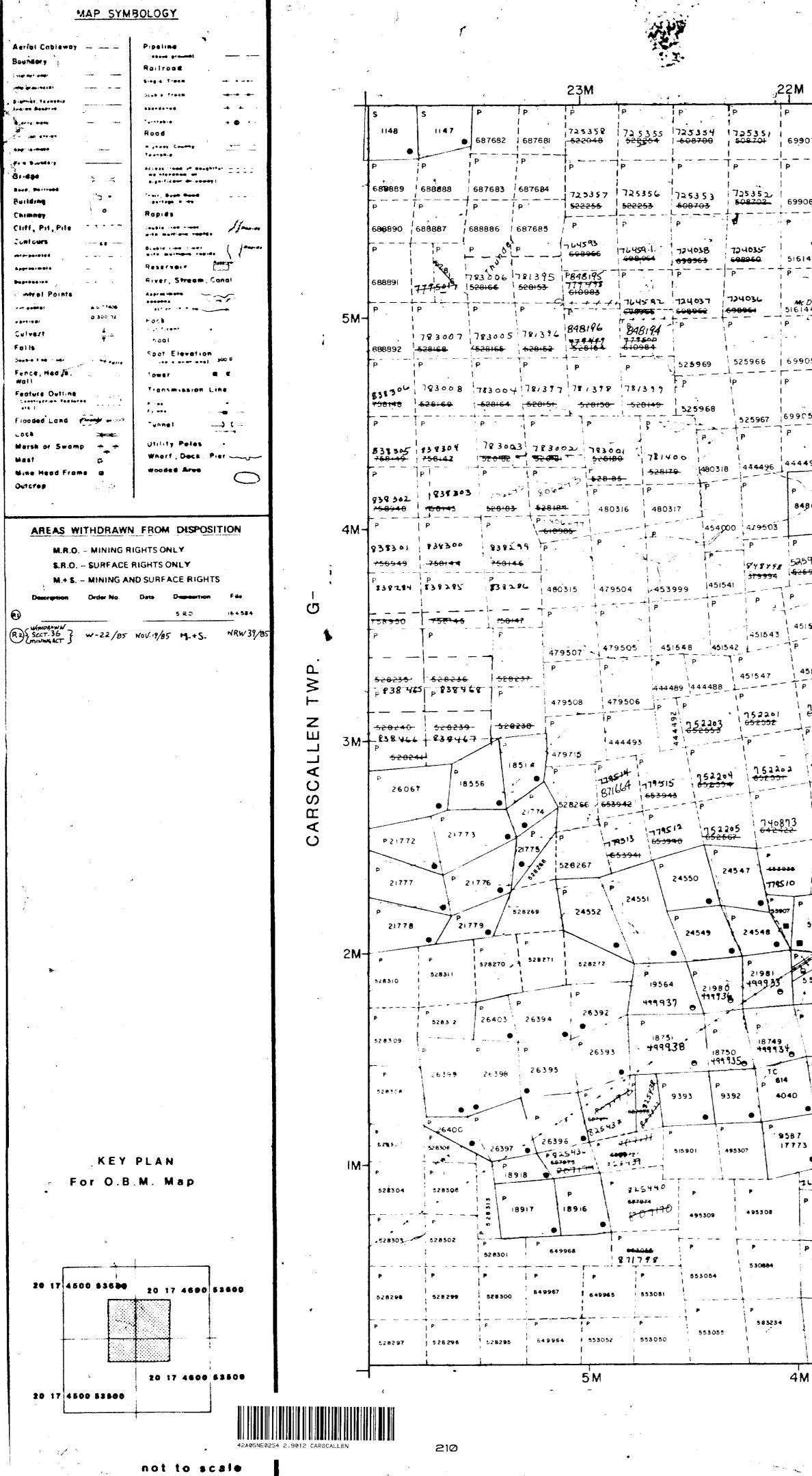
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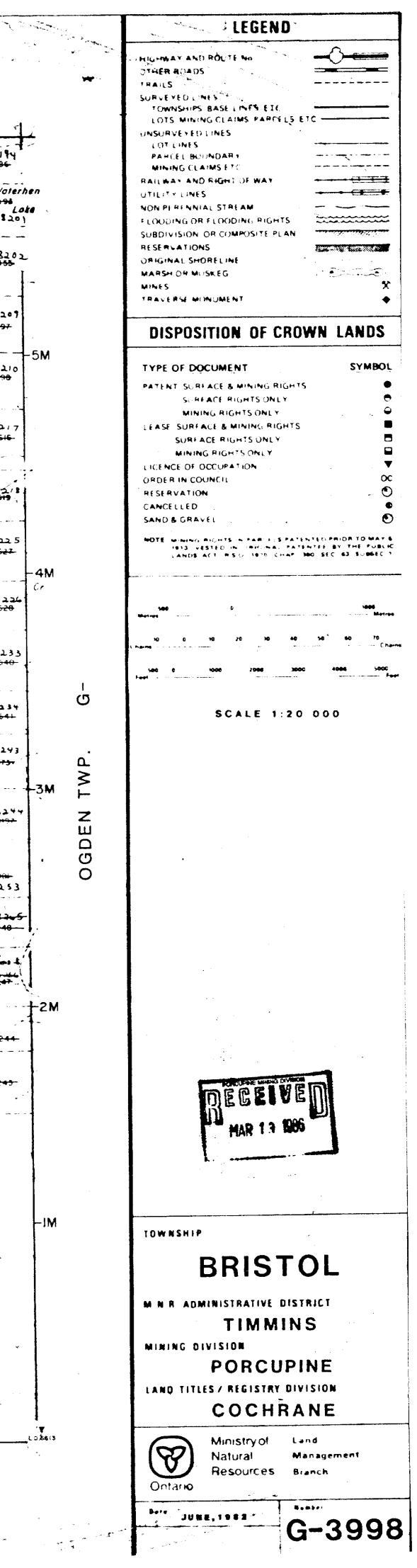


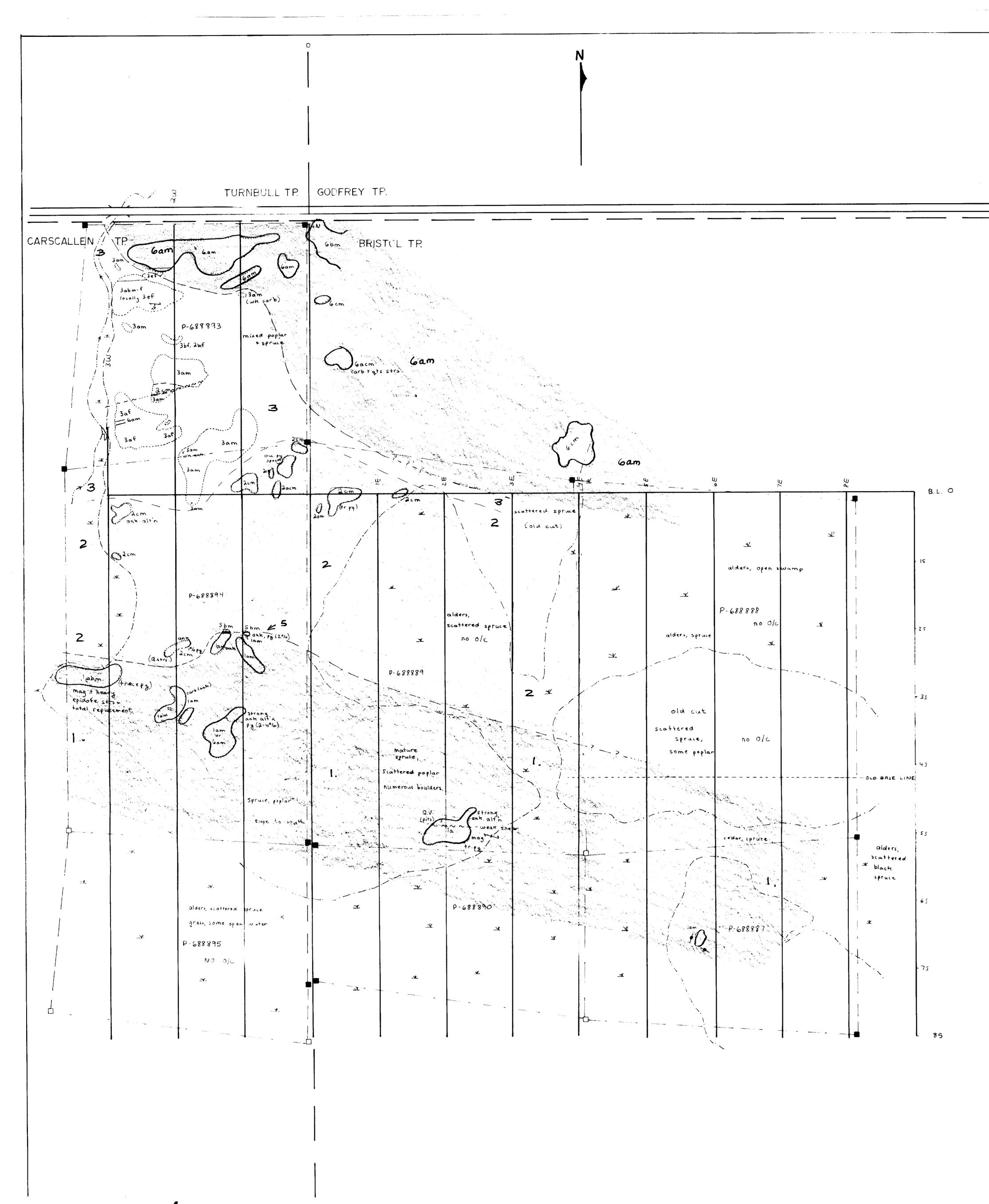
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GEOLOGY BY J. MACPHERSON

OCTOBER, 1985