



32D04SE0158 2.11607 HEARST

010

REPORT ON GEOLOGICAL SURVEY  
HEARST TOWNSHIP, ONTARIO  
R.A. MacGregor, P. Eng.  
August 5, 1988

**RECEIVED**  
SEP 13 1988  
MINING LANDS SECTION

## I. INTRODUCTION

A geological survey was carried out during October and November of 1986 by T. Hughes on three claims in Hearst Township. The results are shown on plans in the back pocket.

## II. LOCATION, ACCESS AND OWNERSHIP

The claims are located in the southwest corner of Hearst Township. The claims are numbered L891861 to 891864 inclusive. They are recorded in the name of R.A. MacGregor, 28 Ford Street, Sault Ste. Marie, Ontario.

Access to the property is by bush roads from Highway 624 about 8 miles south of Larder Lake, Ontario.

## III. PREVIOUS EXPLORATION

The claims have been previously explored by linecutting and geophysical surveys. There are a number of old pits and trenches on the claims, but no record of this work.

## IV. GEOLOGY

According to ODM Map 1947-1 by Jas. E. Thomson, the claims are underlain by Temiskaming sediments cut by Algoman syenite with some Keewatin volcanics in the south. Drift is extensive and almost entirely covers the most easterly claim.

Recent mapping shows the claims underlain by Larder Lake group ultramafic volcanoclastics and sediments cut by syenite and hornblende syenite dykes or sills. There is an outcrop of felsic volcanics on the south part of the line between claims L891862 and L891863, which may be part of the Skead Group. Lamprophyre outcrops on claim L891861. It is probably a dyke.

VI. SURVEY PROCEDURE

Lines were recut following an old survey grid about 5 to 6 years old. The lines were still visible but much overgrown with brush and fallen trees. The baseline trends about N 55° W. The geological survey was run by traversing lines, claim lines, shoreline and checking intervening areas for outcrop. The outcrops were examined and plotted on 1:2500 plans. Note was also made of ground conditions and forest cover.

VII. RESULTS AND CONCLUSIONS

The geological survey has outlined outcrop and overburdened areas as well as rock types and mineralization. It will assist in assessing the area for further exploration.

Respectfully submitted



R.A. MacGregor, P. Eng.

August 5, 1988

C E R T I F I C A T E

I, Robert A. MacGregor certify:

1. I am a Mining Engineer residing at 28 Ford Street, Sault Ste. Marie, Ontario. I have worked as a mining engineer and geologist for the past 20 years.
2. I am a member of the Association of Professional Engineers of the Province of Ontario and a member of the Canadian Institute of Mining and Metallurgy.
3. I attended Queen's University for two years in the Mining-Geology course.
4. I personally have knowledge of the field work covered by this report.

August 5, 1988  
Date



2.1102



32D04SE0158 2.11607 HEARST

Mining

900

*Land Management #362*

Type of Survey(s) <b>Geological</b>	Township or Area <b>Hearst Twp.</b>
Claim Holder(s) <b>R.A. MacGregor</b>	Prospector's Licence No. <b>2.11607</b> <b>K-15070</b>
Address <b>28 Ford St., Sault Ste. Marie, Ontario P6A 4N4</b>	
Survey Company <b>Sudbury Contact Mines Ltd.</b>	Date of Survey (from & to) 25 10 86 15 11 86 Day Mo. Yr. Day Mo. Yr.
Total Miles of line Cut	
Name and Address of Author (of Geo-Technical report) <b>R.A. MacGregor, 28 Ford St., Sault Ste. Marie, Ontario P6A 4N4</b>	

Credits Requested per Each Claim in Columns at right

Mining Claims Traversed (List in numerical sequence)

Special Provisions	Geophysical	Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	- Electromagnetic	
	- Magnetometer	
For each additional survey: using the same grid: Enter 20 days (for each)	- Radiometric	
	- Other	
	Geological	<b>40</b>
	Geochemical	

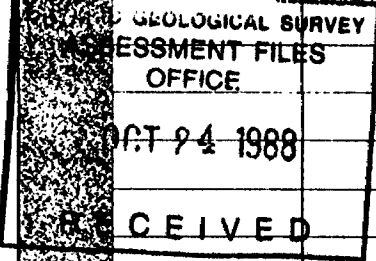
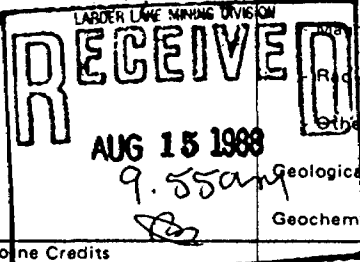
  

Man Days	Geophysical	Days per Claim
Complete reverse side and enter total(s) here	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
	Geochemical	

Airborne Credits	Geophysical	Days per Claim
Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	
	Magnetometer	
	Radiometric	

Mining Claim		Expend. Days Cr.	Mining Claim		Expend. Days Cr.
Prefix	Number		Prefix	Number	
L	891861				
	891862				
	891863				
	891864				



Expenditures (excludes power stripping)

Type of Work Performed  
**RECEIVED**

Performed on Claim(s)  
**AUG 15 1988**

MINING CLAIMS SECTION

Calculation of Expenditure Days Credits

Total Expenditures \$  ÷ 15 = Total Days Credits

Instructions  
Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

Total number of mining claims covered by this report of work. **4**

Date **Aug. 4/88**

Recorded Holder or Agent Signature  
*[Signature]*

For Office Use Only

Total Days Cr. Recorded <b>160</b>	Date Recorded <b>Aug. 15/88</b>	Mining Recorder <i>[Signature]</i>
<b>L.P.</b>	Date Approved as Recorded <b>13 OCT 88</b>	Branch Director <i>[Signature]</i>

**RM**

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying  
**R.A. MacGregor, 28 Ford St., Sault Ste. Marie, Ontario P6A 4N4**

Date Certified **Aug. 4/88**

Certified by Signature  
*[Signature]*

AREAS WITHDRAWN FROM DISPOSITION

- M.R.O. - MINING RIGHTS ONLY
- S.R.O. - SURFACE RIGHTS ONLY
- M.+S. - MINING AND SURFACE RIGHTS

Description Order No. Date Disposition File

(R1) SURFACE RIGHTS WITHDRAWN FROM STAKING SECTION 36/80 ORDER NO. W 14/80

(R2) Surface and Mining Rights Withdrawn from Staking, section 36/80 order No. W 65/84

(R3) MINING RIGHTS WITHDRAWN FROM STAKING SECTION 36 / 80 ORDER NO. W 9 / 85

(R4) Surface and Mining Rights Withdrawn from Staking, section 36/80 order No. W 17/85

O 32 / 85 OPENS W 17 / 85.

(R5) Surface and Mining Rights Withdrawn from Staking, section 36/80 order No. W 36/85

O 22 / 85 OPENS W 36 / 85

(R6) Surface and Mining Rights Withdrawn from Staking, section 36/80 order No. W 38/85

O 24 / 85 OPENS PART OF W 38 / 85.  
O 25 / 85 OPENS PART OF W 38 / 85.  
O 26 / 85 OPENS PART OF W 38 / 85.  
O 27 / 85 OPENS PART OF W 38 / 85.  
O 28 / 85 OPENS PART OF W 38 / 85.

(R7) Surface and Mining Rights Withdrawn from Staking, section 36/80 order No. W 7/86

O 74 / 86 OPENS PART OF W 7 / 86.  
O 98/87 OPENS PART OF W 7/86.

(R8) Surface and Mining Rights Withdrawn from Staking, section 36/80 order No. W 8/86

O 64 / 87 OPENS PART OF W 8 / 86.  
O 23/88 OPENS PART OF W 8/86.

(R9) Surface and Mining Rights Withdrawn from Staking, section 36/80 order No. W 9/86

(R10) Surface and Mining Rights Withdrawn from Staking, section 36/80 order No. W 61/86


O 75 / 86 OPENS W 61 / 86.

(R11) Surface and Mining Rights Withdrawn from Staking, section 36/80 order No. W 50/86

O 8/88 OPENS PART OF W 50/86.  
O 60 / 87 OPENS PART OF W 50 / 86.

NOTES

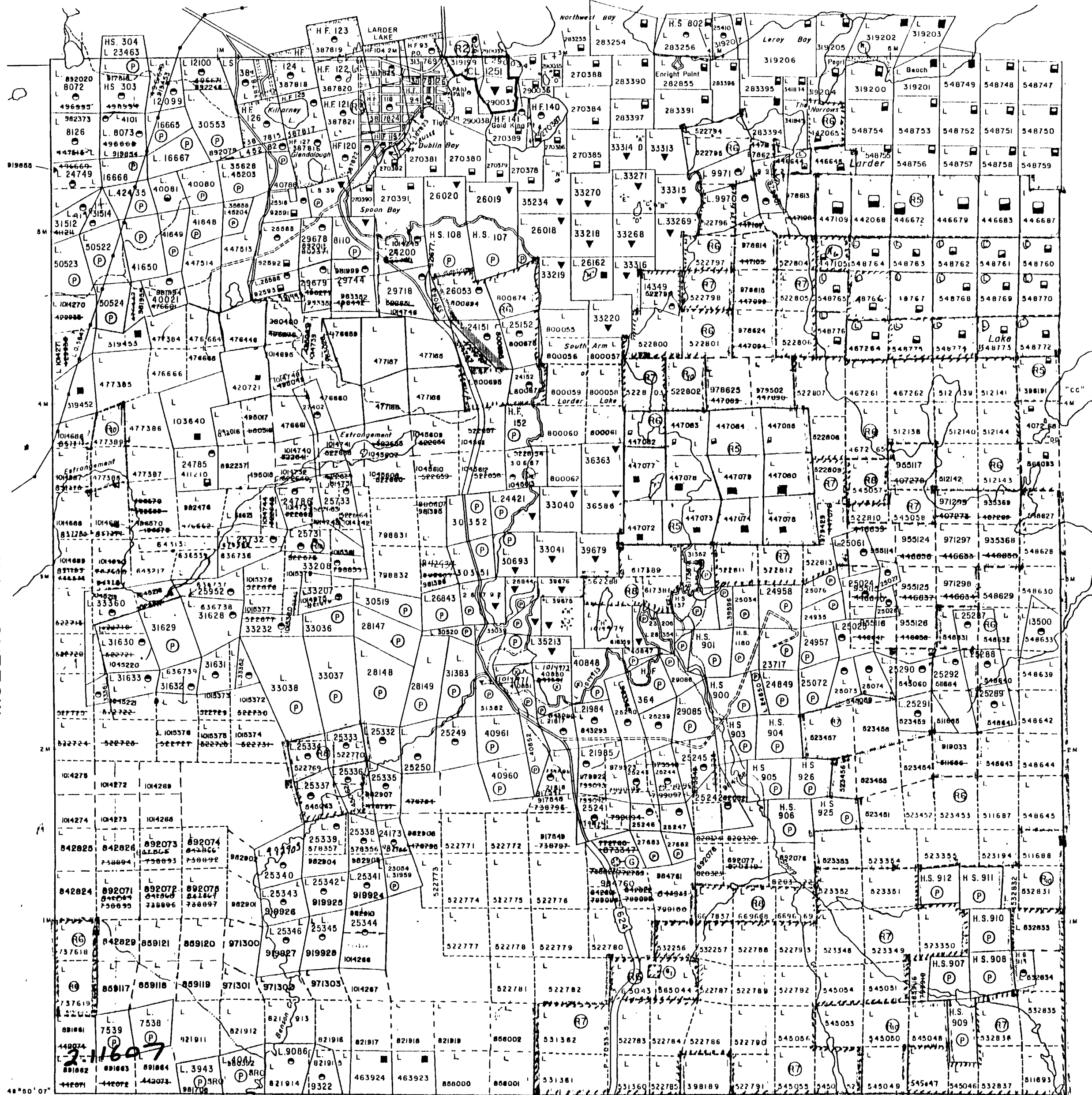
Township of Hearst lies entirely within the CORPORATION of the TOWNSHIP of LARDER LAKE. File 29282

Staking of mining claims within the Town of Larder Lake shown thus  subject to Sec. 37(b) of the Mining Act (RSO1970)

NOTICE OF FORESTRY ACTIVITY

THIS TOWNSHIP / AREA FALLS WITHIN THE TIMISKAMING MANAGEMENT UNIT AND MAY BE SUBJECT TO FORESTRY OPERATIONS. THE MNR UNIT FORESTER FOR THIS AREA CAN BE CONTACTED AT: P.O. BOX 129 SWASTIKA, ONT. POK ITO 705-642-3222

McVITTIE TWP.










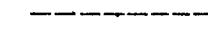


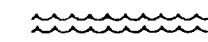
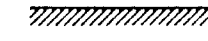
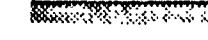
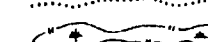


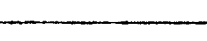
McELROY TWP.

McFADDEN TWP.












SKEAD TWP.



LEGEND

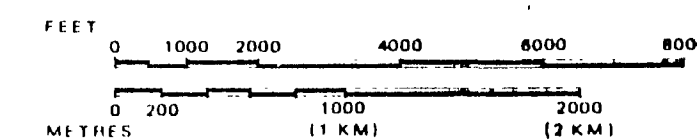
- HIGHWAY AND ROUTE No. 
- OTHER ROADS 
- TRAILS 
- SURVEYED LINES: TOWNSHIPS, BASE LINES, ETC. 
- LOTS, MINING CLAIMS, PARCELS, ETC. 
- UNSURVEYED LINES: LOT LINES 
- PARCEL BOUNDARY 
- MINING CLAIMS ETC. 
- RAILWAY AND RIGHT OF WAY 
- UTILITY LINES 
- NON-PERENNIAL STREAM 
- FLOODING OR FLOODING RIGHTS 
- SUBDIVISION OR COMPOSITE PLAN RESERVATIONS 
- ORIGINAL SHORELINE 
- MARSH OR MUSKEG 
- MINES 
- TRAVERSE MONUMENT 

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	
" SURFACE RIGHTS ONLY	
" MINING RIGHTS ONLY	
LEASE, SURFACE & MINING RIGHTS	
" SURFACE RIGHTS ONLY	
" MINING RIGHTS ONLY	
LICENCE OF OCCUPATION	
ORDER-IN COUNCIL	
RESERVATION	
CANCELLED	
SAND & GRAVEL	

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 6, 1913, VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT, R.S.O. 1970, CHAP. 380, SEC. 63, SUBSEC. 1.

SCALE: 1 INCH = 40 CHAINS



Replaced on Aug 19, 1987

TOWNSHIP

HEARST

M.N.R. ADMINISTRATIVE DISTRICT  
KIRKLAND LAKE  
MINING DIVISION  
LARDER LAKE  
LAND TITLES / REGISTRY DIVISION  
TIMISKAMING



Date FEBRUARY, 1985

Number

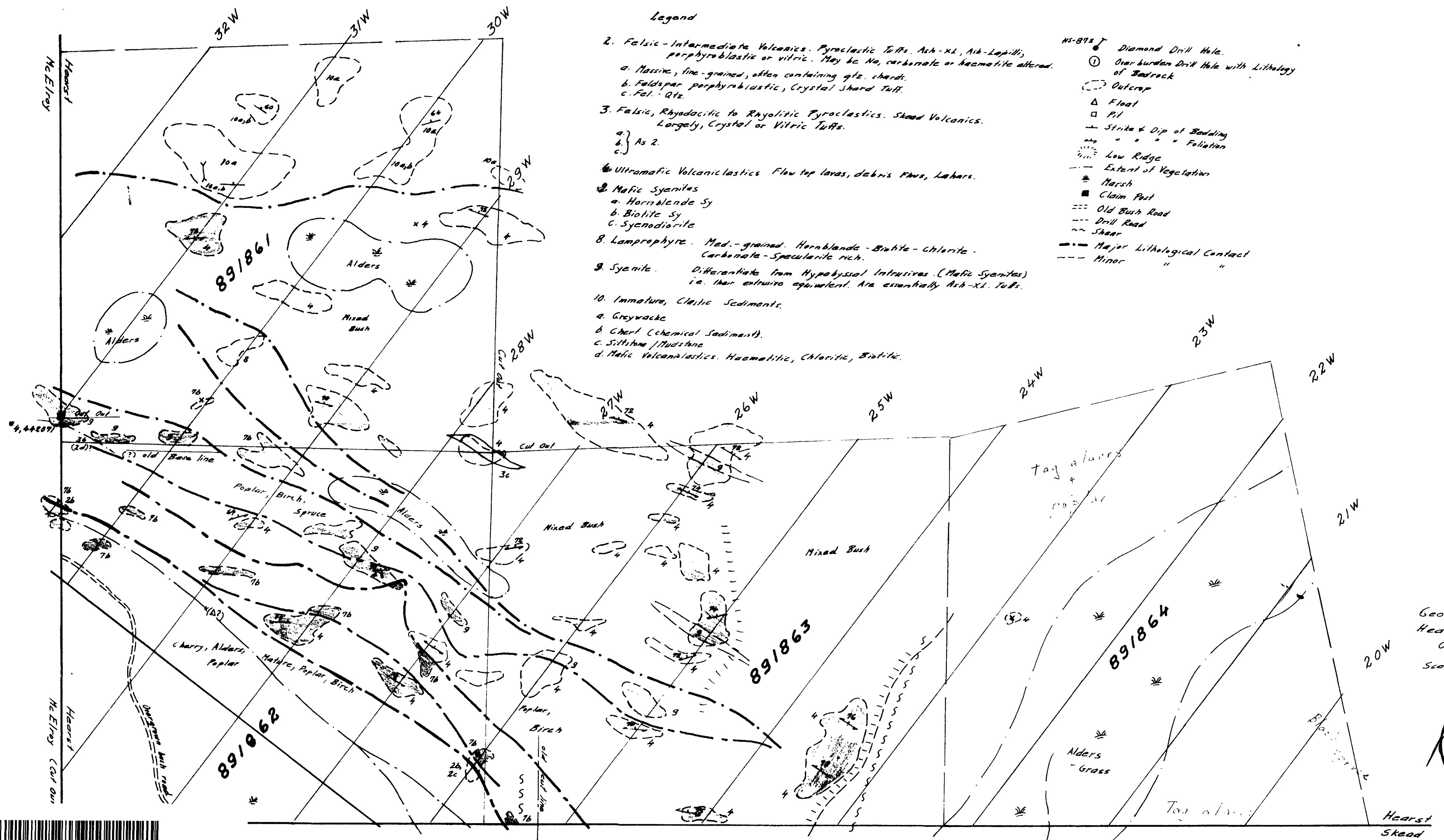
DATE OF ISSUE

G-3213

Legend

- 2. Felsic-Intermediate Volcanics. Pyroclastic Tuffs. Ash-XL, Ash-Lapilli, porphyroblastic or vitric. May be Na, carbonate or haematite altered.
  - a. Massive, fine-grained, often containing qtz. shreds.
  - b. Feldspar porphyroblastic, Crystal Shard Tuff.
  - c. Fel. - Qtz.
- 3. Felsic, Rhyodacitic to Rhyolitic Pyroclastics. Shaded Volcanics. Largely, Crystal or Vitric Tuffs.
  - a. As 2.
  - b. As 2.
- 4. Ultramafic Volcaniclastics. Flow top lavas, debris flows, Lahars.
- 5. Mafic Syenites
  - a. Hornblende Sy
  - b. Biotite Sy
  - c. Syenodiortite
- 8. Lamprophyre. Med.-grained. Hornblende - Biotite - Chlorite - Carbonate - Spicularite rich.
- 9. Syenite. Differentiate from Hypabyssal Intrusives. (Mafic Syenites) i.e. their extrusive equivalent. Are essentially Ash-XL Tuffs.
- 10. Immature, Clastic Sediments.
  - a. Greywacke
  - b. Chert (Chemical Sediment)
  - c. Siltstone / Mudstone
  - d. Mafic Volcaniclastics. Haematitic, Chloritic, Biotitic.

- MS-87x Diamond Drill Hole.
- Overburden Drill Hole with Lithology of Bedrock
- Outcrop
- Float
- Pit
- Strike & Dip of Bedding
- " " " " Foliation
- Low Ridge
- Extent of Vegetation
- Marsh
- Claim Post
- Old Bush Road
- Drill Road
- Shear
- Major Lithological Contact
- Minor " "



2.11607

Geology Survey  
Hearst Township  
Ontario  
Scale 1:2500

