



32D05NW0399 2.8563 HARKER

010

GEOLOGICAL SURVEY REPORT  
ON THE  
PERRON PROPERTY  
IRIS NORTH  
HARKER TOWNSHIP  
LARDER LAKE MINING DIVISION  
DISTRICT OF COCHRANE, ONTARIO

FOR

ALEXANDER H. PERRON

**RECEIVED**

OCT 24 1985

**MINING LANDS SECTION**

OCTOBER 11, 1985

MARY GREER  
GEOLOGICAL TECHNICIAN



32D05NW0399 2.8563 HARKER

010C

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ILLUSTRATIONS

Claim Location Map - (Figure 1 a). . . . . 2 a)

Location Map - (Figure 1 b). . . . . 2 b)

Accompanying Plan Map. . . . . In Back Pocket

Scale: 1 inch to 200 feet

Date: October 1985

IRIS NORTH

Geological Survey

Map No. 8P-IN-1

GEOLOGICAL SURVEY REPORT  
ON THE  
PERRON PROPERTY  
IRIS NORTH  
HARKER TOWNSHIP  
LARDER LAKE MINING DIVISION  
DISTRICT OF COCHRANE, ONTARIO

INTRODUCTION

The Iris Claim Group was recorded by Alexander H. Perron on August 19, 1984 for L-802701, and by William Scott on August 29, 1985 for claim L-802954.

The Iris North Group is part of a larger group consisting of staked and patented claims all owned by the Perrons'. In 1981 a geophysical grid was cut over the whole group including the two Iris North claims. In August of 1984 the lines were recut and freshened up and a geological survey was completed, describing topography and any visible outcrops.

The geological survey was completed by Mary Greer with students from Sir Sandford Fleming College assisting. All drafting and interpretation was completed by Mary Greer.

The purpose of this report is to briefly describe the results obtained in said survey.

The field work detected, is shown on the accompanying plan map, at a

scale of one inch to 200 feet, that forms an integral part of this report.

PROPERTY DESCRIPTION

The Iris North Group consists of two (2) contiguous unpatented mining claims located in Harker township, Larder Lake Mining Division, District of Cochrane, Ontario, and are further described as follows:

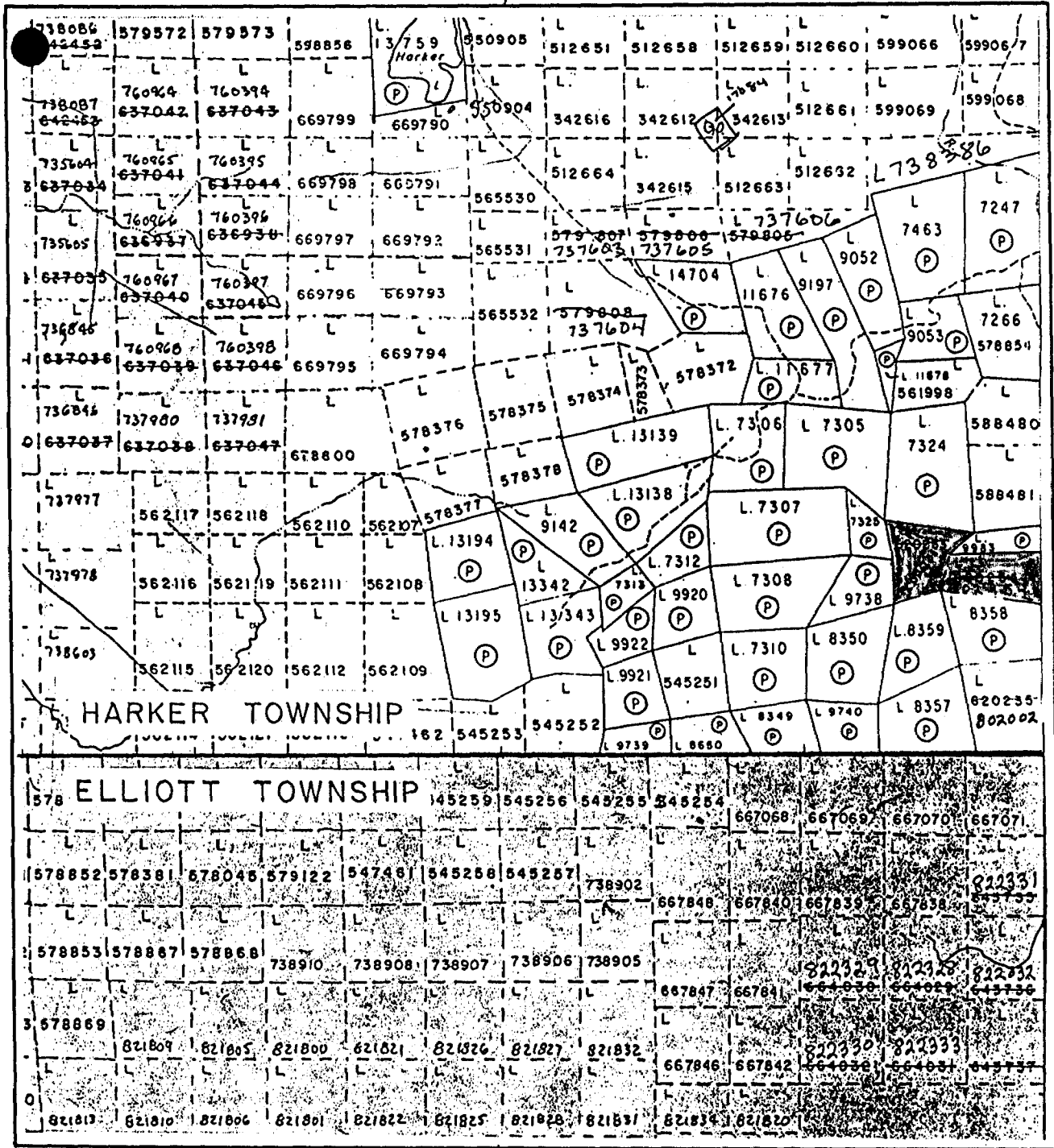
<u>Claim Number</u>	<u>Number of Claims</u>
L-802701	1
L-802954	1
Total number of claims	<u>2</u>

Ownership of the aforementioned unpatented mining claims has been attested to by Alexander H. Perron, of 103 Government Road East, Kirkland Lake, Ontario, and was not independently ascertained by the writer. (See Figure 1a and 1b).

LOCATION AND ACCESS

The Iris North Group is located in Harker township, along the Harker Holloway boundary approximately five (5) miles south of highway No. 101. Harker township is approximately thirty (30) miles due east of the town of Matheson, Ontario, along highway No. 101. Matheson is approximately forty (40) miles northeast of the town of Kirkland Lake, Ontario, via highway No. 66 and No. 11. (See Figure 1a and 1b).

The claims are accessible by forest access roads going south from the 101 highway.



Claim Location Map  
Scale: 1 inch to 1/2 mile

(Taken from a Jan. 1985 claim map)

Figure 1a



### PREVIOUS WORK

Extensive prospecting was carried out by A. J. Perron in the 1930's, consisting of trenching, pit work and diamond drilling. However, no known records are available.

### SURVEY PROCEDURE

The baseline is N 54° E and station 0 + 00 was established at a known location on the Perron Property, the No. 3 corner of patent claim L-9739, along the township line.

A grid system of picket lines at 400 foot spacings with stations every 100 feet was established at right angles to the baseline.

Outcrops were noted along the picket lines and compass and pace traverse lines connected outcrops in between lines, to tie them to the main grid.

### TOPOGRAPHY

The Iris North Group of claims are open bush with regeneration of poplar and alder due to previous logging operations. The area has been scarified and is flat with raspberry in the open areas and spruce and balsam fir on the outcrops.

### GENERAL GEOLOGY

The underlying bedrock of Harker township are of the Archean age belonging to the Abitibi greenstone belt of the Superior Province.

The bedrock is primarily basic to acidic lava flows, with the basic lava types being the most predominate. Lying between these lava flows are inter-



flow sedimentary bands of greywacke, arkose and some iron formation.

The Abibiti greenstone belt is part of a large synclinorium which trends east-west. The Destor-Porcupine fault occurs on the northern edge and the Kirkland-Larder Lake Break occurs on the southern edge.

#### ECONOMIC GEOLOGY

The neighbouring property to the north of Iris Gold is held by Harker Gold Mines and during the years 1924, 1925 and 1928, underground development of over 7,000 feet of drifting and cross-cutting was carried out on the number one vein.

The number one vein strikes N 58° E, dips 80° S and is roughly parallel to the surrounding basalt flows.

Exploration at that time was very active but due to poor accessibility, interest was lost. Harker township has only been active in recent years due to improved access roads and a new interest in the Destor-Porcupine Fault zone.

The gold deposits of the Harker area can be generalized in three ways; in sheared and fractured zones, in mineralized dykes; and in quartz veins, fillings and stock works.

The sheared and fractured zones are usually found in sediments, lavas and intrusives. The mineralization is usually pyrite and occasionally visible gold can be seen. The mineralized dykes can be carbonatized or silicified with or without quartz stringers. Some dyke types are lamprophyre, syenite porphyry and feldspar porphyry.

Many of the drill results and assays from the Iris Gold program are no longer available.

The gold assays from the number 2 showing are shown below.

Showing No. 2

	<u>Width of Samples</u>	<u>Description</u>	<u>Assays</u>
East Pit	8"	Quartz with 5% Pyrite	0.003 oz/ton
West Pit	7.5"	Quartz with 3% Pyrite	0.004 oz/ton

The new finds consist of five (5) parallel complex horizons of inter-flow sediments and fault zones which trend northeast-southwest through Holloway, Harker, Elliott and Thackeray townships.

Extensive diamond drilling programs in Holloway and Harker townships by Canamax and Barrick Resources are proving up large gold bearing zones.

A gold discovery was recently found along the Ghostmount sedimentary horizon, only two (2) miles northeast along strike of the Perrex property.

The same zones found along strike to the southwest of the Perrex property are being found in Thackeray township by Kerr Addison Mines.

The newly discovered zones have potential economic gold tonnage and future full scale mining operations are being proposed.

PRESENTATION OF FIELD RESULTS

The field data is presented on a map at a horizontal scale of one inch to 200 feet, Map No. 85-IN-1, found in the back pocket of this report.

For the purpose of this presentation, refer to the accompanying plan map for outcrop locations. The topography will be described in greater detail.

i) Topography:

All of claim L-802701 is covered by open areas of decayed birch and scattered poplar with regeneration of scattered alder. Most of the claim is raspberry and mountain maple.

Small areas of spruce and birch were found, particularly along the winter road that crosses the claim. The north west boundary touches the edge of a large area of spruce, poplar and birch bush.

The western half of claim L-802954 has the same topographical characteristics as L-802701. The eastern half has a high hill of outcrop with spruce and poplar. The area occurring right along the township line is heavy mountain maple with poplar and raspberry.

ii) Geology:

Two rock types were found. The largest rock type found was a basic lava with pillow structures, diabasic texture and fragmental lava. A small outcrop of a felsic origin was also found.

The felsic rock can be classified as a rhyolite. It was found

to weather greyish white and was difficult to break. The rock was a dark grey colour, very massive with a poor conchoidal fracture. Some amygdaloids were noted containing carbonate and quartz. The amygdaloids were elipical in shape and varied in size from 1 to 4 mm.

The basic volcanics found faced south and occurred as a dark greenish grey rock and showed textural differences such as pillows, diabasic and fragmental flows.

The pillows appear to be interbedded although this was difficult to see, spherulitic texture was noted in the pillows.

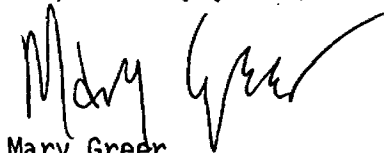
The diabasic flows found showed typical structure, being ophitic texture, black greenish grey rock and weathering a dull rusty brown.

#### CONCLUSIONS AND RECOMMENDATIONS

New interest has been given to the interbedded sediments found across Harker township. There may possibly be some associations between gold and the rhyolitic flows. It has been found that gold can occur associated primarily with silicified basalt with disseminated pyrite.

It is recommended that a target area be stripped off and further studied. The proposed areas could be located by conducting geophysical surveys.

Respectfully yours,



Mary Greer  
Geological Technician

October 11, 1985

BIBLIOGRAPHY

- Sixtieth Annual Report of the Ontario Department of Mines.  
being Vol. LX, Part VII, 1951.
  
- Plan of Goodfish Mining Company Limited.  
Lightning River Area showing Geology and Workings of North Portion.  
Drafted by R. Storen,  
Kirkland Lake, Ontario N.  
November, 1947
  
- Map No. 28b Ontario Department of Mines,  
Geology by T.L. Gledhill 1924.  
Part of the Lightning River Area,  
District of Cochrane, Ontario

C E R T I F I C A T E

I, Mary Greer, of Kirkland Lake, Ontario, do hereby certify:

- 1) That I am a Geophysical Technician and reside at:  
49 McKelvie Avenue, Kirkland Lake, Ontario, P2N 2K6
- 2) That I graduated from Sir Sandford Fleming College at  
Lindsay, Ontario, in 1978, with a diploma as a Geological  
Technician.
- 3) That I was employed as a Geophysical Technician by H.E.  
Neal and Associates Limited for 18 months.
- 4) That I have been practising my profession for a period  
of five (5) years and I am qualified to write this report.
- 5) That I supervised and participated in this survey.

October 21 / 85  
Date

Mary Greer  
Mary Greer  
Geophysical Technician









**GEOPHYSICAL TECHNICAL DATA**

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

Number of Stations 62 Number of Readings \_\_\_\_\_  
Station interval 100 Line spacing 400  
Profile scale \_\_\_\_\_  
Contour interval \_\_\_\_\_

**MAGNETIC**

Instrument \_\_\_\_\_  
Accuracy – Scale constant \_\_\_\_\_  
Diurnal correction method \_\_\_\_\_  
Base Station check-in interval (hours) \_\_\_\_\_  
Base Station location and value \_\_\_\_\_  
\_\_\_\_\_

**ELECTROMAGNETIC**

Instrument \_\_\_\_\_  
Coil configuration \_\_\_\_\_  
Coil separation \_\_\_\_\_  
Accuracy \_\_\_\_\_  
Method:  Fixed transmitter  Shoot back  In line  Parallel line  
Frequency \_\_\_\_\_  
(specify V.L.F. station)  
Parameters measured \_\_\_\_\_

**GRAVITY**

Instrument \_\_\_\_\_  
Scale constant \_\_\_\_\_  
Corrections made \_\_\_\_\_  
\_\_\_\_\_  
Base station value and location \_\_\_\_\_  
\_\_\_\_\_  
Elevation accuracy \_\_\_\_\_

**SELF POTENTIAL**

Instrument \_\_\_\_\_ Range \_\_\_\_\_

Survey Method \_\_\_\_\_

Corrections made \_\_\_\_\_

**RADIOMETRIC**

Instrument \_\_\_\_\_

Values measured \_\_\_\_\_

Energy windows (levels) \_\_\_\_\_

Height of instrument \_\_\_\_\_ Background Count \_\_\_\_\_

Size of detector \_\_\_\_\_

Overburden \_\_\_\_\_

(type, depth – include outcrop map)

**OTHERS (SEISMIC, DRILL WELL LOGGING ETC.)**

Type of survey \_\_\_\_\_

Instrument \_\_\_\_\_

Accuracy \_\_\_\_\_

Parameters measured \_\_\_\_\_

Additional information (for understanding results) \_\_\_\_\_

**AIRBORNE SURVEYS**

Type of survey(s) \_\_\_\_\_

Instrument(s) \_\_\_\_\_

(specify for each type of survey)

Accuracy \_\_\_\_\_

(specify for each type of survey)

Aircraft used \_\_\_\_\_

Sensor altitude \_\_\_\_\_

Navigation and flight path recovery method \_\_\_\_\_

Aircraft altitude \_\_\_\_\_ Line Spacing \_\_\_\_\_

Miles flown over total area \_\_\_\_\_ Over claims only \_\_\_\_\_

GEOCHEMICAL SURVEY – PROCEDURE RECORD

Numbers of claims from which samples taken \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Total Number of Samples \_\_\_\_\_

Type of Sample \_\_\_\_\_  
(Nature of Material)

Average Sample Weight \_\_\_\_\_

Method of Collection \_\_\_\_\_  
\_\_\_\_\_

Soil Horizon Sampled \_\_\_\_\_

Horizon Development \_\_\_\_\_

Sample Depth \_\_\_\_\_

Terrain \_\_\_\_\_  
\_\_\_\_\_

Drainage Development \_\_\_\_\_

Estimated Range of Overburden Thickness \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**SAMPLE PREPARATION**

(Includes drying, screening, crushing, ashing)

Mesh size of fraction used for analysis \_\_\_\_\_  
\_\_\_\_\_  
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General \_\_\_\_\_  
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**ANALYTICAL METHODS**

Values expressed in: per cent   
p. p. m.   
p. p. b.

Cu, Pb, Zn, Ni, Co, Ag, Mo, As, (circle)

Others \_\_\_\_\_

Field Analysis (\_\_\_\_\_ tests)

Extraction Method \_\_\_\_\_

Analytical Method \_\_\_\_\_

Reagents Used \_\_\_\_\_

Field Laboratory Analysis

No. (\_\_\_\_\_ tests)

Extraction Method \_\_\_\_\_

Analytical Method \_\_\_\_\_

Reagents Used \_\_\_\_\_

Commercial Laboratory (\_\_\_\_\_ tests)

Name of Laboratory \_\_\_\_\_

Extraction Method \_\_\_\_\_

Analytical Method \_\_\_\_\_

Reagents Used \_\_\_\_\_

General \_\_\_\_\_  
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\_\_\_\_\_



103 GOVERNMENT ROAD EAST - KIRKLAND LAKE, ONTARIO - P2N 1A9 - (705) 567-7057

October 11, 1985

REGISTERED MAIL

Mr. Fred Matthews,  
Lands Administration Branch,  
Mining Lands Section,  
Ministry of Natural Resources,  
Room 6450, Whitney Block,  
Queen's Park,  
Toronto, Ontario  
M7A 1W3

Dear Sir:

RE: Geological Survey Report for  
Harker Township  
Larder Lake Mining Division

Enclosed herewith please find a duplicate copy of the following:

- Report dated October 11, 1985, by Mary Greer entitled:

Geological Survey Report  
Perron Property  
Iris North  
Harker Township  
Larder Lake Mining Division  
District of Cochrane, Ontario

I trust this is the information required to correspond with the Report of Work filed concerning the above noted township.

Yours truly,

PERRONS

Mary Greer  
Geological Technician

MG/p  
Encls.

**RECEIVED**

OCT 24 1985

**MINING LANDS SECTION**

*in file -  
mail Oct. 21st  
Mary Greer  
called*

REGISTERED

October 16, 1985

Report Of Work#305

Alex H. Perron  
103 Government Road East  
Kirkland Lake, Ontario  
P2N 1A9

Dear Sir:

RE: Mining Claims L 802701 & L 802954 in  
Harker Township

I have not received the reports and maps (in duplicate)  
for the Geological Survey on the above-mentioned claims.

As the assessment "Report of Work" was recorded by the  
Mining Recorder on August 27, 1985 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 October 26, 1985.

If the material is not submitted to this office by October 26,  
1985 I will have no alternative but to instruct the Mining  
Recorder to delete the work credits from the claim record  
sheets.

For further information, please contact Mr. Arthur Barr  
at (416)965-4888.

Yours sincerely,

S.E. Yundt  
Director  
Land Management Branch

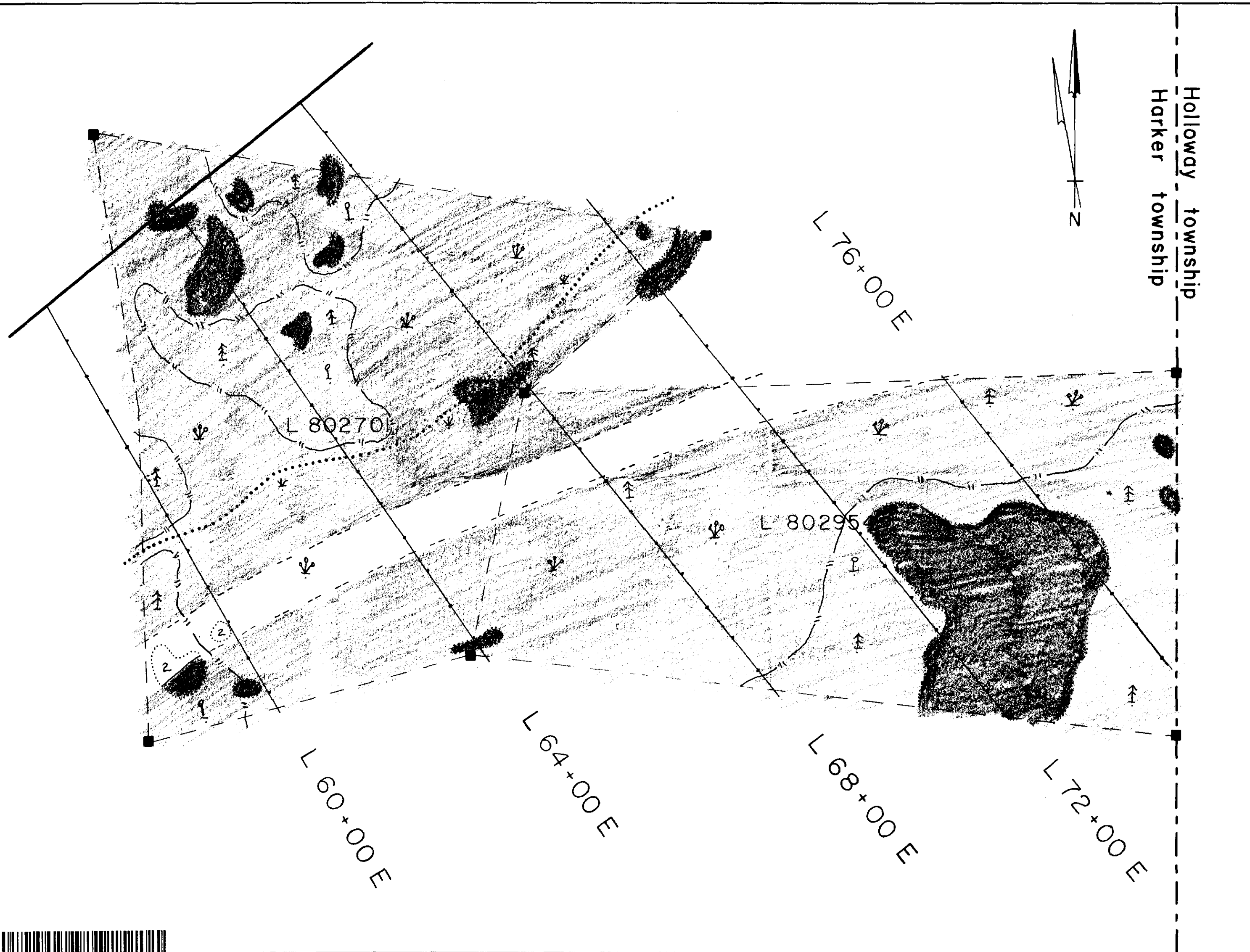
Whitney Block, Room 6643  
Queen's Park  
Toronto, Ontario  
M7A 1W3  
Phone:(416)965-4888

AB/mc

cc: Mary Greer  
49 McKelvie Avenue  
Kirkland Lake, Ontario  
P2N 2K6

Mining Recorder  
Kirkland Lake, Ontario





**SYMBOLS**

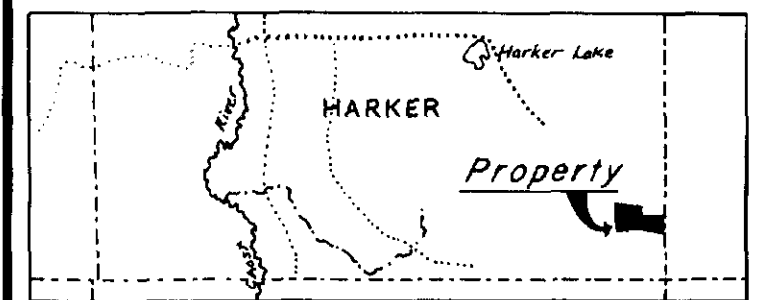
- Outcrop
- ☀ Higher ground
- Forest boundary
- 🌳 Alder, raspberry
- 🌲 Poplar, birch scrub bush
- 🌲 Spruce, balsam fir
- Claim line
- Claim post
- ⋯ Access road
- 🌋 Pillow lava
- 🌊 Wet swamp

**LEGEND**

- QUATERNARY**
- PLEISTOCENE**  
Clays, till, sand & gravel
- PRECAMBRIAN**
- VOLCANICS**
- 2 Rhyolite
  - Basalt, andesite, showing pillow lava, fragmental lava

**KEY MAP**

(Scale: 1 inch 2 miles)



*Mary Greer*

**IRIS 2 NORTH**

**GEOLOGICAL SURVEY**

28563  
HARKER TOWNSHIP  
LARDER LAKE MINING DIVISION  
DISTRICT OF COCHRANE, ONTARIO

200 0 200 400  
Scale: 1 inch to 200 feet

**PERRONS'**

*Kirkland Lake Canada*

Drawn by: Mary Greer No.: 85-JN-1 Date: October 1985

