

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



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ILLUSTRATIONS

Claim Location M	p - (Figure 1 a)	a)
Location Map	- (Figure 1 b)2	b)
Accompanying Pla	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:

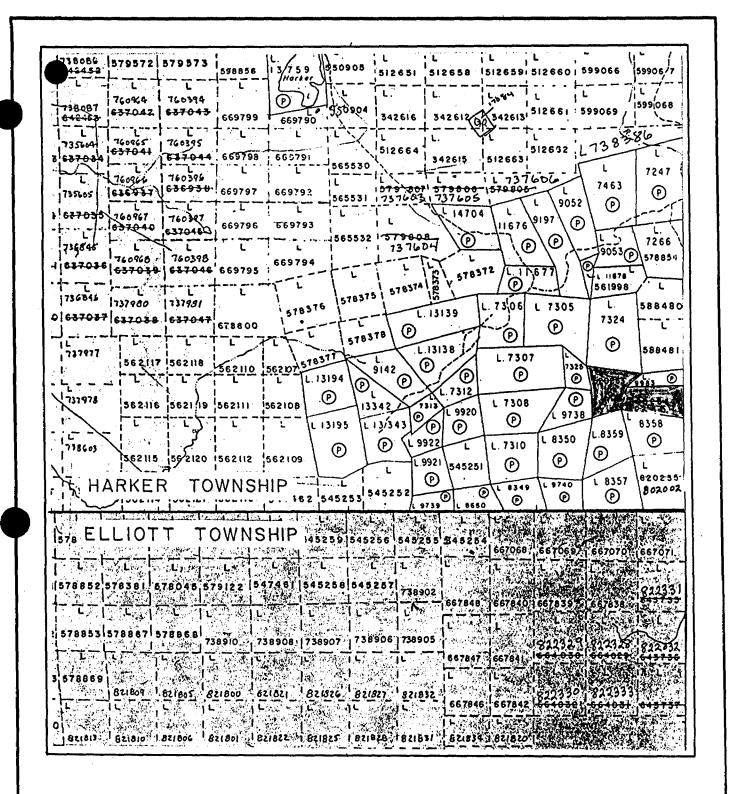
Claim Number	Number of Claims
L-802701	. 1
L-802954	
Total number of claims	2

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

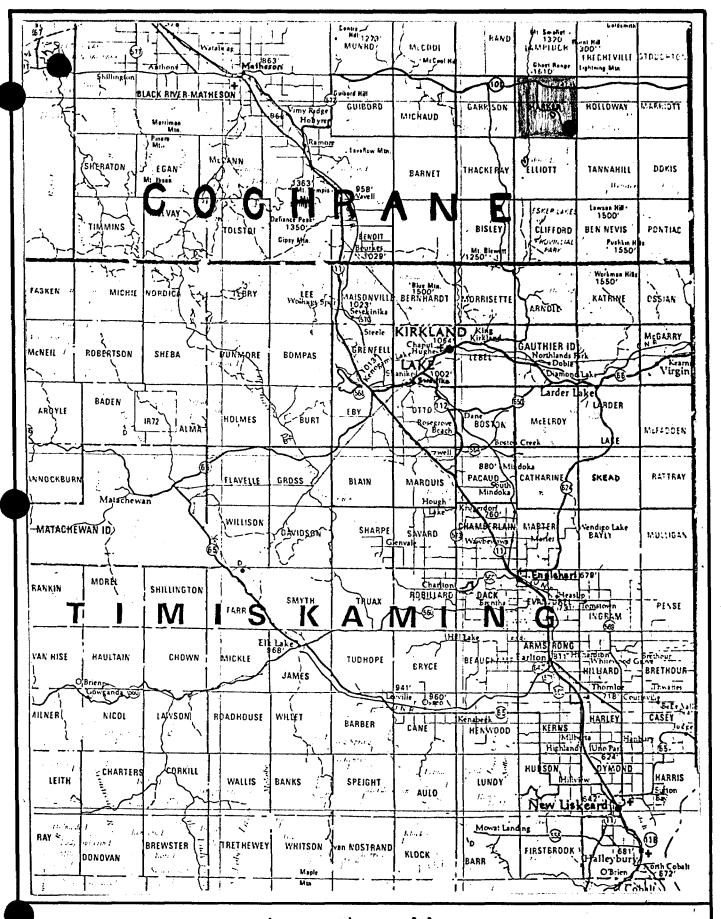
The Iris North Group is located in Harker township, along the Harker Holloway boundary approximately five (5) miles south of highway No. 101. Harker township is approximately thirty (30) miles due east of the town of Matheson, Ontario, along highway No. 101. Matheson is approximately forty (40) miles 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: linch to 1/2 mile



Location Map
Niles 10 0 10 20 Figure 1b

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 accessability, 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

	Width of Samples	<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 interflow 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 V 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.

 <u>Lightning River Area showing Geology and Workings of North Portion.</u>

 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

CERTIFICATE

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

Geophysical Technician



Report of Work AMENDED REPORT (Geophysical, Geological, Geochemical and Expenditures#305



900

Type of Survey(s) CEOLOGICAL				Township or Area HARKER							
GEOLOGICAL Ciaim Holder(s)				Prospector's Licence No. K-19026							
ALEX H. PERRI							- 	302.0			
103 GOVERNME	NT ROAD EAST	, KIR	KLA	IND L	Date of Survey	(from & to)		Total Miles of lin	ne Cut		
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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 herebo, having performed the work or witnessed same during and/or after its completion and the annexed report is true.											
or witnessed same during and		and the ar	шехе	a report	s true.						
MARY GREER	MARY GREER, 49 MCKELVIE AVE., KIRKLAND LAKE, ONT. P2N 2K6										
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I hereby certify that I have a or witnessed same during and	personal and intimate k	nowledge o	f the facts set	f s	•	nexed hereto,	having performe	d the work
Name and Postal Address of Par	son Certifying				المستند			
MARY GREER,	49 MCKELVIE	AVE.	KIRKL	AND LAKE.	UNI	2N 2K6	by (Signatura)	
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Ministry of Natural Resources

GEOPHYSICAL – GEOLOGICAL – GEOCHEMICAL TECHNICAL DATA STATEMENT

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.

Township or Area HARKER Claim Holder(s) ALEXANDER 103 GOV'T RD Survey Company PERRONS Author of Report MARY GREE	IE AVE, KIRKLAND LAKE, ONT -85 TO 24-08-85 P2N 2K6 (linecutting to office)	MINING CLAIMS TRAVERSED List numerically L- 802701 (prefix) (number) L- 802954
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	
MagnetometerElectromag (enter) DATE: October 2 8 sign.	sion credits do not apply to airborne surveys) netic Radiometric days per claim) ATURE: Author of Report or Agent fications 24529	
File No. Type Date	Claim Holder	TOTAL CLAIMS 2

OFFICE USE ONLY

GEOPHYSICAL TECHNICAL DATA

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

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Elevation accuracy

SELF POTENTIAL	
	Range
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 LO	GGING ETC.)
Type of survey	
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Additional information (for understandi	ing results)
AIRBORNE SURVEYS	
Type of survey(s)	
Instrument(s)	
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Accuracy	(specify for each type of survey)
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	Line Spacing
	Over claims only

GEOCHEMICAL SURVEY - PROCEDURE RECORD

Numbers of claims from which samples taken		
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Method of Collection.	Cu, Pb, Zn, Ni, Co,	Ag, Mo, As,-(circle)
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Horizon Development	Field Analysis (tests)
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Terrain	Analytical Method	
	Reagents Used	· · · · · · · · · · · · · · · · · · ·
Drainage Development	Field Laboratory Analysis	
Estimated Range of Overburden Thickness	No. (tests)
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	• • • • • • • • • • • • • • • • • • •	
		<u> </u>



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 IW3

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

RECEIVED

OCT 2 4 1985

MINING LANDS SECTION

Mary Greer Geological Technician

MG/p Encls.

most Opt 2 last

REGISTERED

October 16, 1985

Report Of Work#305

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

Dear Sir:

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

Mining Lands Section

File No 2.8563

Control Sheet

TYPE OF SURVEY	GEOPHYSICAL
	GEOLOGICAL
	GEOCHEMICAL
	EXPENDITURE
	•
MINING LANDS COMMENTS:	
	< Harker>
1 ad	
Lg .	Domo K.
	Signature of Assessor
•	00-04/85

Date

