



32D12SE0037 2.5208 HOLLOWAY

010

REPORT ON
GEOLOGICAL SURVEY AND LINE CUTTING

PERFORMED ON

101 CLAIM GROUP
HOLLOWAY TOWNSHIP

LARDER LAKE MINING DIVISION
MATHESON AREA, ONTARIO

RECEIVED

NOV 24 1982

MINING LANDS SECTION

FOR

H. E. NEAL

BY

CHRIS CURRY B.Sc.

H. E. NEAL & ASSOCIATES LTD.

TORONTO - CANADA

October 1982



010C

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1.0 SUMMARY:

H.E. Neal & Associates Ltd. were contracted to conduct a geological survey over the 101 group of claims in Holloway Township by Mr. H.E. Neal. The survey was conducted on a grid cut by the Jean Alix Company Ltd. during March, 1982.

Less than 2% of the claim group is covered by outcrop resulting in a heavy reliance on magnetometer data for a geological interpretation. All outcrops occur south of the Mattawasaga River.

A geological interpretation shows that the rocks trend in a northeast direction as bands. From north to south they include sediments, mafic to ultramafic volcanics and intermediate to mafic volcanics.

No quartz/carbonate veining was observed.

The area has potential for gold mineralization. Two areas of potential interest have been identified. The first area in the northwestern portion of the property was identified because of possible structure and gold values obtained from previous drilling.

The second area located in the south-central area of the property was identified from a combination of potential structure and lithology and from gold values obtained from previous drilling.

2.0 INTRODUCTION:

H.E. Neal & Associates Ltd. were contracted to conduct a geological survey over 10 claims held by Mr. H.E. Neal in Holloway Township. All 10 claims are being submitted for assessment credits.

The Jean Alix Company Ltd. was sub-contracted to cut and chain 10.4 miles of lines which included an east-west baseline 9,000 feet in length. Cross lines were cut every 400 feet.

The geological survey was conducted by one geologist during part of August, 1982.

3.0 THE PROPERTY:

The property consist of 10 contiguous claims in Holloway Township.

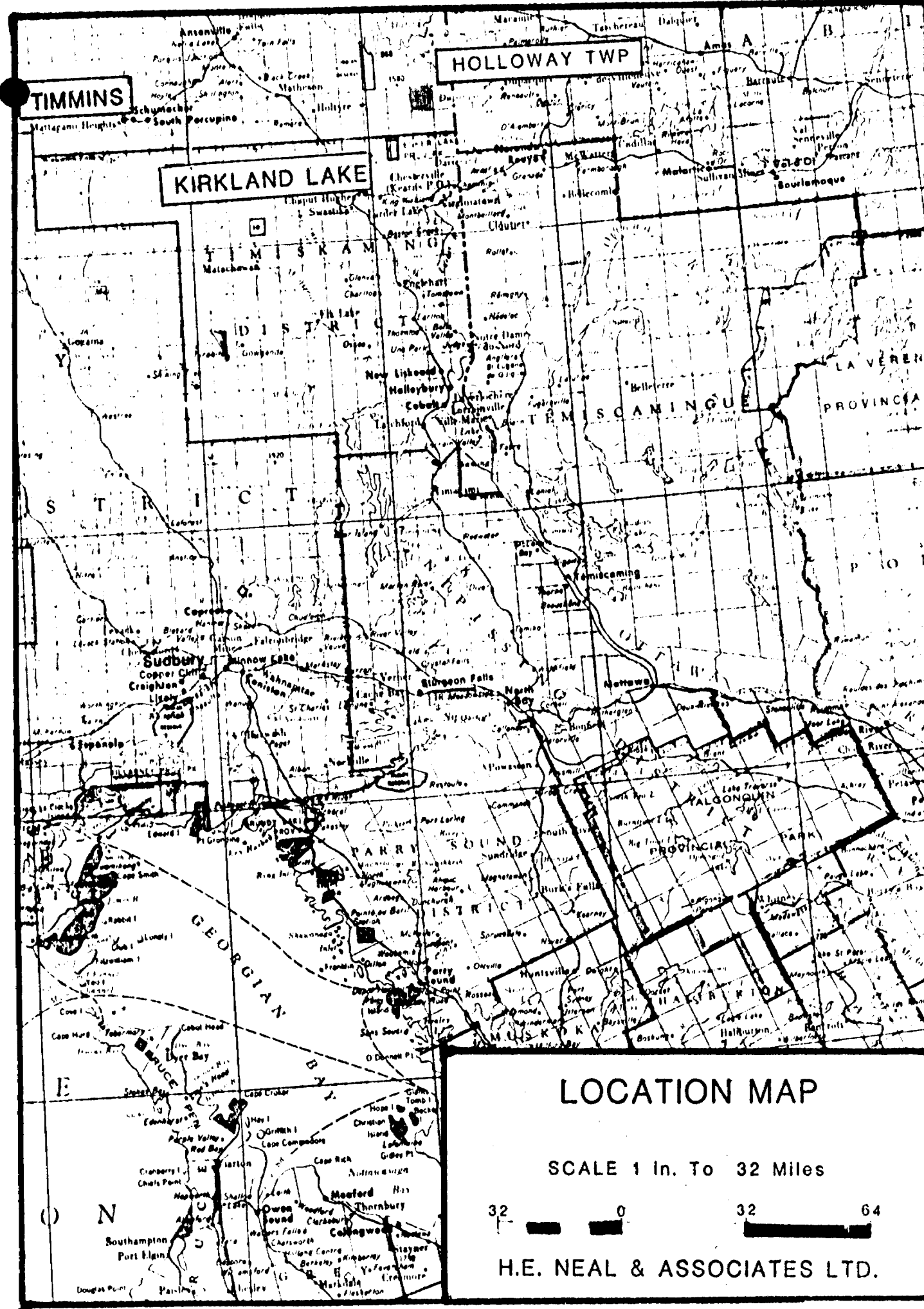
The claims are held by H.E. Neal, 124 Roxborough Drive, Toronto, Ontario.

The claims are listed below:

L598637 to L598646 inclusive.



H E NEAL & ASSOCIATES LTD.



TIMMINS

HOLLOWAY TWP

KIRKLAND LAKE

MUSKOKA DISTRICT

STRICKLAND

Sudbury

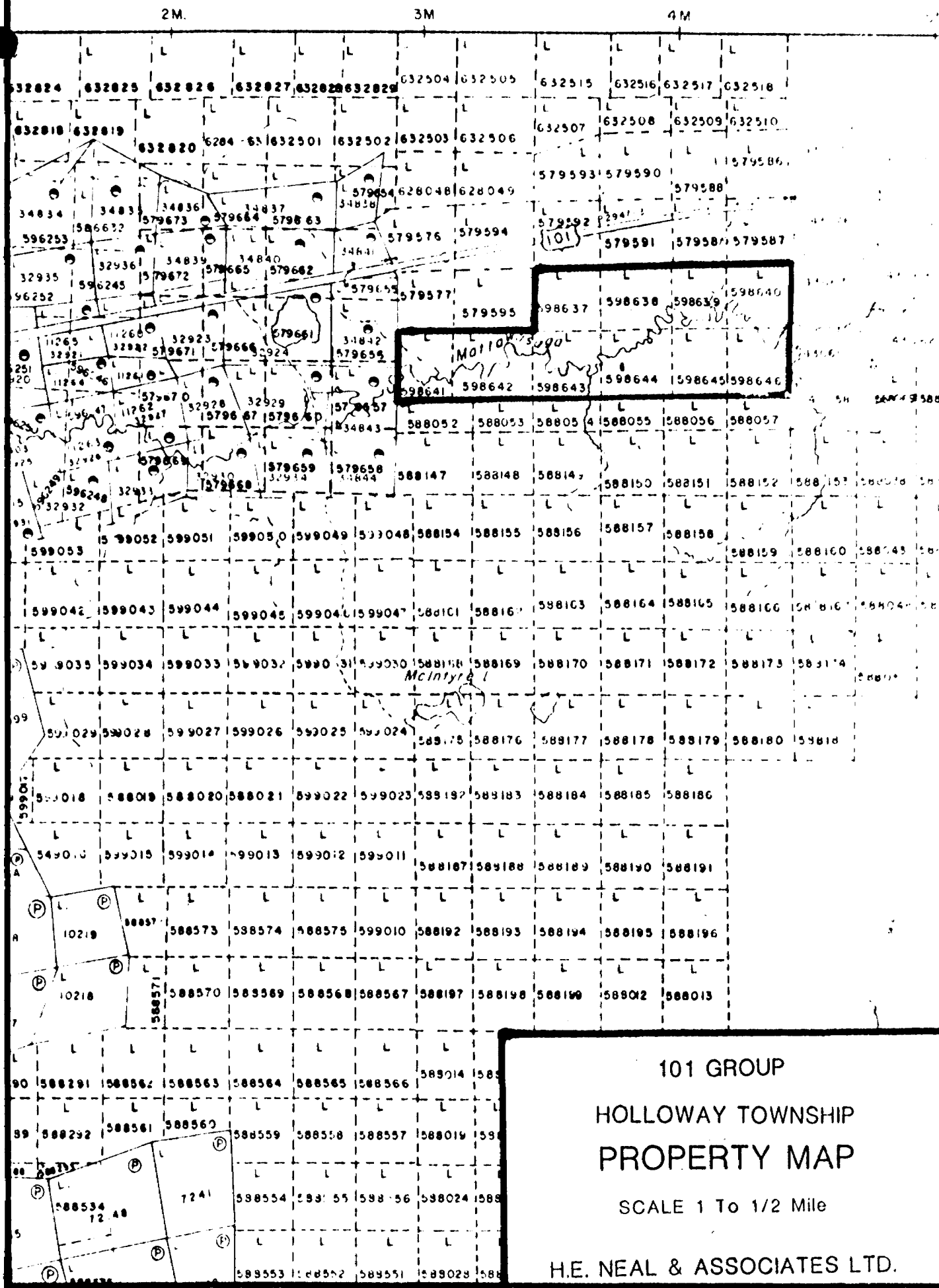
PARRY SOUND DISTRICT

LOCATION MAP

SCALE 1 in. To 32 Miles



H.E. NEAL & ASSOCIATES LTD.



101 GROUP
 HOLLOWAY TOWNSHIP
 PROPERTY MAP
 SCALE 1 To 1/2 Mile
 H.E. NEAL & ASSOCIATES LTD.

4.0 LOCATION AND ACCESS:

The 10 claims are located on Holloway Township, District of Cochrane, in the Larder Lake Mining Division.

The west side of the claim group is located 26 miles north-east of the town of Holtyre.

Access to the property is east along Highway 101 to Holloway Lake in Holloway Township. The claims are located 700' south of the Highway at this point and are accessible by foot.

5.0 PREVIOUS WORK:

1949 - Lobanor Gold Mines Limited drilled 5 diamond drill holes totalling 5,129 feet. Four were drilled on claims held by H.E. Neal.

1960 - Revere Mining Corporation Ltd. conducted ground magnetic and electrical resistivity surveys over claims held by them. Work also included 7 drill holes totalling 3,121 feet. This work also included claims now held by H.E. Neal.

1952 - J. Satterly from the Ontario Department of Mines mapped the northern part of Holloway Township which also includes the H.E. Neal claims.

1982 - H.E. Neal & Associates Ltd. conducted ground magnetometer and VLF-EM surveys over the entire claim group area.

6.0 LINE CUTTING:

The Jean Alix Company Ltd. of Val D'Or, Quebec, was sub-contracted to cut and chain 10.4 miles of picket lines which included an east-west baseline 9,000 feet in length. Cross lines were cut every 400 feet perpendicular to the baseline. The work was completed during March, 1982.

7.0 GEOLOGY:

7.1 General Geology

The rocks in Holloway Township are Archean in age and belong to the Abitibi Sub-Province of the Superior Province. The rocks are mainly Keewatin andesite and basalt with some interflow sediment. A wide band of sediments occurs roughly parallel to Highway 101 across the township. The northwestern part of the township is underlain by mafic to ultramafic intrusives that make up part of the Ghost Range Syncline.

The rocks face south and dip south at 80° or steeper. The rocks generally trend east north-east.

The major structural feature in the township is the Destor Porcupine Fault Zone which is roughly parallel to and in the vicinity of Highway 101. Some cross faulting does occur in the township but is usually obscured by extensive overburden.

The overburden covers approximately 80% of the township and has reported thickness up to 150'.

A table of formations from Satterly (1953) is shown on the following page:

TABLE OF FORMATIONS

CENOZOIC

REGENT: Peat; stream deposits.
PLEISTOCENE: Sand, Gravel, Boulders; varved clay.

Great unconfirmity

PRECAMBRIAN

KEWEENAWAN: Quartz diabase
Intrusive contact

MATACHEWAN: Quartz diabase, diabase.
Intrusive contact

ALGOMAN: Feldspar porphyry; felsite; lamprophyre.
Intrusive contact

PRE-ALGOMAN: Diabase, gabbro; peridotite and dunite (serpentinized);
pyroxenite.
Intrusive contact

KEEWATIN:

Volcanics: (Rhyolite; rhyolite agglomerate and tuff.
(Andesite, basalt; pillow lava; diabasic lava;
(spherulitic lava; fragmental lava (flow breccia
(or agglomerate); tuff and chert; talc-chlorite
(schist; carbonate-chlorite schist.

Faulted contact

Sediments: Greywacke, slate; conglomerate, iron formation.

J. Satterly (1953).

7.2 Geology of the Claim Group

Less than 2% of the claim group area is exposed by outcrop all of which occurs south of the Mattawasaga River. This has resulted in a heavy reliance upon the magnetic data to produce a geological interpretation.

Outcrop is generally confined to the south-eastern half of the property. All of the outcrops form steep ledges.

The rocks are comprised of pillowed to massive intermediate volcanics with one occurrence of flow breccia or agglomerate. The rocks strike to the northeast and exhibit steep dips to the south.

From outcrop and drill hole evidence it appears that the low magnetics underlying the southern half of the claim group are due to intermediate and mafic volcanics. The small magnetic high on lines 72E and 76E in claim L598645 is likely a small mafic intrusion.

North of these, two close spaced, parallel bands of magnetic highs occur. The bands are probably due to mafic to ultramafic flows and/or sills that are common in the area.

A band of low magnetics occurs at the extreme north of the claim group area. This is probably produced by sediments, the southern contact of which might be the Destor Porcupine Fault Zone or the Ghostmount Fault. These are the two major strike faults in the Township. The

sediments are thought to be sheared and probably lie within the Destor Porcupine Fault Zone.

7.2.1 Pillowed Lavas

Pillowed basalt or andesite is the most common rock type that occurs in outcrop. It generally forms precipitous outcrops commonly with convoluted surfaces and weathers to a light brown or brownish grey.

Fresh the rock is greenish grey, very fine grained and weakly to non-magnetic. Sulphides in the form of pyrite and pyrrhotite are very fine grained and widely disseminated. Quartz filled amygdules are common locally as are quartz filled radiating fracture patterns within the pillows. The pillows range in size from approximately one foot to greater than 3.5 feet in diameter. Pillow rims are generally a light grey colour, approximately $\frac{1}{2}$ to $\frac{3}{4}$ inch in diameter, and may be impregnated with quartz/calcite. A vuggy appearance on the weathered surface is probably due to weathered calcite.

Pillow tops face southeast and possess steep dips of approximately 85° .

Fractures meander along pillow boundaries but generally occur at 146° - 152° / 46° - 63° NE and 69° - 78° / 54° - 64° SE.

7.2.2 Massive Basalt/Andesite

With the exception of a massive appearance this rock closely resembles

the pillowed lavas. The rock is fine grained although generally coarser grained than the pillowed lavas and contains pyrite crystals up to 1/8" in diameter. Pyrite is not abundant. The rock is a light bluish green, weathers to a tan or light brown colour and is weakly to moderately magnetic. Contact between the massive and pillowed lavas were not observed. Fracturing was observed as follows:

72°-89°/75°-77° SE, 167°-176°/32°-72° NE and
128°-139°/62°-69° NE.

7.2.3 Agglomerate or Flow Breccia

Only observed in one location this unit is positioned between massive and pillowed lavas. The rock contains monomictic angular, unorientated fragments attaining ten inches in diameter, although averaging one to two inches. Fresh, the unit is bluish grey but weathers to a light brown. Sulphides are absent. A width of at least five feet was observed.

The unit's position between massive and pillowed lavas suggests it could be a flow top breccia. However, the lack of oriented fragments and a small percentage of matrix suggests an agglomerate.

7.3 Structure

From the geological interpretation it appears that two major directions of faulting have occurred. These strike in a NE-SW and NW-SE direction

and correlate well with the 146° - 152° / 46° - 63° NE and 69° - 78° / 54° - 64° SE fracture directions observed in outcrop.

A third fracture direction bisects the previous two and strikes northwest at approximately 96° .

A fault striking roughly north-south may occur on L68E south of the Mattawasaga River. However, the presence of granitic intrusives in local drill holes suggests the deep embayment within the low magnetics may be caused by a small granitic stock. If so, the presence of gold mineralization in nearby drill holes is very encouraging.

All the aforementioned faults would appear to bisect the Destor Porcupine Fault. No evidence of the Destor Porcupine Fault is apparent from either the geology or geophysics. Magnetically the fault would be difficult to recognize as it parallels the adjacent magnetic location. Secondly the zone is thought to pass just to the north of the property.

7.4 Comparison With the VLF-EM Data

Comparison of the geological and magnetic data with the VLF-EM data suggests that outcrops are responsible for conductors H-2 and H-5. Conductors H-3 and H-6 may be the result of conductive overburden or some other buried topographical feature. Conductor H-1 may represent the geological contact between sediments and mafic to ultramafic rocks. It may also represent the southern boundary of the Destor Porcupine Fault zone or the Ghostmount Fault.

Conductor H-4 appears to parallel the contact between alders and spruce grove and may be due to surficial features.

7.5 Surficial Geology

The overburden consists mainly of glacial lake clay in the low-lying areas and of outwash deposits and moraine in the higher areas. The lake clay overlaps the glaciofluvial deposits. Clay and silt deposits have formed in the Mattawasaga River valley. Extensive deposits of peat have formed beneath the muskeg.

8.0 CONCLUSIONS:

The geological and geophysical surveys in combination with previous diamond drill hole data indicates two potential areas for gold mineralization.

The first occurs in the northwestern portion of the grid approximately around lines L16E and L20E. Previous drilling by the Revere Mining Corporation Ltd. obtained a best assay of 0.26 Au per ton over 5 feet within mafic and pyroclastic flows. The northeast striking Ghostmount Fault has been interpreted to pass through the western portion of the property. The intersected gold mineralization may be related to the Ghostmount Fault. If so the area represents a prime target area.

The second area of interest occurs south of the Mattawasaga River between lines L68E and L76E. A deep embayment of low magnetics occurs possibly due to faulting, granitic intrusion or a combination of the two. Previous drilling by Lobanor Gold Mines Ltd. and Revere Mining Corp. Ltd. intersected some gold mineralization.

Further definition of the potential target areas would be useful. A more detailed magnetometer survey would help outline structure within the area. A down ice overburden drill program might also prove beneficial.

Peter G. Otherton B.Sc.

for

Chris Curry B.Sc.

H.E. Neal & Associates Ltd.

CERTIFICATE

I, Peter G. Atherton of 5425 Croydon Road, Burlington, Ontario, do hereby certify:

- 1) That I graduated from Brock University in 1975 and have practised my profession since that time.
- 2) That I have no interest directly or indirectly nor do I expect to have any interest in the properties held by H. E. Neal.
- 3) My report is based on personal examination of the property and supervision of the surveys being conducted on the property.

Toronto, Ontario

November, 1982

Peter G. Atherton B.Sc.

Peter G. Atherton B.Sc.

CERTIFICATE

I, Chris Curry of 4 Holton Road Scarborough, Ontario, do hereby certify

- 1) That I graduated from Carleton University in 1979 and have practised my profession since that time.
- 2) That I have no interest directly or indirectly nor do I expect to have any interest in the properties held by any clients of H.E. Neal and Associates.
- 3) My report is based on personal examination of the property and supervision of the surveys being conducted on the property.

Toronto, Ontario

October 1982

Peter S. Othman B.Sc.

for Chris Curry B.Sc.



File # 78637

The Minin



32D12SE0037 2.5208 HOLLOWAY

900

Type of Survey(s) **GEOLOGY + LINECUTTING**

Claim Holder(s) **C/O H.E. NEAL & ASSOC. LTD.** | **HOLLOWAY** | **U.V.**

Harold E. Neal 606-55 Queen St. E Toronto | Prospector's Licence No. **A 44568**

Survey Company **H.E. NEAL & ASSOC. LTD.** | Survey Dates (linecutting to office) **10 03 82** | Total Miles of line Cut **10.4**

606-55 QUEEN ST. E TORONTO, ONT | Day | Mo. | Yr. | Day | Mo. | Yr.

Name and Address of Author (of Geo-Technical report) **C/O H.E. NEAL & ASSOC. LTD**

C. CURRY 55 QUEEN ST. E SUITE 606 TORONTO, ONT M5C 1R6

Special Provisions Credits Requested

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

Mining Claims Traversed (List in numerical sequence)

Mining Claim		Expend. Days Cr.	Mining Claim		Expend. Days Cr.
Prefix	Number		Prefix	Number	
L	598637				
	598638				
	598639				
	598640				
	598641				
	598642				
	598643				
	598644				
	598645				
	598646				

Man Days

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

Airborne Credits

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

Expenditures (excludes power stripping)

Type of Work Performed

Performed on Claim(s)

Calculation of Expenditure Days Credits

Total Expenditures \$ + =

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.

Report Completed

Date of Report **OCT 15 1982** | Recorded Holder or Agent (Signature) **PETER ATHERTON**

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 **PETER G. ATHERTON % H.E. NEAL & ASSOC. LTD 55 Queen St. E Toronto Ont M5C 1R6**

Date Certified **OCT 15 1982** | Certified by (Signature) **Peter G. Atherton**

LARD LAKE
REG
OCT 15 1982
AM 11:18 | PM 1:15

Total number of mining claims covered by this report of work. **10**

For Office Use Only

Total Days Cr. Recorded **400.0** | Date Recorded **Oct 22, 1982** | Mining Recorder **[Signature]**

Date Approved as Recorded **83:04:29** | Regional Branch Director **[Signature]**

RECEIVED
NOV - 4 1982
MINING LANDS SECTION



Jan 28/83

Mining Lands Comments

To: Geophysics

Comments

Approved

Wish to see again with corrections

Date

Signature

To: Geology - Expenditures

W.R. Kustre

Comments

Approved

Wish to see again with corrections

Date

March 23/83

Signature

W.R. Kustre

To: Geochemistry

Comments

L.D.

Approved

Wish to see again with corrections

Date

Signature

To: Mining Lands Section, Room 6462, Whitney Block.

(Tel: 5-1380)

348

1982 11 30

2.5208

Mining Recorder
Ministry of Natural Resources
4 Government Road East
P.O. Box 984
Kirkland Lake, Ontario
P2N 1A2

Dear Sir:

We have received reports and maps for a Geological Survey submitted under Special Provisions (credit for Performance and Coverage) on Mining Claims L 598637 et al in the Township of Holloway.

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

Yours very truly,

E.F. Anderson
Director
Land Management Branch

Whitney Block, Room 6450
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: 416/965-1380

DW:sc

cc: Harold E. Neal & Associates Limited
606- 55 Queen Street East
Toronto, Ontario
Attn: C. Curry.

H. E. NEAL & ASSOCIATES LTD.
Mineral Consultants

Ste. 607, 55 Queen Street East, Toronto, Canada M5C 1R6 Telephone: (416) 368-0166

November 17, 1982

Mr. E. F. Anderson
Director
Lands Management Branch
Whitney Block, Room 6450
Queen's Park
Toronto, Ontario
M7A 1W3

Dear Sir:

Enclosed please find the following property reports submitted for assessment work credits by H. E. Neal & Associates Ltd. on behalf of Mr. H. E. Neal.

2 copies - Geological Survey and Linecutting performed on the 101 Claim Group, Holloway Township, Larder Lake Mining Mining Division, Matheson Area, Ontario (2 geological maps - scale 1" to 200' accompany each report).

Please note that Mr. C. Curry is the author of the report, but is no longer with H. E. Neal & Associates Ltd. and is not available to sign the report. The reports have been signed by me for Mr. Curry. If there are any problems because of this change, please let me know at the above address.

Respectfully submitted,

Peter G. Atherton B.Sc.

Peter G. Atherton B. Sc.
H. E. Neal & Associates Ltd.

GEOPHYSICAL TECHNICAL DATA

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

Number of Stations _____ Number of Readings _____
Station interval _____ Line spacing _____
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 _____

INDUCED POLARIZATION
RESISTIVITY

Instrument _____
Method Time Domain Frequency Domain
Parameters – On time _____ Frequency _____
– Off time _____ Range _____
– Delay time _____
– Integration time _____
Power _____
Electrode array _____
Electrode spacing _____
Type of electrode _____

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 _____



Ministry of
Northern Development
and Mines

René Fontaine
Minister
George Tough
Deputy Minister

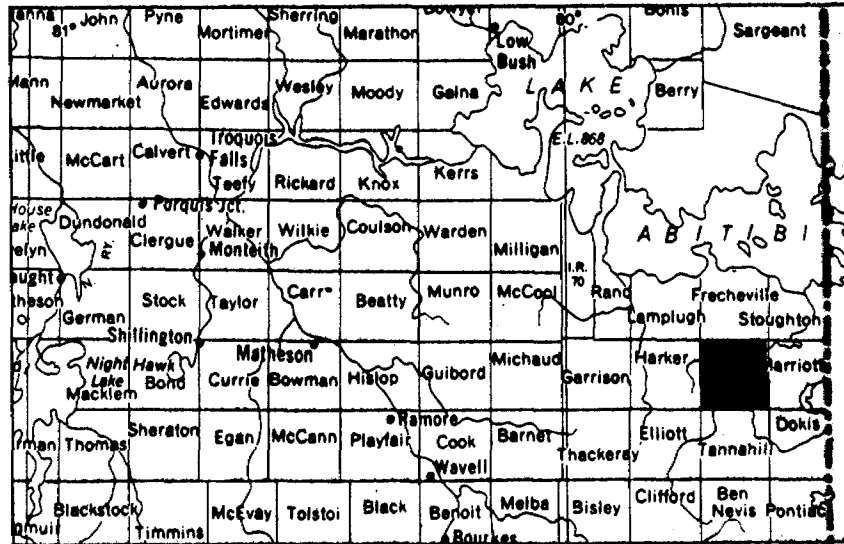
ONTARIO GEOLOGICAL SURVEY
GEOLOGICAL DATA INVENTORY FOLIO

GDIF 272

HOLLOWAY TOWNSHIP

DISTRICT OF COCHRANE

Compiled by the staff of
the Resident Geologist's Office
Kirkland Lake



LOCATION MAP

Scale 1:1 013 760 or 1 inch to 16 miles

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ACCOMPANYING MAPS

Property Location Map - 1 Map

Exploration Data Map - 1 Map

Map Scale 1:31 680 or 1 inch to 1/2 mile

CONVERSION FACTORS FOR MEASUREMENTS IN ONTARIO GEOLOGICAL SURVEY PUBLICATIONS

If the reader wishes to convert imperial units to SI (metric) units or SI units to imperial units the following multipliers should be used:

CONVERSION FROM SI TO IMPERIAL

CONVERSION FROM IMPERIAL TO SI

<i>SI Unit</i>	<i>Multiplied by</i>	<i>Gives</i>	<i>Imperial Unit</i>	<i>Multiplied by</i>	<i>Gives</i>
----------------	----------------------	--------------	----------------------	----------------------	--------------

LENGTH

1 mm	0.039 37	inches	1 inch	25.4	mm.
1 cm	0.393 70	inches	1 inch	2.54	cm
1 m	3.280 84	feet	1 foot	0.304 8	m
1 m	0.049 709 7	chains	1 chain	20.116 8	m
1 km	0.621 371	miles (statute)	1 mile (statute)	1.609 344	km

AREA

1 cm ²	0.155 0	square inches	1 square inch	6.451 6	cm ²
1 m ²	10.763 9	square feet	1 square foot	0.092 903 04	m ²
1 km ²	0.386 10	square miles	1 square mile	2.589 988	km ²
1 ha	2.471 054	acres	1 acre	0.404 685 6	ha

VOLUME

1 cm ³	0.061 02	cubic inches	1 cubic inch	16.387 064	cm ³
1 m ³	35.314 7	cubic feet	1 cubic foot	0.028 316 85	m ³
1 m ³	1.308 0	cubic yards	1 cubic yard	0.764 555	m ³

CAPACITY

1 L	1.759 755	pints	1 pint	0.568 261	L
1 L	0.879 877	quarts	1 quart	1.136 522	L
1 L	0.219 969	gallons	1 gallon	4.546 090	L

MASS

1 g	0.035 273 96	ounces (avdp)	1 ounce (avdp)	28.349 523	g
1 g	0.032 150 75	ounces (troy)	1 ounce (troy)	31.103 476 8	g
1 kg	2.204 62	pounds (avdp)	1 pound (avdp)	0.453 592 37	kg
1 kg	0.001 102 3	tons (short)	1 ton (short)	907.184 74	kg
1 t	1.102 311	tons (short)	1 ton (short)	0.907 184 74	t
1 kg	0.000 984 21	tons (long)	1 ton (long)	1016.046 908 8	kg
1 t	0.984 206 5	tons (long)	1 ton (long)	1.016 046 908 8	t

CONCENTRATION

1 g/t	0.029 166 6	ounce (troy)/ ton (short)	1 ounce (troy)/ ton (short)	34.285 714 2	g/t
1 g/t	0.583 333 33	pennyweights/ ton (short)	1 pennyweight/ ton (short)	1.714 285 7	g/t

OTHER USEFUL CONVERSION FACTORS

1 ounce (troy)/ton (short)	20.0	pennyweights/ton (short)
1 pennyweight/ton (short)	0.05	ounce (troy)/ton (short)

One gram (g) per tonne is equivalent to one part per million (1 ppm).

NOTE—Conversion factors which are in bold type are exact. The conversion factors have been taken from or have been derived from factors given in the Metric Practice Guide for the Canadian Mining and Metallurgical Industries published by The Mining Association of Canada in cooperation with the Coal Association of Canada.

DATA SOURCES CHECK LIST

NOTE: The following sources have been searched to compile the data for this area. If no reference data was found the appropriate box is marked 'no'; if reference data was found, the box is marked 'yes'.

All reference data found are included in the following pages. If the box is blank, the data source has not yet been searched. If the box is marked N.A., the source item is Not Applicable to this area and therefore not searched.

SOURCES OF DATA		Data	Initial
1	Resident Geologist's Office Files	Yes	KDK
2	Assessment Files Research Office, Toronto	Yes	NDC
3	ODM General Index; 7 volumes	Yes	KDK
4	Catalogue of Airborne Geophysical Surveys (ODM)	No	NDC
5	ODM Mineral Resources Circulars and OGS Mineral Deposits Circulars	Yes	NDC
6	ODM Industrial Mineral Reports	Yes	KDK
7	Bibliography of Post Precambrian Theses - Karrow (ODM MP 1)	No	NDC
8	Bibliography of Precambrian Theses - Ginn (ODM MP 2)	No	NDC
9	Newspaper Clippings File	Yes	NDC
10	GSC Index to Publications	Yes	KDK
11	OGS Index to Published Maps and Reports - MP 77 and Supplements to MP 77	Yes	NDC
12	OGS Index Maps	Yes	NDC
13	Source Mineral Deposit Records (O.G.S.)	Yes	NDC
14	Author - Subject Articles File	Yes	NDC
15	Miscellaneous Papers: ODM & OGS	Yes	NDC
16	ODM Geological Circulars: OGS Study Series	No	NDC
17	ODM Preliminary Reports: ODM Bulletins	No	NDC
18	ODM - OGS Open File Reports	Yes	NDC
19	OGS Northern Ontario Engineering Geology Terrain Studies	No	NDC
20	OGS Aggregate Resources Inventory Papers	No	NDC
21	OGS Mineral Potential Maps	No	NDC

METALS AND MINERALS REFERENCES LIST

△ anh Anhydrite	▲ fu Fuchsite	△ Ni Nickel	△ st Stone
▲ ank Ankerite	▲ gn Galena	△ Nb Niobium	▲ talc Talc
△ anna Annabergite	▲ gt Garnet	△ Pd Palladium	△ Te Tellurium
△ ap Apatite	△ gpe Goethite	△ peat Peat	△ td Tetrahedrite
△ arg Argentite	△ Au Gold	△ pent Pentlandite	△ th Thorite
△ As Arsenic	▲ gf Graphite	△ Pt Platinum	△ Th Thorium
▲ asp Arsenopyrite	△ gl Gravel	▲ py Pyrite	△ thuc Thucholite
▲ asb Asbestos	△ gyp Gypsum	△ pyl Pyrochlore	△ ti Titanite
△ ba Barite	▲ hem Hematite	△ pyrl Pyrolusite	△ Ti Titanium
△ be Beryl	△ il Ilmenite	▲ po Pyrrhotite	▲ tour Tourmaline
△ Bi Bismuth	△ Fe Iron	▲ q Quartz	△ trap Trap rock
△ bn Bornite	△ IF Iron Formation	▲ qcv Quartz carbonate vein	△ W Tungsten
△ bran Brannerite	▲ jas Jasper	△ ra Radioactive minerals	△ uran Uraninite
△ bruc Brucite	△ kaol Kaolinite (kaolin)	△ RE Rare Earths	△ U Uranium
△ Cd Cadmium	△ ky Kyanite	△ sd Sand	△ verm Vermiculite
▲ calc Calcite	▲ Pb Lead	△ sgl Sand and gravel	△ Y Yttrium
▲ carb Carbonate	△ lim Limonite	△ ss Sandstone	△ Zn Zinc
△ cel Celestite	△ Li Lithium	△ scap Scapolite	△ zr Zircon
△ cc Chalcocite	△ mgst Magnesite	△ shee Scheelite	
▲ cp Chalcopyrite	▲ mag Magnetite	▲ serp Serpentine	
▲ ch Chert	△ mc Malachite	△ sh Shale	
△ clay Clay	△ Mn Manganese	△ sid Siderite	
△ Co Cobalt	△ mb Marble	△ si Silica	
△ cob Cobaltite	△ mar Marcasite	△ Ag Silver	
△ cb Columbite	△ ma Marl	△ sl Slate	
△ Cu Copper	▲ mi Mica	△ sm Smaltite	
△ cor Corundum	△ ml Millerite	△ sod Sodalite	
△ dol Dolomite	▲ mo Molybdenite	▲ spec Specularite	
▲ ep Epidote	△ Mo Molybdenum	△ sp Sphalerite	
△ ery Erythrite	△ mon Monazite	△ spd Spodumene	
▲ fel Feldspar	△ ne Nephelite (nepheline)	△ staur Staurolite	
△ fl Fluorite (flurospar)	△ nc Niccolite	△ stib Stibnite	

Solid triangles indicate metal and mineral occurrences shown on the accompanying maps and drill logs.

MINERAL OCCURRENCES			Source Mineral Deposit Record	References in OGS Mineral Deposits Circulars & OGS Industrial Mineral Reports	Additional References and/or Remarks
Map Ref. Letter	Name(s)	Mineralization			
A	Camflo Mines Ltd.	Au		Resident Geologist's Assessment Files	16 drill holes with values from 0.11oz/t Au
B	Coin Lake Gold Mines Ltd.	Au		Resident Geologist's Assessment Files	9 drill holes with values from 0.0 to 0.11oz/t Au
C	Ghostmount Occurrence	Au		ODM Map 1953-4 ODM 1953, AR62; pt.7, p.28-29	Keewatin basalts and greywacke cut by porphyry dykes intersected in drilling.
D	Dominion Gulf	asb	C 0312	ODM 1953, AR62; pt.7, p.26-27	
E	Lobanor Occurrence	Au		ODM Map 1953-4 ODM 1953, AR62; pt.7, p.29	Believed to be underlain by Keewatin basalt and greywacke
F	Lightning River Occurrence	Au		ODM Map 34a, Lightning River area OBM 1919, AR28, pt.2, p.46-49 OBM 1925, AR34, pt.6, p.95	A zone in mafic volcanics & rhyolite is 2-3 feet wide & contains a vein about 4 inches wide accompanied by parallel quartz stringers. Mineralization consists of py, sp, gn & native Au. Shaft inclined 23°S put down to 73' by Howey, Cochenour and Willans in 1918.
G	McDermott Occurrence	Au		ODM Map 1953-4 ODM 1953, AR62; pt.7, p.29-30	Pyritized zone in Keewatin basalt and greywackes
H	McIntyre Occurrence	Au		ODM Map 1953-4 ODM 1953, AR62, pt.7, p.30-31	Keewatin basalts contains quartz and pyritized zones

MINERAL OCCURRENCES			Source Mineral Deposit Record	References in OGS Mineral Deposits Circulars & OGS Industrial Mineral Reports	Additional References and/or Remarks
Map Ref. Letter	Name(s)	Mineralization			
I	Meridian Occurrence	Au		ODM Map 34a, Lightning River area ODM 1925, AR53; pt.6, p.95	Narrow quartz vein in pyritized basalt
J	Mining Corporation, East Group Occurrence	Au		ODM Map 1953-4 ODM 1953, AR62, pt.7, p.31	Keewatin Basalt, greywacke, and fault breccia were intersected drilling & magnetic survey.
K	Mining Corporation, North Group Occurrence	Au	C 0312	ODM 1953, AR62, pt.7, p.26-27	
L	O'Neill Occurrence	Au		ODM Map 1953-4 ODM 1953, AR62, pt.7, p.32-33	A porphyry dyke cuts mafic volcanic and the adjacent wall rocks are mineralised with quartz stringers containing pyrite and gold.
M	Remo Occurrence	Au		ODM Map 1953-4 ODM 1953, AR62, pt.7, p.33	Shear zone 10 feet wide in mafic metavolcanics contains quartz-carbonate stringers, disseminated pyrite & chalcopyrite; a grab sample assays 0.1oz Au/t
N	Revere Mining Corp. Ltd.	Au		Resident Geologist's Assessment Files	3 drill holes with assay values 0.03oz Au/t to 0.2oz Au/t
O	Strong, N.	asb	C 0313	ODM 1953, AR62, pt.7, p.27	
P	Teddy Bear Valley Mines Ltd.	Au		ODM 1923, AR32, pt.6 p.66-67 ODM 1924, AR33, pt.3, p.45-46	Two shafts sunk: one to 37', the other to 300'. Initial prospect contained spectacular native gold.

MINERAL OCCURRENCES			Source Mineral Deposit Record	References in OGS Mineral Deposits Circulars & OGS Industrial Mineral Reports	Additional References and/or Remarks
Map Ref. Letter	Name(s)	Mineralization			
P	Teddy Bear Valley Mines Ltd. (Con't)			ODM 1953, AR62, pt.7, p.33-36	

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.															
		EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE KIRKLAND LAKE	GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	'GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATION	SELF POTENTIAL
COMPANY/AUTHOR (file number)																	
1	Amax of Canada Limited AFRO file 2.4947 " " 2.3606 " " 2.3140 " " Holloway Tp. 13 " " Holloway Tp. 12	79			82 81				82 80	82 80							
2	Argentex Resource Explor. Corporation AFRO file 2.7793 " " 2.7755	85			85	85		85				85	85				
3	Bailey, F.H. & Cooper, J.							47 46									
4	Barrick Resources Corp. (formerly Camflo Mines Limited) AFRO file Holloway Tp. 21				84												
5	Boulder Mountain Resources Limited AFRO file 2.8216											85	85				
6	Bruneau Mining Corp. AFRO file 2.5904	83															
7	Camflo Mines Limited AFRO file 2.6826 " " 2.4808											83 82	83 82				

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE KIRKLAND LAKE		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATION	SELF POTENTIAL	RESISTIVITY			
COMPANY/AUTHOR (file number)																				
	(continued)- Camflo AFRO file 63.4007	81	81	81	81							81	81							
8	Canadian Johns- Manville Company Limited AFRO file Holloway Tp. 19				61															
9	Canadian Nickel Co. Ltd. AFRO file 2.7755 " " 2.4686 " " Holloway Tp. 24 " " Holloway Tp. 23 " " Holloway Tp. 22							85	81	81										
10	Canamax Resources Inc. AFRO file 2.8302 " " 63.4262 " " Holloway Tp. 20 " " Holloway Tp. 16 " " Holloway Tp. 15 " " Holloway Tp. 14	83			83 84 83 83 83				85	85		83	83		83					
11	Coin Lake Gold Mines Ltd.	45			45			45 44												
12	Dominion Gulf Company AFRO file 63.472 " " Holloway Tp. 10	49			50							49								
13	Ghostmount Mines Ltd.	48			48 46							48								

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.															
		EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE KIRKLAND LAKE	GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATION	SELF POTENTIAL
COMPANY/AUTHOR (file number)																	
14	Golden Harker Expl. Ltd. AFRO file 2.7361			84									84				
15	Hennessey, L.J. AFRO file 63.3804					80		79									
16	Hunch Mines Ltd. AFRO file Holloway Tp.17				62												
17	Ionson, F.I.; Timmins Abitibi Ventures Limited (Tri-J Min. Surveys Ltd.; Parres, A.L.) AFRO file 63.2026 (Boyles Bros. Quebec Ltd.; Johnston, J.J.) AFRO file Holloway Tp.11			65		66						65					
18	Johns- Manville Can. Inc. AFRO file 2.5343 AFRO file 2.4413			83								83 81	83 81				
19	Joy, W.				52												
20	Lightning River Gold Mines Limited	33						46									
21	Lightval Mines Limited AFRO file 63.3940	81			81							81	81				
22	Lobanor Gold Mines Ltd.	47			46			46									

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																	
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE KIRKLAND LAKE		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATION	SELF POTENTIAL	RESISTIVITY		
COMPANY/AUTHOR (file number)																			
23	McDermott Gold Mines Ltd.			49	49	49		49											
24	McIntyre Porcupine Mines Ltd. AFRO file 63A.63	49 48		48				49											
25	Mining Corporation of Canada Limited AFRO file 63.23	22 45			23 47	23 49		23 46				45							
26	Modern Geophysics Ltd. (Dixon, G.B.) AFRO file 63.1110	61										61							
27	Neal, H.E. AFRO file 2.5284 " " 2.5208 " " 2.4951											82 82		82					
28	Patino Mining Corporation AFRO file 63.2968								71	71									
29	Phelps Dodge Corporation of Canada Limited AFRO file 2.4925 " " 2.4924 " " 2.4485 " " 63.4014	82 82						82					82 82						

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.															
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE KIRKLAND LAKE		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATION	SELF POTENTIAL	RESISTIVITY
COMPANY/AUTHOR (file number)																	
30	Revere Mining Corp. Ltd. AFRO file 63.1064 " " Holloway Tp.18	60			60 61			60				60					60
31	Strong, N. (Lesjack Expl. Co. Ltd.) AFRO file 63.225	50		50								50					
32	Teddy Bear Valley Mines Ltd. (formerly Abitibi Mines Limited) AFRO file 63.3940	25 44		22	25 35			35 47					47				

DRILLHOLE SUMMARY		Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for
Map Drilling Location Number	Company Name								
1	Amax Minerals Exploration	010-42-41	1983	0°	-60°	14.3m	210m	py, fu, ank, gf	--
2	" "	010-42-42	1983	0°	-50°	18.3m	157.7m	py, fu, ank, gf	--
3	" "	010-42-43	1983	0°	-55°	9.2m	83m	fu, ank, py, asp	--
4	" "	010-42-44	1983	3°	-55°	15.3m	90m	fu	--
5	" "	010-42-45	1983	3°	-55°	18.7m	96.5m	fu, carb, py, asp, ank, gf	--
6	" "	839-42-28†	1982	0°	-45°	28.0m	162m	carb, py, jas, hem	--
7	" "	839-42-29	1982	0°	-50°	6.76m	147m	qcv, py, gf, ch	--
8	" "	839-42-30†	1982	0°	-45°	7.05m	123m	qcv, py, ch, talc	--
9	" "	839-42-31†	1982	0°	-50°	36.2m	108m	qcv, py, po, ch	--
10	" "	010-42-32†	1982	0°	-45°	12.5m	171m	ch, py, calc, talc, po	--
11	" "	010-42-33†	1982	0°	-42°	37.0m	183m	jas, py	--
12	" "	010-42-34	1982	0°	-45°	23.5m	282m	qcv, ank, gf, py	--
13	" "	010-42-35	1982	0°	-60°	17.7m	256m	qcv, ank, py, fu, mo, gn, mag, gf, ch	--
14	" "	010-42-36†	1982	0°	-45°	31m	202m	qcv, py, ch, hem, jas, spec	--
15	" "	010-42-37	1982	0°	-55°	13.8m	139.7m	qcv, py, fu, gf	--

† - Core stored at Swastika Drill Core Storage Library

DRILLHOLE SUMMARY		Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for
Map Drilling Location Number	Company Name								
16	Amax Minerals Exploration "Holloway 2"	010-42-38	1982	0°	-60°	14.2m	186m	py,qcv,gf,fu,ank	--
17	" "	010-42-39	1982	0°	-60°	11.7m	178.5m	qcv,py,gf,fu	--
18	" "	839-42-6†	1981	0°	-45°	15.3m	130m	py,carb,ch,talc	--
19	" "	839-42-10†	1981	0°	-50°	35.3m	140m	jas,qcv,py,fu, gf	--
20	" "	839-42-12	1981	0°	-50°	17.3m	147m	fu,py,qcv,ank	--
21	" "	839-42-13	1981	0°	-50°	16.5m	121.5m	ch,py	--
22	" "	839-42-15†	1981	0°	-50°	14.7m	119m	qcv,ch,py,talc	--
23	" "	839-42-16	1981	0°	-50°	18.3m	114m	ch,py,fu,ank	--
24	" "	839-42-17	1981	0°	-50°	32m	103m	py,talc	--
25	" "	839-42-18	1981	0°	-50°	43.3m	153m	py,ank,fu,talc	--
26	" "	839-42-19	1981	0°	-50°	33m	143m	py,fu,talc	--
27	" "	839-42-21†	1981	0°	-50°	3.0m	123m	py,jas,ch,talc	--
28	" "	839-42-22	1981	0°	-50°	10m	135m	py,hem	--
29	" "	839-42-23	1981	0°	-50°	9.3m	150m	py,gf,ank,ch	--
30	" "	839-42-25†	1981	0°	-50°	37m	135m	py,fu,qcv,ep	--
31	" "	839-42-26	1981	0°	-50°	16.4m	151.7m	py,fu,ch	--
32	" "	839-42-27	1981	0°	-50°	16.7m	153m	qcv,gf,py,fu,ep	--

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DRILLHOLE SUMMARY		Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for
Map Drilling Location Number	Company Name								
33	Amax Minerals Exploration "Holloway 2"	839-42-4	1981	0°	-50°	17.4m	186m	qcv, gf, py, talc	--
34	" "	839-42-2	1981	0°	-45°	33.7m	255m	qcv, gf, py, ch, ank	--
35	" "	839-42-1	1981	0°	-45°	24.2m	252m	qcv, ep, ank, ch, fu	--
36	" "	839-42-7	1981	0°	-45°	36.2m	120m	qcv, py, gf, talc	--
37	" "	839-42-8	1981	0°	-45°	2.1m	113.6m	mag, jas, ep	--
38	" "	839-42-3	1981	0°	-45°	36m	78.2m	py, qcv, talc, gf	--
39	" "	839-42-5	1981	0°	-45°	15.3m	96m	qcv, py, talc, gf	--
40	Camflo Mines Ltd.	Mc-84-76	1984	344°	-60°	13.7m	215.8m	py, ep, qcv, cp, hem	--
41	" "	Mc-81-1	10/81	350°	-55°	54'	452'	py, qcv, cp, mag, ep	Au(0.36oz)
42	" "	Mc-81-2	10/81	350°	-50°	36'	619'	qcv, po, py, cp, hem	Au(0.1oz/
43	" "	Mc-81-3	10/81	350°	-50°	128'	500'	qcv, py, po, cp, gf, mag	Au(0.09oz)
44	" "	Mc-81-4	11/81	--	-60°	40'	400'	qcv, py	Au(0.31oz)
45	" "	Mc-81-5	11/81	350°	-55°	134'	450'	qcv, py, hem	Au(0.07oz)
46	" "	Mc-81-6	11/81	350°	-50°	152'	407'	py, qcv, cp	Au(0.12oz)
47	" "	Mc-81-7	11/81	350°	-50°	100'	709'	py, ep, qcv, gf, ch	Au(0.06oz)
48	" "	Mc-81-8	12/81	350°	-50°	94'	510'	qcv, py, hem, gf	Au(0.14oz)

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DRILLHOLE SUMMARY		Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden	Total Length of Hole	Mineralization Noted in Log	Assay Data Include for
Map Drilling Location Number	Company Name								
49	Camflo Mines Ltd.	Mc-81-9	12/81	350°	-50°	60'	352'	qcv,py	Au(0.240)
50	" "	Mc-81-10	12/81	350°	-50°	58'	403'	qcv,ep,hem,py,calc	Au(0.330)
51	" "	Mc-81-11	12/81	350°	-45°	34'	353'	py,qcv,hem	Au(0.260)
52	" "	Mc-81-12	12/81	350°	-45°	82'	354'	py,qcv,hem	Au(0.190)
53	" "	Mc-81-13	12/81	350°	-45°	92'	353'	qcv,py,ch	Au(0.090)
54	" "	Mc-81-14	12/81	350°	-45°	60'	405'	qcv,py,hem	Au(0.090)
55	" "	Mc-81-15	--	350°	-45°	82'	452'	qcv,py,hem,ch	Au(0.220)
56	" "	Mc-81-16	01/82	350°	-45°	126'	350'	qcv,py	Au(0.350)
57	Canadian Johns Manville Co. Ltd.	S.L.M.#1	04/61	180°	-60°	87'	800'	mag,po,gt	--
58	Canadian Nickel Co. Ltd.	AR84-1a	11/84	140°	-60°	50'	677'	py,ep,qcv,cp,hem	--
59	" "	AR84-2	11/84	337°	-45°	42'	553'	py,hem,ep,qcv,cp,gf	--
60	" "	AR84-3	11/84	140°	-45°	22'	320'	py,cp,qcv,ep,fu	--
61	" "	AR84-4	11/84	340°	-45°	190'	190'	--	--
62	" "	AR84-4a	11/84	340°	-45°	164'	541'	ep,qcv,py,ch,gf hem	--
63	" "	AR84-5	11/84	340°	-45°	141'	515'	qcv,py,asp,po,ep,hem,mag	--

† - Core stored at Swastika Drill Core Storage Library

DRILLHOLE SUMMARY		Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for
Map Drilling Location Number	Company Name								
64	Canadian Nickel Co. Ltd.	AR84-6	11/84	340°	-45°	170'	366'	ep, po, py	--
65	" "	AR84-7	11/84	340°	-45°	103'	106'	--	--
66	" "	AR84-7a	11/84	340°	-60°	134'	506'	ep, po, cp, py, qcv, hem	--
67	" "	AR84-8	11/84	160°	-55°	76'	486'	ep, qcv, fu, py, cp	--
68	Canamax Resources Inc.	049-01-1†	08/82	160°	-45°	34m	148m	qcv, spec, py, ch	--
69	Canamax Resources Inc.	049-01-3	08/83	335°	-45°	46.7m	103m	carb	--
70	" "	049-01-4	03/83	335°	-45°	39.8m	231m	qcv, py, ch, mag, spec, jas, ep	--
71	Coin Lake Gold Mines Ltd.	D.D.H. #1	1945	180°	-65°	7.5'	300'	--	Au(0.02oz)
72	" "	D.D.H. #2	1945	0°	-70°	0'	105'	--	Au(0.02oz)
73	" "	D.D.H. #3	1945	180°	-65°	0'	50'	--	Au(0.02oz)
74	" "	D.D.H. #4	1945	--	--	0'	125'	--	Au(0.11oz)
75	" "	D.D.H. #5	1945	180°	-50°	0'	180'	--	Au(0.04oz)
76	" "	D.D.H. #6	1945	0°	-50°	0'	125'	--	Au(0.04oz)
77	" "	D.D.H. #7	1945	090°	-50°	0'	149'	--	Au(0.03oz)
78	" "	D.D.H. #8	1945	270°	-50°	0'	100'	--	Au(0.01oz)
79	" "	D.D.H. #9	1945	356°	-50°	0'	151'	--	Au(0.08oz)

† - Core stored at Swastika Drill Core Storage Library

DRILLHOLE SUMMARY		Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for
Map Drilling Location Number	Company Name								
80	Dominion Gulf Co.-Asbestos Corp.	50AG-1	05/50	349°	-45°	70'	852'	asb,serp	---
81	" "	50AG-2	--	349°	-45°	81'	925'	asb,serp	---
82	" "	50AG-3	06/50	343°	-45°	175'	762'	mag,asb	---
83	" "	50AG-4	--	312°	-75°	125'	692'	asb	---
84	" "	50AG-5	06/50	160°	-45°	15'	1007'	serp,asb,mag	---
85	" "	50AG-8	--	180°	-45°	213'	717'	---	---
86	" "	50AG-10	--	022°	-45°	25'	853'	carb,mag	---
87	" "	50AG-11	--	--	-90°	105'	400'	carb	---
88	" "	50AG-12	--	--	-90°	110'	350'	ep,cp,serp	---
89	" "	50AG-13	--	--	-90°	110'	150'	serp	---
90	" "	50AG-14	--	--	-90°	125'	350'	asb	---
91	Ghostmount Mines Ltd.	3	--	0°	-48°	64'	900'	ep,hem,py,qcv, jas	---
92	" "	4	--	180°	-50°	75'	877'	ep	---
93	" "	5	04/46	180°	-50°	100'	798'	carb,ep	---
94	" "	5v	--	--	-90°	87'	100'	---	---
95	" "	6v	05/46	--	-90°	120'	582'	carb,jas	---
96	" "	6	05/46	0°	-50°	0'	156'	---	---

† - Core stored at Swastika Drill Core Storage Library

DRILLHOLE SUMMARY		Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for
Map Drilling Location Number	Company Name								
97	Ghostmount Mines Ltd.	7	06/46	0°	-50°	65'	812'	qcv, gf, mag, ch	--
98	" "	7v	06/46	--	-90°	57'	75'	carb	--
99	" "	8v	07/46	--	-90°	50'	377'	jas, hem	--
100	" "	9	--	--	-90°	10'	50'	--	--
101	" "	12	02/48	13°	-55°	72'	765'	jas, py, qcv, mi	--
102	" "	13	1948	2°	-50°	68'	531'	jas, qcv	--
103	Hunch Mines Ltd.	#7	03/62	180°	-45°	25'	642'	carb, asb, serp	--
104	Johns-Manville Canada Ltd.	010-45-10	10/83	004°	-47°	16.6m	174m	fu, py, ank, qcv, asp, gf	--
105	" "	010-45-11	11/83	004°	-70°	12.6m	231m	hem, mag, py, spec ank, asp, qcv, gf	--
106	" "	010-45-12	11/83	004°	-55	14.2m	135m	fu, qcv, gf, py, asp, ank	--
107	" "	010-45-13	11/83	004°	-70°	22.5m	237m	gf, py, qcv, talc, asp, ank, fu	--
108	" "	010-45-24	02/84	004°	-45°	9.4m	177m	qcv, py, gf, fu, mag	--
109	" "	010-45-25	03/84	004°	-45°	17.4m	189m	qcv, fu, py, ank, gf, asp, cp	--
110	" "	010-45-26	03/84	004°	-45°	9.8m	156m	qcv, py, gf, ank, fu	--
111	" "	010-45-28a	08/84	004°	-45°	18.13m	39m	py, fu, qcv, ank	--

DRILLHOLE SUMMARY		Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for
Map Drilling Location Number	Company Name								
112	Johns-Manville Canada Ltd.	010-45-1	09/84	004°	-65°	11.3m	234m	ank, py, qcv, spec, gf, ch, fu	--
113	" "	010-45-2	09/84	004°	-60°	21m	159.7m	qcv, py, hem, gf, ank, fu, asp	--
114	" "	010-45-3	09/84	004°	-60°	22.3m	195m	fu, py, qcv, spec, ank, gf	--
115	Joy, W.	#1	1952	351°	-45°	0'	86'	py	--
116	"	#2	1952	0°	-47°	1.6'	60'	py	--
117	"	#3	1952	147°	-36°	0'	108'	py, calc	--
118	"	#4	1952	190°	-30°	0'	55'	py, calc	--
119	Lobanor Gold Mines Ltd.	#1	1946	180°	-35°	14'	749'	qcv, talc, py	--
120	" "	#2	1946	183°	-35°	8'	1000'	qcv	--
121	" "	#2a	1946	170°	-32°	8'	640'	ep, mi	--
122	" "	#3	1946	353°	-35°	28'	1533'	ep, carb	--
123	McDermott Gold Mines Ltd.	S-1	10/49	340°	-45°	22'	174.5'	qcv, spec, py	Au(0.050)
124	" "	S-2	10/49	149°	-30°	5'	409'	py, qcv, hem	Au(0.015)
125	" "	S-3	11/49	150°	-30°	10'	355'	py, qcv	Au(0.140)
126	" "	S-4	--	150°	-40°	10'	400.5'	py, ch, carb	Au(0.210)
127	" "	S-5	--	150°	-40°	6'	331'	py	Au(0.070)

GDIF FOR

† - Core stored at Swastika Drill Core Storage Library

DRILLHOLE SUMMARY		Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for
Map Drilling Location Number	Company Name								
128	McDermott Gold Mines Ltd.	S-6	--	150°	-40°	8'	299'	py, hem	Au(0.09oz/
129	" "	S-7	--	--	-40°	10'	377'	carb	Au(0.08oz/
130	" "	S-8	11/49	--	-30°	10'	402'	carb, py	Au(0.08oz/
131	McIntyre Porcupine Mines	S-1†	--	342°	-45°	no log	summary	only	--
132	" "	S-2†	--	342°	-45°	104'	397.5'	ch, py, ep, qcv	--
133	" "	S-3†	--	163°	-45°	0'	90'	--	--
134	" "	S-3a†	--	162°	-45°	136'	827'	py, qcv, asp, ep	--
135	" "	S-4†	06/48	342°	-45°	19'	842'	qcv, py, ep	--
136	" "	S-5†	09/48	162°	-45°	20'	601'	qcv, ep	--
137	" "	S-6†	09/48	162°	-45°	8'	620'	ch, talc, py	--
138	" "	S-7†	09/48	342°	-45°	0'	709'	ch, qcv, py	--
139	" "	S-8	10/48	162°	-45°	218'	218'	--	--
140	Mining Corp. of Canada Ltd. "Harker-Holloway"	#1	05/23	357°	-30°	0'	558'	--	--
141	" "	#2	05/23	324°	-30°	6'	573'	--	--
142	Mining Corp. of Canada Ltd. "Marriott-Holloway"	D.D.H.#1	10/47	0°	-45°	7'	435'	--	--
143	" "	D.D.H.#5b	10/47	0°	-45°	4'	307'	--	--

† - Core stored at Swastika Drill Core Storage Library.

DRILLHOLE SUMMARY		Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden	Total Length of Hole	Mineralization Noted in Log	Assay Data Include for
Map Drilling Location Number	Company Name								
144	Mining Corp. of Canada Ltd. "Marriott-Holloway"	D.D.H. #6	10/47	0°	-45°	10'	659'	--	--
145	" "	D.D.H. #7	--	180°	-45°	64'	991'	--	--
146	" "	D.D.H. #8	--	0°	-45°	73'	986'	hem	--
147	" "	D.D.H. #9	10/49	180°	-35°	46'	450'	py,qcv	--
148	Revere Mining Corporation	D.D.H. #1	10/60	180°	-45°	125'	560'	py,gf,ep	--
149	" "	D.D.H. #2	10/60	150°	-45°	89'	829'	qcv,py,ep,gf	Au
150	" "	D.D.H. #3	10/60	150°	-45°	10'	48'	py	--
151	" "	D.D.H. #3a	10/60	140°	-45°	35'	65'	py	--
152	" "	D.D.H. #3b	10/60	140°	-45°	61'	881'	py,ep,gf,calc	--
153	" "	D.D.H. #4	11/60	180°	-45°	89'	114'	--	--
154	" "	D.D.H. #4a	11/60	150°	-45°	80'	717'	py,ep	--
155	" "	D.D.H. #5	12/60	0°	-45°	10'	822'	qcv,ank,gf,py,tour	Au
156	" "	D.D.H. #6	03/61	310°	-45°	48'	807'	qcv,hem,py	Au
157	" "	D.D.H. #8a	02/61	0°	-50°	72'	755'	mag,qcv,ep,py,talc	Au(0.03oz)
158	" "	D.D.H. #9	03/61	310°	-55°	40'	222'	qcv,py,cp	Au(0.14oz)
159	" "	D.D.H. #11	03/61	285°	-45°	38'	246'	qcv,ep,hem,py	Au(0.2oz)

† - Core stored at Swastika Drill Core Storage Library

DRILLHOLE SUMMARY		Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for
Map Drilling Location Number	Company Name								
160	Teddy Bear Valley Mines Ltd.	D.D.H.#1	05/25	009°	-55°	0'	670'	--	--
161	" "	D.D.H.#2	--	009°	-35°	0'	514'	--	--
162	" "	D.D.H.#3	--	009°	-55°	0'	550'	--	--
163	" "	D.D.H.#4	08/25	009°	-45°	75'	634'	--	--
164	" "	D.D.H.#5	09/25	357°	-45°	20'	492'	--	--
165	" "	D.D.H.#6	--	009°	-40°	30'	419'	--	--
166	" "	D.D.H.#7	--	0°	-45°	4'	721'	--	--
167	" "	D.D.H.#8	--	030°	-45°	25'	500'	--	--
168	Timmins-Abitibi Ventures	D.D.H.#1	08/66	030°	-45°	40'	338'	mag	--
169	Canadian Nickel Ltd.	I-84-1	11/84	340°	-50°	38'	480'	qcv,gf,py,po,cp	Au
170	" "	I-84-2	11/84	340°	-50°	10'	386'	qcv,py,mar,gf	Au
171	" "	I-84-3	11/84	340°	-50°	10'	420'	qcv,py,gf,ep	Au
172	" "	I-84-4	11/84	340°	-50°	18'	476'	ep,py,po,cp,gf,carb	Au

AIRBORNE GEOPHYSICAL SURVEY DATA			Flight Altitude	Flight Line Direction	Flight Line Spacing
No.	By For	Type of Survey			
1	Aerodat Ltd. Amax Minerals Exploration Ltd.	Electromagnetic: Aerodat-Geonics dual frequency (900Hz & 4200Hz) EM system	235'	N-S	200m
		Magnetic: Barringer AM-104 proton magnetometer	235'	N-S	200m
3	Sander Geophysics Ltd. Amax Minerals Exploration Ltd.	Electromagnetic: Sander EM3-A single frequency EM system	65m	N-S	150m
		Magnetic: Sander NPM-5 proton precession magnetometer	65m	N-S	150m
8	Canadian Nickel Co. Ltd. Canadian Nickel Co. Ltd.	Electromagnetic: Inco 3 frequency towed bird, EM system	120m	N-S	200m
		Magnetic: Geometrics 803 proton magnetometer	120m	N-S	200m
		Radiometric: Inco 4 channel differential spectrometer	120m	N-S	200m

Map Sample Site Reference Number	GEOCHEMICAL SURVEY DATA		By	Reference
	Type of Survey	Analysis For		
1	Humic material	Au,As,Sb,Cu,Pb	Camflo Mines Ltd.	Resident Geologist's Assessment Files

MISCELLANEOUS DATA

AGE DATING

Site	Method	Material	Reference	Result

Large empty rectangular area for additional notes or data.

NEWSPAPER CLIPPINGS FILE

NOTE: A file of newspaper clippings about the companies listed below, who have worked in this area, is maintained in the Regional/Resident Geologist's Office. Kirkland Lake

Argentex Resources Exploration

NORTHERN MINER - October 25, 1984 October 27, 1984
- November 1, 1984 January 1, 1985

Barrick Resources Corporation

NORTHERN MINER - December 27, 1984

Camflo Mines Ltd.

NORTHERN MINER - March 1, 1984 December 20, 1984 January 10, 1985
FINANCIAL POST - January 7, 1984
NORTHERN DAILY NEWS - July 20, 1984 July 14, 1984

Castle Tretheway Mines Ltd.

NORTHERN MINER - May 27, 1948

Coin Lake Gold Mines Ltd.

NORTHERN MINER - April 28, 1983

Golden Harker Exploration Ltd.

NORTHERN MINER - March 8, 1984

Lenora Explorations

NORTHERN MINER - February 9, 1984
- September 15, 1984

Teddy Bear Valley Mines Ltd.

NORTHERN MINER - January 9, 1947
- May 22, 1947

Urban Quebec Mines Ltd.

ODM GENERAL INDEX SEARCH

Words searched: Holloway Township, Howey-Cochenour-Willans Gold Mine
Lightning River Gold Area,

Index Volume	Listing:	Report Volume	Part	Page
2	Holloway Tp., Coch. Gold	28	2	44,51
	claims described	29	3	4
	staked	24	6	95-7
	prospecting	34	6	86
	hints for	26	6	86
	See also Howey-Cochenour-Willans g.m. Lightning River area Taylor-Horne g.m. Willans g.m.	34	6	93
	Lava Flows	28	2	7,8
		29	3	19,20,68
		30	6	33,35
	notes, photo and map	28	2	10-17
			2	10-17
	Map, Geological sketch; see map 28(b) in pocket	28	2	
		34	6	
	Morainic deposits	28	2	38
	Name, reason for	28	2	45
	Schist	28	2	44
	Timber	28	2	6
	Howey-Cochenour-Willans Gold Mine, Holloway Tp.			
	Camp, photo	28	2	6
	Gold vein and lava flows, map showing facing	28	2	14
	Mineralisation	30	2	29
	Rocks, geology and petrography	28	2	46-9
	lava, analysis, notes, plan			
	photo and section	28	2	10-16
	rhyolite, analysis	28	2	14
	Vein, Type of	30	2	10
	Lightning River Gold Area			
	Gold, discovery	28	2	44
		30	2	4,29
	in rhyolites	30	2	8
	mining reports	32	6	66,67
		34	6	66,67
	Map, sketch, in pocket	34	6	
	Report by Gledhill	34	6	86-98
	Knight	34	3	41-49

ODM GENERAL INDEX SEARCH

Words searched: Lightning River Gold Claims
 Taylor-Horne Gold Claim,
 Teddy Bear Valley Mines

Index Volume	Listing:	Report Volume	Part	Page
2	Lightning River Gold Claims			
	Description	28	2	44
	and plans	31	7	21,22
	Fault	34	6	95
	Operations	31	10	30
		34	10	30
	Rocks	34	6	95
	lava flows	33	3	43
	Taylor-Horne Gold Claims			
	Vein, photo; sulphides, photo	28	2	49,50
	33	3	46	
3	Holloway Tp., Coch.			
	Rocks	37	3	26
	see also map 37(g) with	37	3	
	Teddy Bear Valley Mines Ltd.			
	Capital; Operations	44	1	147
	45	1	166	
	Incorporated	39	1	59
5	Holloway Tp., Coch.			
	Geology of N. Half; report on, with map	62	7	
	Esker	62	7	20
	Fault	62	7	24
7	Holloway Tp., Coch.			
	Asbestos: Exploraton for Occurrences	IMR1 IMR1		16 6
8	Holloway Tp., Coch.			
	Asbestos	IMR36		60-61
	Gold	MRC13		77-78
	Iron	MRC11		118

Author	Date	SELECTED REFERENCES		
		Title	Reference	Map Scales and/or Report Pages
		<u>REGIONAL GEOLOGICAL COMPILATION MAPS</u>		
Ginn, R.M.	1964	Timmins - Kirkland Lake Sheet, Cochrane, Sudbury and Timiskaming Dists., Ont. Geol. Compilation Series	ODM Map 2046	1:253,4
Ministry of Natural Resources	1974	Ontario Mineral Map	ODM Map 2310	1:1,584
Ministry of Natural Resources, Ontario and Quebec	1984	Lithostratigraphic Map of the Abitibi Subprovince	OGS Map 2484 Que Map DV83-16	1:500,000
Pyke, D.R., Ayres, L.D. & Innes, D.G.	1973	Timmins - Kirkland Lake, Geological Compilation Series, Cochrane, Sudbury and Timiskaming Districts	ODM Map 2205	1:253,4
Revised Compilation by S.B. Lambers & V.G. Milne, Geological Branch, 1976. Original Compilation by L.D. Ayres et al., 1970	1970	Ontario Geological Map, East Central Sheet	OGS Map 2393	1:1,011,600
		<u>GEOLOGICAL REPORTS AND MAPS</u>		
Gledhill, T.L.	1925	Lightning River Gold Area Cochrane District, Ontario	ODM AR34, pt.6 Map 34a	p.86-90 1"=1mi
Gledhill, T.L.	1929	Ben Nevis, Munro, Kamiskotia, and other base metal areas, Districts of Cochrane and Timiskaming	ODM AR37, pt.3	p.1-52
Jensen, L.S.	1982	Precambrian Geology of the Lightning Mountain area, Lightning River area, Cochrane District, Ontario	O.G.S. Map P-2432 NTS 32D/12SE	1:1584,000

Author	Date	SELECTED REFERENCES		Reference	Map Scales and/or Report Pages
		Title			
		<u>GEOLOGICAL REPORTS AND MAPS (Con't)</u>			
Knight, C.W.	1919	Plan and cross section showing lava flows and gold vein, Holloway Township, Timiskaming District, Ont.		O.B.M. Map 28a	1":660'
Knight, C.W.	1924	Lightning River Gold area, Cochrane District, Ontario		ODM AR33, pt.3	p.41-49
Knight, C.W., Burrows, A.G., Hopkins, P.E. & Parsons, A.L.	1919	Abitibi-Night Hawk Gold area, Ontario		OBM AR28, pt.2 Map 28a	p.1-70
Lovell, H.L., Frey, E.D. & GSC Staff	1973	Holloway Township, Cochrane District, Ont., Kirkland Lake Data Series		O.D.M. Map P-797	4"=1mi
Miller, W.G.	1907	Lake Abitibi Gold Deposits		OBM AR16, pt.1	p.219-220
Satterly, J.	1954	Geology of the North Half of Holloway Township, Cochrane District, Ontario		ODM AR62, pt.7 Map 1953-4	1"=1000'
		<u>JOURNAL ARTICLES, THESES AND TECHNICAL PAPERS</u>			
Baragar, W.R.A.	1968	Major-element geochemistry of the Noranda volcanic belt, Quebec-Ontario, Canada		Can. J. Earth Sci. v.5	p.773-790
Geissman, J.W., Strangway, D.W., Tasillo-Hirt, A.M. & Jensen, L.S.	1982	Paleomagnetism and structural history of the Ghost Range intrusive complex, Abitibi belt, Ontario: further evidence for the late Archean geomagnetic field of North America		Can. J. Earth Sci. v.19	p.2085-20
Jensen, L.S & Langford, F.F.	1983	Geology and Petrogenesis of the Archean Abitibi Belt in the Kirkland Lake Area, Ontario		OGS Open File Report 5455	

Author	Date	SELECTED REFERENCES		Reference	Map Scales and/or Report Pages
		Title			
MacRae, N.D.	1969	<u>JOURNAL ARTICLES, THESES AND TECHNICAL PAPERS</u> Ultramafic intrusions of the Abitibi area, Ontario		Can. J. Earth Sci. v.6	p.281-3

Author	Date	SELECTED REFERENCES		Reference	Map Scales and/or Report Pages
		Title			

NOTES AND ADDENDA

GSC INDEX TO PUBLICATION

Words searched: Holloway Tp.

Index Volume	Listing:	Report Volume	Part	Page
1927- 1953	Holloway Tp., Coch. Gold deposits	Econ. Geology 10		23
		Econ. Geology 15		62
		M192		64, 66, 67

NTS Number 32 D/5,12

Mining Claim Map Number M.356

This project is part of Operation Black River - Matheson (BRiM) which was funded by the Ontario Ministry of Northern Development and Mines and the Ontario Ministry of Natural Resources.

STATEMENT: This inventory is unedited. Discrepancies may occur for which the Ontario Geological Survey does not assume liability. Information from this source may be quoted if credit is given. Reference to this inventory should be made as follows:

Ontario Geological Survey
1986: Holloway Township, District of Cochrane;
Ontario Geological Survey, Geological
Data Inventory Folio 272, compiled by
the staff of the Resident Geologist's
Office, Kirkland Lake, 32p. and 2 maps.

Original Compilation by: Nick Cox and Kamal D. Kalicharran, January 21, 1985

Date	Page Revised	Revised by	Date	Page Revised	Revised by
Feb/86	Inclusive	D.H.			

HOLLOWAY TOWNSHIP

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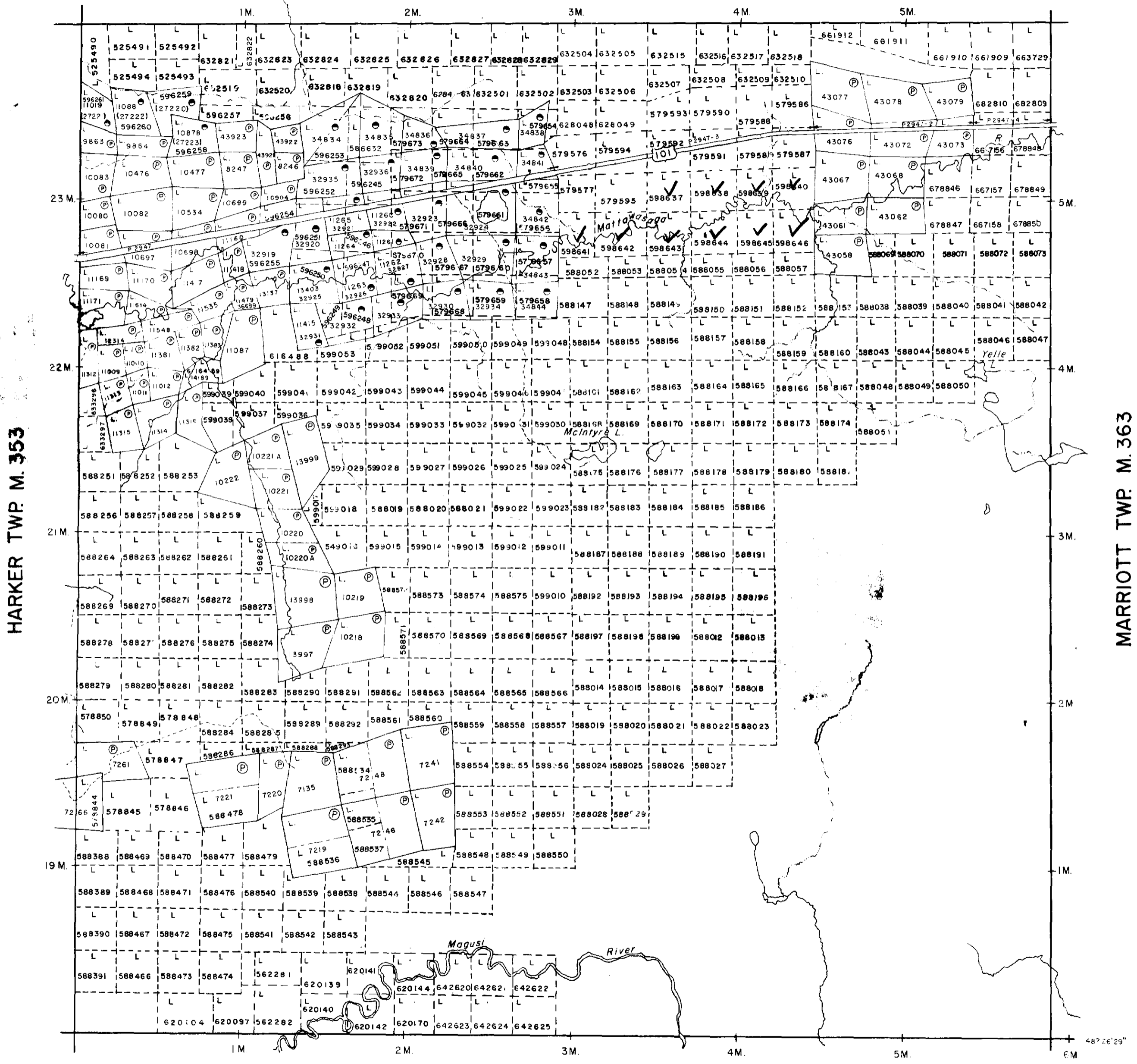
D.K.

FRECHEVILLE TWP. M.348

NOTES

400 surface rights reservation along the shores of all lakes and rivers.

DATE OF ISSUE
 APR 27 1983
 Ministry of Natural Resources
 TORONTO



HARKER TWP. M. 353

MARRIOTT TWP. M. 363

TANNAHILL TWP. M. 390

LEGEND

- PATENTED LAND (P) or *
 - PATENTED FOR SURFACE RIGHTS ONLY (P)
 - LEASE (L)
 - LICENSE OF OCCUPATION (L.O.)
 - BROWN LAND SALES (C.S.)
 - LOCATED LAND (Loc.)
 - CANCELLED (C)
 - MINING RIGHTS ONLY (M.R.O.)
 - SURFACE RIGHTS ONLY (S.R.O.)
 - HIGHWAY & ROUTE NO. (with shield symbol)
 - ROADS (with dashed line symbol)
 - TRAILS (with dotted line symbol)
 - RAILWAYS (with long-dashed line symbol)
 - POWER LINES (with line and cross-ticks symbol)
 - MARSH OR MUSKEG (with wavy line symbol)
 - MINES (with star symbol)
- * Used only with summer months or when space is limited

TOWNSHIP OF

HOLLOWAY

DISTRICT OF
 COCHRANE

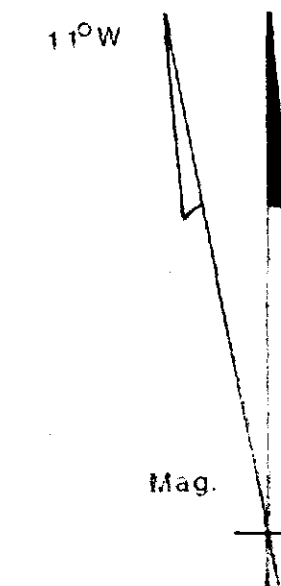
LARDER LAKE
 MINING DIVISION

SCALE : 1 INCH = 40 CHAINS (1/2 MILE)

OR K.K.I. PLANNED **M.356**
 DATE MARCH '72

MINISTRY OF NATURAL RESOURCES



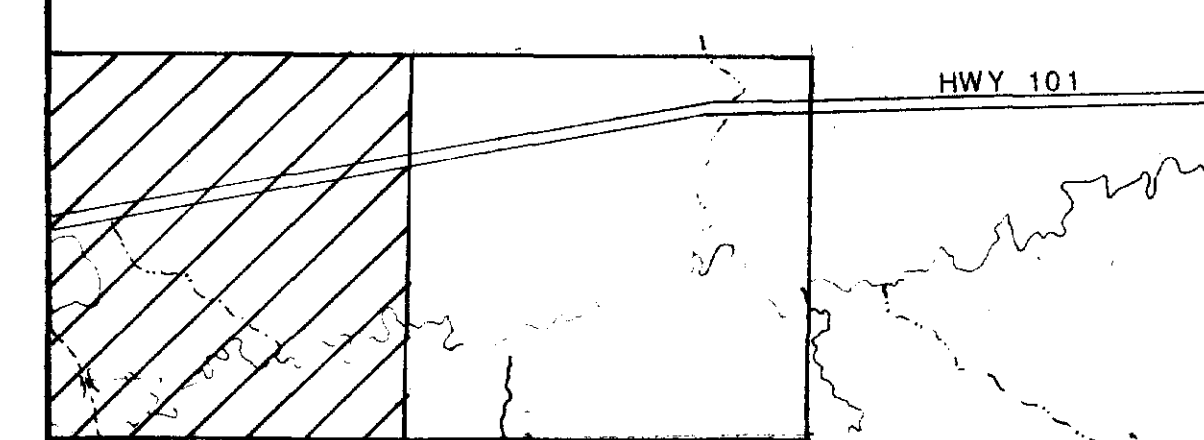
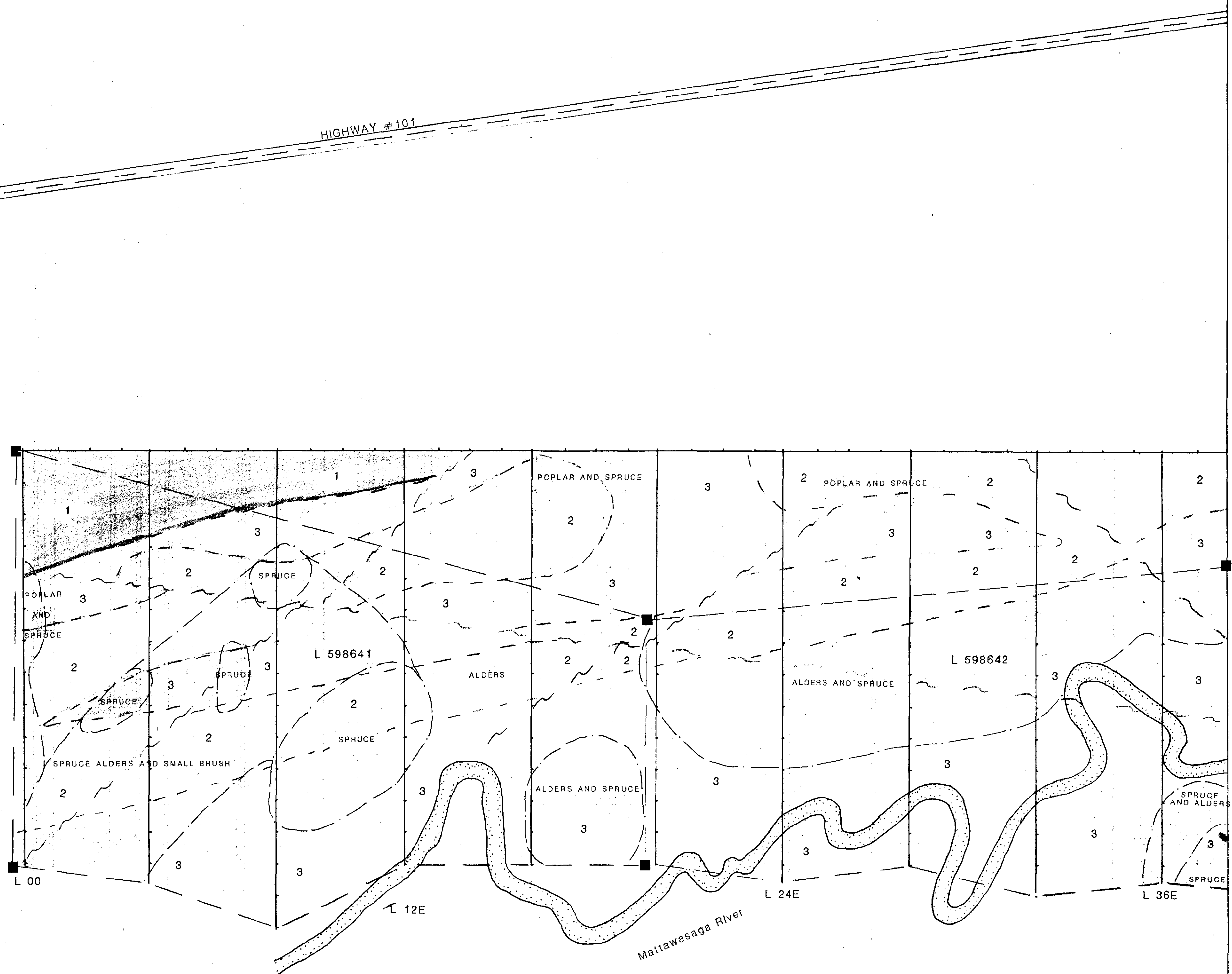


LEGEND

- 4 [4] AGGLOMERATE OR FLOW BRECCIA
 - 3 [3] MASSIVE INT. TO MAFIC LAVAS
3a PILLOW LAVA
 - 2 [2] MAFIC INTRUSIVES
 - 1 [1] SEDIMENTS
- NOT STRATIGRAPHIC ORDER

SYMBOLS

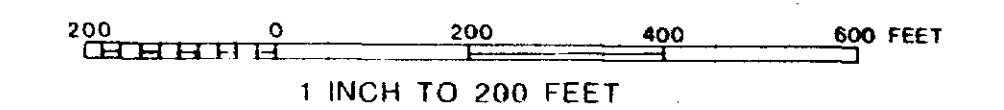
- [Symbol] OPEN WATER
- [Symbol] CREEK
- [Symbol] TOPOGRAPHIC BOUNDARY
- [Symbol] GEOLOGICAL BOUNDARY
- [Symbol] FAULT - ASSUMED
- [Symbol] OUTCROP
- [Symbol] PILLOW - INDICATING TOPS
- [Symbol] JOINTING - WITH DIRECTION
- [Symbol] CLAIM POST
- [Symbol] CLAIM LINE



Pete B. Ashby B.Sc.

**101 GROUP
OF
H.E. NEAL
GEOLOGICAL MAP**

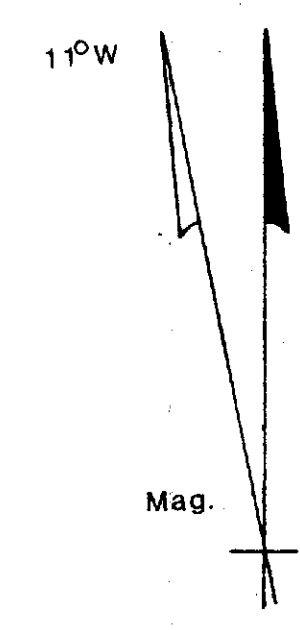
LOT CONC.
HOLLOWAY TOWNSHIP
DISTRICT OF COCHRANE



H.E. NEAL & ASSOCIATES LTD.
TORONTO CANADA

DRAWN BY: C.C. DRAWING No. DATE:
APPROVED BY: H.E.N. 82-04-01 OCTOBER 1981





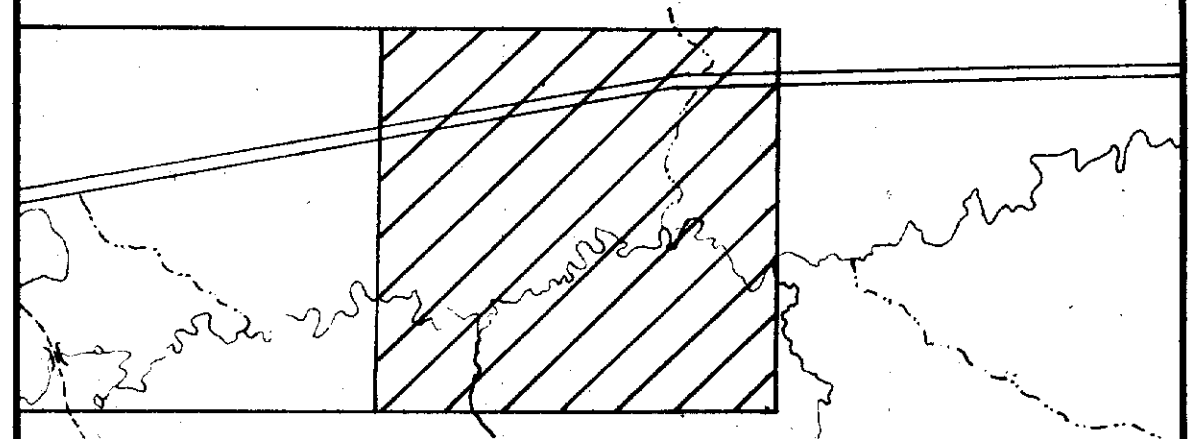
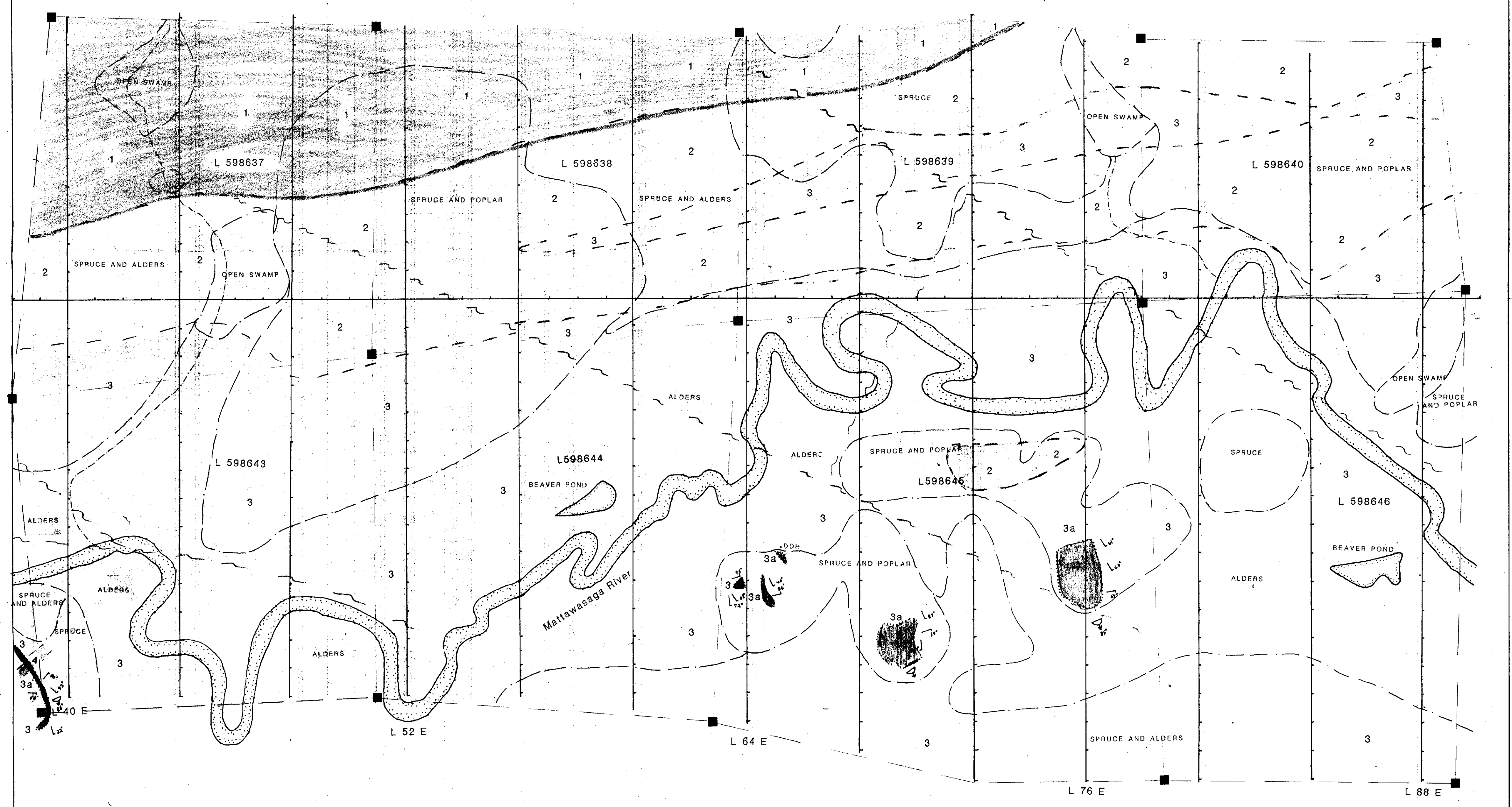
HIGHWAY #101

LEGEND

- 4 [Symbol] AGGLOMERATE OR FLOW BRECCIA
 - 3 [Symbol] MASSIVE INT. TO MAFIC LAVAS
3a PILLOW LAVAS
 - 2 [Symbol] MAFIC INTRUSIVES
 - 1 [Symbol] SEDIMENTS
- NOT STRATIGRAPHIC ORDER

SYMBOLS

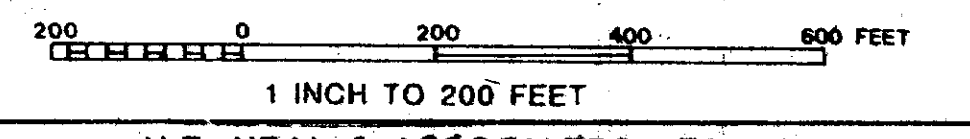
- [Symbol] OPEN WATER
- [Symbol] CREEK
- [Symbol] TOPOGRAPHIC BOUNDARY
- [Symbol] GEOLOGICAL BOUNDARY
- [Symbol] FAULT - ASSUMED
- [Symbol] OUTCROP
- [Symbol] PILLOW INDICATING TOPS
- [Symbol] JOINTING WITH DIRECTION
- [Symbol] CLAIM POST
- [Symbol] CLAIM LINE



Peter S. Alberts B.Sc.

**101 GROUP
OF
H.E. NEAL
GEOLOGICAL MAP**

LOT CONC.
HOLLOWAY TOWNSHIP
DISTRICT OF COCHRANE



H.E. NEAL & ASSOCIATES LTD.
TORONTO CANADA

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