

2001

NORTH AST.

1154612

1154616

DPH 96-1
-65°
804'

COLLAR
30' N of CL

300'

804'

Setup for 96-1 same
as for 91-1.

DUFF TOWNSHIP
MANN TOWNSHIP

1154613

1154617

FREDERICK HOUSE RIVER

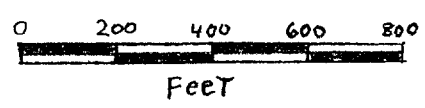
Wayne Conner
6/6/97

LOT 12

L.E. Hill Property
MANN TOWNSHIP
Scale



42A14SE0040 2.17731 MANN



172°

claim line

96-1 - 65°

Gabbro

Contact Zone (Peridotite)

1154612

1154613

Peridotite/Dunite

Peridotite/Dunite (strongly magnetic)

Alteration Zone

Peridotite/Dunite (magnetic)

MANN TOWNSHIP

AZIMUTH OF SECTION: 172°
(no grid on property)

*Map by Rusty Johnson
6/16/97*

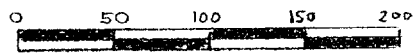
Alteration Zone. Tr PGM.

weakly altered Peridotite

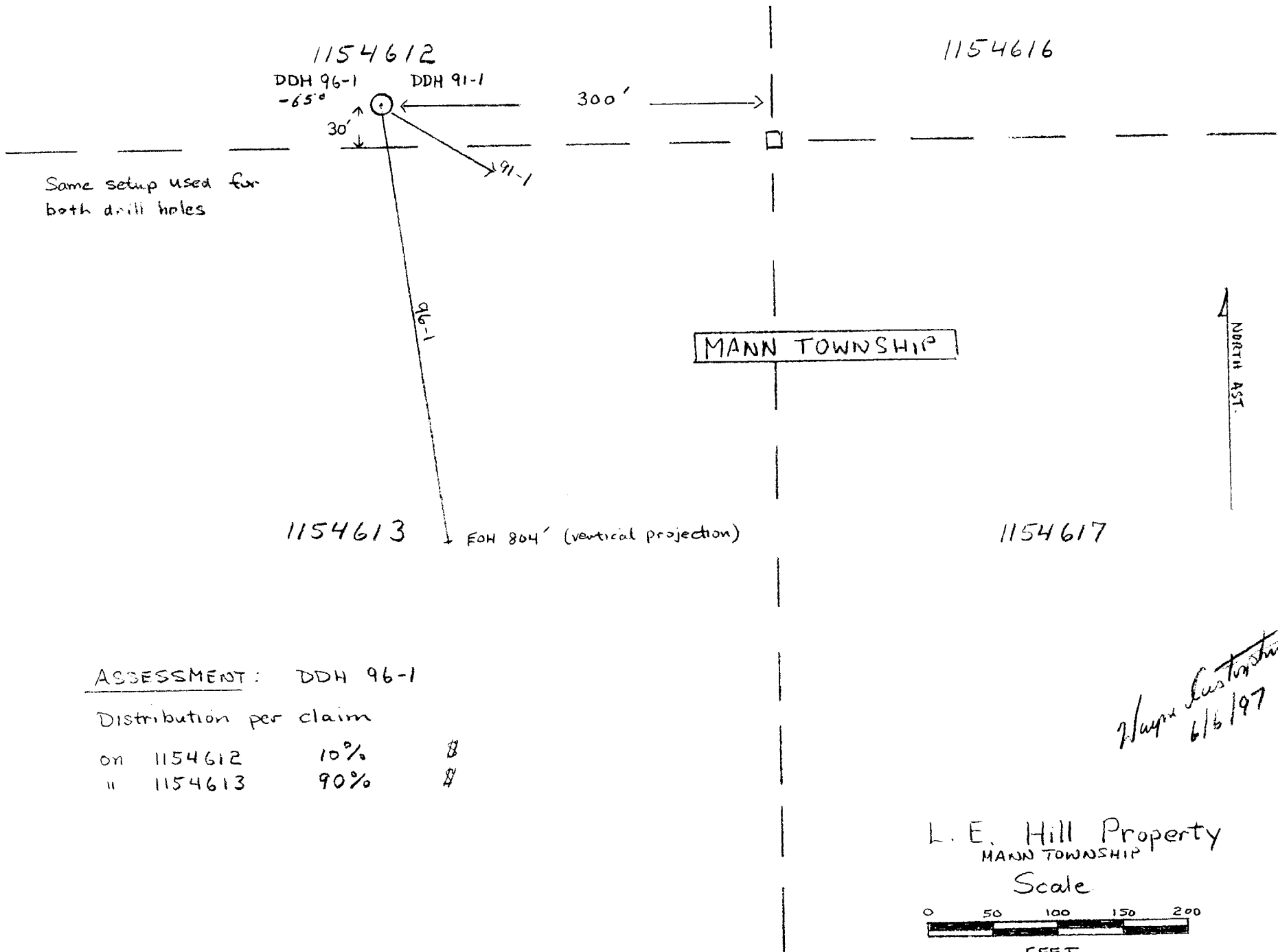
804'

L. E. Hill Property
MANN TOWNSHIP

Scale



FEET



Same setup used for both drill holes

1154612
DDH 96-1
-65°
DDH 91-1

300'

1154616

MANN TOWNSHIP

NORTH AST.

1154613 FOH 804' (vertical projection)

1154617

ASSESSMENT: DDH 96-1

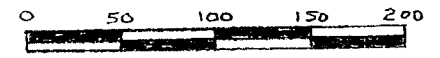
Distribution per claim

on	1154612	10%	\$
"	1154613	90%	\$

Wayne Eusterman
6/5/97

L. E. Hill Property
MANN TOWNSHIP

Scale



FEET

2. 17781

DIAMOND DRILL RECORD

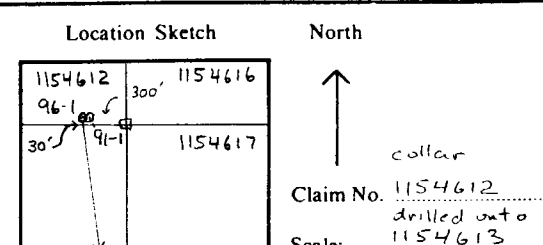
Hole No. M96-1

Hole No. 96-1 Sheet 1
 Property Len Hill
 Township Mann
 Location Collared on 1154612, drilled onto 1154613
 Logged By Wayne Corstorphine
 Core Location 122 Helen St, S Porcupine

Length 804'
 Bearing 172°
 Dip -65°
 Objective Testing mafic and ultramafic intrusives for mineralization.

Commenced September 2, 1996
 Completed November 19, 1996
 Drilling Co. Hillex
 Core Size A Q 1 1/16"
 Casing Left/Lost in Hole 6.0 left
 Logged to 804' on May 30, 1997 by Wayne Corstorphine

Dip: Collar -65
 Etch Test Depth Rdg. True
 15' 68° 65
 200' 68°
 400'
 600'
 800' 69°



Remarks Set up used for M96-1 is the same as used for earlier hole 91-1.
 Stopped drilling November 19, 1996 @ 804.0' Restart drilling June, 1997 804.0'

Footage - Metres		DESCRIPTION	Sample No.	From	To	Length
From	To					
0.0	5.0	Casing				
5.0	132.0	Gabbro. Massive, medium-grained, medium to dark green colour. Non magnetic Groundmass consists of dark green hornblende and white to greenish white plagioclase feldspar. Proportions approximately 60:40 respectively. Overall there is some variability in the appearance as grain size changes and relative proportions of the main minerals fluctuate. Some sections over a few inches are finer textured, but in general small patches of coarser texture are more frequent. Occasional white quartz-carbonate veinlet ~ 1" in thickness, as at 21.0'. Rare, narrow chloritic seam as at 48.3 feet. First coarsening in texture appears at 41.8 feet. After this point there is a more intimate mix of coarse spots and finer ground mass. 115.0 - 132.0: gabbro exhibits annealed, fracturing and breccia texture Estimate 5-8% pale grey, fine-grained calcite in fractures, also some white-beige quartz. No mineralization readily observed. Seams defining fragments .5 - 1.0 inches maximum. Some evidence of ultramafic composition - softness, darker green colours. Minor occurrences of epidote as isolated, narrow pistachio-green vein-like bands - quite sparse. Lower contact somewhat arbitrary - start of more abundant darker green peridotite material, but no pristine - still in contact zone where the two units are not completely segregated.				

Wayne Corstorphine

DIAMOND DRILL RECORD

Hole No. M96-1
Sheet No. 2

Footage - Metres		DESCRIPTION	Sample No.	From	To	Length													
From	To																		
132.0	804.0	<p>Ultramafic - Peridotite to Dunite.</p> <p>Section displays some variability. Where not affected by localized fracturing and brecciation textures (i.e. deformation features) the unit is dark, blackish green and massively textured. The groundmass exhibits a well defined nodular structure wherein lighter, coalescing rounded crystals are matrixed by an aphanitic very dark green to black groundmass. It is assumed the rounded 1-2 and even 3mm grains are olivine pseudomorphs.</p> <p>132.0 - 165.0 : contact zone</p> <p>Unit is texturally similar to the gabbro, rather than the ultramafic but is quite talcose. Clearly in deformation zone although not a strongly developed one. Much foliate to banded structure, of variable orientation. Breccia fragments common. 3-5% carbonate seams. No significant sulphide development. No quartz veining of note. Non magnetic.</p> <p>165.0 - 292.0 : typical peridotite-dunite, local deformation structures. "Nodular" texture well developed. ~ 75-80% with remainder a dark groundmass. Frequent intervals exhibiting foliated and quasi-banded fabric with some calcite and possibly quartz as veinlike to matrix-like material. Estimate 5% vein-like quartz-carbonate material, locally to 8-10% over 1-2 foot intervals as at 187.0. No mineralization readily observed. Nonmagnetic to weakly so over very short sections. Grain size is fine to medium.</p> <p>292.0 - 352.3 peridotite-dunite with strong magnetic signature. Similar to undeformed section in 165.0 - 292.0 but magnetic content high. ~ 2-3%+. Groundmass texture more even and finer. White calcite fracture and veinlets common - every 2-3 inches, very narrow (1-2mm) to 1cm in width - random orientations, no sulphides. Typical massive fragmentation of ultramafic. Groundmass grain size is medium sometimes becoming fine and very even in appearance as in the vicinity of 294.0 feet. where it is very dense and compact. This is the predominant character of this interval.</p> <p>352.3 - 378.0 Alteration Zone. Pale discoloration of unit, core very blocky over first 3 feet and tends to have low angle fracture fragments from 364.7. to 366.8 feet. Contrasting pale, apple-green (but not fuchsine) shade to coarse, 25 to 1.0 inch clasts or breccia fragments of varying concentrations, set in dark, serpentine matrix.</p>																	

W. J. ...

DIAMOND DRILL RECORD

Hole No. M96-1
Sheet No. 3

Footage - Metres		DESCRIPTION	Sample No.	From	To	Length															
From	To																				
		Minor white quartz and calcite - similar to typical concentrations elsewhere - 2-3%. No readily observed mineralization in this section. Loss of magnetite extends throughout interval and on up hole side for at least 5 feet in normal-looking material. Gradational reduction in relative amount of pale, discoloured patches towards lower contact.																			
		378.0 - 748.6 : typical peridotite - dunitic rock. Strongly magnetic, 5% magnetite. Dark colour - faint pistachio green to serpentine green to fresh surfaces. Textures on coned surface can be highly variable. Appears to be an almost varietic texture in places - grey nodules tightly packed with darker, bounding patches. as at 410 - 414 feet. Olivine pseudomorphs become more clearly defined & coarser with increasing depth after about 425 feet and appearance of the unit is more homogeneous. Occasional ham-tussock, medium green serpentine seam. Unit is very uniform from 425 to 748.6 feet - very magnetic, dark blackish green, medium texture, homogeneous. Occasional fibrous serpentine veinlets in some areas, particularly after 600 feet.																			
		748.6 - 779.3 Alteration Zone in the peridotite/dunitic. Contact is quite sharp - near ortho sand to c.a., and abrupt. changing in colour from dark green to very pale, whitish green. In some ways there is a similarity with the alteration zone at 352.3 in the paler green discolouring. Overall textural appearance differs. A pale green - towards apple-green characterizes the section. A blotchy crudely foliated to massive colour scheme consists of apple-green, fine mineralogy matrixed by white aphanitic groundmass, in medium textured format. In the first 6 feet. Occasional greyish patches of a soft nature (protolith remnants) float through the pale alteration groundmass. The alteration changes gradationally into a massive pale green section of uniform character. Occasional dark green, coarse aggregate masses 3-5mm scattered through pale green groundmass.																			
		Note sparse concentration of soft, metallic, grey in colour in various locations in this section. Concentrations << 1%. In some cases, small development of alteration in the unit.																			

Handwritten signature



Ministry of
Northern Development
and Mines

Declaration of Assessment Work Performed on Mining Land

Mining Act, Subsection 65(2) and 66(3), R.S.O. 1990

Transaction Number (office use)
W.9760.00383
Assessment Files Research Imaging

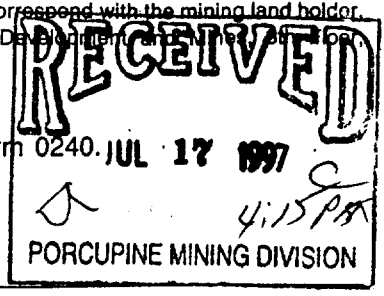
Personal information of Mining Act, the informant
Questions about this form
933 Ramsey Lake Road



42A14SE0040 2.17731 MANN

900

66(3) of the Mining Act. Under section 8 of the work and correspond with the mining land holder, Northern Development and Mines, Ontario



Instructions: - Please type or print in ink.

1. Recorded holder(s) (Attach a list if necessary)

Name <i>LEONARD EDWARD HILL</i>	Client Number <i>144430</i>
Address <i>122 HELEN AVE. S. PORCUPINE ONT. P.O. BOX 1140</i>	Telephone Number <i>705-235-9736</i>
	Fax Number
Name	Client Number
Address	Telephone Number
	Fax Number

ENTERED OCT 05 1997

2. Type of work performed: Check (✓) and report on only ONE of the following groups for this declaration.

Geotechnical: prospecting, surveys, assays and work under section 18 (regs)
 Physical: drilling, stripping, trenching and associated assays
 Rehabilitation

Work Type <i>DIAMOND DRILLING & HQ COREING</i>	Office Use
	Commodity
	Total \$ Value of Work Claimed <i>15,662.00</i>
Dates Work Performed From <i>2 SEPT 1996</i> To <i>19 NOV 1996</i>	NTS Reference
Global Positioning System Data (if available)	Township/Area <i>MANN TWP.</i>
	Mining Division <i>Porcupine</i>
	Resident Geologist District <i>Timmins</i>

Please remember to: - obtain a work permit from the Ministry of Natural Resources as required;
- provide proper notice to surface rights holders before starting work;
- complete and attach a Statement of Costs, form 0212;
- provide a map showing contiguous mining lands that are linked for assigning work;
- include two copies of your technical report.

2.17731

3. Person or companies who prepared the technical report (Attach a list if necessary)

Name <i>MR. WAYNE CORSTORPHINE</i>	Telephone Number <i>264-3090</i>
Address <i>441 HART TIMMINS ONT.</i>	Fax Number
Name	Telephone Number
Address	Fax Number
Name	Telephone Number
Address	Fax Number

4. Certification by Recorded Holder or Agent

I, *LEONARD EDWARD HILL* (Print Name), do hereby certify that I have personal knowledge of the facts set forth in this Declaration of Assessment Work having caused the work to be performed or witnessed the same during or after its completion and, to the best of my knowledge, the annexed report is true.

Signature of Recorded Holder or Agent <i>L.E. Hill</i>	Telephone Number <i>705-235-9736</i>	Date <i>July 17 1997</i>
Agent's Address	Telephone Number	Fax Number

Deemed Oct 15/97

Work to be recorded and distributed. Work can only be assigned to claims that are contiguous (adjoining) to mining land where work was performed, at the time work was performed. A map showing the contiguous link must accompany this form.

Claim Number. Or if work was done on other eligible mining land, show in this column the location number indicated on the claim map.	Number of Claim Units. For other mining land, list hectares.	Value of work performed on this claim or other mining land.	Value of work applied to this claim.	Value of work assigned to other mining claims.	Bank. Value of work to be distributed at a future date.
eg TB 7827	16 ha	\$26,825	N/A	\$24,000	\$2,825
eg 1234567	12	0	\$24,000	0	0
eg 1234568	2	\$8,892	\$4,000	0	\$4,892
1- 1154611	1	0	800. ✓		
2- 1154612	1	x 1035.50	800. ✓	235	
3- 1154613	1	x 14627.00	800. ✓	13365	462.
4- 1154614	1	0			
5- 1154615					
6- 1154616					
7- 1154617					
8- 1154618					
9- 1154619					
10- 1154620					
11- 1154621					
12- 1154622					
13- 1154624					
14- 1154625					
15- 1190501					
Column Totals					

ENTERED OCT 05 1997

I, LEONARD EDWARD HILL (Print Full Name), do hereby certify that the above work credits are eligible under subsection 7 (1) of the Assessment Work Regulation 6/96 for assignment to contiguous claims or for application to the claim where the work was done.

Signature of Recorded Holder or Agent Authorized in Writing: L.E. Hill Date: July 17/97

6. Instructions for cutting back credits that are not approved.

Some of the credits claimed in this declaration may be cut back. Please check (✓) in the boxes below to show how you wish to prioritize the deletion of credits:

- 1. Credits are to be cut back from the Bank first, followed by option 2 or 3 or 4 as indicated.
- 2. Credits are to be cut back starting with the claims listed last, working backwards; or
- 3. Credits are to be cut back equally over all claims listed in this declaration; or
- 4. Credits are to be cut back as prioritized on the attached appendix or as follows (describe):

cut back from 1154622

Note: If you have not indicated how your credits are to be deleted, credits will be cut back from the Bank first, followed by option number 2 if necessary.

For Office Received Stamp RECEIVED JUL 17 1997	Deemed Approved Date	Date Notification Sent
	Date Approved	Total Value of Credit Approved

Personal information collected on this form is obtained under the authority of subsection 6(1) of the Assessment Work Regulation 6/96. Under section 8 of the Mining Act, the information is a public record. This information will be used to review the assessment work and correspond with the mining land holder. Questions about this collection should be directed to the Chief Mining Recorder, Ministry of Northern Development and Mines, 6th Floor, 933 Ramsey Lake Road, Sudbury, Ontario, P3E 6B5.

Work Type	Units of Work <small>Depending on the type of work, list the number of hours/days worked, metres of drilling, kilometres of grid line, number of samples, etc.</small>	Cost Per Unit of work	Total Cost
DIAMOND DRILLING	804'	\$16.00 Per Ft	\$12864.00
ACID DIP TESTS	3	\$75.00 PER TEST	\$ 225.00
ENTERED OCT 05 1997			
Associated Costs (e.g. supplies, mobilization and demobilization).			
MOBILIZATION S. PORC. TO MAINN Twp		\$800.00	\$ 800.00
Transportation Costs			
To TOWN SPORC. 1 TIME PER WK. 88 MI X 2 ⁵			
176 MI. X 14 TRIPS = 2464 MI. X .48 PER MI.		.48	\$ 1182.72
Food and Lodging Costs			
\$40.00 PER WK. X 14 WK.		\$ 40.00	\$ 560.00
4-20 PD. PROPANES X 7.50			150.00
Total Value of Assessment Work			\$15667.72

2.17731

Calculations of Filing Discounts:

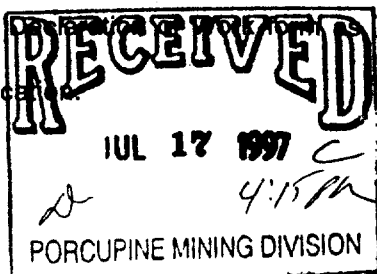
1. Work filed within two years of performance is claimed at 100% of the above Total Value of Assessment Work.
2. If work is filed after two years and up to five years after performance, it can only be claimed at 50% of the Total Value of Assessment Work. If this situation applies to your claims, use the calculation below:

TOTAL VALUE OF ASSESSMENT WORK x 0.50 = Total \$ value of worked claimed.

Note:
 - Work older than 5 years is not eligible for credit.
 - A recorded holder may be required to verify expenditures claimed in this statement of costs within 45 days of a request for verification and/or correction/clarification. If verification and/or correction/clarification is not made, the Minister may reject all or part of the assessment work submitted.

Certification verifying costs:

I, LEONARD EDWARD HILL, do hereby certify, that the amounts shown are as accurate as may reasonably be determined and the costs were incurred while conducting assessment work on the lands indicated on the accompanying RECORDED HOLDER I am authorized to make this certificate. (recorded holder, agent, or state company position with signing authority)



Signature: L.E. Hill Date: July 17/97

October 27, 1997

LEONARD EDWARD HILL
122 HELEN AVENUE
P.O. BOX 1022
SOUTH PORCUPINE, Ontario
P0N-1H0

Geoscience Assessment Office
933 Ramsey Lake Road
6th Floor
Sudbury, Ontario
P3E 6B5

Telephone: (888) 415-9846
Fax: (705) 670-5863

Dear Sir or Madam:

Submission Number: 2.17731

Status

Subject: Transaction Number(s): W9760.00383 Deemed Approval

We have reviewed your Assessment Work submission with the above noted Transaction Number(s). The attached summary page(s) indicate the results of the review. **WE RECOMMEND YOU READ THIS SUMMARY FOR THE DETAILS PERTAINING TO YOUR ASSESSMENT WORK.**

If the status for a transaction is a 45 Day Notice, the summary will outline the reasons for the notice, and any steps you can take to remedy deficiencies. The 90-day deemed approval provision, subsection 6(7) of the Assessment Work Regulation, will no longer be in effect for assessment work which has received a 45 Day Notice.

Please note any revisions must be submitted in **DUPLICATE** to the Geoscience Assessment Office, by the response date on the summary.

If you have any questions regarding this correspondence, please contact Bruce Gates by e-mail at gates_b@torv05.ndm.gov.on.ca or by telephone at (705) 670-5856.

Yours sincerely,



ORIGINAL SIGNED BY
Blair Kite
Supervisor, Geoscience Assessment Office
Mining Lands Section

Work Report Assessment Results

Submission Number: 2.17731

Date Correspondence Sent: October 27, 1997

Assessor: Bruce Gates

Transaction Number	First Claim Number	Township(s) / Area(s)	Status	Approval Date
W9760.00383	1154611	MANN	Deemed Approval	October 15, 1997

Section:

16 Drilling PDRILL

Correspondence to:

Resident Geologist
South Porcupine, ON

Recorded Holder(s) and/or Agent(s):

LEONARD EDWARD HILL
SOUTH PORCUPINE, Ontario

Assessment Files Library
Sudbury, ON

AREAS WITH RIGHTS FROM DISPOSITION

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

Description Order No. Date Disposition File

W.P.R. WATER POWER RESERVE

W.O. 87187

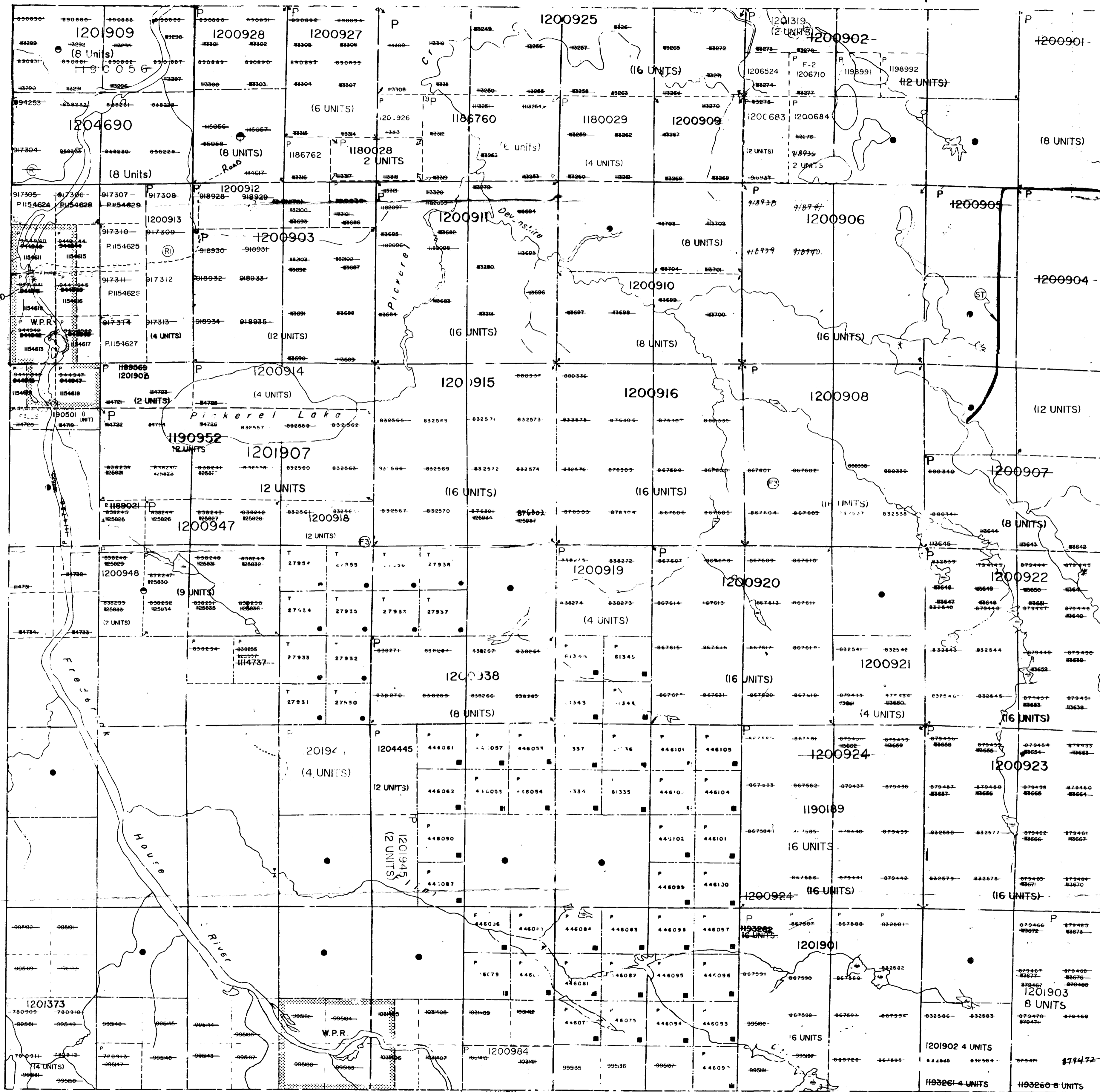
MINING AND SURFACE RIGHTS WITHDRAWN UNDER SECTION 36 OF THE MINING ACT (OCTOBER 15, 1987) see file 894253.

SURFACE AND MINING RIGHTS RE-OPENED TO PROSPECTING, STAKING OUT, SALE OR LEASE UNDER SECTION 36 OF THE MINING ACT R.S.O. 1990 EFFECTIVE 90-SEP-05 AT 7AM E.S.T. ORDER NO. O.P. 4/90 NR DATED 90-AUG-22.

NOTE: P1125837 PLOTTED IN ERROR. S/B P1114737.

2.17731
PDRILL
Road

DUFF TOWNSHIP



PROVINCIAL RECORDING OFFICE - SUDBURY
OCT 27 1997
DATE OF ISSUE

THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES AND ACCURACY IS NOT GUARANTEED. THOSE WISHING TO STAKE MINING CLAIMS SHOULD CONSULT WITH THE MINING RECORDER, MINISTRY OF NORTHERN DEVELOPMENT AND MINES, FOR ADDITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREON.

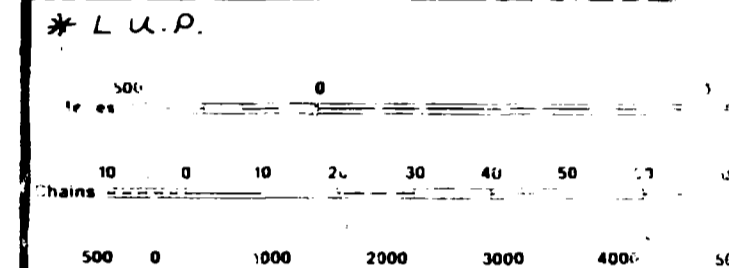
LITTLE TOWNSHIP

LEGEND

- HIGHWAY ROUTE No.
- TRAIL
- UTILITY LINES
- TOWNSHIP, BASE LINE, ETC.
- LOTS, MINING CLAIMS, ETC.
- MINING RESERVE
- WATER POWER RESERVE
- FACE RIGHTS BY MINING CLAIMS
- RAILWAY RIGHT OF WAY
- UTILITY LINES
- NON-PERMANENT STREAM
- FLOODING OR FLOODING RIGHTS
- SUBDIVISION OR COMPACT PLAN
- RESERVATIONS
- ORIGINAL SHORELINE
- MARSH OR MUSKOG
- MINES
- RAVERSE MONUMENT

DISPOSITION OF CROWN LAND

- TYPE OF DOCUMENT
- PATENT, SURFACE & MINING RIGHTS
- SURFACE RIGHTS ONLY
- MINING RIGHTS ONLY
- LEASE, SURFACE & MINING RIGHTS
- SURFACE RIGHTS ONLY
- MINING RIGHTS ONLY
- LICENCE OF OCCUPATION
- RESERVATION
- CANCELLED
- SAND & GRAVEL
- LAND USE PERMIT
- NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO 1913, VESTED IN ORIGINAL PATENTEE BY LANDS ACT, R.S.O. 1970, CHAP. 390, SEC. 6(1).



SNOWMOBILE TRAIL (LAND USE PERMIT) NOTICE RECEIVED 92-DEC-09

Received Sept 22/86

TOWNSHIP

MANN

M.N.R. ADMINISTRATIVE DISTRICT

COCHRANE

MINING DIVISION

PORCUPINE

LAND TITLES / REGISTRY DIVISION

COCHRANE

Ministry of Natural Resources
Ontario

Ministry of Northern Development and Mines

SEPTEMBER 1986

G-3537

