



42B09NE0005 19 MONTCALM

010

Diamond Drilling

Township of MONTCALM

Report N^o 19

Work performed by: Hollinger Mines Limited

Claim N ^o	Hole N ^o	Footage	Date	Note
P 451087	MP1-1-78	575.0'	Mar/78	(1)
P 480738	MP1-2-78	59.0'	Apr/78	(1)

Notes:

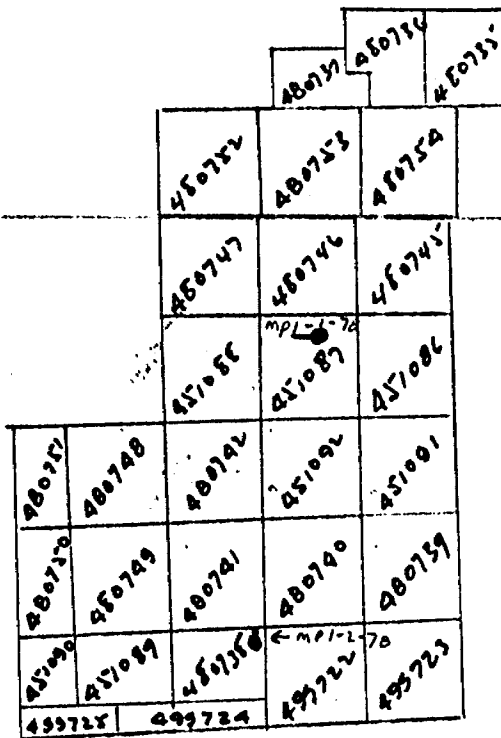
(1) #91-78 (Poulet & Montcalm Twps.)

POULETT TWP

4 M

3 M

1 M



8 M

7 M

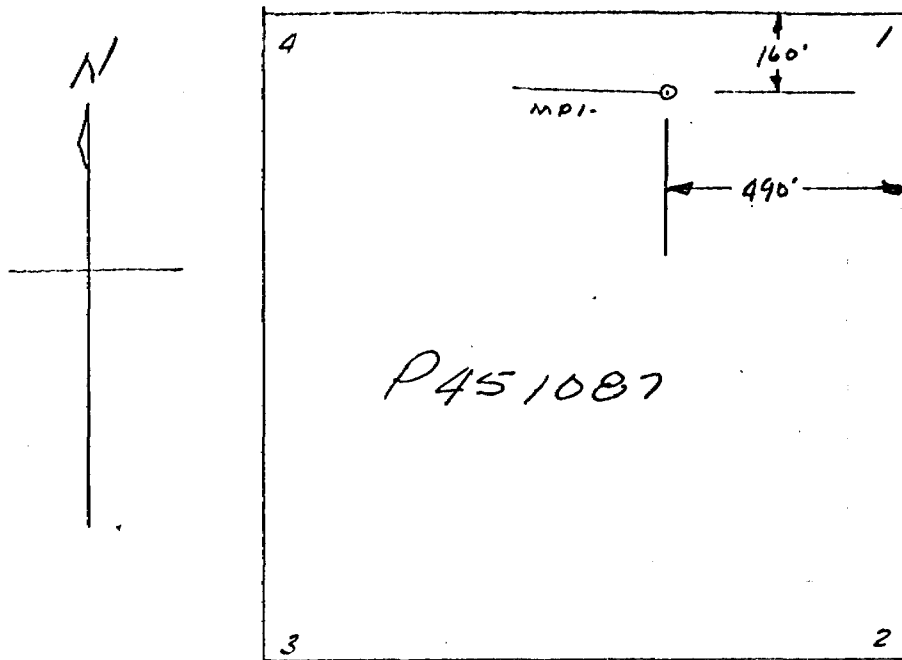
Poulett + MONTCALM TOWNS

Scale 1" = 40 CH.

#91-78

6 M

Plan of D.D.H. MPI-1-78



Montcalm Township

START MAR 31/78

SCALE 1" = 400'

FINISHED APR 9/78

DIA of Core 1.44"

LENGTH 575'

WIRE LINE BQ Core

Dip - 57°

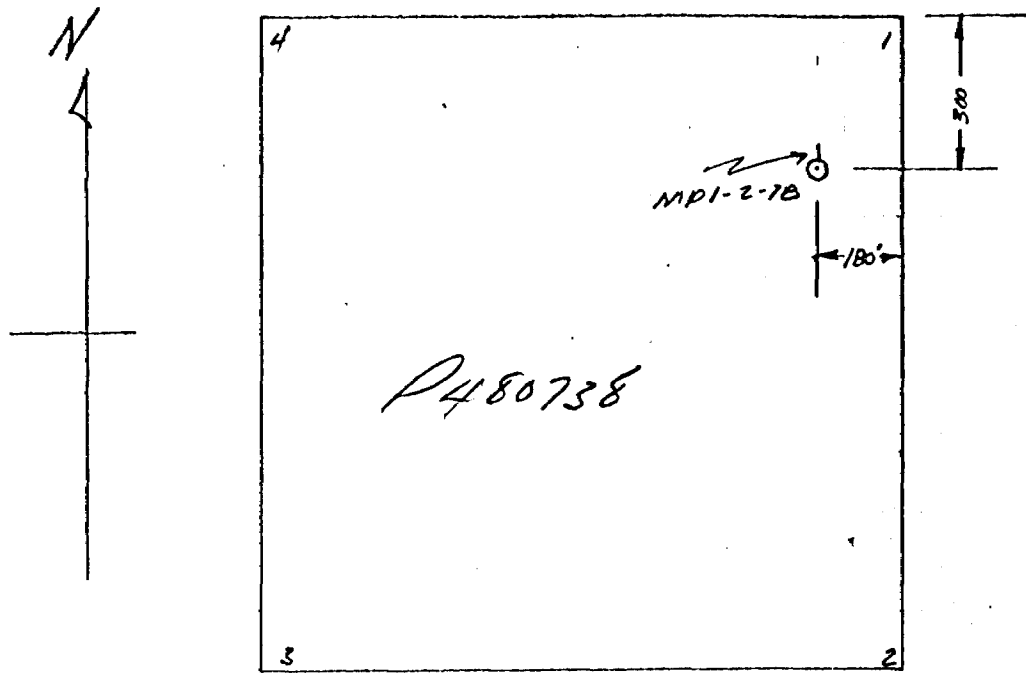
Contractor Bradley Bros

Az 272°

Timmins

J. Allan
 POLYMER LINES LIMITED
 TIMMINS, ONTARIO

Plan of D.D.H MPI-2-78



P480738

START April 11/78

FINISHED Continuing

DIA of Core 1.44"

Wire Line BQ core

Contractor Bradley Bros

Timmins ON

Montcalm Township

Scale 1" = 400'

LENGTH 59'

Dip - 55°

Az 2°

HOLLINGER MINES LIMITED

TIMMINS, ONTARIO

Location of Collar from #1 Post of P-451087

FORM 522

490' West
160' South

DIAMOND DRILL REPORT

HOLE NO. MP1-1-78

1.

NORTH XL 16S
 EAST 4+25E
 ELEV. Surface
 AZIM. Grid West - 272°
 DIP Check Collar @ 57°;
@ 200' - 59°; @ 575' - 56°

COMMENCED March 31, 1978
 FINISHED April 9, 1978

PURPOSE OF HOLE To test VEM & HEM anomalies
w. slight magnetics

PROPERTY MONTCALM-POULETT #1 GROUP

P-451087

BC core

Montcalm Township

Drilled by: Bradley Bros.

FROM	TO	DESCRIPTION	CORE SAMPLES					DESCRIPTION OF SAMPLE
			FROM	TO	RECOV.	WIDTH	ASSAY	
0	182	Casing - original hole (A) collared and lost in boulders at 175'.						
182	270	Diorite - medium grained, medium to dark green in colour, and thoroughly broken from the presence of several(?) faults. Megascopically, the diorite is composed of feldspar, chlorite and hornblende with lesser to rare amounts of mica and quartz noted. The rock is well altered with chlorite and epidote - certain sections of core becoming typically lime green from epidote alteration. Fresh surfaces of core are difficult to find for the diorite is badly broken and invariably the rock breaks along the numerous chloritic slips. Phases of the diorite approach a gabbroic composition - the rock becoming generally darker and weakly to moderately magnetic. Feldspars in the gabbroic portions are usually greenish in colour as opposed to the white to orangish-pink stained(?) feldspars in the diorite.						

DIAMOND DRILL REPORT

HOLE NO. MPL-1-78

NORTH _____
 EAST _____
 ELEV. _____
 AZIM. _____
 DIP _____

PROPERTY MONTCALM-POULETT #1 GROUP

COMMENCED _____
 FINISHED _____
 PURPOSE OF _____
 HOLE _____

Montcalm Township

FROM	TO	DESCRIPTION	CORE SAMPLES					DESCRIPTION OF SAMPLE
			FROM	TO	RECOV.	WIDTH	ASSAY	
		Thin carbonate stringers and the numerous chloritic slips along the core contribute to the blocky nature of this unit. Both stringers and slips are at a shallow angle to the core axis - varying from 0 - 30°.						
		There is considerable lost core near the base of this unit as: 248-254; 256.5-258 and 266-270.						
		Sulphides in the diorite are rare to non-existent with only the occasional speck of pyrite or chalcopyrite noted.						
		The diorite is somewhat finer grained near the base of the unit, and locally strongly stained from orange-red Fe (? - some potassium component?).						
270	400.4	Wide zone of intercalated(?) meta-andesite and diorite. This zone is unusual in that it basically appears to be a metavolcanic although there are distinctly dioritic sections - and when coarser grained, dioritic dykes.						
		In general the sequence proceeds down						

DIAMOND DRILL REPORT

HOLE NO. MP1-1-78

NORTH _____
 EAST _____
 ELEV. _____
 AZIM. _____
 DIP _____

PROPERTY MONTCALM-POULETT #1 GROUP

COMMENCED _____
 FINISHED _____
 PURPOSE OF _____
 HOLE _____

Montcalm Township

FROM	TO	DESCRIPTION	CORE SAMPLES					DESCRIPTION OF SAMPLE
			FROM	TO	RECOV.	WIDTH	ASSAY	
		the hole as - a relatively sharp contact (normally in the range of 30-40°) followed by dioritic rocks grading finer grained with numerous feldspar metacrysts and later with clusters of metacrysts, before reaching another sharp contact and more dioritic-looking rocks.						
		On the whole, the sequence appears to represent a series of coarse flows rather than a dioritic sequence intruding andesitic rocks or carrying included material						
		Erratic coarse dioritic sections in this zone appear to be dykes rather than part of the sequence. Contacts are similarly in the range of 30-40°; however, many contacts are irregular, broken, or along stringer material.						
		The core is still rather badly broken - particularly to 345'.						
		No magnetic sections were encountered.						
		There are a few granitic dykes in this section:						
		330.7-332.7 upper ct broken,						

DIAMOND DRILL REPORT

NORTH _____
 EAST _____
 ELEV. _____
 AZIM. _____
 DIP _____

COMMENCED _____
 FINISHED _____
 PURPOSE OF _____
 HOLE _____

PROPERTY MONTCALM-POULETT #1 GROUP

Montcalm Township

FROM	TO	DESCRIPTION	CORE SAMPLES					DESCRIPTION OF SAMPLE
			FROM	TO	RECOV.	WIDTH	ASSAY	
		lower, irregular; 335.7-336.6 contacts irregular to along core; and 389.4-389.7, contacts broken.						
		The granite dykes are fine to medium grained, granular, silicified and vary from pinkish white to orange-pink in colour. They carry minor chlorite alteration.						
		With depth, the andesitic sections tend to grade darker and more mafic in nature.						
		Rare to negligible sulphides.						
400.4	533.9	After a bit of broken core around 400, the rock becomes more mafic in composition and could be classed as a metabasalt or a fine metagabbro.						
		Overall this unit is darker in colour than previous, is more chloritic, and shows more relative uniformity in the distribution of feldspar metacrysts. Only in local instances are the feldspars clustered and separated by narrow widths of dark, fine grained material. Further, unlike the previous zone, the feldspars show none of the orange-pink staining of the diorites.						

DIAMOND DRILL REPORT

NORTH _____
 EAST _____
 ELEV. _____
 AZIM. _____
 DIP _____

PROPERTY MONTCALM-POULETT #1 GROUP

COMMENCED _____
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 PURPOSE OF _____
 HOLE _____

Montcalm Township

FROM	TO	DESCRIPTION	CORE SAMPLES					DESCRIPTION OF SAMPLE
			FROM	TO	RECOV.	WIDTH	ASSAY	
		Occasionally, fresh surfaces across this unit reveal a rather felted texture of tremolite-actinolite(?).						
		The core is non-magnetic, and effectively unmineralized. Very little broken core in this zone.						
		Stringer injections consist of two types: carbonate and quartz - quartz stringers usually occurring at 55-90° to the core while carbonate stringers appear to indicate two sets at 0-30° and 55-90°.						
		The base of this zone - possibly beginning around 510, becomes slightly lighter in colour and clusters of more dioritic material are noted. The dioritic material is confined to patches averaging 2-5 cm, with orange-pink feldspar, bluish grey quartz and accessory chlorite, hornblende.						
		Granitic dyke - 473.4-474.7 - upper contact @ 54°, lower contact @ 35° with up to 5 cm of bleaching - chloritization on either side of the dyke.						

DIAMOND DRILL REPORT

NORTH _____
 EAST _____
 ELEV. _____
 AZIM. _____
 DIP _____

PROPERTY MONTCALM-POULETT #1 GROUP
 Montcalm Township

COMMENCED _____
 FINISHED _____
 PURPOSE OF _____
 HOLE _____

FROM	TO	DESCRIPTION	CORE SAMPLES					DESCRIPTION OF SAMPLE
			FROM	TO	RECOV.	WIDTH	ASSAY	
533.9	575	<p>Contact @ 52° to another section of intercalated dioritic rocks and andesitic metavolcanics. The sharp contact placed at 533.9 is arbitrary in view of the fact that the rock has graded less mafic since approximately 510'.</p> <p>In some respects this unit is similar to the zone 270-400.4, although here, the coarse grained dioritic portions occur more as irregular patches surrounded by finer grained andesitic material. There is no marked gradation from coarse to fine grained in this section, nor are the feldspar metacrysts as well developed in the metavolcanics.</p> <p>The diorite is generally coarse with orangy-pink feldspars, plus hornblende, chlorite and accessory quartz and mica. There is a general lineation in the dioritic portions running along the core.</p> <p>The andesitic member is dark green and fine grained with scattered feldspar metacrysts and clusters of metacrysts. Chlorite alteration is strong, such that</p>						

DIAMOND DRILL REPORT

NORTH _____
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PROPERTY MONTCALM-POULETT #1 GROUP

Montcalm Township

FROM	TO	DESCRIPTION	CORE SAMPLES					DESCRIPTION OF SAMPLE
			FROM	TO	RECOV.	WIDTH	ASSAY	
		near the end of the hole the rock appears marginal to basalt in composition.						
		Due to the general lineation in the dioritic portions, plus scattered slips and stringers, the core is locally blocky.						
		The core is non-magnetic and effectively unmineralized - only rare traces of pyrite noted.						
		At 536.5-540.5, there is a narrow unit of carbonatized dacite. The dacite is brownish grey and is cut by numerous thread-like stringers of carbonate and sericite-chlorite alteration.						<i>Dale R. Alexander</i> HOLLINGER EXPLORATION
		This unit is weakly brecciated and partly silicified. Upper contact at 40° and irregular, lower contact at 40°.						
		Further, at 555.6-556.5, narrow granitic dyke, as previous. Upper contact @ 30°, lower contact broken - averaging 60°.						
	575	END OF HOLE						

Location of Collar from #1 Post of P.480738 : 180' West
FORM 522 300' South

DIAMOND DRILL REPORT

HOLE NO. MP1-2-78 1
COMMENCED April 11, 1978
FINISHED continuing
PURPOSE OF HOLE To test magnetics

NORTH 55+00S
EAST 4+00W
ELEV. Surface
AZIM. Grid North - 02°
DIP Collar @ -55°

PROPERTY MONTCALM - POULETT #1 GROUP

Montcalm Township

Drilled by: Bradley Bros.

FROM	TO	DESCRIPTION	CORE SAMPLES					DESCRIPTION OF SAMPLE
			FROM	TO	RECOV.	WIDTH	ASSAY	
0	54	Casing.						
54	59	Gabbro - medium to coarse grained and relatively fresh in appearance. The rock varies in colour from medium green to grey green and slightly darker green with changes in chlorite content.						

Dave R. Alexander
HOLLINGER EXPLORATION