



41P02SW0057 0010 GRIGG

010

GRIGG TOWNSHIP REPORT NO. 10

This file contains work performed by Can. Johns-Manville on claims:

S.142967	Hole # GR-67-1	July/67
	GR-71-5	July/71
	GR-71-6	July/71
S.142959	Hole # GR-67-2	Aug/67
	GR-67-3	Aug/67
	GR-67-4	Aug/67
	GR-68-4	Feb/68
	GR-68-5	Feb.68
	GR-71-1	June/71
	GR-71-2	June/71
	GR-71-3	July/71
	GR-71-4	July/71
S.142960	Hole # GR-68-3	Jan/68


























TOTAL: 13 DH

Autopositives enclosed

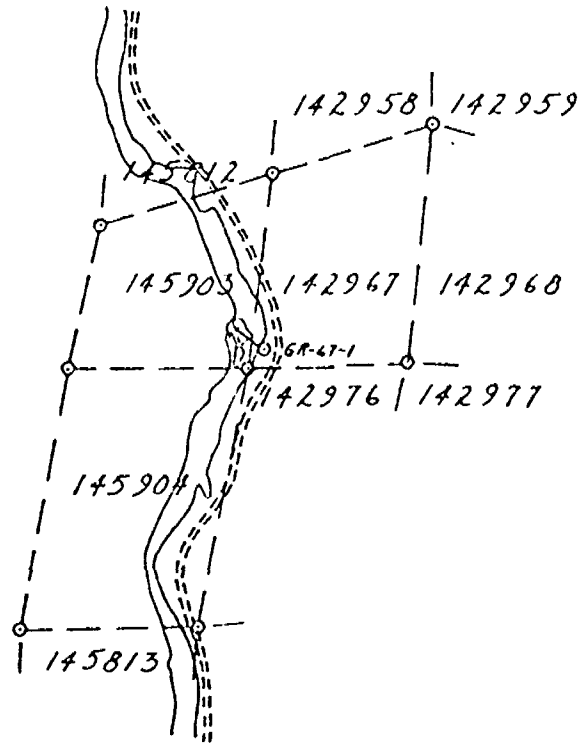
Diamond and other Core Drilling -

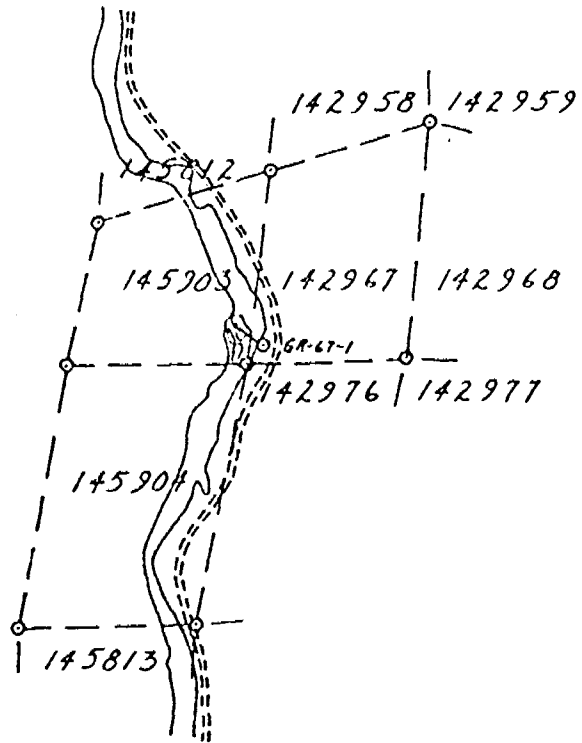
- D. D. H. GR - 67 - 2 - depth 566 feet; dip -45° - "A" core; Inspiration Limited,
North Bay, Ontario.
Date Started: August 1st, 1967
Date Compl'd: August 5th, 1967
- D. D. H. GR - 67 - 3 - depth 288 feet; dip -45° - "A" core; Inspiration Limited,
North Bay, Ontario
Date Started: August 5th, 1967
Date Compl'd: August 7th, 1967
- D. D. H. GR - 67 - 4 - depth 298 feet; dip -90° - "A" core; Inspiration Limited,
North Bay, Ontario.
Date Started: August 7th, 1967
Date Compl'd: August 12th, 1967
- D. D. H. GR - 67 - 5 - depth - 2,251 feet; dip -90° - AQ wireline - Canadian Longyear Ltd.,
North Bay, Ontario
Date Started: November 15th, 1967
Date Compl'd: December 8th, 1967
- D. D. H. GR - 68 - 1 - depth - 1,305 feet; dip -90° ; AQ wireline - Canadian Longyear Ltd.,
North Bay, Ontario.
Date Started: January 4th, 1968
Date Compl'd: January 18th, 1968
- D. D. H. GR - 68 - 2 - depth - 447 feet; Dip -70° ; AQ wireline - Canadian Longyear Ltd.,
North Bay, Ontario.
Date Started: January 20th, 1968
Date Compl'd: January 24th, 1968
- D. D. H. GR - 68 - 3 - depth 303 feet; dip -70° ; AQ wireline - Canadian Longyear Ltd.,
North Bay, Ontario.
Date Started: January 25th, 1968
Date Compl'd: January 30th, 1968
- D. D. H. GR - 68 - 4 - depth 557 feet; dip -75° ; AQ wireline - Canadian Longyear Ltd.,
North Bay, Ontario.
Date Started: February 1st, 1968
Date Compl'd: February 4th, 1968
- D. D. H. GR - 68 - 5 - depth 983 feet; dip -75° ; AQ wireline - Canadian Longyear Ltd.,
North Bay, Ontario.
Date Started: February 7th, 1968
Date Compl'd: February 14th, 1968
- D. D. H. GR - 68 - 6 - depth 1,254 feet; dip -85° ; AQ wireline - Canadian Longyear Ltd.,
North Bay, Ontario.
Date Started: February 29th, 1968
Date Compl'd: March 11th, 1968
- D. D. H. FR - 68 - 1 - depth 447 feet; dip -75° ; AQ wireline - Canadian Longyear Ltd.,
North Bay, Ontario.
Date Started: February 20th, 1968
Date Compl'd: February 24th, 1968

LEGEND SHEET - WANAPITEI - TURNER AREAS

- | | | | | | |
|--|-----|--|--|-----|---|
| 
796 | 16 | Meta Gabbro or Olivine Gabbro | | | |
| 
797 | 16D | Nipissing Diabase | 
796 | 16E | Basic Intrusives |
| 
797 | 15 | Lorraine Quartzite | 
796 | 16F | Olivine Diabase |
| 
798 1/2 | 14E | Gowganda Greywacke - Varved or Laminated | | | |
| 
798 1/2 | 14B | Gowganda Greywacke - Massive | | | |
| 
798 1/2 | 14A | Gowganda Conglomerate | 
797 | 15A | White Quartzite - Argillite |
| 
798 1/2 | 14C | Gowganda Quartzite | 
797 | 15B | Banded Argillite - Minor Impure Quartzite |
| 
798 1/2 | 14D | Gowganda Mud Stone Conglomerate | | | |
| 
798 1/2 | 13 | Espanala Greywacke | 
798 1/2 | 13A | Serpent Quartzite |
| 
799 | 12D | Bruce Limestone | | | |
| 
799 | 12A | Bruce Conglomerate | | | |
| 
798 | 11 | Missisquoi Formation | | | |
| 
799 | 9A | Basal Conglomerate | | | |
| 
798 | 9B | Radioactive Conglomerate | | | |
| 
799 | 8 | Migmatite | | | |
| 
799 | 7 | Basement Complex | | | |
| 
799 | 6 | Meta Sediments | | | |
| 
799 | 1F | Iron Formation | | | |
| 
798 1/2 | 2 | Acid Volcanic - Rhyolite | | | |
| 
799 | 1 | Andesite etc. | | | |

Handwritten signature





D.D. PLAN
GRIGG TWP.
Scale: 1" = 1320'

[Handwritten signature]

DIAMOND DRILL HOLE GR - 67 - 1

Grise Township

Location: 2410' South-West; 3495' South-East.
Date Started: July 22nd, 1967
Date Compl'd: July 27th, 1967
Total Depth: 312'

Bearing: N60°W

Dip: -35°

- 0 - 22' Casing
- 22' Impure quartzite - abundant pyrite crystals developed - are size less than 1 mm. Well bedded sections alternate with massive blue grey quartzite. Banded sections are greenish due to chlorite development. Dark thin bands are chlorite and have associated bed orientated pyrite. The pyrite in the massive quartzite is at random. Specks are about 1 mm apart.
- 22' - 23' Massive
- 23' - 24'5" Some banding - 70° to core axis - (more argillaceous - can easily be scratched by knife)
- 24'5" - 28' Massive - 25' fracture at 35° to core axis.
- 28' - 30' Argillaceous
- 30' - 33' Massive
- 33' - 34' Well banded argillitic - bands 70° to core axis.
- 34' Massive blue grey quartzite - at 45' fracture 45° to core axis; at 46' - 1/4" pink quartz vein 60° to core axis; at 67' - 1/4" pink quartz vein 65° to core axis. Jointing 45° to core axis and 35°. 70' - at this point quartzite becomes arkosic. From 45' the quartzite is mottled and odd quartz patches occur. 77' - 2/3' - argillitic section - bands 60° to core axis; greenish-chloritized. 79' - quartzite grit. 79' - small grit bands appear 2 - 3" wide - with grit 1/4" maximum. 80' - 80'5" grit. 81'5" - 83'5" - grit; 82' - 1/4" argillitic material. 84' - 2" argillitic material - 65° to core axis. 84' - 88' - chlorite noticeable on fractures. 85' - 2" grit band; 87' - 2" grit; 88' - 2" grit. 91'5" - 1/4" quartz vein at 65° to core axis. 96' - 96'5" - grit - matrix a little darker. 97'5" - 99' - grit. 99' - 101' greenish grit - 1/8" grain; 99' thin argillite parting. 101'2" - 3" argillitic material and pyrite. Impure massive quartzite and odd pebbles. 104'5" - impure grit - 3" grit band - 1/4" grit grading to fine grit until 107'. 109' - 112' gritty quartzite. 112'5" - 113' argillitic 113' - 115' massive quartzite plus 1/2" quartz stringer. 115' - 116' green band quartz fragments in chlorite. 116' - 118' grit - coarse grained fine bottom - 1/4" and 1/8". 118' - 121' massive quartzite.

- 121' Gritty quartzite - 1/4" and 1/8" fractures.
 138' - 1/2" quartz stringer.
 144' - argillitic parting.
 152' - 2 x 1/4" argillite beds - 90° and 60° to core axis.
 158' - 1/4" argillite band (sandstone)
 161' - 2" green chloritic section and quartz grit.
 162' - 2" chloritic section and quartz grit.
 164'5" - 5" chloritic section.
- 170' - 196' Conglomerate - up to 1/2" quartz pebbles with fine black parting planes
 - argillitic - 75° to core axis.
 Conglomerate - 171'5" - 175' - quartzite matrix.
 175' - the matrix is a very dirty brown to black siltstone. Thin bands
 of pure siltstone occur at 176' - 1/4" band; 179' - 1/4" band; 183' -
 1/2" band; 183'5" - 1" band; 184' - 1/4" band; 185' - 1" band; 186' -
 187' - 1" band; 193' - 1" band; 194' - 1 1/2" band.
- 196' - 208' Siltstone - siltstone alternates with grit every 1/2" or 1".
 203' - 204' - 3" grit band. Parting at 65° to core axis. 196' - some
 chalcopyrite, specks of pyrite all through - usually elongated parallel
 to the bedding.
- 209' - 252' Conglomerate. Orientated or flattened quartz pebbles in a dark brown
 to black silty matrix. The pebbles are clear quartz and their size
 ranges up to 3/4" x 1/2". An occasional one going over 1" x 1/2".
 Orientation is 70° to core axis. Intercalations of siltstone are
 frequent. Pebbles are poorly water worn - many angular edges.
 Siltstone - 214' - 215'; 217' - 218' - 3"; 218' - 219'; 221' - 223'5";
 224' - 225.
 229'5" matrix changes to quartzite - rock is blue grey in colour.
 243'5" - 245' - siltstone dark brown to black.
 245' - 246' conglomerate - siltstone matrix.
 246' - 252' - siltstone - black.
- 252' - 260' Grey - impure gritty quartzite.
 Heavy pyrite bands 260' - 262' and 263'5" - 264'5".
- 272' - 312' Basal migmatite.
- 312' END OF HOLE.

Logged by: P. A. R. Brown.

P. A. R. Brown

Grigg Township

Location: 187' South of R/L; 26400.

Date Started: August 1st, 1967

Date Compl'd: August 5th, 1967

Total Depth: 566'

Bearing: N47°W

Dip: -45°

0	-	6'	Casing
6'	-	18'	White quartzite with slight yellow tint due to weathering-a little pyrite.
18'	-	41'	Grey quartzite with gneissic banding at 70'; 1 mm grains; 6" greywacke at 24'.
41'	-	49'	Greywacke.
49'	-	55'	Grey impure quartzite - a little pyrite - disseminated and with stringers.
55'	-	68'	Light grey coarse grained quartzite - 2 1/8" pyrite stringers at 62'.
68'	-	72'	Gradational zone from greywacke to impure quartzite top south pyrite stringers up to 1/4".
72'	-	79'	Grey quartzite - some pyrite. 74' - 75' - greywacke; 75' - 80' - coarse to medium grained quartzite.
80'	-	83'	Greywacke
83'	-	98'	Grey medium grained quartzite.
98'	-	100'3"	Greywacke; at 98'7" pyrite at 60°.
100'3"	-	125'	Grey variable impure quartzite; 107' - 108' greywacke - local pyrite.
125'	-	150'	Grey impure quartzite with grains up to 4 mm.
150'	-	175'	Gritty, grey quartzite - 5 mm grains - 157' 2" argillite; 173' 2" grains green quartz.
175'	-	186'	Quartz pebble conglomerate - maximum 3/4".
186'	-	201'	Gritty grey quartzite.
201'	-	211'5"	Quartz pebble conglomerate - 1/4" pebbles; 206' - 207' argillite.
211'5"	-	214'	Argillite
214'	-	238'	Medium grained quartzite - a few 1/4" pebbles.
238'	-	238'5"	Argillaceous pebble bed.
238'5"	-	246'	Variable siliceous greywacke; 8" greywacke at 257'.

GR - 67 - 2 (cont'd)

<u>Footage</u>	<u>Description</u>
246' - 267'	Medium grained grey quartzite
267' - 270'	Greywacke - a few 1/8" pebbles.
270' - 275'	Pebble conglomerate - siliceous greywacke matrix - 1/8" pebble.
275' - 283'	Medium grained impure quartzite - few 1/4" pebbles.
283' - 298'5"	Quartz pebble conglomerate - local pyrite - 1" pebbles; at 292' - 299' - argillite.
298'5" - 365'	Dark grey gneissic quartzite - pinkish 298'5" - 300', 317' - 317'5", 2" argillite at 306'; 4" quartz vein 307'; 326' - 330' 3/4" pink stringers; 330'7" - 1" argillite; 331' - 332' 70% quartz feldspar. 339'5" - pink quartz feldspar out long for 6"; 348'5" - 4" greywacke. 354'5" - 362'5" pegmatite 70% feldspar; 25% quartz; contact 25°.
365' - 384'	Chloritic meta-diorite - dark bluish green.
384' - 387'5"	Dark grey gneissic quartzite.
387'5" - 399'6"	Chloritic meta-diorite
399'6" - 450'	Dark grey gneissic quartzite; 432' - 9" pegmatite; 434' - 6" pegmatite; 444' - 2" chlorite.
450' - 480'3"	464' - 1' pinkish granitization; contact 35°.
480'3" - 501'	Dark green fine grained amphibolite
501' - 508'5"	Dark gneissic quartzite.
508'5" - 512'	Amphibolite.
512' - 532'5"	Dark grey gneissic quartzite; reddish alteration 512' - 517'; 1/2" pink stringers 517'; 531'5" - 532'5" pink pegmatite, feldspar, quartz and muscovite.
532'5" - 537'5"	Very dark green. Biotite altered argillite.
537'5" - 542'5"	Granitized sediments out at 45° - fault contact at 542'5" at 25° normal to lineation.
542'5" - 550'	Fine grained dark green amphibolite - 8" quartzite at 544'.
550' - 566'	Dark grey gneissic quartzite - a little chalcopyrite; 565' - 566' amphibolite.
566'	END OF HOLE.

Logged by: C. S. Longley.

C. S. Longley

S.E

N.W

MISSISSAUGI ARROSE QUARTZITE

Blue Quartz Pebble Conglomerate

Impure Dark Gray Quartzite - Gritty

SILTSTONE

IMPURE DARK GRAY QUARTZITE + GRIT BEDS

Impure Dark Gray Quartzite

Quartz Pebble Conglomerate
with silty matrix

Amphibolite on contact of Basement

Granitic / Amphibolitic Basement

566'

CANADIAN JOHNS-MANVILLE CO. LTD.

MATHESON

ONTARIO

D.D.H. GR-67-2

GRIGG TWP.

SCALE 50 FT. DATE AUG. 1967

DRAWN

TRACED

APPROVED

A. C. [Signature]

DIAMOND DRILL HOLE GR - 67 - 3

Location: 37415E; 2410 North of B/L
 Date Started: August 5th, 1967
 Date Compl'd: August 7th, 1967
 Total Depth: 288'

Dip: -45°
 Bearing: $N51^{\circ}W$

<u>Footage</u>	<u>Description</u>
0 - 10'	Casing
10' - 28'5"	Medium grained, medium to dark grey gneissic quartzite; quartz grains maximum 2 mm; 85% quartz. Dark mineral causing dark colour due probably to biotite in small plates. Disseminated crystalline pyrite - not more than 1%. Amethystine quartz in 1/8" quartz stringer at 27' cut at 80° . Probably fluorite.
28'5" - 29'7"	Fine grained grey gneissic quartzite, sericite. The sericite and grain size probably due to proximity to pegmatite. Contact at 35° .
29'7" - 30'2"	Pegmatite stringer - mostly quartz. Contact 20° .
30'2" - 32'5"	Sericitic fine grained altered quartzite as above - a few fine pink aplite veinlets.
32'5" - 40'3"	Pegmatite 10%. 1" of greenish grey muscovite. Pink feldspar several inches long - 15% quartz.
40'3" - 43'	Dark grey phyllite biotite, chlorite and probably quartz.
43' - 76'	Gneissic quartzite medium to coarse grained, medium mottled grey; 85% quartz; at 63' - 2" sericitic - quartz shear zone cut at 50° with associated phyllite. At 71' - 4" pegmatite stringer out at 60° and 35° .
76' - 77'2"	Biotite schist at 60° .
77'2" - 99'3"	Grey medium to coarse grained gneissic quartzite; pyrite slightly pink 95' - 99'2"; 79' - 2" pegmatite stringer.
99'3" - 100'6"	Pegmatite stringer out at 35° and 20° .
100'6" - 156'5"	Medium to dark grey gneissic quartzite with pyrite. 108'8" - 112' biotite chlorite schist out at 55° - also pyrite 133' - 3" pegmatite stringer out at 30° 144' - 1/8" biotite stringer at 40° 144'6" - 145' pegmatite - broken core.
156'5" - 162'3"	Greenish rhyolite locally a little pyrite; 153' broken core - cave ?
162'3" - 184'	Medium grey medium grained gneissic quartzite.
184' - 185'	Pink pegmatite out at 10° ; 90% feldspar.
185' - 189'	Fine medium grained altered quartzite.
189' - 192'	Pink pegmatite - 75% feldspar.

GR - 67 - 3 (cont'd)

Footage

Description

192' - 199'5" Fine to medium grained gneissic quartzite - contact 10°.

199'5" - 204'5" Deep pink pegmatite 80% feldspars - 4% muscovite.

204'5" - 213'5" Medium to fine grained gneissic quartzite.

213'5" - 215'2" Pegmatite - 1/4" purple fluorite at 213'7".

215'2" - 223'5" Medium to fine grained gneissic quartzite.
222'3" - 223'5" - 1/2" gneissic stringer cut long.

223'5" - 235'5" Pink pegmatite at 233'; included quartzite mesh 1/8" epidote stringer at 45°.
226' - 228' - 1" mica books.
233'3" - 2" quartz pebble remnants.

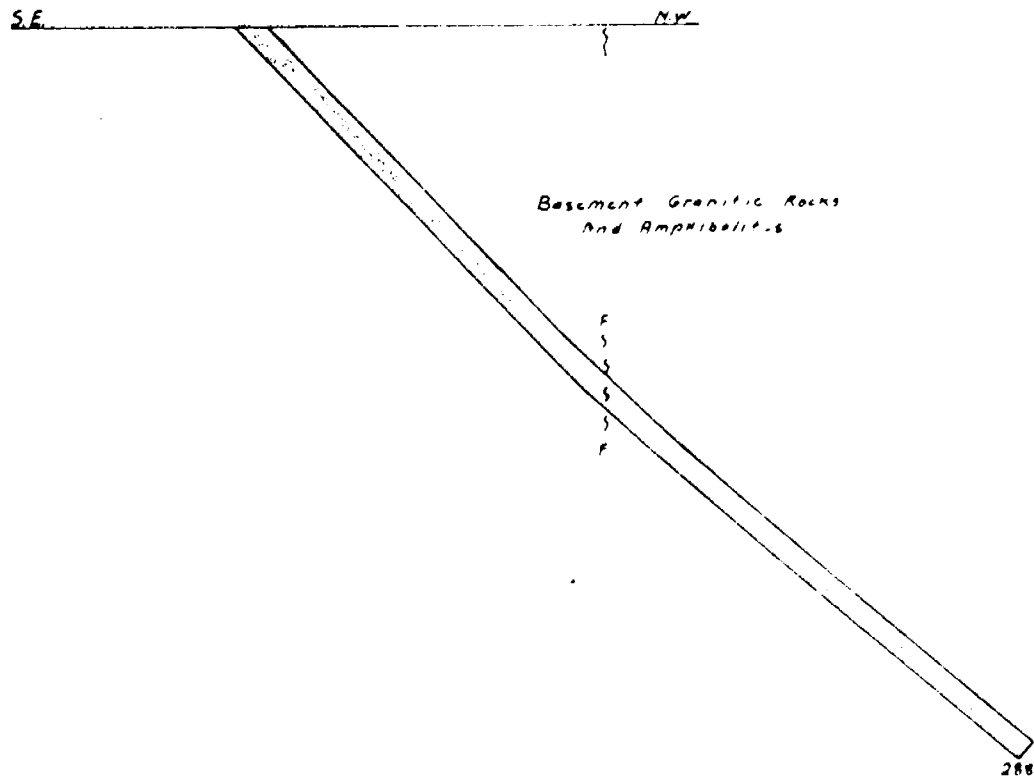
235'5" - 276' Medium to coarse grained gneissic quartzite.
241'7" - 242'4" pegmatite out at 22°; 243' - 1" quartz pegmatite.
244'5" - 245'3" pegmatite cut at 15°; 245' pinkish due to alteration by pegmatite. 276' gradational contact.
267'8" - 269'4" pegmatite - contacts at 23° and 70°.

276' - 287' Dark greenish grey phyllite with two foot section sericitic medium grey out at 53°. Core mixed.

288' END OF HOLE.

Logged by: G. S. Longley.





CANADIAN JOHNS-MANVILLE CO. LTD.	
MATHESON	ONTARIO
DDH. GR-67-3	
GRIGG TWP.	
SCALE 1" = 50 FT.	DATE AUG. 1967
DRAWN	
TRACED	
APPROVED	

Handwritten signature

DIAMOND DRILL HOLE GR - 67 - 4

Location: Line 36430; 5475
 Date Started: Aug. 7th, 1967
 Date Compl'd: Aug 12th, 1967
 Total Depth: 298'

Grigg Township.

Elev. of Collar: Surface

Dip: -90°

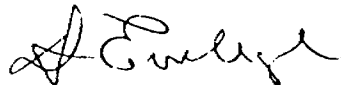
<u>Footage</u>	<u>Description</u>
0 - 5'	Casing
5' - 6'	Quartz pebble conglomerate 25% pebbles; 1/2" dark matrix.
6' - 8'5"	Quartz pebble conglomerate 5% pebbles; 1/2" dark matrix at 7'5"; @ 8' light
8'5" - 9'6"	Quartzite with 1/8" grains - a little pyrite.
9'6" - 10'	Gneissic quartzite.
10' - 14'3"	Quartzite grit; light grey; 12'5" - 13' fine grained with pyrite out at 60°
14'3" - 17'5"	Quartzite with pebbles, greywacke, 2" siltstone 65 & 80° at 15'2".
17'5" - 20'	Medium grey quartzite - a few 3/16" pebbles.
20' - 22'	Quartz pebble conglomerate - quartz up to 2".
22' @ 25'	Interbedded greywacke and quartzite with pebbles.
25' - 36'3"	Medium grey quartzite with pebbles up to 1/4".
36'3" - 44'	Greywacke with argillite bands out at 80°
44' - 46'5"	Pebble conglomerate - 1" pebbles, greywacke matrix.
46'5" - 51'6"	Siliceous greywacke out at 80° - top up.
51'6" - 55'	Quartz pebble conglomerate - 1/4" pebbles
55' - 58'	Argillite - siltstone - irregular bedding at 80° - a little pyrite.
58' - 64'2"	Quartz pebble conglomerate - local 1" pebbles - a little pyrite.
64'2" - 66'5"	Argillite out at 75° - a little pyrite.
66'5" - 75'7"	Quartzite with 3/16" pebbles.
75'7" - 83'3"	Greywacke - a little pyrite. Local pebbles 78 & 80°
83'3" - 87'5"	Quartz pebble conglomerate - 3/4" pebbles - greywacke matrix.
87'5" - 93'5"	Greywacke - siltstone, pyrite on joints.
93'5" - 99'	Quartz pebble conglomerate - scattered pebbles up to 1".
99' - 108'	Greywacke with local pebbles especially at 103'4" - 105'4"
108' - 125'	Impure quartz with 3/4" pebbles at 110' - 113' and 121' - 123'.

DIAMOND DRILL HOLE GR - 67 - A

Page 2.

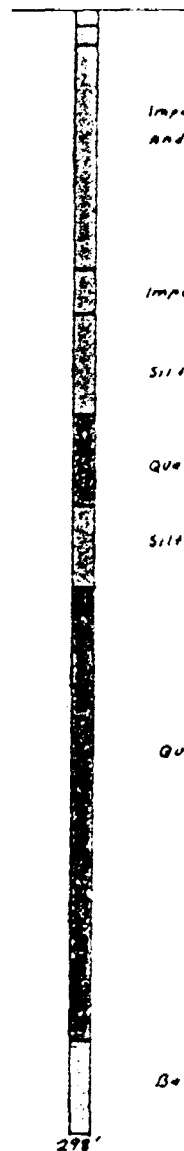
<u>Footage</u>	<u>Description</u>
125' - 135'	Fine to medium grained greywacke with siltstone beds out at 75°
135' - 137'	Intricately crossbedded siltstone.
137' - 138'	Fine grained greywacke.
138' - 143'	Light grey uniform greywacke.
143' - 154'	Contorted thinly bedded dark grey greywacke out at very low angle.
154' - 200'	Conglomerate, siliceous matrix. Pebbles 85% quartz. Local pyrite 191'5" - 193', out at low angle. At 198'5" - 200' argillite matrix. Quartz pebbles maximum 2".
200' - 253'	Conglomerate 50% quartz up to 2" and 40% at 1/2". Dark pebbles. Greywacke matrix. A little pyrite. 218' - 2" argillite band at 19°. 227'5" - 4" argillite at 27°. 246' - 248' darker with 1/8" quartz grains.
253' - 261'	Quartz pebbles up to 2 1/2".
261' - 264'6"	Smaller pebbles - grit with black grains predominating, a few 1/2" light pebbles. A little pyrite - 2% at 257' - 259'.
264'6" - 273'	Pink - grey pegmatite.
273' - 298'	Light pink pegmatite - 75% feldspar pink - 157' quartz, 10% muscovite.
298'	END OF HOLE.

Logged by: C. S. Longley.



S.E

N.W.



*Impure Quartzite, Siltstone
and Pebble Beds Rapidly Alternating.*

Impure Quartzite

Siltstone Dominates Thin Pebble Beds

Quartz Pebble Conglomerate

Siltstone Dominates Thin Pebble Beds

*Quartz Pebble Conglomerate with Siltstone Matrix
A Few Argillite Bands*

Basement Pegmatitic Granite

298'

CANADIAN JOHNS-MANVILLE CO. LTD.

MATHERON

ONTARIO

D.D.H. GR-67-4

GRIGG TWP.

SCALE 1" = 50 FT. DATE AUG. 1967

DRAWN

TRACED

APPROVED

[Handwritten signature]

DIAMOND DRILL HOLE GR - 68 - 3.

Grise Township

Location: Line 34+00E; 12+28' S of B/L;

and: 0+10' South of Line 34+00E.

Date Started: January 25th, 1968

Date Compl'd: January 30th, 1968

Total Depth: 303'

Bearing: Due North

Dip: -70°

Acid Test @ 300'; Dip -72°, Correction-66°

0	-	12'	Casing - gravel - boulders.
<u>12'</u>	-	<u>169'</u>	Light grey feldspathic quartzite.
12'	-	37'	Light grey feldspathic quartzite, medium grained, minor disseminated pyrite, beds dip at 40° across core. 3" grit section at 22' - 22.3'. Slip at 32' - 20° down core. Fracturing tight. Rock massive.
37'	-	61'	Medium grained to 45'. 45' - 48.6' fine grained quartzite, massive. Little or no pyrite. 48.6' - 52' medium to coarse feldspathic, light grey, black streaks along beds at 70° across core, not active. Possibly magnetite. 52' - 61' dark grey fine grained quartzite. Fractures at 40° across core. 3" pebble bed at 55.6', minor pyrite, not active.
61'	-	86'	61 - 61.6' 1/2" quartz pebble. Gritty bed at 52' - 63', little disseminated pyrite, bed dips at 50° across core. Not active. At 63' - 71.6' light grey to dark grey to blackish beds dip at 40° across core - medium to coarse grained quartzite. Coarse feldspars at 70' - 70.6'. At 71.6' - 73' fine silt bed dips at 40° across core. Fine pyrite on slip faces. Reading .07X, setting IX, background .03X. 73' - 86' light grey coarse grained feldspathic quartzite, minor disseminated pyrite.
86'	-	111'	Quartzite light grey, black streaks along beds, dip at 45° across core, coarse feldspars, minor pyrite.
111'	-	136'	Light grey, coarse grained quartzite to 115'. Dark grey fine grained from 115' down. Narrow 1/2" silt beds at 117.6' - 129' - 132'. Reading .06X on IX scale. Silt beds dip at 80° - 90° across core. 126' - 127' coarse grained feldspathic quartzite, dark grey, minor disseminated pyrite. 127.6' strong slip at 10° to core axis.
136'	-	160'	Dark grey medium grained feldspathic quartzite, fine disseminated pyrite throughout and on slips. Not active. 1/4" quartz fracture at 50° across core.
160'	-	183'	2" silt bed at 159.6', reading .06X on IX scale. At 160.6' - 1" silt bed, at 161' - 1" silt bed; 163' - 164' silt bed; 168.6 - 169 - dark blackish silt bed, while all others are more olive in colour. Reading .06X on IX scale. 166' - 167' grit bed - low activity .04X. Minor pyrite, traces of pyrrhotite and chalcopyrite. Sample taken at 159.6 - 161' = 18" (#1); and sample taken 163' - 164' = 12" (#2).
<u>169'</u>	-	<u>180'</u>	Contact. Amphibolite, fine grained, slight shearing, dip -60° across core. Minor pyrite on slips. Fracture angle at 50° across core.
<u>180'</u>	-	<u>184'</u>	White quartz vein - barren.

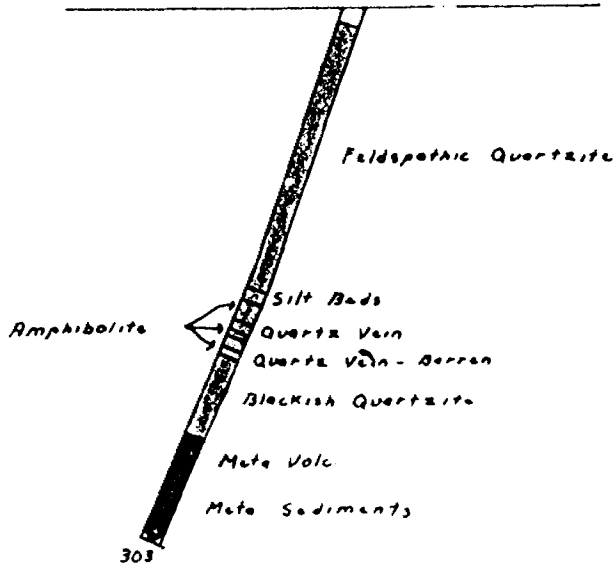
<u>184'</u>	-	<u>186.6'</u>	Amphibolite - massive.
183'	-	208'	Amphibolite - massive.
<u>186.6'</u>	-	<u>192'</u>	Barren quartz vein, mottled with chlorite, cubic pyrite on fracture.
<u>192'</u>	-	<u>197'</u>	Amphibolite, massive.
208'	-	233'	Amphibolite, massive.
<u>197'</u>	-	<u>244'</u>	Dark grey to near black fine grained quartzitic zone.
233'	-	257'	Dark grey to near black, fine grained quartzitic zone out with narrow quartz fractures dipping from 30 - 50° across core. 3" vein at 207.8' with disseminated fine chalcopyrite - pyrite.
<u>244'</u>	-	<u>263'</u>	Meta Volcanics.
257'	-	282'	Meta volcanics, gneissic in appearance, lineation dips at 50° across core.
<u>263'</u>	-	<u>303'</u>	Meta sediments.
282'	-	303'	Meta sediments. Lineations at 30° across core, gneissic in appearance. Slips at 50° across core.
		303'	END OF HOLE.

Logged by: R. F. Kaltwasser.

R. F. Kaltwasser

N

S



CANADIAN JOHNS-MANVILLE CO. LTD.

MATHESON

ONTARIO

D.D.N. GA-68-3

GRIGG TWP.

SCALE 1"=100 FT.

DATE JAN. 1968

DRAWN

TRACED

APPROVED

Handwritten signature

DIAMOND DRILL HOLE OR - 68 - 4.

Oriskany Township

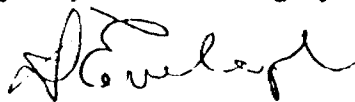
Location: 30+18N and 0+40E; No. 1 B/L Grid
Date Started: February 1st, 1968
Date Compl'd: February 4th, 1968
Total Depth: 557'

Bearing: N25°E
Dip: Tro Pari Tests
N25°E -75° - surface
N27°E -76° - 200'
N23°E -77° - 505'

<u>Footage</u>	<u>Description</u>
0 - 5	Casing
5 - 20	Very light grey coarse to medium grain quartzite, black speckles. A few 1/8" grains at 6' - 7.5'
20 - 30	Medium grain, very light grey quartzite. 20' - 6" greywacke band at 80°.
30 - 49	Very light grey quartzite. 35.5" - 4" greywacke band at 80°; 42' - 3/4" quartz pebble. 42.5' - 4" greywacke band at 75°.
49 - 50.5	Greywacke - a few pebbles.
50.5 - 116	Light grey coarse to medium grain quartzite. 52' - 53.5 - 3/16" conglomerate 59' and 64' dark streaks with a suggestion of bedding at 70 - 80°. 68' - 69' some small pebbles. 86' - 1/4" argillite at 80°. 77' - 116' some quartz pebbles - 10% - 1/8". 92' argillite contact at 85°. 100' - 1/2" quartz at 5°; at 105' - 1/4" quartz at 15°.
116 - 120	Argillite greywacke and pebbles - 1/4" conglomerate cut at 75°.
120 - 125.5	Greywacke and siltstone cut at 65°, 30° and 50°.
125.5 - 249.5	Light grey with speckled quartzite grains 1 - 3 mm in size. 129' - 130.5' sheared at 30°. 133' - 135' light grey fine grained greywacke. 153.5' - 155.5' greywacke argillite bands. Sharp contact 153.5 - 80° 162.5' - 4" argillite at 70°; at 163.4' - 3" argillite at 70° 167' - 168' fine grained grey quartzite. Fine grained grey quartzite cut at 70° at 186' - 187'; 187.5', 188.5' - 189.5'; 205.5' - 206'; 208' - 209'; 197' - 199', 215' - 218', 222' - 1". 232' - 235' - quartz conglomerate with 3/4" pebbles.
250	5" argillite band - bedding at 75°.
249.5 - 285	Basal conglomerate. Quartz pebbles up to 1 1/2" in 250' - 253' section. A little pyrite in pebbles. Siliceous matrix. At 267.5' quartzite cut at 80°. 276' - 1/4" argillite at 75° - mostly fine pebbles - 1/8". Local 1/2" pebble.
285 - 291	Quartz conglomerate - some pyrite.
291 - 292.5	Argillite cut at 60°.

<u>Footage</u>	<u>Description</u>
292.5 - 333	Light grey grit beds with conglomerate at 295' - 296'; 313' - 314'; 317' - 318'; 320' - 325'. 325' - 326' fault zone out at 15 - 25°.
333 - 350	Grey argillite greywacke. Fine black streaks. A little pyrite.
350 - 353	Conglomerate
353 - 370.5	Grit beds with local pebbles. 365' argillite out at 65°.
370.5 - 372	Argillite with black streaks.
372 - 429	Grit beds. Local conglomerate and 2" argillite lavas at 60°.
429 - 432	Conglomerate bed - sampled.
432 - 491.5	Mostly conglomerate with narrow grit beds. Local pyrite. 471' bedding 60° - contact at 50° at 491.5'.
491.5 - 522	Argillite greywacke with fine black streaks out at 35° - a few at 15° across main set. Some pyrite. May be Pre-Huronian.
522 - 533.5	Grey gneissified quartzite greenish cast. Some pyrite.
533.5 - 538	Chilled contact - meta-diorite. Inclusion at 535'. 6" quartz at 532'.
538 - 557	Fine to medium grained greenish meta-diorite. 553' - medium grained.
557	END OF HOLE.

Logged by: C. S. Longley.



DIAMOND DRILL HOLE GR - 68 - 5.

Grigg Township

Location: Line 26400E; 7425'S.
Date Started: February 7th, 1968
Date Compl'd: February 14th, 1968
Total Depth: 983'

Bearing: N3°W
Dip: -75°30'
Tro-Pari Tests
200' N1°W -75°
400' N7°E -73°
975' N14°E -67°

<u>Footage</u>	<u>Description</u>
0 - 27'	Casing - boulders to 22'.
23' - 25'	Coarse grained light grey quartzite; light grey flecked with 2 mm dark flecks that may be biotite - a few quartz grains up to 4 mm in size, especially at contact at 60°.
25' - 31'	Fine grained grey quartzite; at 26' rusty joint; 25'5" lamination at 40°
31' - 41'	Medium grained variable light grey quartzite.
41' - 58'	Coarse grained variable light grey quartzite. 41' - 42' 1/8" quartz stringer out longitudinal - a little pyrite. 48' - 58' speckled with dark mineral. Lamination near contact at 45°. 44'5" pyrite on joint.
58' - 67'	Medium grained grey quartzite.
67' - 92'	Coarse grained speckled light grey quartzite. 67' - 68' 1/4" quartz stringer out at 3°. 72' - 73'5" medium grained grey quartzite. 81' - 82.5' medium grained grey quartzite. 82' pyrite on joint 10°. 85' - 90' joints out at low angle.
92' - 100'	Medium grained grey quartzite.
100' - 111'	Coarse grained light grey speckled quartzite, 0.5 mm grain size. 109' - 111' joint out longitudinally.
111' - 127'	Medium grained grey quartzite; 121' - 127' mottled; 112' - 113' irregular 1/2" quartz stringer out at 0°; a little pyrite.
127' - 139'	Speckled coarse grained light grey quartzite, arkosic.
139' - 147'	Grey medium grained quartzite, joints out longitudinally at 139' - 140.5' and 143' - 145'.
147' - 165'	Speckled coarse grained quartzite; 155' - 159' sheared along core; 164' pyrite on shear.
165' - 168'5"	Medium grained grey quartzite; 167' longitudinal shear; contact lamination 40 - 50°.
168'5" - 174'	Coarse grained light grey quartzite, contact shear 50°.
174' - 184'	Medium grained grey quartzite, contact 40°.
184' - 190'	Coarse grained speckled light grey quartzite; contact lamination with pyrite at 40°.

<u>Footage</u>	<u>Description</u>
190.0-193.0	Coarse medium grained grey quartzite
193.0-246.5	Coarse grained light grey speckled quartzite, local quartz pebbles up to 3/16"; 1/8" pyrrhotite at 213'; 198'-1/8" pyrrite at 70°; 213.5'-1/8" pyrrhotite at 70°. Medium grained at 200'-198'-198.5', 205'-208', 226'-230'; at 234.5' pyrite on 55° joint. 235.2' zone with soft or soluble mineral washed out. 237'-242' coarse to medium grained with 1/8" grains.
246.5-260.0	Variable medium to coarse grained with 1/8" pebbles.
260.0-276.7	Grit bed with coarse grained quartzite; 263' 1/8" pyrite at 60°, contact irregular at 60°.
276.7-280.0	Argillite-greywacke pebble bed; 277.3' 3/4" quartz at 15°.
280.0-412.0	Quartz grit pebble bed, 1/8" grains, quartzite matrix, 311' 1" argillite at 70°; 320' 1" argillite irregular; 327'-3" argillite at 80°; 328'-5' piece of core. 335' pyrite on 5° joint; 337'-338 joint 5°; 343'-2" argillite at 80°; 347' lamination at 40°; 348' shearing at 10°; 353'-6" argillite bed (irregular); 352' pyrite on joint; 356'-2" irregular bed of argillite; 376'-2 1/2" argillite; 377'-2 1/2" bands of argillite; 380' joint at 60°; pyrite on joint at 20°. 357'-1" argillite bed sheared at 40°; 360'-362' joint with pyrite cut longitudinal. 366.5'-366.8' irregular argillite cut at 80°; 386.5-386.8 argillite; 387.2-388.6 argillite; 389.5'-390' argillite. 396.3'-396.5' argillite at 80°; 398'-400' argillite and greywacke; 408' pyrite.
412.0-413.0	Fine grained grey greywacke
413.0-452.0	Mottled coarse medium grained quartzite, 10% grains 1/8". Local lamination 55-70°, light to medium colour. 424'-4" argillite at 70°; 435'-1" argillite at 30°; 437' jointing 20-25°. Pyrite. 445' chalcopyrite; 446.6'-5" of core meta-diorite.
452.0-512.0	Uniform light to medium grey quartzite, 10-15° grain plus 1/8" 468'-469' fine to medium grained grey greywacke. 475.4-475.5' argillite; 492.7-493' greywacke at 80°; 498'-2" greywacke at 85°
512.0-525.0	Light grey speckled quartzite; 517'-517.3' greywacke at 70°; 520.8-2" greywacke at 75°.
525.0-528.0	Grey fine to medium grained greywacke
528.0-546.5	Variable light to medium grey quartzite, local coarse to medium grained speckled with fine medium grained quartzite, locally 15% quartz grains.
546.5-548.0	Grey greywacke
548.0-567.0	10% pebbles plus 1/8" quartzite, 1/8" at 565'
567.0-570.0	Argillite - silstone cut at 75°.

DUPLICATE CC
POOR QUALITY ORIGINAL
TO FOLLOW

<u>Footage:</u>	<u>Description</u>
190' - 193'	Coarse medium grained grey quartzite.
193' - 216.5'	Coarse grained light grey speckled quartzite, local quartz pebbles up to 3/16"; 1/2" pyrrhotite at 213'; 198' - 1/8" pyrrite at 70°; 213.5' 1/8" pyrrhotite at 70°. Medium grained at 209' - 202', 198' 198.5', 205' - 208', 226' - 230'; at 234.5' pyrite on 55° joint. 235' 2" zone with soft or soluble mineral washed out. 237' - 242' coarse to medium grained with 1/8" grains.
246.5' - 260'	Variable medium to coarse grained with 1/4" pebbles.
260' - 276.7'	Grit bed with coarse grained quartzite; 263' 1/4" pyrite at 60°, contact irregular at 60°.
276.7' - 280'	Argillite - greywacke pebble bed; 277.3' 3/4" quartz at 15°.
280' - 412'	Quartz grit pebble bed, 1/8" grains, quartzite matrix; 311' 1" argillite at 70°; 320' 1" argillite irregular; 327' - 3" argillite at 80°; 328' - 5' piece of core. 335' pyrite on 5° joint; 337' - 3" joint 5°; 343' - 2" argillite at 80°; 347' lamination at 40°; 348' shearing at 10°; 353' - 6" argillite bed (irregular); 352' pyrite on joint; 356' - 2" irregular bed of argillite; 376' - 2 1/2" argillite 377' - 2 - 1/2" bands of argillite; 380' joint at 60°; pyrite on joint at 20°. 357' - 1" argillite bed sheared at 40°; 360' - 362' joint with pyrite cut longitudinal. 366.5' - 366.8' irregular argillite cut at 80°; 386.5' - 386.8' argillite; 387.2' - 388.6' argillite; 389.5' - 390' argillite. 396.3' - 396.5' argillite at 80°; 398' - 404' argillite and greywacke; 408' pyrite.
412' - 413'	Fine grained grey greywacke.
413' - 452'	Mottled coarse medium grained quartzite, 10% grains 1/8". Local lamination 55 - 70°, light to medium grey colour. 424' - 4" argillite at 70°; 435' - 1" argillite at 30°; 437' jointing 20 - 25°. Pyrite. 445' chalcopyrite; 446.6' - 5" of core meta-diorite.
452' - 512'	Uniform light to medium grey quartzite, 10 - 15° grains plus 1/8". 468' - 469' fine to medium grained grey greywacke. 475.4' - 475.5' argillite; 492.7' - 493' greywacke at 80°; 498' - 2" greywacke at 85°.
512' - 525'	Light grey speckled quartzite; 517' - 517.3' greywacke at 70°; 520.8' - 2" greywacke at 75°.
525' - 528'	Grey fine to medium grained greywacke.
528' - 516.5'	Variable light to medium grey quartzite, local coarse to medium grained speckled with fine medium grained quartzite, locally 15% quartz grains.
516.5' - 548'	Grey greywacke.
548' - 567'	10% pebbles plus 1/8" in quartzite, 1/2" at 565'.
567' - 570'	Argillite - siltstone cut at 75°.

<u>Footage</u>	<u>Description</u>
570.0-572.0	Fine medium grained grey quartzite, a few 1/16" grains.
572.0-581.5	Medium grained grey quartzite, a few 1/8" grains.
581.5-583.5	Quartz pebble conglomerate, quartzite matrix, pebbles upto 1/4".
583.5-584.0	Grey quartzite.
584.0-586.0	Quartz pebble conglomerate, 1/4" to 1/2" pebbles.
586.0-589.0	Grey medium grained quartzite.
589.0-595.0	Quartz pebble conglomerate, pebbles upto 1 1/4"
595.0-603.0	Grey quartzite, a few pebbles.
603.0-626.0	Grey quartzite, local pebbles, 604-3" siltstone; 612'-1" argillite at 50°; 612.8'-1" argillite at 75°; 613.5-1/4" argillite with 2" conglomerate adjoining.
626.0-633.0	Fine 1/8" pebble quartz conglomerate; 629'-2" argillite 80° with 3" of 1/4" to 1/2" pebble conglomerate adjoining.
633.0-637.0	Quartz pebble conglomerate, pebbles upto 1"
637.0-646.5	Medium grained grey quartzite, 10% 1/8" grains. 639.5'-3/4" argillite at 75°. 642.5' 1/4" argillite at 70°; 644'-1/4" argillite at 70°.
646.5-660.7	Fine pebble quartz conglomerate. Core 1' short at 661', Pyrite at 661'.
660.7-665.0	Dark grey argillite-siltstone.
665.0-677.0	Medium to coarse grained argillite, local pebbles, 666'-2" argillite at 75°. 672.4-1/4" argillite at 70°; 674'-2" argillite at 80°.
677.0-706.0	Fine quartz pebble conglomerate, 15% plus greywacke matrix. 685.3-685.7 argillite at 60°; 690' 2" argillite at 60°; 694.5'-1" argillite, pyrite at 75°, 694.8-2" argillite. 695.5-1" argillite at 70°; 698.2-3/4" argillite at 65°. Local low temperature pyrite 686'-701'. 705.3-1/4" argillite at 75°.
706.0-720.0	Grey medium grained quartzite, 715' 2" argillite at 85°, 716' 1 1/4"-2 1/4" argillite at 80°.
720.0-725.5	Mottled quartzite, light to dark grey, crossbedding 722' at 50 to 80°.
725.5-727.0	Siltstone.
727.0-730.0	Greywacke with narrow 2" fine pebble conglomerate beds.
730.0-733.0	Grey quartzite, local small pebbles, 731.8'-2" greywacke at 80°.
733.0-733.5	Greywacke
733.5-745.0	Quartz pebble conglomerate with a few 3/4" grey pebbles; 741'-741.5' greywacke. 742.8'-743.7' argillite.

**DUPLICATE COPY
POOR QUALITY ORIGIN.
TO FOLLOW**

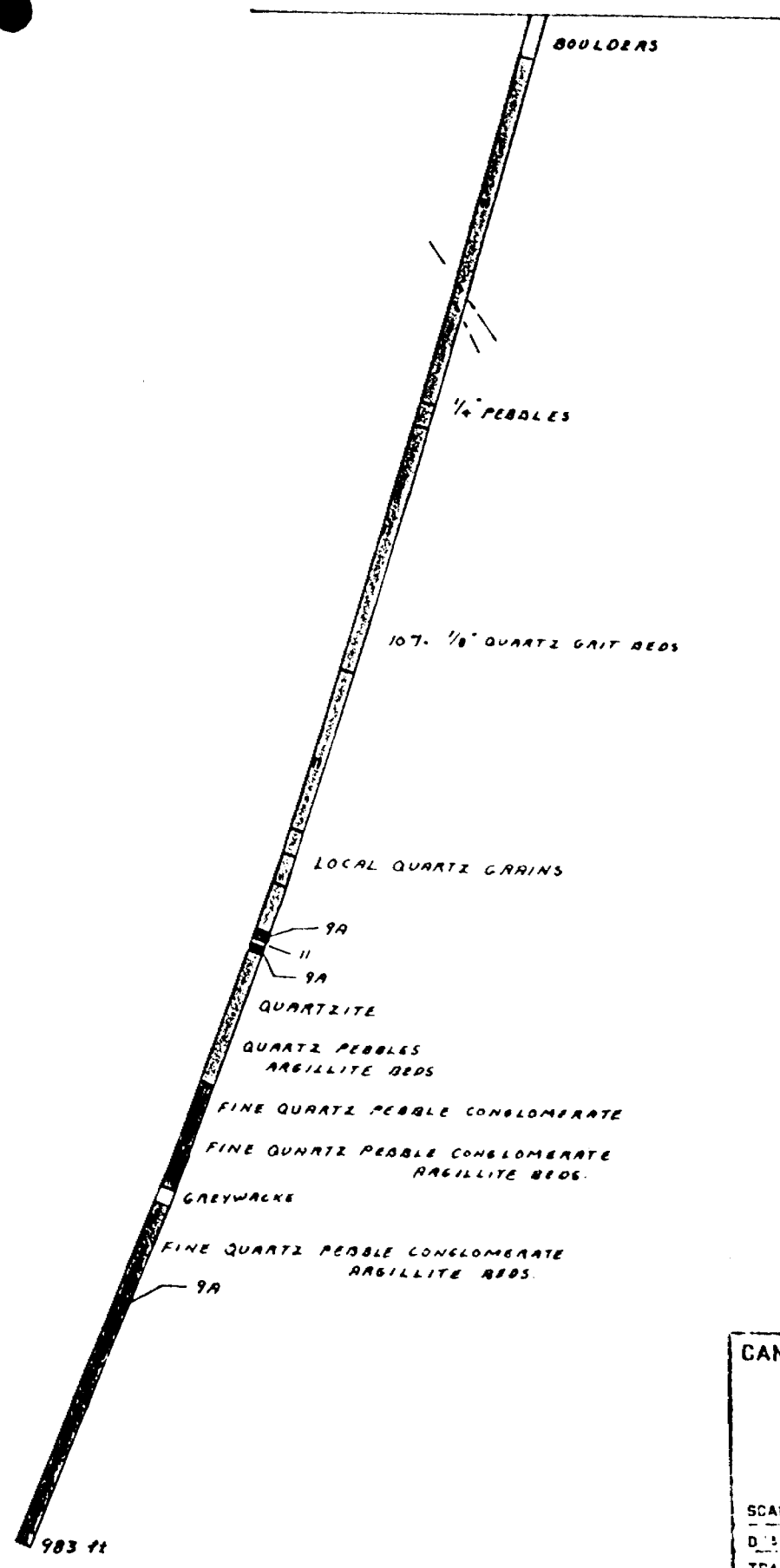
<u>Footage</u>	<u>Description</u>
570' - 572'	Fine medium grained grey quartzite, a few 1/16" grains.
572' - 581.5'	Medium grained grey quartzite, a few 1/8" grains.
581.5' - 583.5'	Quartz pebble conglomerate, quartzite matrix, pebbles up to 1/4".
583.5' - 584'	Grey quartzite.
584' - 586'	Quartz pebble conglomerate, 1/4" to 1/2" pebbles.
586' - 589'	Grey medium grained quartzite.
589' - 595'	Quartz pebble conglomerate, pebbles up to 1 1/2".
595' - 603'	Grey quartzite, a few pebbles.
603' - 626'	Grey quartzite, local pebbles, 604' - 3" siltstone; 612' - 1" argillite at 50°; 612.8' - 1" argillite at 75°; 613.5' 1/4" argillite with 2" conglomerate adjoining.
626' - 633'	Fine 1/8" pebble quartz conglomerate; 629' 2" argillite 80° with 3" of 1/4" to 1/4" pebble conglomerate adjoining.
633' - 637'	Quartz pebble conglomerate, pebbles up to 1".
637' - 646.5'	Medium grained grey quartzite, 10% 1/8" grains. 639.5' 3/4" argillite at 75°. 642.5' 1/2" argillite at 70°; 644' 1/2" argillite at 70°.
646.5' - 660.7'	Fine pebble quartz conglomerate. Core 1' short at 661', Pyrite at 661'.
660.7' - 665'	Dark grey argillite-siltstone.
665' - 677'	Medium to coarse grained argillite, local pebbles, 666' 2" argillite at 75°. 672.4' 1/2" argillite at 70°; 674' 2" argillite at 80°.
677' - 706'	Fine quartz pebble conglomerate, 15% plus 1/8" greywacke matrix. 685.3' - 685.7' argillite at 60°; 690' 2" argillite at 60°; 694.5' - 1" argillite, pyrite at 75°, 694.8' - 2" argillite. 695.5' 1" argillite at 70°; 695.2' 3/4" argillite at 65°. Local low temperature pyrite 686' - 701'. 705.3' - 1 1/2" argillite at 75°.
706' - 720'	Grey medium grained quartzite, 715' 2" argillite at 85°, 716' 1 1/2" - 2 1/2" argillite at 80°.
720' - 725.5'	Mottled quartzite, light to dark grey, crossbedding 722' at 50 to 80°.
725.5' - 727'	Siltstone.
727' - 730'	Greywacke with narrow 2" fine pebble conglomerate beds.
730' - 733'	Grey quartzite, local small pebbles, 731.8' 2" greywacke at 80°.
733' - 733.5'	Greywacke.
733.5' - 745'	Quartz pebble conglomerate with a few 3/4" grey pebbles; 741' - 741.5' greywacke. 742.8' - 743.7' argillite.

<u>Footage</u>	<u>Description</u>
745' - 753.5'	Grey argillite with fine black streaks.
753.5' - 807'	Fine quartz pebble conglomerate, 15% plus 1/8" pebbles, quartzite matrix. 776' 3/4" argillite at 70°; 778.2' 1/2" argillite at 60°; 759' - 1" argillite; 763' 1/2" argillite at 55°; 780.5' - 781' argillite at 80°; 800.5' - 1" argillite at 70°; 804' pyrite on joint.
807' - 825'	Quartz pebble conglomerate, greywacke matrix, pebbles up to 3/4"; 814' pyrite. 820' - 3" greywacke in streaks.
825' - 841.5'	Basal conglomerate, quartz pebbles up to 2". Pyrite at 830' to 840'; 829.5' - 1/4" greywacke.
841.5' - 843'	Meta-greywacke, lineation 30°, contact 30°.
843' - 846'	Biotite-chlorite schist, probably altered lamprophyre dyke, contact irregular at 45°.
846' - 853'	Uniform meta-greywacke.
853' - 965'	Grey meta-greywacke, lineation 30° to 40° that may be remnants of bedding. A few narrow 1/2" quartz stringers, may be a few pebble remnants 1/4" maximum. 912' lineation at 25°. Quartz 950.8' - 951.6' at 50°; 952.1' - 952.5' quartz at 75° and 40°.
965' - 983'	Gneissified quartzite, light to dark grey, quartz 982.7' - 983'. Lineation 30° to 40°.
983'	END OF HOLE.

Logged by: C. S. Longley.

C. S. Longley

N



CANADIAN JOHNS-MANVILLE CO. LTD.	
MATHESON	ONTARIO
DD.H. GR-68-5	
GRIGG TWP.	
SCALE 1"=100 FT.	DATE FEB. 1968
DESIGN	
TRACED	
APPROVED	

[Handwritten signature]

DIAMOND DRILL HOLE GR - 71 - 1

6+40'NW and
Location: 35+30'NE of Base Line #1
Date Started: June 22nd, 1971
Date Compl'd: June 27th, 1971
Total Depth: 242.3'

Elev. of Collar

Dip: -90°

<u>Footage</u>	<u>Description</u>
0 - 2.3'	Casing
2.3' - 5.0'	Light grey quartzite
5.0' - 6.0'	Dark grey quartzite
6.0' - 7.4'	Dark grey siltstone Bedding normal to core axis (12° dip) Fracture 10° - 30° to core axis
7.4' - 9.3'	Dark grey quartzite
9.3' - 11.0'	Light grey quartzite, colour darkens and grain size increases gradually
11.0' - 14.7'	Dark grey quartz-pebble conglomerate
14.7' - 15.5'	Black, pyritic mudstone
15.5' - 16.2'	Dark grey conglomerate
16.2' - 23.3'	Light grey fine grained conglomerate with occasional pebble beds
23.3' - 24.6'	Black mudstone
24.6' - 25.4'	Light grey fine grained conglomerate
25.4' - 33.0'	Black mudstone, core badly broken, limonite stains on fracture surfaces
33.0' - 35.4'	Coarse grained dark conglomerate
35.4' - 47.0'	Light fine grained conglomerate, occasional minor (1") mud layers
47.0' - 52.0'	Dark coarse grained quartzite grades to quartz conglomerate
52.0' - 59.3'	Dark conglomerate with quartz pebbles 1/8" - 1/2" diam.
59.3' - 66.1'	Dark coarse grained quartzite with 1" pebble bands (beds) normal to core axis
66.1' - 69.7'	Coarse quartz pebble conglomerate
69.7' - 73.1'	Black, cross bedded argillites with pyrite

8/72

<u>Footage</u>	<u>Description</u>
73.1' - 139.1'	Pebble conglomerate, pebbles range in size from 1/16" to 1/2", individual beds well graded, occasional layers of argillaceous or arenaceous material, large pyrite crystals, especially in argillites
139.7' - 152.0'	Black argillite, occasional arenaceous layers.
152.0' - 160.7'	Quartz with occasional argillite
160.7' - 165.3'	Argillites
165.3' - 173.5'	Quartz grades downward to coarse pebble conglomerate Bedding 45° to core axis
173.5' - 175.9'	Black pyritic argillite
175.9' - 187.0'	Black pyritic argillite with thin fine grained conglomerate beds
187.0' - 197.5'	Fine grained conglomerate with occasional 1" distorted argillite beds, pyritic, suggestion of migmatization
197.5' - 224.9'	Partially granitized, migmatic metasediments with quartz veins
224.9' - 232.2'	Black argillites
232.2' - 242.3'	Highly quartzose migmatic complex
242.3'	END OF HOLE

Logged by: W. H. Miller
Geologist.



DIAMOND DRILL HOLE GR - 71 - 2

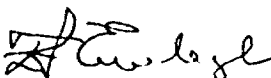
Grigg Township

Location: 5+50'NW and
35+10'NE of Base Line #1
Date Started: June 28, 1971
Date Compl'd: July 10, 1971
Total Depth: 331.1'

Bearing:
Dip: -90°

<u>Footage</u>	<u>Description</u>
0 - 4.0'	Casing
4.0' - 24.6'	Coarse grained quartzite, sometimes crossbedded, occasional 1" - 2" argillaceous beds, bedding approximately normal to core axis (25° dip), pyritic
24.6' - 51.6'	Pyritic, quartz pebble conglomerate with black, argillaceous matrix, occasional pebble free, mud bands, structural
51.6' - 79.7'	Fine grained conglomerate with 1" mud beds, bedding shallow, occasional 6" pebble beds
79.7' - 89.8'	Contorted, black, muds with quartz pebble in upper third
89.8' - 110.5'	Coarse to medium grained conglomerate, pyritic, shallow bedding
110.5' - 113.8'	Black mudstones, thin bedding, pyritic
113.8' - 117.4'	Pebble conglomerate
117.4' - 123.1'	Fine to medium grained conglomerate, pyritic, some pebbles
123.1' - 125.9'	Black, pyritic, argillite
125.9' - 136.0'	Black matrix, pebble conglomerate
136.0' - 139.2'	Pyritic argillite, cross bedded
139.2' - 157.8'	Coarse to fine grained conglomerate
157.8' - 201.3'	Black, pyritic, thin bedded, cross bedded argillites with occasional sand and pebble beds, bedding shallow, occasional steep fracture without movement
201.3' - 291.1'	Pebble conglomerate with occasional mud and sand beds, mud contorted, dip increases to about 70°
291.1' - 292.1'	Lit-par-lit zone with conglomerate and granitic basement, dip about 70°
292.1' - 331.1'	Conglomerate - basement contact, 70° Pink, granitic basement complex
331.1'	END OF HOLE

Logged by: W. H. Miller
Geologist



DIAMOND DRILL HOLE GR - 71 - 4

Grigg Township

Location: 7+40'NW
34+75'NE

Bearing:

Dip: -90°

Date Started: July 19th, 1971
Date Compl'd: July 23rd, 1971
Total Depth: 238'

<u>Footage</u>	<u>Description</u>
0 - 4'	Casing
4' - 7.5'	Chloritic greywacke, pyrite, pyrrhotite
7.5' - 11.5'	Quartz pebble conglomeratic greywacke, pyrite, pyrrhotite and chalcopyrite
11.5' - 29'	Interbedded fine grained quartzite and silt beds, pyrite, pyrrhotite and chalcopyrite
29' - 50'	Impure fine grained quartzite with thin greywacke pebble beds. 29' disseminated 20°E; At 47' 25°E. Pyrite and pyrrhotite. 50' - 1" silt bed
50' - 66'	Gritty impure quartzite sparse pebbles. Pyrrhotite. 54.5' - 6" chloritic greywacke. Dip 25°E
66' - 75'	Interbedded quartz pebble chloritic greywacke and impure quartzite.
75' - 113'	Gritty and quartz pebble impure quartzite, interbedded with greywacke and grit beds. 102' - dip 20°E. Pyrite and pyrrhotite
113' - 126'	Chloritic greywacke and impure quartzite interbedded with greywacke showing gradational contacts. Pyrite and some pyrrhotite
126' - 132'	Impure and gritty quartzite, sparse pebble. Pyrite.
132' - 134'	Half of core impure quartzite, and half greywacke. Ends at shear at 134'. Pyrite and pyrrhotite.
134' - 147'	Quartz pebble and impure quartzite interbedded with greywacke. 137.5' - 141.5' dip at 36°E. Pyrite
147' - 179.5'	Quartz pebble conglomeratic greywacke interbedded with impure quartzite and chloritic greywacke. Pyrite local. Pyrrhotite.

DIAMOND DRILL HOLE GR - 71 - 3

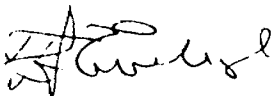
Grigg Township

Location: 4+65'NW
34+60'NE
Date Started: July 11th, 1971
Date Compl'd: July 18th, 1971
Total Depth: 367.2'

Bearing:
Dip: -90°

<u>Footage</u>	<u>Description</u>
0 - 1.7'	Casing
1.7' - 29.3'	Light coloured quartzite with occasional 1" - 3" beds of pebbles or siltstones. Bedding dips -19°.
29.3' - 174.0'	Coarse to fine grained conglomerate with minor layers of siltstone and mudstone, bedding dips about -10°
174.0' - 191.7'	Contorted silt beds
191.7' - 193.6'	Coarse grained conglomerate
193.6' - 196.2'	Altered layers of conglomerate and siltstone
196.2' - 319.6'	Coarse to medium conglomerate with minor mud and sand beds.
319.6' - 330.8'	Conglomerate partially indurated and intruded by minor quartz veins. Alteration intensifies downward.
330.8' - 359.3'	Green, chlorite-rich phyllite. Foliation 60° to core axis
359.3' - 367.2'	Cataclastic meta-granite.
367.2'	END OF HOLE

Logged by: W. H. Miller
Geologist



<u>Footage</u>		<u>Description</u>
179.5'	- 187'	Greywacke, pyrite local, some quartz grains.
187'	- 222.3'	Quartz pebble conglomeritic greywacke. Pyrite. 10" greywacke at 191'. Contact 22½°E
222.3'	- 238'	Basement - looks like quartz-rich pegmatite.

Logged by: R. C. Ward
July 29th, 1971

R. C. Ward

DIAMOND DRILL HOLE GR - 71 - 5

Grigg Township

Location: 1+80NE; 2+35SE (1966 Grid)

Bearing: N40°W

Date Started: July 25th, 1971

Dip: -45°

Date Compl'd: July 26th, 1971

Total Depth: 63.5'

<u>Footage</u>	<u>Description</u>
0 - 12'	Overburden
12' - 63.5'	Quartz pebble conglomerate 12' - 35' chloritic greywacke matrix contains pyrrhotite and chalcopyrite 35' - 1" silt bed dip 76°E 35' - 52' chloritic greywacke matrix with sections of impure quartzite. Local pyrrhotite 52' - 63.5' matrix more chloritic. Local pyrrhotite Lost core 52' - 53', 55' - 56', 56.7' - 57.8', 59' - 60' and 61' - 61.5'
63.5'	END OF HOLE

Logged by: R. C. Ward
July 27th, 1971

R. C. Ward

DIAMOND DRILL HOLE GR - 71 - 6

Grigg Township

Location: O+30SW;3+10SE (1966 Grid)

Bearing: N40°W

Date Started: July 28th, 1971

Dip: -45°

Date Compl'd: August 20th, 1971



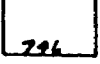

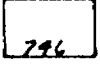



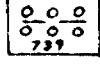

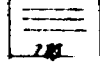


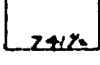











Total Depth: 188.5'

<u>Footage</u>	<u>Description</u>
1' - 24'	Casing
24' - 25'	Boulders. Quartz pebble conglomerate and pink granite
25' - 30'	Quartz pebble conglomeritic greywacke. Pyrite
30' - 34.5'	Impure chloritic quartzite with siltstone beds. Pyrite
34.5' - 53'	Quartz pebble conglomeritic greywacke. Pyrite, pyrrhotite, chalcopyrite. Lost core 49' - 51' and 51.8' - 52.8'
	53' - 54.5' - lost core
54.5' - 57'	Quartz veins. Pyrrhotite, chalcopyrite 55' - 56' lost core
57' - 98.7'	Quartz pebble conglomeritic greywacke. Pyrite. Narrow silt beds. Quartz veins 67' - 68' and 75' - 76'. Lost core 65' - 66', 71' - 72', 74' - 75' and 96.3' - 98'
98.7' - 101'	Silt bed. 99' - 100' lost core
101' - 123'	Quartz pebble conglomeritic chloritic greywacke. Pyrite with fine grained greywacke beds.
123' - 136'	Fine grained chloritic greywacke. Pyrite. Lost core 127' - 128', 130' - 131' and 134' - 135'
136' - 188.5'	Quartz pebble conglomeritic greywacke. Pyrite. 149' - 8" impure quartzite. 161' - vertical dip 176' - 178' - 6" and 18" quartz veins Lost core 172' - 173' and 181.7' - 182.7'
188.5'	END OF HOLE

Logged by R. C. Ward
August 24th, 1971

R. C. Ward

LEGEND SHEET - WANAPITEI - TURNER AREAS

- | | | | | |
|--|-----|---|---|---|
| 
766 | 16 | Meta Gabbro or Olivine Gabbro | | |
| 
799 1/2 | 16D | Nipissing Diabase | 
796 | 16E Basic Intrusives |
| 
799 | 15 | Lorraine Quartzite | 
796 | 16F Olivine Diabase |
| 
799 1/2 | 14E | Gowanda Greywacke - Varved or Laminated | | |
| 
799 1/2 | 14B | Gowanda Greywacke - Massive | | |
| 
799 1/2 | 14A | Gowanda Conglomerate | 
799 | 15A White Quartzite - Argillite |
| 
799 1/2 | 14C | Gowanda Quartzite | 
799 | 15B Banded Argillite - Minor Impure Quartzite |
| 
799 1/2 | 14D | Gowanda Mud Stone Conglomerate | | |
| 
799 1/2 | 13 | Espanola Greywacke | 
799 1/2 | 13A Serpent Quartzite |
| 
799 | 12D | Bruce Limestone | | |
| 
799 | 12A | Bruce Conglomerate | | |
| 
799 | 11 | Missisquoi Formation | | |
| 
799 | 9A | Basal Conglomerate | | |
| 
799 | 9B | Radioactive Conglomerate | | |
| 
799 | 8 | Migmatite | | |
| 
799 | 7 | Basement Complex | | |
| 
799 1/2 | 6 | Meta Sediments | | |
| 
799 | 1F | Iron Formation | | |
| 
799 1/2 | 2 | Acid Volcanic - Rhyolite | | |
| 
799 | 1 | Andesite etc. | | |

Handwritten signature

SURFACE



242.3'

Claim No. - 142959
Location - 35+30' N.E. + 6+90' N.W.
Dip - -90°
Baseline - No. 1

CANADIAN JOHNS-MANVILLE CO. LTD.

MATHESON

ONTARIO

O.D. SECTION
WANAPITEI GROUP
GRIGG TWP - GR-71-1

SCALE 1"=50'

DATE JAN 11 1972

DRAWN W.M.

TRACED MB.

APPROVED E.J.E.

E. J. E.

SURFACE

331.1

Claim No - 142959
Location - 35+10' N.E. + 5+50' N.W.
Dip - -90°
Baseline - No. 1

CANADIAN JOHNS-MANVILLE CO. LTD.	
MATHESON	ONTARIO
D.D. SECTION	
WANAPITEI GROUP	
GRIGG TWP - GR-71-2	
SCALE 1"=50'	DATE JAN 11 1972
DRAWN W.M.	
TRACED M.B.	
APPROVED E.J.E.	

Handwritten signature

SURFACE



Claim No - 142959
Location - 39+60' N.E. + 4165' N.W.
Dip - -90°
Baseline - No. 1

368'

Stanley

CANADIAN JOHNS-MANVILLE CO. LTD.	
MATHESON	ONTARIO
D. D. SECTION	
WANAPITEI GROUP	
GRIGG TWP - GR-71-3	
SCALE 1"=50'	DATE JAN 11 1972
DRAWN W.M.	
TRACED M.B.	
APPROVED F.F.E.	

SURFACE



Claim No. - 142959
Location - 34+75' NB + 7+40' NW
Dip - -90°
Baseline - No. 1

CANADIAN JOHNS-MANVILLE CO. LTD.	
MATHESON	ONTARIO
D. D. SECTION	
WANAPITEI GROUP	
GRIGG TWP - GR-71-4	
SCALE 1"=50'	DATE JAN 11 1972
DRAWN W.M.	
TRACED M.	
APPROVED E.J.E.	

E. J. E.



Claim No. - 142967
 Location - 1'80' N.E. + 2'35' S.E.
 Dip - -45°
 Bearing - N40° W
 Baseline - No. 1

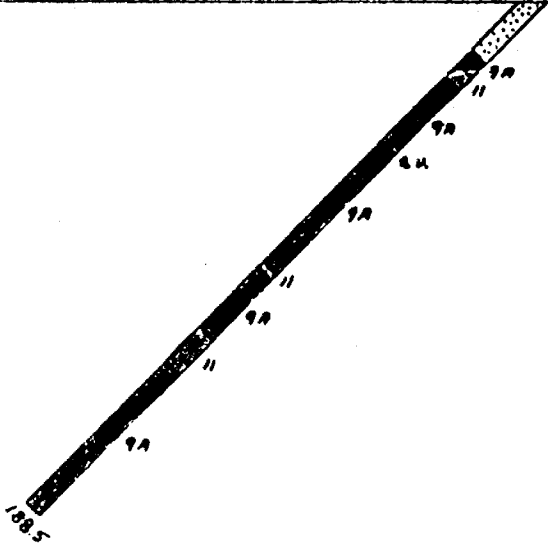
CANADIAN JOHNS-MANVILLE CO. LTD.	
MATHEBON	ONTARIO
D.D. SECTION	
WANAPITEI GROUP	
GRIGG TWP - GR-71-5	
SCALE 1"=50'	DATE JAN 11 1972
DRAWN W.M.	
TRACED M.B.	
APPROVED F.J.E.	

F. J. E.

N.W.

SURFACE

S.E.



Claim No. - 142967
 Location - 0+30' S.W. + 3+10' S.E.
 Dip. - - 45°
 Bearing - N40°W
 Baseline - No. 1

CANADIAN JOHNS-MANVILLE CO. LTD.	
MATHESON	ONTARIO
D. D. SECTION	
WANAPITEI GROUP	
GRIGG TWP - GR-71-6	
SCALE 1"=50'	DATE JAN 11 1972
DRAWN W.M.	
TRACED M.B.	
APPROVED B.F.F.	

Handwritten signature

D.D.H. GR-67-1

W

E

RIVER

ROAD

35°

22'

LOWERSUN DEN

IMPURE QUARTZITE

79'

QUARTZITE GAIT

170'

196'

SILTY SAND CONGLOMERATE

209'

CONGLOMERATE

252'

240'

WHITE

BASEMENT COMPLEX

312 1/2'

End of hole

BEDDING - 70°/C.A.

SECTION

D.D.H. GR-67-1

GRIGG TWP

AUG, 1967 - J.G.

SCALE: 1" = 20'

GRIGG-0010-3

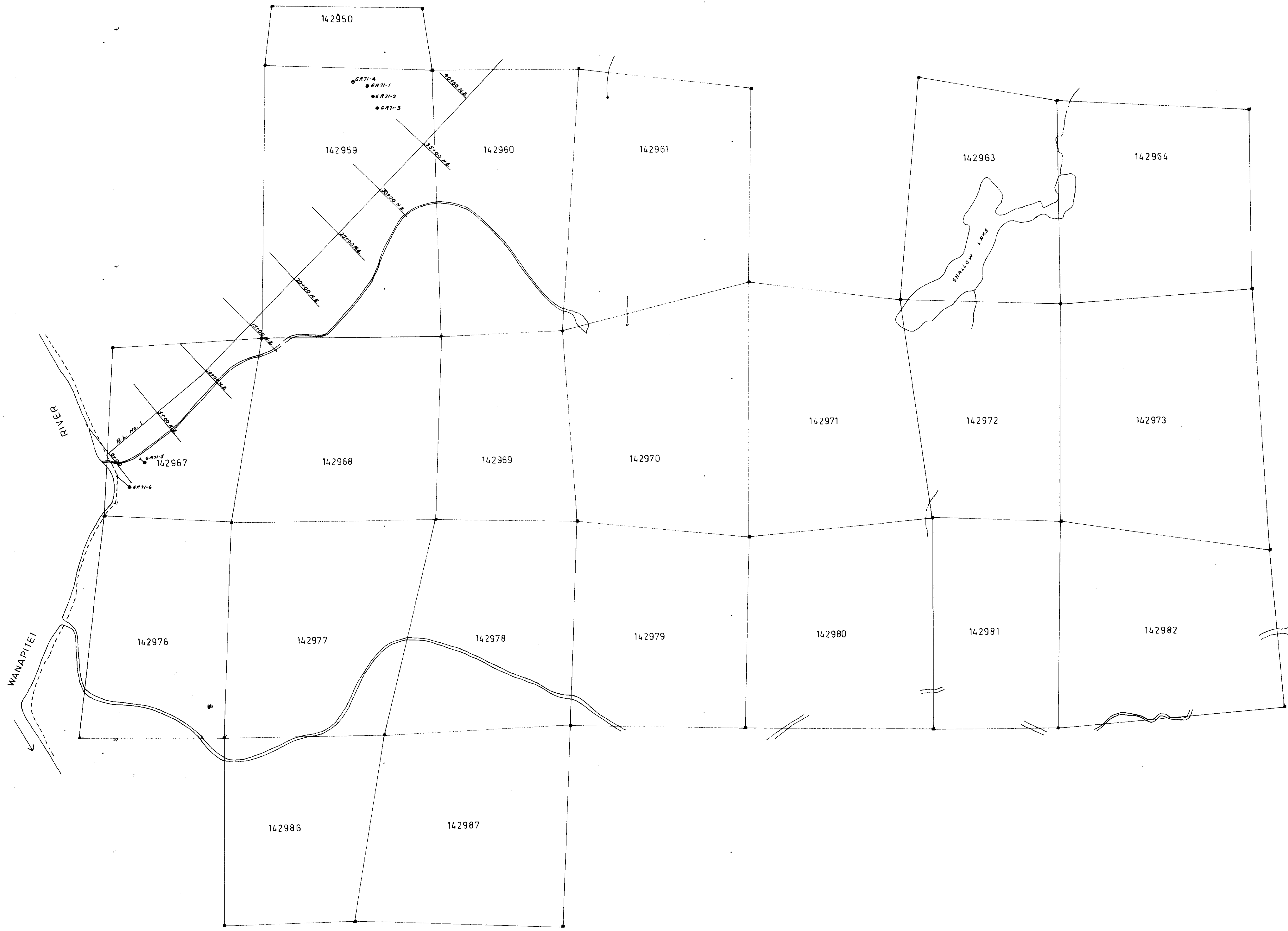
J.G. Grigg



41P025W0057 0010 GRIGG

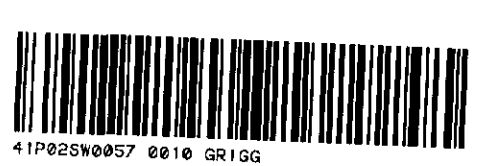
200

N

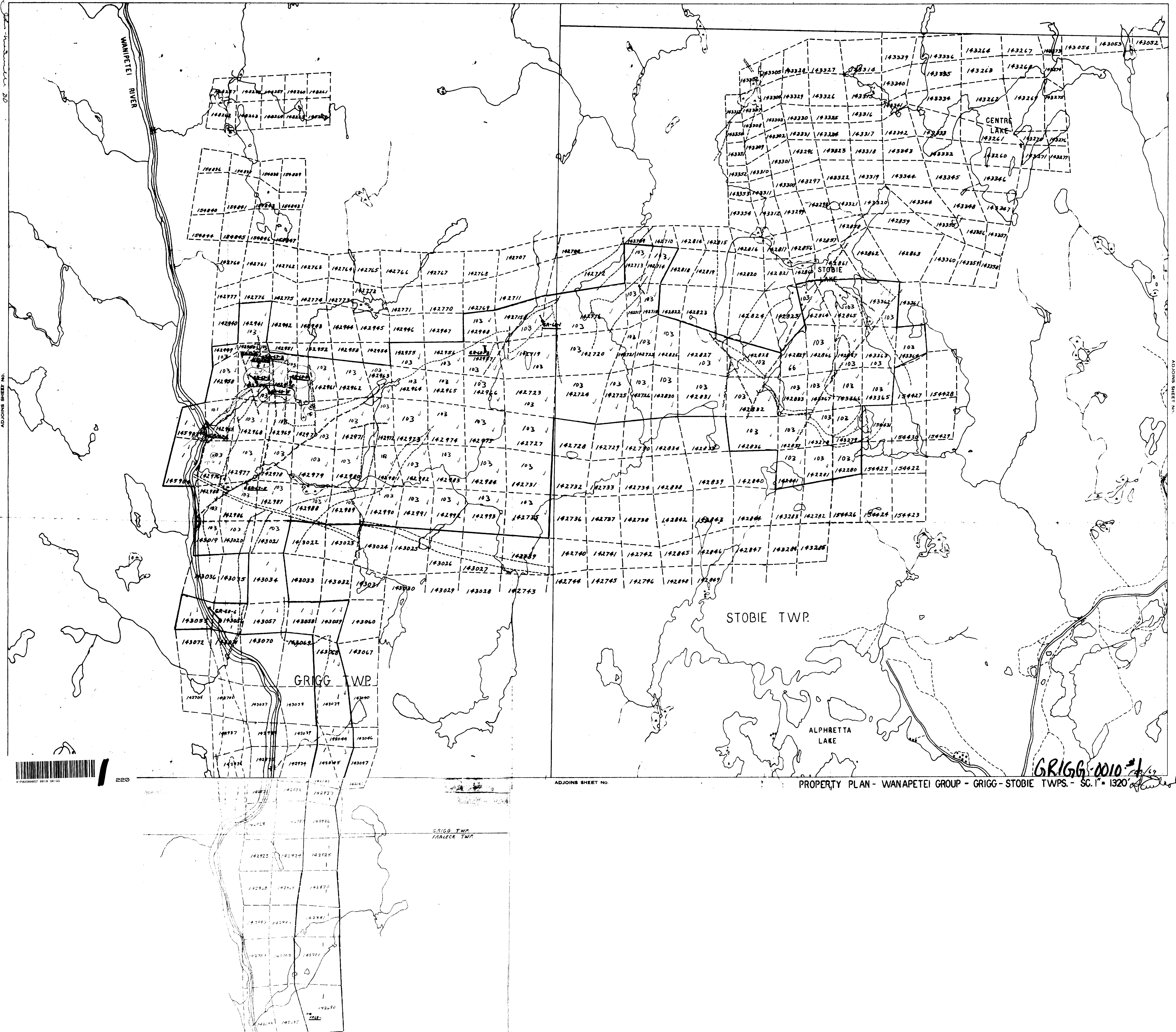


ADJOINS SHEET No.

ADJOINS SHEET No.

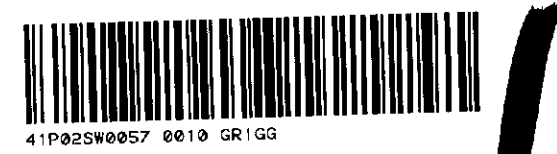


1170296957 0010 GRIGG



ADJOINS SHEET No.

ADJOINS SHEET No.



220

ADJOINS SHEET No.

PROPERTY PLAN - WANAPETUI GROUP - GRIGG-STOBIE TWPS. - SC. 1" = 1320'

GRIGG-2010-#1

GRIGG TWP.
FARLECK TWP.