



41P02SW0060 0011B1 GRIGG

010

GRIGG TOWNSHIP REPORT NO. 12

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

S.142715	Hole # GR-68-1	Jan/68
S.142957	Hole # GR-68-2	Jan/68

---

TOTAL : 2 DH

Map: See Grigg Report No. 10

DIAMOND DRILL HOLE GR - 68 - 1

Grise Township

Location: 1000' S of #1 Post of Claim 142715 (on the claim line)

Date Started: January 4th, 1968

Dip: -90°

Date Compl'd: January 18th, 1968

Total Depth: 1305'

<u>Footage</u>	<u>Description</u>
0 - 4'	Casing
4 - 32	Conglomerate, typical of Bruce formation (i.e. dark grey matrix, fairly hard) with quartz and granite pebbles occurring at irregular intervals. A few rusty fracture or joint planes occur down to a depth of 11 feet. Small, irregular bodies of pyrite and/or pyrrhotite occur sporadically throughout the rock. Dark, fine grained streaks scattered through this length may be argillitic partings. They have a roughly constant orientation at about 45° to the core and may represent the dip of the beds.
32 - 33	Zone of contortion and fracturing. Three fracture surfaces are present, along which the core breaks easily, and is filled with quartz. The contorted beds are probably slumped horizons and are apparently unconnected with the fracturing. The contorted beds are an alternating series of thin, dark, argillitic and white quartzitic beds, up to 1/4" thick. The upper and lower limits of the zone are plane surfaces again probably bedding planes which are at about 45° to the core
33 - 56	Generally similar to the 4 to 25 foot run. Texture is blocky, resembling brecciation and several fracture surfaces are present, some showing displacement along them. Pebbles are widely scattered. Occasional possible bedding planes occur, occasional blue quartz pebbles also.
56 - 59.5	Probable fault zone. Fracture is almost parallel to core, has variable thickness. Zone is 1/16 to 1/2 inch thick, gouge is streaked out parallel to fault, contains small clear quartz fragments, is clayey, and has low density.
59.5 - 61.5	Same as 33 to 56 foot run.
61.5 - 62.5	Contorted argillites as at 32 to 33 feet.
62.5 - 65.5	Same as 33 to 56 foot run.
65.5 - 66	Contorted zone as 32 to 33 feet.
66 - 67.5	Same as 33 to 56 foot run.
67.5 - 71.5	Gradation from last section to medium grained, grey, quartz sandstone. Some black specks, a few small quartz pebbles.
71.5 - 73.5	Zone of contorted argillites as at 32 - 33 feet.
73.5 - 118.5	Dark coloured conglomerate similar to the 33 - 56 foot run. Pseudo-brecciated texture, scattered pebbles and small sulphide bodies. Little indication of bedding. Gradation to next section.

Footage	Description
118.5 - 135.5	Similar to 67.5 - 71.5 run - i.e. grey, quartz sandstone, fairly uniform, very little fracturing; occasional pebbles.
135.5 - 136	Fault zone at 45° to core; i.e. true thickness about 4 inches. Gouge material similar to that in fault at 56 feet.
136 - 138	Conglomerate as at 33 - 36 foot run, contains 1 foot diameter gabbroic boulder from 136.8 - 137.8.
138 - 138.3	Zone of contorted argillites, possible fracture on bedding planes at lower end at 45° to the core.
138.3 - 168	"Typical" Bruce Conglomerate - i.e. massive, little fractured conglomerate with very dark grey matrix and moderate (20 - 30%) quantity of pebbles, including large boulders of up to 1½ foot diameter, and irregular small bodies and streaks of sulphides, mostly pyrite, with minor pyrrhotite.
168 - 268	Similar to 138 - 168 run, though very gradual lightening of matrix occurs. Pebbles fairly common, very variable sizes. Massive, rarely fractured.
268 - 271	Similar to 168 - 268 run, though several fracture planes present, at low angles to the core.
271 - 369	Similar to 168 - 268 run, matrix is grey. Fewer pebbles than in previous sections, lower parts becoming harder and more siliceous. Specks, blebs and stringers of sulphides frequently present. Very massive rocks, very little departure from this character, few fracture planes have pyrite smears on them.
369 - 415	Bruce Conglomerate. Medium grey, hard, siliceous matrix with specks and blebs of pyrite mainly with some minor chalcopyrite and pyrrhotite. Shear planes mostly have a thin pyrite coating. Pebbles are granite, quartz or quartzite - mostly less than ¾". 377 - ¾" quartz vein 20° to core axis. 381 - 2" quartzite pebble 385 - network of black lines giving core a mottled appearance. 391 - cross beds 75° to core axis 392 - core becomes lighter - typical black specks of Bruce visible. 398 - 2" and ¼" brownish silty bands 60° to core axis. 399 - 400 lamination (bedding ?) 30° to core axis. Lamination of black specks. 399 - core almost devoid of pebbles. 414 - 415 - colour banding 50° to core axis.
415 - 443	Core almost devoid of pebbles, colour slightly darker, almost a quartzite. Sulphides few and as fine specks. 443 - 444 - 2 blue quartz pebbles - less than ¼" each. 445 - 2" quartz vein 60° to core axis. 444 - texture of rock changes to gritty 456 - 459 - a few pieces of blue quartz grit 467 - appears to be a lamination 30° to core axis. 480 - 481 - 1½" pebbles. Six inch section of deformed and distorted mud bed. 481 - network of black lines on core. Last pebble of Bruce.

TESTSDescription

- 484 A few quartz pebbles
- 489 - 490 Two thin quartz pebble beds -  $1\frac{1}{2}$ " and  $1\frac{1}{2}$ ".  
489 - core becoming lighter to a brownish green. Quartzite.
- 495 Massive white glassy quartzite with thin pyrite bands - some pyrrhotite.  
499 - 500 - brownish green quartzite - gritty.  
516.5 - quartzite changes from almost white to medium grey.
- 517 Medium grey impure quartzite (Mississagi). Clear out cross beds mainly with pyrite on thin dark band.  
521 - 3" pebble bed - quartz pebbles  $1$ " x  $1\frac{1}{4}$ " or  $1\frac{1}{4}$ " x  $1\frac{1}{4}$ " - much sulphide in matrix. This is followed by 3" of brownish coloured muddy quartzite.  
523 - 6" light grey quartzite.
- 523.6 - 524 Medium grey impure quartzite.
- 524 - 524.6 Pebble bed.
- 524.6 - 525.5 Grey, impure quartzite, small sulphide bodies scattered throughout.
- 525.5 - 531 Dark, impure quartzite, mottled with patches of dark olive-green mineral (?). Numerous cracks occur across the core, are infilled with black material. Lower boundary is with grey, impure quartzite, may be a fault contact (?) - crosses core axis at  $15^\circ$ .
- 531 - 546 Patchy, mottled facies is intercalated at intervals between more uniform grey, impure quartzite. Sulphides scattered throughout. Green material is probably epidote, occurs in irregular patches and streaks, often elongated in a direction at a low angle to the core. This feature is especially well developed between 541.5 - 543.5, which resembles a coarse, somewhat altered and flattened coarse grit bed, oriented at  $20^\circ$  to core.  
543.5 - 546 is similar though foliation gradually alters to about  $45^\circ$  to the core.
- 546 - 552.3 Fine grained to somewhat granular quartzite, occasionally mottled with greenish material. Minor fault accompanied by  $1\frac{1}{4}$ " thick breccia zone at 547.3. Sulphides scattered throughout.
- 552.3 - 553 Compact, light grey quartzite.
- 553 - 564 Somewhat variable impure quartzite facies, has mottled greenish patches, also occasional small quartz pebbles.  
563.5 - 564 - 6" of conglomerate.  
Pebbles in this are up to 1" diameter mostly quartz, containing numerous black specks. Sulphides scattered throughout length. Many of the small greenish, epidotic patches are probably altered pebbles.
- 564 - 572 Almost uniform medium grey, fine grained quartzite.

<u>Footage</u>	<u>Description</u>
572 - 572.3	Streaky, greenish-grey quartzitic rock, preceded by fracture plane - fault material? Orientation $30^{\circ}$ to core axis.
572.3 - 575.5	Dark greenish-grey patchy quartzite, pseudo-brecciated texture presented by network of black veining.
575.5 - 576.5	Greenish-grey quartzite with a few small quartz pebbles. Scattered sulphides throughout.
576.5 - 577.3	Coarse grit bed, grey matrix, hard and siliceous.
577.3 - 579	Medium grey quartzite with occasional small pebbles, scattered sulphides.
579 - 580	Coarse grit and pebble bed, pebbles mostly $1/8''$ to $1/4''$ diameter, few up to $3/4''$ diameter.
580 - 588.5	Fairly uniform, medium grey, somewhat granular, massive quartzite. Several dark greenish and grey bands, up to $1/8''$ thick cross the core at about $10^{\circ}$ to the core axis - bedding features?
588.5 - 590	Light grey, compact quartzite, mottled with black specks.
590 - 591.5	Medium grey quartzite.
591.5 - 617	Somewhat variable, medium grey quartzite, occasionally gritty and arkosic, few small, scattered pebbles, possible cross-bedding present in finer grained parts, represented by thin darker bands.
617 - 635	Compact, light grey quartzite, fairly uniform, mottled with dark grey and black blebs. Occasional small pebbles and arkosic patches. Scattered sulphide bodies and disseminations.
635 - 637	Dark grey, banded quartzite, bands almost at right angles to core axis.
637 - 642	Same as 617 - 635 run - light grey, mottled quartzite - very fine grained.
642 - 643	Same as 635 - 637 - banded, grey quartzite.
643 - 647	Same as 617 - 635 run - light grey, mottled quartzite.
647 - 650.5	Same as 635 - 637 - banded, grey quartzite.
650.5 - 660	Same as 617 - 635 run - light grey, mottled quartzite.
660 - 739	Alternating, irregular sequence as above, of light grey mottled quartzites and darker banded or fairly uniform more granular quartzites. After 699 - gradual darkening of the lighter quartzite occurs, and mottling becomes indistinct. Fracture planes are present at intervals throughout the core, an approximate $45^{\circ}$ to core axis - orientation of these planes is retained throughout most of the length.

<u>Footage</u>		<u>Description</u>
739	- 754	Fairly uniform, medium grey quartzite, little banding.
754	- 773	Banded, mottled patchy, grey quartzite, scattered minor sulphides as usual occur.
773	- 798	Uniform, grey quartzite, massive, little or no banding.
798	- 845	Patchy quartzites, some mottled, some banded, varying shades of grey. Scattered sulphides, occasional arkosic and gritty patches.
845	o 874	Series of grit beds with occasional pebbles, separated by variable grey quartzites. Blue quartz pebbles are scattered throughout the grit beds. Small pebbles are also scattered throughout the interbedding quartzites. Sulphides scattered throughout.
874	- 898	Grey quartzite, no pebbles, almost uniform except for few darker bands, probably representing cross beds, and are 75 - 80° to axis.
898	- 914	Patchy quartzite facies, mottled and banded types and gradations between. Small quantities sulphides scattered throughout; lower 10 feet are almost uniform grey quartzite with scattered small quartz pebbles.
914	- 955	Series of grit bands, with occasional pebble size fragments, gradational to finer grained quartzites between the bands. Below 919 almost continuous grit facies. 920.5 narrow (1/32") veinlet, light yellowish colour - epidote ? Also at 928.5, 930.5, 932, 933.5. Blue quartz pebbles or large grit fragments are common in the grit bands.
955	- 960	Fine grained, lighter coloured quartz grit. A few pieces of blue quartz grit.
960	- 967	Fine grained dark grey grit with a few quartz pebbles. 962 - 2 medium bands 1/2" and 1" - grey-brown.
967	- 972	Coarse to medium grit with muddy patches.
972	- 975.5	Fine to coarse grained altered grits.
975.5	- 976.5	Mud bands - soft - brownish
976.5	- 978	Same as 972 - 975.5 run.
978	- 978.5	Mud band 75 to 80° to core axis.
978.5	- 987.5	Fine grained grey grit with occasional muddy patches and a few pyrite specks.
987.5	- 997	Alternating fine and coarse grits.
997	- 998	Coarse grained mottled grit with pink feldspars.

<u>Image</u>		<u>Description</u>
998	- 1029	Fine to medium grained grits with a few odd coarse grits. Many of the fine and medium grit beds have odd larger pieces of grit just less than 1/4". Fractures 45° and 30° to core axis. Many specks of fine pyrite. A few yellow-brown streaks. Chlorite and pyrite on many slip faces.
1029	- 1030	Very coarse grit, hard, silicified.
1030	- 1030.5	Breccia zone. Two distinct portions, one has green, siliceous matrix, the other has black chloritic matrix. Angular, irregular fragments. Difficult to establish angle to core - ragged boundaries to some 1/2" quartz vein at lower edge of zone is at 60° to core axis.
1030.5	- 1036	Variable grained and coloured grit bands, occasional pebble-sized fragments, hard, siliceous matrix.
1036	- 1037	Conglomerate band, pebbles of similar type to matrix - i.e. intra-formational conglomerate.
1037	- 1047	Variable fine grained grits and quartzites, rather patchy.
1047	- 1063	Light grey grits and quartzites, occasional muddy bands, about 60 - 65° to core axis. 1/4" thick quartz vein intersects core at very low angle between 1058 - 1059. Coarser beds at 1058 - 1063.
1063	- 1083	Medium grey quartzites with narrow, dark bands at 70° to the core axis, grading after 1065 to a light grey, fine grained quartzite - massive and uniform.
1083	- 1109	Similar to the above run, though grit bands are interbedded with the light coloured quartzites.
1109	- 1114	Quartzites mottled with black specks.
1114	- 1120	Muddy quartzites with gritty sections.
1120	- 1263.5	Dark, thinly bedded, fine grained grits with muddy beds and specks. Beds are fairly consistently 60° to core axis. Occasional medium grained grit portions. 3/4" quartz vein at 85° to core axis at 1150. 1/4" quartz vein at 75° to core axis at 1155.5. Zone of stumped and contorted beds 1246 - 1251.
1263.5	- 1289	Probably basement contact at 1263.5, material below is probably altered volcanics, dark green-black, chloritic and biotitic, strong lineation in places, which is contorted and irregularly developed.
1289	- 1305	Granitic basement. Coarse, pink-flecked rock.
	1305	END OF HOLE.

Logged by: S. L. Phillips and P. A. R. Brown.

*Phillips*

DIAMOND DRILL HOLE GR - 68 - 1

Dip Tests

320'	-87° (86.5)
520'	-81°
720'	-82° (82.5)
920'	-80° (79.5)
1100'	-82°

332  
(True 340)

TRO PARI



Tractor Road

COMPACTED  
AGGREGATES

12A

Bedding

12A

11  
Paving bed

Aggregate Zone

Q-Pgyl

Grill beds

} Grill beds

} Grill beds

} Mud beds

Aggregate Zone  
Conglomerate  
Grill beds

1305

CANADIAN JOHNS-MANVILLE CO. LTD.	
MATHEBON	ONTARIO
D.D.H. 5A-68-1	
GRIGG TWP.	
SCALE 1" = 100 FT.	DATE JAN 1968
DRAWN	
TRACED	
APPROVED	

*Handwritten signature*

DIAMOND DRILL HOLE GR - 68 - 2.Grizz Township

Location: 5450' W of #1 Post; Claim 142957;  
 and: 3450' S15°W on drill road 0420' West of Road.  
 Date Started: January 20th, 1968  
 Date Compl'd: January 24th, 1968  
 Total Depth: 447'

Bearing: Due North

Dip: -70°

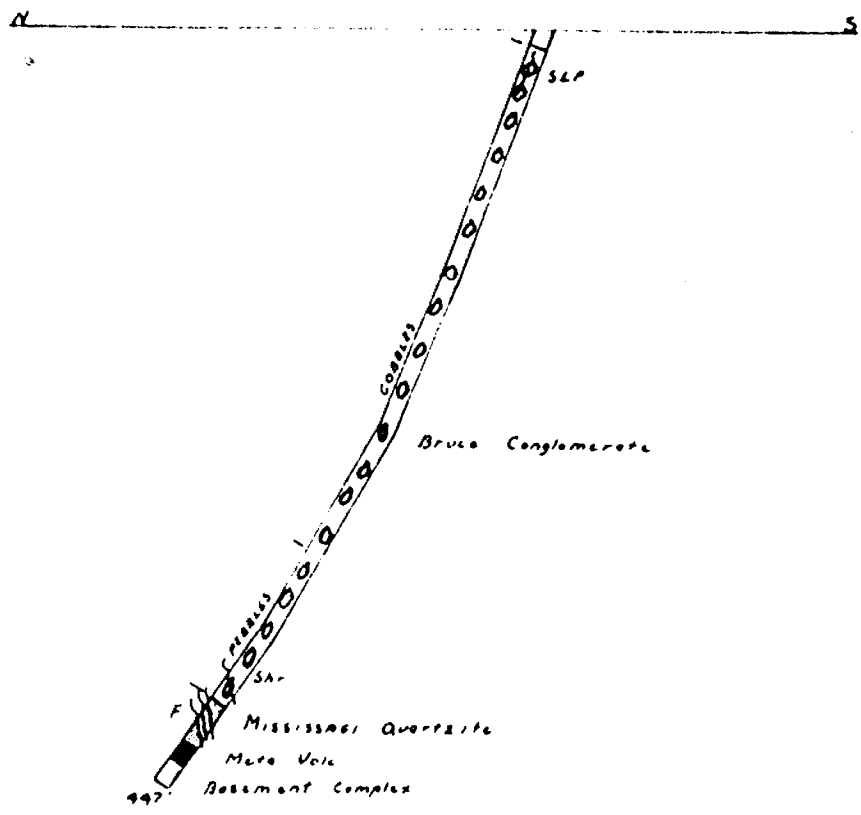
Tropari: Bearing N3°20'E; Dip -59°;  
Depth: 445'.

- 0 - 4' Casing, overburden - gravel.
- 4' - 392.6 Bruce Conglomerate.
- 4' - 25' Bruce Conglomerate, pebbles of white quartzite, sharp angular shaped with scattered almond shaped pebbles, minor pyrite on slips. Strong slip from 10' - 18' down core length, slip from 24' - 25' at 2° down core. Core is blocky. Cross fractures at 60° across core.
- 25' - 50' Conglomerates massive with slips at 40° down and across core. 3" cobble at 33.6. At 41.6 - 42', 43 - 44' and 48 - 49' narrow quartzite beds from 1/2" to 6" in width, dip at 40° across core. 4" white granitic cobble at 47'.
- 50' - 150' 8" cobble at 51', scattered pebbles and cobbles throughout; "polymictic" minor pyrite disseminated on fractures.
- 150' - 175' Same as above. 168' - 170.6 mud beds at 60° across core. Not active - 700 - 800 C. P. S. - 1X.
- 175' - 200' Bruce Conglomerate with strong slip down core from 180' - 190'.
- 200' - 225' Bruce Conglomerate; 204' - 213' contorted mud beds - not active.
- 225' - 250' Bruce Conglomerate; 8" cobble at 238'. Mud bed at 241 - 242.6. Not active  
Beds contorted.
- 250' - 275' Bruce Conglomerate - cobbles, minor pyrite on slips.
- 275' - 300' Bruce Conglomerate - large cobble 13" at 283'.
- 300' - 325' Bruce Conglomerate - massive, tight fractures at 50 - 60° across core.
- 325' - 350' Bruce Conglomerate - pebbles of white quartzite, grey granite. Basic pebbles with pyrite.
- 350' - 375' Bruce Conglomerate - massive.
- 375' - 400' Bruce Conglomerate - slight shearing from 377' - 378', 390' - 393.6. Small quartz pebbles in bluish grey matrix, fractured, minor disseminated pyrite. Not active.
- 392.6 - 406' Reddish quartzite.
- 400' - 425' Reddish quartzite injections, brecciated, minor disseminated pyrite less than 1%. 6" granitic at 403'. Fault zone.
- 406' - 438' Reddish Mississagi Quartzite, minor pyrite. Not active.

- 118' - 120' Breccia, volcanic - quartzite fragments.
- 120' - 131' Meta Volcanics - massive, cubic pyrite, minor slips at 55° across core.
- 131' - 138.6' Reddish Quartzite.
- 125' - 147' Reddish quartzite from 131' - 135.6', 135.6' - 138.6 grey quartzite, contact at 138.6, dip -40° across core, horizon of pink feldspars along contact.
- 138.6' - 147' Basement Complex with barren quartz fractures from 1/4" to 1/2" in width.
- 147' END OF HOLE.

Logged by: R. F. Kaltwasser.

*R. F. Kaltwasser*



CANADIAN JOHNS-MANVILLE CO. LTD.  
 MATHESON ONTARIO  
 D.D.H. GA-68-2  
 GAIGG TWP.  
 SCALE 1"=100 FT. DATE JAN. 1968  
 DRAWN \_\_\_\_\_  
 TRACED \_\_\_\_\_  
 APPROVED \_\_\_\_\_

*Handwritten signature*