



41P02SW0059 0011A1 GRIGG

010

112 486 Report # 17

DIAMOND DRILL HOLE GR - 67 - 5GRIGG Township

Location: 424228; 195' East of Line S1-1
 Date Started: November 15th, 1967
 Date Compl'd: December 8th, 1967
 Total Depth: 2251'

Elev. of Collar: 4165' above river.

Dip: -90°

FootageDescription

0	-	4'	Casing - no core
4	-	11	Casing core Bruce conglomerate - pebbles mostly grey granite. 3/4" & 1/8".
4	-	510	Bruce conglomerate estimated 2% pebbles and boulders. Matrix siliceous dark grey. Sparse with following exceptions; 4 - 50' a few 1/8" grains. 49' - 2" argillite 43° to core axis. 175' - 400' sparse pebbles. 50' - 175' a few quartz, quartzite and granite pebbles. 2%. 218' - 220' - 60% quartz pebbles. 188'5" - 191' dark biotite lamprophyre dyke out at 80°. 223' - 224' fractured longitudinally. Lost waste 200' - 300'. 230' - 231'5" medium grained diorite boulder. 265' - 266' bedding 25°. 271' - 277' bedding 30 - 50° - average 45°. 329' - 331'5" greenish grey granite boulder. 362' - 8" granite boulder. 450' - a little chalcopyrite around pebbles. 370' - 372' bedding 20° 437' - 438'5" coarse grained granite - 1/8" crystals, a little pyrite. 453' - 3" granite; 468' pyrite on 20° point.
510	-	524	Porphyritic diabase - feldspar up to 3"; 520' joint 45°.
524	-	548	Fine to medium grained diabase; 525' joint 30°.
548	-	588	Coarse to medium grained diabase.
588	-	613	Medium grained diabase.
613	-	614	Pink aplite; 614' - 615' coarse grained diabase 1/4" crystals; 40% feldspar.
615	-	644	Medium grained diabase; 618' - 619' coarse grained; 627' shear at 25°; 640' - 641' - 643' coarse grained; 640' shear at 30°.
644	-	645	Fine grained grey altered. Contacts 60° and 15°.
645	-	664	Coarse grained diabase 1/8" to 1/4" crystals. 640' shear at 15°.
664	-	693	Very coarse grained diabase - hornblende 3/4"; 672' chlorite shear 30°.
693	-	696	Medium grained gradational contact - 1/8" biotite laths.
696	-	725	Medium grained granitophyre 3/16" grains; a little biotite; 710' - 714' joint out at 0°.
725	-	751	Pink aplite. 737' - 742' joint out at low angle - also at 747'.
751	-	756	Pink granitophyre - biotite laths.
756	-	758	Coarse grained diabase.

Footage	Description
758 - 792	Medium grained diabase; 772' - 1/2" serpentine ? at 45°; 786' - 1/4" streak at 15°; 790' - coarse grained.
792 - 795	Coarse grained diabase.
795 - 842	Coarse - medium grained diabase; 810' - 811' shears 50°; 808' - coarse grained; 840' - foliation 40°.
842 - 864	Medium grained diabase - 1-2 mm grain size, slight lineation 40°.
864 - 907	Variable medium grained diabase - 1-2 mm. 883' - 884' shearing 45°; quartz-carbonate - 1/16" streak.
907 - 910	Very coarse grained diabase 50% feldspar. 1/4" crystals - cut at low angle.
910 - 921	Medium grained diabase.
921 - 938	Variable fine to medium grained diabase - 1 mm - 923' coarse grained and at 925'; at 931' - 933' medium grained; 931' shear at 35°; 936' shear at 20°; 938' shear at 35°.
938 - 958	Crystalline fine grained diabase; 946' - 951' shears 20° to 30°.
958 - 970	Chilled diabase with local crystalline texture.
970 - 1042	Bruce conglomerate, dark quartz eyes, 3/4" reddish pebbles, very blocky. Reddish colour, probably due to alteration by diabase.
1042 - 1078.5	Conglomerate with varying quantities of pebbles, matrix fine grained dark grey to black, siliceous with abundant pyrite specks occasionally larger cubes and also veinlets of pyrrhotite, specks of chalcopyrite. Several pink, granitic pebbles. 1042 - 1067 - no bedding planes in this section.
1078.5 - 1079	Band of abundant irregularly shaped pebbles of quartzite type, very dark fine grained matrix.
1079 - 1081.7	Conglomerate, dark grey matrix, sparse, small quartzite pebbles, plentiful pyrite specks.
1081.7 - 1082.7	Pebble band similar to 1079 - 1081.7.
1082.7 - 1095.7	Same as 1081.7 - 1082.7 run.
1095.7 - 1096	Coarse grained band, dark, quartzitic, with wavy boundaries about 40° to core axis.
1096 - 1110	Same as 1079 - 1081.7 run.
1110 - 1115	Similar to 1079 - 1081.7, but pebbles very rare and streaky effect appears due to trains of pyrite specks and streaks of pyrite and pyrrhotite. Streaks are about 15° to core axis.
1115 - 1115.7	Fault zone, shreds of conglomerate in quartz matrix, blebs and shreds of sulphides.

Depth	Description
1115.7 - 1136	Conglomerate; slight lightening in colour of matrix, pebbles usually coarse and small, sparse, 2" granite pebble at 1136'.
1136 - 1145.9	Pebbles almost absent, matrix is very hard, lightens in colour, becomes compact, pyrite specks common.
1145.9 - 1160.6	Grey, hard, fine to medium grained highly quartzitic rock. Few quartz stringers. Pyrite common.
1160.6 - 1167.9	Same as 1145.9 - 1160.6 run.
1167.9 - 1172.9	Almost white, highly siliceous aplitic band, several small pink feldspar crystals over last 6". Both margins indistinct. Small masses dark chloritic material, also usually associated with shreds and small bodies of sulphides.
1172.9 - 1178.6	Grey hard siliceous quartzitic rock.
1178.6	1" granite pebble.
1178.6 - 1183	Same as 1172.9" - 1178.6" run. Variable grain size. Some siliceous alteration obscures texture patchily. Occasional banding visible about 15° - 20° to the core. Streaky, sheared and stained appearance sporadically along section.
1183 - 1192.5	Light grey very compact quartzitic rock - occasional quartz eyes, specks of pyrite and chlorite.
1192.5 - 1206.8	Very light grey quartzite, compact. Aplitic band at 1195' - 1195.5". Some variation in grain size.
1206.8 - 1207	Dark medium grained band at 30° to axis.
1207 - 1210	Same at 1192.5" - 1206.8" run.
From 1225	Mississagi quartzite, slightly radioactive, dark grey colour, pyrite specks; crossbedded from 1218 - 1219.
1237	2" granitic material - hematite specks related to Nipissing diabase; pyrite on fractures.
1235 - 1240	Crossbedded - 30° to core angle; texture alternates coarse and fine.
1274	Bedding contorted.
1281 - 1284	Stringers of chalcopyrite, pyrrhotite and molybdenite (will be sampled).
1308 - 1313	Few quartz pebbles - 3/16th's of an inch.
1329.5	1" quartz vein at right angles to core axis.
1357 - 1362	Scattered clear, bluish quartz grains visible.
1375 - 1421	Light grey bed.
1421 - 1474	Resumes dark grey colour 1427 - 1428 - cross bedded. 1469' - 2" quartz vein at right angles to core.

<u>DEPTH</u>	<u>DESCRIPTION</u>
1474 - 1491	Lighter grey colour.
1491 - 1634	Dark grey quartzite, fairly well bedded at 30° to core axis, some quartz pebbles or blobs ranging from 1/4 to 1/2 inch. 1506 - good bedding for 3" at 30° to core axis. 1507 - 1" quartz vein. 1546 - stringers of chalcopyrite and pyrrhotite from 6". 1530 - 1629 - the quartzite is cut by thin quartz veins. 1586 - 1587 - quartz vein. 1590 - thin stringer of chalcopyrite and pyrrhotite. 1606 - 2" argillite band; also at 1607 - 5" argillite band; and at 1610 - 4" argillite band. 1632 - pyrite specks along bedding planes - 30° to core axis. 1636 - quartzite is mottled and lighter in colour. Some sulphide specks.
1640	Crossbeds 25° to core axis.
1640.5	Colour changes to pale brownish-grey.
1647	4" quartz vein.
1649.5	Colour changes to dark grey.
1650	3" argillite band at 35° to core axis.
1651-2	4" argillite band streaked through core.
1652	Some quartz pebbles of 1/4" size in argillite.
1654.5 - 1662	Interbed of quartz pebble conglomerate. 1/4" - 1/2" pebbles with some fine pyrite in matrix. Pyrite also on shears. 1655' - shear with pyrite 30° to core axis. 1660' - argillite bands 30° to core axis. 1662' - impure dark grey quartzite with argillite interbeds.
1666	Thin argillite 25° to core axis.
1667	Light grey quartzite with argillite bands - at 1670' - 2" band; at 1671' - 1" band and at 1672' - 6" band.
1678 - 1698	Alternating quartzite and argillite beds. 1685.5 - 2" pebble bed with pyrite. Thin black streaks on fractures Argillites streaked out along core. 1698' - bluish grey impure quartzite, mottled and blotchy.
1703	Dark grey impure quartzite.
1708	Mottled blue-grey quartzite.
1715 - 1716.	Several quartz injections 1/8" size 45° to core axis.
1716.5	Blue quartz grit.
1724	1/4" argillite 20° to core axis.
1725	1/4" argillite 55° to core axis.

<u>Footage</u>	<u>Description</u>
- 1728	1/4" quartz vein.
1729	2 " x 2" quartz veins.
1731.5	1" argillite band 25° to core axis.
1739.5	3/4" argillite band 70° to core axis.
1743	Bedding at 62° to core axis.
1751	Blue quartz grit - and to 1776' - mostly 1/8" size. 1774' - 3/4" argillite band 55° to core axis.
1776 - 1801	Quartz veins. 1777' - 1/2" and 1/4" vein - 40° to core axis. 1782' - 1/2" vein - 45° to core axis. 1797' - 1/4" vein - 10° to core axis. 1781'5" - 1" argillite band.
1801.5	1/4" quartz vein at 35° to core axis; 1/2" quartz vein 55° to axis.
1810	5" argillite band.
1813	4" pebble bed.
1817.5 - 1818	Argillite bed at 50° to core axis.
18.9 - 1843	1/4" quartz vein at 45° to core axis. 1820' - 1821' argillite streaks in core.
1844 - 1845	Argillite streaks in core. 1822' - 1" argillite. 1823' - 1826' - argillite streaks in core. 1828' - argillite streaks for 6". 1830'5" - 3" quartz vein 45° to core axis. 1832' - light bands 50° to core axis. 1833'5" - 1/4" argillite band. 1834' - quartzite grit begins 1843' - argillite streaks for 3". 1845' - grey impure quartzite.
1859.5	1/4" quartz vein - 55° to core axis.
1862	1/4" quartz vein.
1862 - 1864	Grit plus 2 inches of conglomerate with pyrite.
1877 - 1882	1/8" pink quartz veins 45° to core axis. 1878' - coarse grit, arkosic blue quartz type with some pyrite.
1891 - 1894	Impure quartzite.
1894	8" argillite band 30° to core axis.
1894 - 1899	Grit.
1899 - 1903	Conglomerate

- 1903 - 1921 Grit with argillite bands.
 1906' - 1" argillite band at 35° to core axis.
 1914' - 1/4" argillite band at 35° to core axis.
 1915' - 1916' - band 30° to core axis.
 1921' - pyritiferous conglomerate interbedded - 1/4" and 1/2" pebbles.
- 1924.5 Grit and pebble beds less than 1" thick.
- 1928 Several thin argillite beds at 35° to the core axis.
- 1930 1" argillite band.
- 1936' 4" argillite band 30° to core axis.
- 1942 - 1945 Conglomerate as before.
- 1960 - 1965 Conglomerate as before.
 1958' - 1" argillite band.
- 1966 2" argillite band.
- 1970 1/8" argillite band 35° to core axis.
- 1979 - 1980.5 Argillite bed.
- 1986 1/2" argillite band 80° to core axis.
- 2003 - 2008 Argillite streaks along core.
- 2012 - 2013 Argillite streaks along core.
- 2016 9" argillite band 30° to core axis.
- 2020 1" quartz vein.
- 2025 1 1/2" argillite band.
- 2029 - 2030 Some pieces of white quartz grit. Bands 30° to core axis.
- 2031 Core lighter - medium grey colour - cross beds visible.
- 2045 1/2" quartz vein - 85° to core axis.
- 2046 Argillite streak 40° to core axis.
- 2047 - 2062 Crossbeds 45° to core axis.
 2048 - a few pieces of quartz grit which become more abundant.
 2050' - 2051' - and 2065' - 2066' sparse pebbles 1/4" and 1/4" - 1/2",
 a few blue quartz grit pieces.
- 2069 - 2072 Pebble bed - 1/2" x 1/4" pebbles.
- 2074 - 2075 Conglomerate
- 2078 - 2079 Conglomerate
- 2083 1/8" argillite.

GRIGG TOWNSHIP REPORT NO. 11

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

S.142986

Hole # GR-67-5

Nov/67

TOTAL: 1 DH

Map: See Grigg Township Report No. 10

- 2083.5 - 2084.5 Quartz injection.
- 2085.5 1" argillite.
- 2089 - 2090 Conglomerate
- 2090 - 2114 Impure dark grey quartzite with narrow pebble beds. Black streaks mark crossbeds.
- 2114 1/4" brown-black argillite 55° to core axis. Pebble beds scattered throughout.
- 2097 - 2098 Conglomerate
- 2102.5 - 2103 Conglomerate
- 2110 2" conglomerate
- 2112 - 2113 3 x 1" bands
- 2117 3" conglomerate
- 2120 - 2149 2" conglomerate - pebble beds scattered throughout.
- 2121 - 2123.5 Only a few pebbles
- 2123.5 - 2125 Quartz pebble conglomerate - poorly sorted and pyrite present. Pebble size 1/8" x 1/8" to 1/2" x 1/4".
- 2125 - 2129.5 Only a few pebbles.
- 2129.5 - 2135.5 Quartz pebble conglomerate - 3/8" x 3/8" pebbles.
- 2135.5 - 2136 Quartz grit.
- 2136 Few pebbles but quartz pebble conglomerate - 1/4" x 1/4" and dark bands 60° to core axis.
- 2143 Pebbles 3/4" x 1/2".
- 2152 1/2" quartz vein 80° to core axis.
- 2153 1/8" quartz vein 30° to core axis.
- 2154 - 2155 1/2" quartz vein 70° to core axis. Quartzite - impure, grey.
- 2155 1/2" Quartz pebble conglomerate and up to 2165.4
- 2158 1 1/2" argillite
- 2163 6" quartzite
- 2165.4 - 2166 Greenish silty section - .40x RA - a few quartz pebbles in this argillite.
- 2166 - 2218 Gneissified quartzite or pebble conglomerate. Pre-Huronian. Lamination at 0 to 30°. Ghost pebbles up to 1/2" and 3/16". At 2213" dark grey in colour and coarser in texture.

ACID AND TRO-PARI TESTS

HOLE GR - 67 - 5.

<u>Footage</u>	<u>Dip</u>	<u>Bearing</u>
0	90°	--
200'	89°	N35°E
400'	87°	N44°E
858'	87°	--
1127'	85°	--
1425'	84°	N19°E
2102'	78°	N24°E
2200'	76°	N31°E
2250'	79°	--

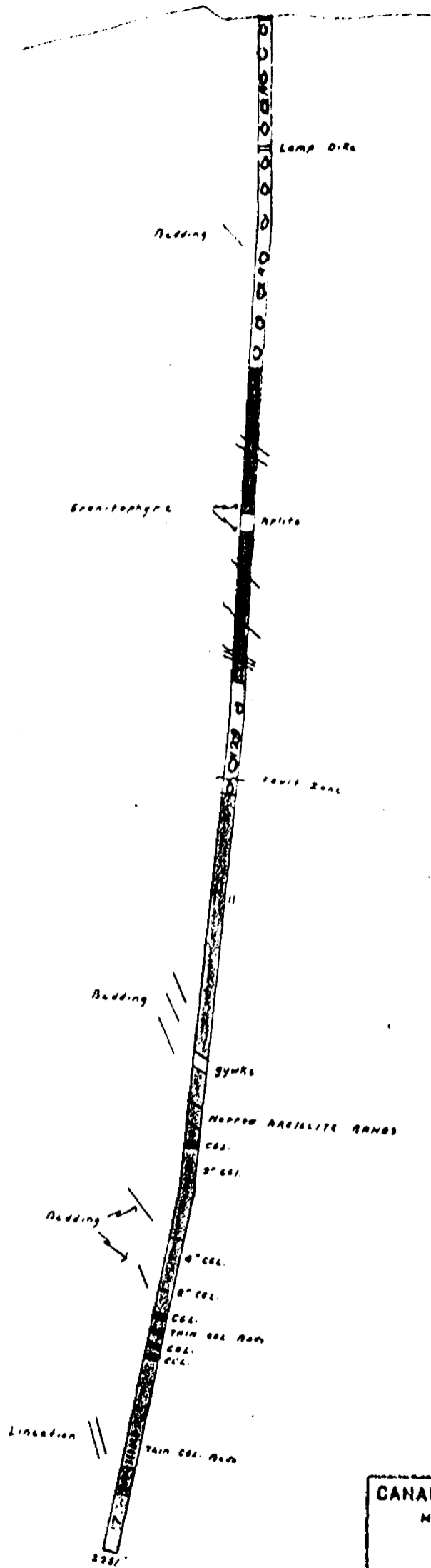
P. J. Eveleigh

- 2208 3/4" irregular quartz stringer with chlorite out at 75° to core.
- 2211 1" irregular quartz stringer out at 30° with 2" bleb of chlorite.
- 2216 3/4" irregular quartz stringer at 50° - faults at 10° - 1/2".
- 2218 - 2220 Pinkish granitized with ghost pebble structure.
- 2220 - 2242 Granitized quartzite on pebble conglomerate - pebbles up to 1/2".
2234' - 2236'5" - grey with pinkish spots and sections (migmatite) - 60% pink,
- 2242 - 2247 Greenish-grey fine grained altered volcanics. Light greenish-grey mottling may be epidote.
- 2247 - 2251 Pink highly granitized quartzite.
- 2251 END OF HOLE.

Notes: Argillite occurs 2053' - 1/2" 40° to core axis; 2055' - 1" 45° to core axis.
At 2069' - 2072' a fair amount of fine pyrite associated with gritty pebble beds.
At 2064' - 1/2" x 1/2" bleb of galena on a shear.

Logged by: P. A. R. Brown and G. S. Longley.





CANADIAN JOHNS-MANVILLE CO. LTD.
 MATHESON ONTARIO
 DDH GA-67-5
 GRIGG TWP.
 SCALE 1"=200 FT. DATE DEC. 1967
 DRAWN _____
 TRACED _____
 APPROVED _____

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