

INTERVAL SHEET

WWCR 196

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VDMR Well No: Well No. 1416

Date 11/15/65

Sample Interval: from 0 to 310

PROP: Meadsville School

Total Depth 310

COMP: Falwell Well Corp.

Oil Gas Water Exploratory

COUNTY: Halifax (Meadsville)

Cuttings Core Other

VDMR Well No: W-1416

Washed samples

From-To	From-To	From-To	From-To	From-To
-	-	0 - 10	300 - 310	-
-	-	10 - 20	-	-
-	-	20 - 30	-	-
-	-	30 - 40	-	-
-	-	40 - 50	-	-
-	-	50 - 60	-	-
-	-	60 - 70	-	-
-	-	70 - 80	-	-
-	-	80 - 90	-	-
-	-	90 - 100	-	-
-	-	100 - 110	-	-
-	-	110 - 120	-	-
-	-	120 - 130	-	-
-	-	130 - 140	-	-
-	-	140 - 150	-	-
-	-	150 - 160	-	-
-	-	160 - 170	-	-
-	-	170 - 180	-	-
-	-	180 - 190	-	-
-	-	190 - 200	-	-
-	-	200 - 210	-	-
-	-	210 - 220	-	-
-	-	220 - 230	-	-
-	-	230 - 240	-	-
-	-	240 - 250	-	-
-	-	250 - 260	-	-
-	-	260 - 270	-	-
-	-	270 - 280	-	-
-	-	280 - 290	-	-
-	-	290 - 300	-	-

OWNER: Halifax County Schools
(Meadsville School)
DRILLER: Falwell Well Corp.
COUNTY: Halifax (Meadsville)

VDMR Well # 1416
WWCR Well # 196
TOTAL DEPTH : 310

GEOLOGIC LOG

Residuum (0-50')

0-10 Saprolitic Gneiss - pale-red-brown, very-coarse-grained; quartz, muscovite, biotite, feldspar; minor garnet, clay and iron-oxides.

10-20 As above - trace zircon.

20-30 As above - trace chlorite.

30-40 As above

40-50 As above

Leucocratic Gneiss (50-80')

50-60 Gneiss - light-gray, shiny, very-coarse grained, slight augen texture; quartz, sodium-oligoclase, muscovite, biotite, chlorite, very-pale garnet, pyrite; minor staurolite; trace spinel, tourmaline and zircon.

60-70 As above

70-80 As above

Hornblende Gneiss (80-300')

80-90 Biotite Gneiss - black and white, very-coarse-grained; quartz, oligoclase biotite, muscovite, chlorite, hornblende, garnet and pyrite; porphyroblasts of garnet were rotated during growth; the biotite is probably secondary.

90-100 As above

100-110 Hornblende-Biotite Gneiss - white and black, medium-coarse-grained, banded; hornblende, biotite, epidote, garnet; vein quartz with associated very coarsely crystalline hornblende and epidote.

110-120 As above - lighter colored, less biotite and hornblende.

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- 120-130 Hornblende Biotite Gneiss - black and white, medium-coarse-grained; quartz, biotite, hornblende, epidote muscovite, garnet pyrite; minor vein quartz and orange, iron-oxide weathering stain.
- 130-140 Hornblende Gneiss - dark-gray, medium-to fine-grained; hornblende, biotite, quartz, oligoclase-andesine, epidote; minor garnet and chlorite; occasional coarse grained knot of quartz and feldspar; trace of weathering stain.
- 140-150 Gneiss - medium-gray, slightly greenish, coarse-grained; quartz, feldspar, biotite, hornblende, muscovite, garnet, epidote trace pyrite.
- 150-160 As above
- 160-170 Banded Gneiss - very-dark-green-gray to white; very-coarse-grained; quartz, biotite feldspar, hornblende, epidote; minor perthitic microcline; trace garnet and apatite; trace weathering stain (microcline is very coarse crystalline and associated with vein quartz.)
- 170-180 As above - more microcline.
- 180-190 As above - more hornblende, less microcline.
- 190-200 As above - trace of weathering stain.
- 200-210 Banded Hornblende Gneiss - white and black, medium-fine to coarse-grained; quartz, feldspar, hornblende, epidote, biotite; minor garnet muscovite, pyrite and chlorite.
- 210-220 As above - trace weathering stain.
- 220-230 As above - no weathering stain; with abundant schistose muscovite layers, garnet to 4 mm diameter, vein quartz.
- 230-240 As above - more muscovite.
- 240-250 As above - less muscovite.
- 250-260 Banded Hornblende Gneiss - medium-to light-greenish-gray; medium-fine to very-coarse-grained; quartz, plagioclase, hornblende, biotite, muscovite, garnet, epidote, chlorite and pyrite.

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260-270 Banded Hornblende Gneiss - medium-greenish-gray; medium-fine to very-coarse-grained; quartz, plagioclase, biotite, muscovite, garnet, epidote, chlorite and pyrite, increase in hornblende.

270-280 As above - lighter, less hornblende.

280-290 As above - darker, more hornblende.

290-300 As above - coarser grained with minor very-coarse-crystalline microcline and large garnets.

Augen Biotite Gneiss (300-310')

300-310 Augen Biotite Gneiss - medium-gray and white; coarse- to very-coarse-grained; 2-6 mm round augen of microcline, and quartz; matrix: biotite, feldspar, quartz, chlorite, minor pyrite; foliation very distorted and wraps around augen.

GEOLOGIC SUMMARY

ROCK UNIT

TIME ROCK UNIT

0-50	Residuum
50-80	Leucocratic Gneiss
80-300	Hornblende Gneiss
300-310	Augen Gneiss

The Augen Biotite is previously undescribed and is apparently of a different origin than the Hornblende Gneiss.

Virginia Division of Mineral Resources
Hollis N. Walker, Geologist
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