INTERVAL SHEET

Page1	VDMR Well No.: 1415
Date 11/15/65	Sample Interval: from 0 to 500
PROP: Clay Mill School #2	Total depth 500
COMP: Falwell Well Corp.	OilGasWater_X_Exploratory
COUNTY: Halifax (Clay's Mill VDMR Well No: W-1415	1) Cuttings_X_CoreOther
From-To From-To	From-To From-To From-To
	0 _ 10
	50 - 60 350 - 360 - 60 - 70 360 - 370 - 70 - 80 370 - 380 - 80 - 90 380 - 390 - 90 - 100 390 - 400 -
	100 - 110 400 - 410 - 110 - 120 410 - 420 - 120 - 130 420 - 430 - 130 - 140 430 - 440 - 140 - 150 440 - 450 -
	150 - 160
	200 - 210
	250 - 260

OWNER: Halifax County Schools
(Clay's Mill School Well #2)

DRILLER: Falwell Well Corp.
COUNTY: Halifax (Clay's Mill)

VDMR Well # 1415 WWCR WELL # 198 TOTAL DEPTH : 500

GEOLOGIC LOG

0-10	Saprolitic Gneiss - medium-brown and white, coarse to very-coarse-grained; quartz, feldspar, biotite and muscovite.
10-20	As above
20-30	As above
30-40	As above
40-50	As above
50-60	Cataclastic Gneiss - medium-gray, green-gray and white; fine to very coarse grained; biotite, oligoclase, quartz, microcline, hornblende, muscovite, chlorite, sericite epidote, apatite and calcite; porphyroblasts of quartz and feldspar in biotite rich areas; rounded augen in chlorite-sericite rich areas; minor micro-breccia of microcline fragments in a chlorite matrix. Probably this level is a flaser gneiss however such large structures are impossible to recognize in well cuttings.
60-70	As above - trace garnet.
70-80	As above - trace weathering stain.
80-90	As above - less chlorite, more hornblende.
90-100	Biotite Gneiss - medium-gray, medium-coarse-grained, with extremely-coarse porphyroblasts of quartz, feldspar and garnet; matrix: biotite, quartz, feldspar, hornblende, muscovite, chlorite and trace of pyrite.
100-110	As above - more chlorite; some porphyroblasts are crushed some rounded to augen; trace slickensides (see description of 50-60 ft. level).
110-120	As above
120-130	Biotite Gneiss - black and white, coarse-grained or larger; feldspar, biotite, quartz, minor muscovite hornblende, garnet and pyrrhotite. (This level too finely crushed to determine grain size and strucutre.)
130-140	As above

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140-150	Biotite Gneiss - black and white; medium to extremely- coarse-grained; porphyroblasts and augen of feldspar and quartz; matrix: biotite, microcline, oligoclase, quartz; minor garnet, muscovite, chlorite, hornblende, epidote, and calcite; minor hornblende gneiss and chlorite-sericite gneiss.
150-160	As above - no chlorite-sericite gneiss.
160-170	As above - less hornblende gneiss; more disseminated hornblende.
170-180	Biotite Gneiss - medium-gray and white, medium-to very- coarse-grained; biotite, feldspar, quartz, garnet, hornblende, minor chlorite, sericite, epidote and muscovite.
180-190	As above
190-200	As above
200-210	Hornblende Gneiss - dark-green and white, very-coarse- grained; hornblende, oligoclase-andesine, biotite, quartz, apatite, garnet; trace sphene and sericite; minor biotite gneiss with a few of the biotite crystals 15 mm across.
210-220	As above - more biotite gneiss, no large crystals of biotite.
220-230	Biotite Gneiss - white and black, medium-coarse-grained; biotite, feldspar, quartz garnet and muscovite; minor hornblende and epidote; minor hornblende gneiss as above.
230-240	As above - no hornblende gneiss; more feldspar and in large cleavage fragments; trace chlorite.
240-250	As above
250-260	As above
260-270	As above
270-280	As above - minor pyrite.
280-290	Gneiss - light-gray, medium-to very-coarse-grained, oligoclase- andesine, quartz, alkali-feldspar, biotite, muscovite; trace calcite and epidote.
290-300	As above
300-310	Biotite Gneiss - black and white, minor pink; coarse-to extremely-coarse-grained; biotite, oligoclase, quartz, microcline, minor chlorite, epidote, muscovite, hornblende, and pyrite; large porphyroblastic augen of colorless oligoclase.

OWNER: Halifax C	County Schools (Clay's Mill School Well #2) #1415
310-320	Biotite Gneiss - black and white, minor pink; coarse- to extremely-coarse-grained; biotite, oligoclase, quartz, microcline, minor chlorite, epidote, muscovite, hornblende, and pyrite; large porphyroblastic augen of colorless oligoclase.
320-330	As above - less pink.
330-340	As above - slightly more chlorite.
340-350	Chlorite-Epidote Gneiss - medium-light-gray, slightly greenish and minor pink; medium-to very-coarse-grained, oligoclase, microcline, epidote, sericite, chlorite, biotite minor pyrite; minor slickensides.
350-360	As above - more biotite.
360-370	As above
370-380	As above
380-390	Feldspar-Epidote Gneiss - white, black, and yellow-green, medium to extremely coarse grained; oligoclase (about 40%) with microcline, epidote, biotite and hornblende.
390-400	As above
400-410	As above - more hornblende.
410-420	As above
420-430	As above - less biotite.
430-440	As above
440-450	Gneiss - black and white, minor pink, coarse-to very-coarse-grained; plagioclase, alkali-feldspar, biotite hornblende, chlorite; minor epidote and pyrite.
450-460	As above - less hornblende.
460-470	As above - more hornblende.
470-480	As above
480-490	As above - less hornblende, minor muscovite.
490-500	As above - more oligoclase.

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GEOLOGIC SUMMARY

0-500 Biotite Gneiss. This gneiss was apparently a hornblende gneiss that has been granitized. The chloritic and sericitic portions are due to later fracturing, distortion and recrystallization.

> Virginia Division of Mineral Resources Hollis N. Walker, Geologist November 30, 1965