

INTERVAL SHEET

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VDMR Well No: 1533

Date rec'd: 3/24/66

Sample Interval: from 0 to 295

PROP: Speed & Briscoe #2

Number of samples: 28

COMP: Sydnor Pump and Well Co.

Total Depth: 295

COUNTY: Hanover (Ashland)

Oil or Gas: Water: Exploratory:

From-To	From-To	From-To	From-To
0 - 10	-	-	-
10 - 20 *	-	-	-
20 - 30	-	-	-
30 - 40	-	-	-
40 - 50	-	-	-
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 - 255	-	-	-
255 - 260	-	-	-
260 - 270	-	-	-
270 - 280	-	-	-
280 - 295	-	-	-
-	-	-	-

* Unwashed samples only

OWNER: Speed & Briscoe, Well #2
DRILLER: Sydnor Pump and Well Co., Inc.
COUNTY: Hanover (Ashland)

VDMR #1533
WWCR #86
TOTAL DEPTH: 295'

GEOLOGIC LOG

Upland Sand and Gravel (0-60')

- 0-10 Sand and Clay — brown; subequal amounts of gray to yellowish-brown clay, and fine- to coarse-grained, poorly sorted, poorly rounded sand; feldspar present in undetermined amount; scattered flakes of muscovite and biotite; plant fragments common.
- 10-20 Clay — brown, very sandy; sand fine grained, fairly well sorted, poorly rounded; some feldspar; scattered plant fragments.
- 20-30 Sand — brown, moderately argillaceous (gray and brown clays), about 10% fine gravel (2-6 mm); fine- to coarse-grained, rather poorly sorted, subangular (sand) to subrounded (gravel); slightly arkosic; traces of brown phosphorite, brown epidote, and biotite.
- 30-40 scattered spores and plant fragments.
- 40-50 Sand and Gravel — brown, very slightly argillaceous; sand (55-60%) medium- to very-coarse-grained, fairly well sorted (skewed coarse), subrounded; gravel (40-45%) fine-grained (2-10 mm), well-sorted, subrounded to rounded; arkosic (dull white potassic feldspar); minor rounded, clear kyanite; small amounts magnetite, biotite, epidote; a few plant fragments.
- 50-60 No sample.

Calvert Formation (60-90')

- 60-70 Sand — gray, slightly to moderately argillaceous, 10-20% fine-gravel and shell fragments (2-5 mm); very-fine- to fine-grained, well-sorted, angular to subangular; traces of garnet and muscovite; platy, black to dark gray carbono-phosphatic fragments common; scattered echinoid spines, chalky pelecypod shell fragments, and plant fragments.
- 70-80 Sand and Shell — greenish-gray, slightly argillaceous, minor amount granules; fine-grained, very-well-sorted, angular; 15-20% chalky pelecypod shell fragments; minor plant fragments.
- 80-90 Sand and Gravel — brown; subequal amounts of fine-grained, subrounded to rounded gravel (granules and small pebbles up to 10 mm); and medium- to very-coarse grained, moderately sorted, moderately rounded sand; slightly arkosic; trace of epidote.

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Granodioritic Gneiss (90-295')

- 90-100 Biotite Gneiss — white and black, coarse-grained; oligoclase, potash feldspar, quartz, biotite, hornblende, chlorite; trace pyrite, sphene and apatite; minor rounded quartz pebbles, white and black shell fragments.
- 100-110 no shells; minor clay lumps.
- 110-120 no clay.
- 120-130 Gneiss — medium-light-gray, average grain size 1 to 3 mm; massive; feldspar, quartz biotite, hornblende, chlorite; minor pyrite.
- 130-140 minor feldspar porphyroblasts.
- 140-150 "
- 150-160 "
- 160-170 Contamination — rounded pebbles of quartz and sandstone, fine-to coarse-sand, white and black shell fragments.
- 170-180 Gneiss — medium-gray, average grain size 1 to 4 mm, massive; feldspar, biotite quartz, hornblende, chlorite; trace sphene and pyrite.
- 180-190 minor contamination with rounded quartz pebbles; trace clay and shell fragments.
- 190-200 "
- 200-210 no contamination; abundant pegmatitic vein material; albite and quartz.
- 210-220 Gneiss — medium-gray, average grain size 1 to 4 mm, massive; feldspar, biotite, quartz, chlorite; minor hornblende; trace sphene.
- 220-230 "
- 230-240 trace garnet.
- 240-255 trace vein calcite.
- 255-260 leucocratic band of feldspar, quartz and minor garnet; average grain size 0.3 mm.

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260-270 Gneiss — white and black; medium- to very-coarse- grained; feldspar, biotite, quartz, hornblende; minor pegmatitic albite and quartz; trace vein calcite.

270-280 no vein calcite.

280-295 "

GEOLOGIC SUMMARY

	<u>ROCK UNIT</u>	<u>AGE</u>
0-60	Upland Sand and Gravel	Post-Miocene
60-90	Calvert Formation	Miocene
90-295	Granodioritic Gneiss (Petersburg Granite ?)	Uncertain

Virginia Division of Mineral Resources
Hollis N. Walker, Robert Teifke, Geologists
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