

OWNER: Commonwealth of Virginia
Road Force Camp #21 - Well #2
DRILLER: Martin Well Company
COUNTY: Stafford (Falmouth)

VDMR #1312
WWCR #57
TOTAL DEPTH: 54'

GEOLOGIC LOG

Columbia Group (5-10⁺)

5 Sand — yellowish-brown; moderately argillaceous; very-fine-grained, very-well-sorted, angular; quartz sand with scattered grains of muscovite and magnetite.

10 As above.

Pamunkey Group (17-20)

17- Sand — gray; moderately argillaceous; very-fine-grained, very-well-sorted, angular; slightly glauconitic and micaceous (muscovite and chlorite) quartz sand; small amount magnetite; traces of garnet, pyrite, and pyrite-carbonaceous fragments.

Potomac Group (20-54')

20 Sand — light-gray; very argillaceous; very-fine- to very-coarse-grained, poorly sorted, subangular; very arkosic (fresh, gray-to white alkaline feldspar) quartz sand with much blue quartz; small amounts pyrite, magnetite, and mica; trace of pink garnet.

22 Clay — blue-gray; moderately sandy; sand is fine-grained, well-sorted, angular; abundant muscovite; small amounts pyrite, chlorite, and magnetite.

24 Sand — white; argillaceous; fine- to medium-grained, well-sorted, angular to subangular; arkosic (soft, white alkaline feldspar) quartz sand with small amounts pyrite, muscovite, and carbonaceous particles.

29 Sand — light-gray; argillaceous; fine- to coarse-grained, moderately sorted, angular to subangular; very arkosic (dull white alkaline feldspar) quartz sand with some blue quartz; small amounts of pyrite and garnet; traces of brown epidote and other heavy minerals.

37 Sand — light-gray; argillaceous; some small rounded pebbles (quartz, and quartz-feldspathic rock fragments); fine- to coarse-grained, poorly sorted, subangular; arkosic (white alkaline feldspar) quartz sand with some blue quartz; small amounts pyrite; traces of several "heavy" minerals.

40 As above.

45 As above.

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52 Lignitized Wood and Argillaceous Arkosic Sand.

54 Sand — light-gray; moderately argillaceous; coarse-grained, well sorted, subangular; very arkosic quartz sand with abundant blue quartz and small amounts of pyrite and orange garnet.

GEOLOGIC SUMMARY

	<u>ROCK UNIT</u>	<u>TIME ROCK UNIT</u>
5-10+	Columbia Group	Pleistocene
17-20	Pamunkey Group	Eocene
20-54	Potomac Group	Lower Cretaceous- Paleocene

Virginia Division of Mineral Resources
Robert H. Teifke, Geologist
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