

OWNER: Palindrome Corporation
Attn: Glen Saunders
DRILLER: Herman E. Hoppe
COUNTY: Fairfax (Herndon)

VDMR Well No: 976
WWCR Well No: 635
TOTAL DEPTH : 105

GEOLOGIC LOG

Residuum and Gravel (0-20')

- 0-5 Residual - pinkish-tan clay, angular sand and small fragments of light-brown to dark-red-brown shaley sandstone.
- 5-10 As above - minor lavender clay and sparse fragments of arkosic conglomerate.
- 10-15 Gravel - very pale blue and lavender; pebbles over 20 mm diameter (fractured by drilling), coarse sand, white clay; quartz, quartzite, basalt and biotite gneiss pebbles.
- 15-20 As above - slightly darker, partially cemented by purple gray clay; no gneiss pebbles.

Manassas Sandstone (20-105')

- 20-25 Shaley Arkosic Sandstone - gray-lavender, very-fine to coarse sand, very micaceous, friable; traces of carbonized wood, minor limonite stain.
- 25-30 Arkose - gray-tan, 0.2 mm to over 10 mm sand and pebbles, permeable minor laminae of dark-gray, shaley, micaceous, sandstone; quartz, mica, sericitized feldspar; minor ilmenite-magnetite; trace, iron oxide stain.
- 30-35 As above - with medium-gray, shaley, micaceous sandstone laminae.
- 35-40 As above - much less shaley sandstone.
- 40-45 As above
- 45-50 As above - with medium-dark-gray, medium-fine-grained sandstone; some of the larger grains are dark-gray shale.
- 50-55 No Sample
- 55-60 Sandstone - medium-gray to dark reddish gray, fine-angular-sand, very micaceous; minor arkose as above.
- 60-70 As above - with scarce sand grains.

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- 70-75 Arkosic Sandstone - light-gray, medium to coarse angular sand, bedded; minor dark micaceous fine grained sandstone; quartz, mica, feldspar, minor carbonaceous material and iron oxide.
- 75-80 As above
- 80-85 As above
- 85-90 As above - with about one-third of sample: medium-pinkish-gray, fine grained, micaceous sandstone.
- 90-95 Sandstone - medium-gray, brownish, micaceous, fine-angular sand, minor vein calcite; minor coarser lighter gray sandstone as above.
- 95-100 Sandstone - light-tannish-gray, coarse-grained sand, arkosic, quartz; feldspar, minor ilmenite-magnetite, carbonaceous material.
- 100-105 Sandstone - medium-pinkish-gray, fine angular sand, very micaceous, minor coarse sand as above.

GEOLOGIC SUMMARY

	<u>ROCK UNIT</u>	<u>TIME ROCK UNIT</u>
0-20	Residuum and Gravel	Recent
20-105	Manassas Sandstone	Triassic

Virginia Division of Mineral Resources
Hollis N. Walker, Geologist
January 6, 1966