

OWNER: Lower Tuckahoe Land Co., Well #4
DRILLER: Sydnor Pump and Well Co., Inc.
COUNTY: Goochland (Manakin)

VDMR: 1655
WWCR: 51
TOTAL DEPTH: 306'

GEOLOGIC LOG

Depth in feet

| | |
|---------|--|
| 0-10 | Sand - reddish-tan; silty, fine-to coarse-grained; iron-oxide stains |
| 10-20 | " |
| 20-30 | Sand - gray; coarse- to medium-grained, micaceous, poorly sorted; quartz, feldspar and mica; some shale fragments |
| 30-40 | " |
| 40-50 | Sandstone - light gray; coarse- to medium-grained, subangular, poorly consolidated, poorly sorted; slightly carbonaceous and micaceous |
| 50-60 | " |
| 60-70 | " |
| 70-80 | " |
| 80-90 | " |
| 90-100 | " |
| 100-110 | " |
| 110-120 | " |
| 120-130 | " |
| 130-140 | Shale - dark gray to black; silty, fissile, soft; slickensides; carboniferous and micaceous; calcite crusts on bedding planes |
| 140-150 | " |
| 150-160 | Sandstone - light gray; medium- to fine-grained, subangular to angular; quartz, feldspar and mica; argillaceous |
| 160-170 | " |

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|---------|---|
| 170-180 | Shale - dark gray; silty, slightly fissile, carboniferous; slickensides |
| 180-190 | Sandstone - light gray; coarse- to fine-grained, poorly sorted, angular to subangular; quartz, feldspar and mica; slightly calcareous |
| 190-200 | " |
| 200-210 | " |
| 210-220 | " |
| 220-230 | Shale - black; silty, slightly fissile; carboniferous and micaceous |
| 230-240 | Sandstone - light gray; coarse- to fine-grained, subangular, to angular; quartz, feldspar and mica; slightly calcareous |
| 240-250 | " with thin, interbedded, very micaceous shale |
| 250-260 | " " |
| 260-270 | " " |
| 270-280 | Shale - black; fissile, soft; slickensides; pyrite and calcite; plant fossils and some lighter-gray, micaceous siltstone |
| 280-290 | Sandstone - light gray; coarse- to medium-grained, subangular to angular; quartz, feldspar and mica; argillaceous, poorly sorted; some thin, interbedded, micaceous shale |
| 290-300 | " increase in shale |
| 300-306 | No sample |

GEOLOGIC SUMMARY

| <u>Rock Unit</u> | <u>Age</u> |
|------------------|------------|
| Newark Group | Triassic |

Virginia Division of Mineral Resources
 Robert G. Willson, Geologist
 October 27, 1967