

OWNER: District Theatres, Inc.
(Tuckahoe Drive-In, #2)
DRILLER: Sydnor Pump and Well Co., Inc.
COUNTY: Goochland (Manakin)

VDMR #1386
WWCR #45
TOTAL DEPTH: 275'

GEOLOGIC LOG

- 0-12 No sample.
- 12-53 Arkose — cream and light-gray, grain size medium sand to granule; minor rounding of some of the quartz; feldspar, quartz, muscovite, trace calcite; minor dark-gray-brown, biotite-muscovite concentrations; trace coal chips.
- 53-70 Calcareous-Carbonaceous Arkose, and Bituminous Shale — dark-gray with minor medium light-gray; grain size fine sand to granule, arkose, and siltstone with abundant calcite and carbonaceous cement, extremely micaceous in part; calcareous-bituminous shale; many shiny slickenside surfaces.
- 70-100 Arkose — very-light-gray to medium-dark-gray, grain size fine sand to granule to fine pebble; bedded; quartz, feldspar, muscovite, biotite; the darker areas are fine-grained and rich in biotite; carbonaceous slickensides; trace coal; the lighter portion poorly indurated.
- 100-125 As above — more sand, less indurated.
- 125-150 Carbonaceous Arkose — light-cream to medium-dark-brown-gray; grain size sand to fine granule to small pebble; interbedded by shaly dark siltstones and bituminous shales; feldspar, quartz, muscovite, biotite, carbonaceous material including fossil twigs; many slickensides surfaces.
- 150-175 As above — more carbonaceous, and porous, one fragment pure coal 7 mm. thick.
- 175-200 As above — less bituminous shale; abundant unconsolidated sand.
- 200-225 As above — much less sand; more shale.
- 225-250 As above — less shale more carbonaceous, shaly siltstones.
- 250-275 As above.

GEOLOGIC SUMMARY

| <u>ROCK UNIT</u> | <u>TIME ROCK UNIT</u> |
|---------------------|-----------------------|
| 0-12 No sample | |
| 12-275 Newark Group | Triassic |

Virginia Division of Mineral Resources
Hollis N. Walker, Geologist
October 14, 1965