



OWNER: Sidney Bear  
DRILLER: Sydnor Pump & Well Co.  
COUNTY: Augusta (Churchville)

VDMR # 743  
WWCR # 263  
TOTAL DEPTH : 303

GEOLOGIC LOG

- 0-10 Sand and gravel - yellow, rounded to subrounded quartz grains and pebbles, cherty, argillaceous, trace of iron oxide
- 10-15 Chert - gray, hard, cryptocrystalline, heavy trace of silica-cemented sandstone, slight trace of iron oxide
- 15-30 Dolomite - white (weathered), hard, slightly permeable and calcareous, fine grained, heavy trace of quartz and silica-cemented sandstone fragments (top of bedrock in this interval)
- 30-45 Limestone - light yellow, moderately hard, slightly permeable, moderately calcareous, argillaceous, 20% very fine grained silt and sand, trace of iron oxide
- 45-60 Limestone - yellow, hard to soft fragments, weathered, slightly permeable, highly calcareous, very argillaceous, 25% very fine grained silt and sand, trace of iron oxide
- 75 Clay and sand - yellow clay with very fine to medium grained, rounded quartz sand; heavy trace of weathered limestone, trace of iron oxide
- 90 Limestone - dark gray, hard, dense, microcrystalline, very calcareous, heavy trace of calcite vein material and weathered limestone, slight trace of iron oxide
- 105 Limestone - medium gray, hard, dense, microcrystalline, very calcareous, trace of calcite vein material, slight trace of iron oxide and pyrite
- 120 Limestone - medium gray, hard, dense, microcrystalline to very fine grained, very calcareous, oolitic, trace of calcite vein material, slight trace of iron oxide
- 135 Limestone - medium to dark gray, hard, dense, microcrystalline to very fine grained, very calcareous, 5% calcite vein material, trace of iron oxide
- 150 Limestone - light to medium gray, hard, dense, microcrystalline to very fine grained, moderately calcareous, oolitic, trace of calcite vein material, slight trace of iron oxide

- 165 Limestone - light gray, hard, dense, microcrystalline to fine grained, moderately calcareous, oolitic, slight trace of iron stains
- 165-180 Limestone - light gray, hard, dense, microcrystalline, moderately calcareous, slight trace of iron stains
- 180-195 Limestone - medium to dark gray, hard, dense, microcrystalline to very fine grained, moderately calcareous, trace of iron oxide and iron stains, slight trace of calcite vein material
- 195-210 Limestone - medium gray, hard, dense, microcrystalline to very fine grained, moderately calcareous, trace of iron oxide and iron stains
- 210-225 Limestone - medium gray, hard, dense, microcrystalline, moderately calcareous, heavy trace of iron stains and calcite vein material
- 225-240 As above
- 240-255 Limestone - light yellow to medium gray, hard, dense, microcrystalline to very fine grained, moderately calcareous, argillaceous, heavy trace of iron stains
- 255-27- As above
- 270-285 Limestone - medium gray, hard, dense, microcrystalline, moderately calcareous, trace of calcite vein material and iron stains
- 285-300 Limestone - light to medium gray, hard, dense, microcrystalline, heavy trace of iron stains, slight trace of calcite vein material

## GEOLOGIC SUMMARY

AGE

Cambrian

ROCK UNIT

Conococheague limestone

Virginia Division of Mineral Resources  
Merrick S. Whitfield - Geologist  
January 30, 1963