

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