

OWNER: Town of Stanley Well #2
DRILLER: Sydnor Pump & Well Co.
COUNTY: Page

VDMR #664
WWCR # 58
DEPTH: 490

SAMPLE EXAMINATION

0-142 No samples

142-172 Clay-yellow, soft, silty-very fine grained, permeable

172-200 Clay-yellow, soft, silty-very fine grained permeable, with small fragments of soft, gray, slightly silty shale (10%)

200-250 Siltstone-gray to yellow, well consolidated, hard, very fine grained, almost impermeable

-250 As above (Sample bailed from well before running turbine)

-268 As above

-283 Siltstone-pink, yellow and gray, hard, well consolidated, very fine grained, argillaceous, slightly permeable

285-300 Siltstone-pink to yellow, hard, well consolidated, fine grained, slightly permeable

-297 Siltstone-pink, yellow and gray, hard, well consolidated, fine grained, argillaceous, slightly permeable

300-315 Siltstone-pink and yellow, hard, well consolidated, fine grained, calcareous with some small calcite veins, slightly permeable

315-330 As above but mostly pink and more calcareous

330-345 Siltstone-pink and yellow, moderately hard, well consolidated. fine grained, slightly permeable, highly calcareous, with small calcite veins

345-360 Siltstone-pink, yellow and gray, hard, well consolidated, fine grained, slightly permeable, highly calcareous, increase in calcite vein fillings

360-380 Siltstone-light gray, hard, well consolidated, fine grained, highly calcareous, slightly permeable

380-395 Siltstone-light gray and pink, hard, well consolidated, highly calcareous, with calcite vein material, slightly permeable, trace of manganese oxide in dendrites

- 395-410 As above without the manganese oxide
- 410-425 Siltstone-yellow, pink and gray, hard, well consolidated, highly calcareous with calcite vein material, slightly permeable, trace of manganese oxide staining
- 425-440 As above with 1% manganese oxide stained particles
- 440-475 Siltstone-light green, gray, tan and pink, hard, well consolidated, highly calcareous with calcite vein material, slightly permeable, slight trace of manganese oxide stained particles
- 475-490 Siltstone-light gray and pink, hard, well consolidated, fine grained, calcareous, slightly permeable

GEOLOGIC SUMMARY

Cambrian

Rome (Waynesboro) Fm.

REMARKS

#1 Bailer sample description of fill from 348' after pump testing: Siltstone-light gray with red staining, hard, well consolidated, fine grained, calcareous, slightly permeable

#2 Bailer sample description of fill from 348'6" after pump testing: Same as above

The fill material that occurs in the drill hole from 348 to 490 feet below ground level could have been forced up the hole from a depth below 400 feet by vertical release of compressive forces near the Stanley fault, or from a caving zone between 316 and 348 feet. The pump test of 110 gallons per minute of CLEAR water seems to support the latter, and indicate the aquifer is also between 316 and 348 feet below ground level. However, there is no indication of water-bearing strata or fractures on the electric logs of this depth interval.

Virginia Division of Mineral Resources
Merrick S. Whitfield
June 13, 1962