

OWNER: McGaheysville Water Co., Inc. - Well #3
DRILLER: Sydnor Pump & Well Co., Inc.
COUNTY: Rockingham

VDMR #1106
WWCR #484
TOTAL DEPTH: 392'

GEOLOGIC LOG

0-45 No sample.

Chepultepec Formation (45-370')

- 45-50 Limestone — bluish-gray to gray, fine-grained, rough fracture surfaces; red partings, calcite rhombohedrons; clay particles.
- 50-55 As above — vein calcite.
- 55-60 Limestone — bluish-black to black; bluish-black as above; black, fine-grained, considerable amount of open spaces possibly due to leaching, calcite crystals coated by hematite stains.
- 60-65 As above.
- 65-70 Limestone — black, fine-grained.
- 70-75 As above — with clay balls containing limestone fragments.
- 75-80 Limestone — black, fine-grained; the chips have one or more areas which appear dirty-gray rather than black, this may be due to shearing or to the impact of the drill, these areas have the appearance of cutting dust except that they can not be brushed or washed off; calcite rhombohedrons.
- 80-85 As above.
- 85-90 As above.
- 90-95 As above — clear and white calcite.
- 95-100 Limestone —dark-gray, fine-grained, dirty-gray patches; white and clear vein calcite; minor pyrite; yellow, earthy staining (limonite ?).
- 100-105 As above.
- 105-110 As above.
- 110-115 As above — no calcite veins.
- 115-120 As above — calcite veins, minor pyrite, staining.

OWNER: McGaheysville Water Co., Inc. - Well #3

#1106

- 120-125 Limestone -- dark-gray, fine-grained, dirty-gray patches; white and clear vein calcite; yellow, earthy staining (limonite ?).
- 125-130 Limestone -- dark-gray, fine-grained, dirty-gray patches; calcite veins.
- 130-135 As above -- with staining.
- 135-140 As above -- no calcite veins.
- 140-145 As above.
- 145-150 As above.
- 150-155 Limestone -- dark-gray, fine-grained, dirty-gray patches; fractures have a black, nodular coating.
- 155-160 As above.
- 160-165 As above -- minor pyrite.
- 165-170 As above.
- 170-175 Limestone -- dark-gray, fine-grained, dirty-gray patches; shaly layers.
- 175-180 As above.
- 180-185 As above.
- 185-190 As above.
- 190-200 As above.
- 200-210 Limestone -- dark-gray, fine-grained; dirty-gray patches; calcite rhombohedrons.
- 210-220 As above -- no calcite.
- 220-230 As above.
- 230-240 Limestone -- bluish-black to black; both are fine-grained, black has minor pyrite.
- 240-250 As above.
- 250-260 Limestone -- bluish-black, fine-grained, dirty-gray patches.
- 260-270 As above -- minor pyrite.

OWNER: McGaheysville Water Co., Inc. - Well #3

#1106

270-280 No sample.

280-290 Limestone — dark-gray to black; fine-grained; dirty-gray patches; black has minor pyrite.

290-300 As above.

300-310 As above.

310-320 As above.

320-330 As above — minor vein calcite.

330-340 Limestone — dark-gray to black; fine-grained, dirty-gray patches; shaly layers; black has minor pyrite; minor vein calcite.

340-350 As above.

350-360 As above.

360-370 As above.

Conococheague Formation (370-390')

370-380 Limestone — dark-gray to black as above; also light-gray, fine-grained, rough fracture surfaces.

380-390 Limestone as above — with flat clay fragments containing limestone fragments and micaceous flakes.

390-392 No sample.

GEOLOGIC SUMMARY

	<u>ROCK UNIT</u>	<u>TIME ROCK UNIT</u>
0-45	No sample	
45-370	Chepultepec Formation	Lower Ordovician
370-390	Conococheague Formation	Upper Cambrian
390-392	No sample	

Virginia Division of Mineral Resources
Garnett Gatlin, Geologist
December 10, 1964