

INTERVAL SHEET

WWCR 588

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VDMR Well No.: Well No. 957

Date 3/3/64

Sample Interval: from 0 to 350

PROP: Town of Leesburg

Total depth 400

COMP: Sydnor

Oil Gas Water X Exploratory

COUNTY: Loudoun (Leesburg)

Cuttings X Core Other

VDMR Well No: W-957

From-To	Washed samples - only From-To	From-To	From-To	From-To
-	0 - 10	300 - 310	-	-
-	10 - 20	310 - 320	-	-
-	20 - 30	320 - 330 No sample	-	-
-	30 - 40	330 - 340	-	-
-	40 - 50	340 - 350	-	-
-	50 - 60	350 - 400 No sample	-	-
-	60 - 70	-	-	-
-	70 - 80	-	-	-
-	80 - 90	-	-	-
-	90 - 100	-	-	-
-	100 - 110	-	-	-
-	110 - 120	-	-	-
-	120 - 130	-	-	-
-	130 - 140	-	-	-
-	140 - 150	-	-	-
-	150 - 160	-	-	-
-	160 - 170	-	-	-
-	170 - 180	-	-	-
-	180 - 190	-	-	-
-	190 - 200	-	-	-
-	200 - 210	-	-	-
-	210 - 220	-	-	-
-	220 - 230	-	-	-
-	230 - 240	-	-	-
-	240 - 250	-	-	-
-	250 - 260	-	-	-
-	260 - 270	-	-	-
-	270 - 280	-	-	-
-	280 - 290	-	-	-
-	290 - 300	-	-	-

OWNER: Town of Leesburg
DRILLER: Sydnor Pump & Well Co., Inc.
COUNTY: Loudoun (Leesburg)

VDMR #957
WWCR #588
TOTAL DEPTH: 400'

GEOLOGIC LOG

Overburden (0-40')

- 0-10 Overburden — light red-brown, fine- to coarse-grained, clay, sand, gravel, impure sandstone fragments.
- 10-20 As above — slightly darker, some very ferruginous siltstone.
- 20-30 As above.
- 30-40 As above.

Border Conglomerate (40-350')

- 40-50 Limestone Conglomerate — mixed red-brown and gray with white veins, medium- to fine-grained, red-brown silty limestone; gray dolomitic limestone with quartz grains; minor white calcareous siltstone, and brown calcareous sandstone.
- 50-60 As above.
- 60-70 As above — increase of gray dolomite showing some oolites, and containing quartz and feldspar.
- 70-80 As above — increase of red-brown limestone and minor very ferruginous siltstone.
- 80-90 Limestone Conglomerate — red-brown, minor gray and white, medium- to fine-grained, silty limestone and dolomitic sandstone with minor mica; gray sandy dolomite; white calcareous siltstone.
- 90-100 As above — less sand in gray dolomite.
- 100-110 As above — more gray dolomite less red brown limestone and sandstone.
- 110-120 As above — with calcite and quartz veins.
- 120-130 Limestone Conglomerate — red-brown, very minor gray and white, medium- to fine-grained; silty limestone; calcareous sandstone with pebbles and minor mica; very minor gray limestone; white calcareous siltstone.

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- 130-140 Limestone Conglomerate and Siltstone — red-brown, gray and minor white, medium- to fine-grained; white siltstone silty limestone; calcareous sandstone with pebbles and minor mica; very minor gray limestone; white calcareous siltstone, minor green dolomitic siltstone.
- 140-150 As above — with both calcite and quartz veins, both gray limestone and red limestone contain quartz sand.
- 150-160 As above — more gray limestone with limestone pebbles in it.
- 160-170 Limestone Conglomerate — red-brown and gray in equal amounts, coloring is mottled; no definite boundaries, composed of silty sandy limestones.
- 170-180 Leached Conglomerate — red-brown and yellow-brown, fine-to medium-grained, sandstone pebbles with quartz, plagioclase, mica, and clay; siltstone pebbles; material very porous, molds of rounded pebble; non-calcareous possible leaching, minor angular limestone fragments.
- 180-190 Limestone Conglomerate — red-brown silty limestone, gray dolomitic limestone; quartz and calcite veins; fragments of leached material.
- 190-200 As above — with white calcareous siltstone and more quartz veins.
- 200-210 As above — less quartz vein material.
- 210-220 As above.
- 220-230 Limestone Conglomerate — red-brown and gray silty limestone; fine- to medium-grained.
- 230-240 As above.
- 240-250 As above.
- 250-260 As above — about 5% of sample completely leached until some fragments are composed only of euhedral doubly terminated secondary quartz crystals with carbonate inclusions; some completely leached siltstone; porous.
- 260-270 As above — less leached material.

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270-280 Limestone Conglomerate — red-brown silty limestone, gray dolomitic silty limestone, white calcite veins.

280-290 As above — very minor leached material.

290-300 As above.

300-310 As above — slightly more leached material.

310-320 Limestone Conglomerate — red-brown, silty limestone, gray limestone, white calcite veins, minor leached material.

320-330 No sample.

330-340 Limestone Conglomerate — red-brown, silty limestone, gray limestone, white calcite veins, minor leached material, gray to red.

340-350 As above — more, red, less gray.

350-400 No sample.

GEOLOGIC SUMMARY

<u>ROCK UNIT</u>	<u>TIME ROCK UNIT</u>
0-40 Overburden	
40-350 Border Conglomerate	Triassic
350-400 No sample	

Virginia Division of Mineral Resources
Hollis N. Walker, Geologist
December 1, 1964