OWNER: Fairview Community Center Inc.

DRILLER: Sydnor Pump and Well Company, Inc.

COUNTY: Bath

VDMR #938 WWCR #25 TOTAL DEPTH: 408'

## GEOLOGIC LOG

## Overburden (0-221)

0-20 No sample.

Overburden — light-brown, coarse-grained, quartz, sand and sandstone with ferruginous clay, vein quartz, minor magnetite and fragments of ferruginous sandstone.

## Oriskany Formation (22-78')

- Sandstone cream-colored, coarse-grained, angular, poorly sorted quartz grains with clay cement and a few ferruginous clay, concretions.
- Sandstone medium-brown, coarse-grained, subangular, poorly sorted, quartz sand and sandstone, clay cement and ferruginous cement; minor light-brown sandstone, very permeable.
- 50 Sandstone white, coarse-grained, quartz sand and sandstone, poorly sorted, subangular clay cement.
- Ferruginous Sandstone and Goethite medium-dark brown, coarse- to fine-grained, poorly sorted, subangular quartz, sand with ferruginous clay cement; 50% of the rock fragment are almost pure goethite.

## Helderberg Group (78-4081)

- 78 Sandstone and Limestone sandstone as above ferruginous, porous; limestone medium-dark gray, medium-grained, calcite, and quartz veins.
- 90 Limestone medium-dark gray, fine-grained, with calcite veins.
- As above with light-gray, medium-grained, limestone.
- 105-125 Limestone dark-gray and fine- to medium-gray, minor veins of calcite.
- Dolomitic Limestone very dark-gray, fine-grained, dolomite; calcite, minor calcite veins.

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145-150	Limestone — dark-gray, fine- to medium-grained, calcite veins and chalcedony veins, silty limestone layers.
150-160	Limestone — dark-gray, fine-grained, calcite with minor white calcite veins.
160-168	Silty Limestone — dark-gray, fine-grained, X-ray examination; calcite, quartz, minor epidote.
168-183	As above.
183-198	As above — with white calcite veins and minor buff-colored siltstone.
198-213	Calcareous Sandstone — medium-gray, coarse-grained, quartz, calcite and carbonaceous material.
213-228	Sandstone and Limestone - 50% light-brown, coarse-grained, calcareous sandstone; limestone, 50% dark-gray, coarse-grained, crystalline limestone.
228-243	Marble — light-gray, coarse-grained, crystals of calcite up to 5 mm across, minor pyrite; minor buff-colored siltstone.
243-258	Marble — medium-gray, coarse-grained calcite with minor dark, fine-grained, calcareous limestone; and minor buff-colored siltstone.
258-273	As above - marble slightly darker, less siltstone.
273-288	Dolomite — dark-gray, fine-grained; (X-ray examination shows predominant dolomite, minor calcite and quartz).
288-303	Sandstone — buff-colored, medium-grained, subrounded; minor amount of medium-dark gray, fine-grained sandstone.
303-318	Dolomite - very dark-gray with minor white; minor quartz.
318-333	Dolomite and Sandy Limestone — 50% dolomite as above; 50% very light-gray, coarse-grained, limestone with rounded grains of quartz and chert.
333-348	Sandstone — 1/3 of which is light-gray, fine-grained, subrounded with calcareous cement.
	1/3 of sample is dark-gray, shaly, minor chlorite, silt and calcareous cement.

1/3 of sample is light-brown, fine-grained, angular, calcareous cement.

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348-363	Sandy Dolomite — light-gray, coarse-grained and dark-gray, fine-grained; darker, contains chlorite; minor pyrite throughout.			
363-378	Silty Dolomitic Limestone — dark-gray, fine-grained and dark-brown, medium-grained, X-ray examination showed predominance of calcite, lesser amounts of quartz and dolomite.			
378-393	As above.			
393-400	Carbonaceous Dolomite — very dark-gray almost black, very fine-grained; calcareous minor brown siltstone; vein calcite.			
400-408	As above — less siltstone, vein quartz, very minor pyrite.			
GEOLOGIC SUMMARY				
	ROCK UNIT	TIME ROCK UNIT		
0-22 22-78 78-408	Overburden Oriskany Formation Helderberg Group	Quaternary Devonian Devonian		

Virginia Division of Mineral Resources Hollis N. Walker, Geologist December 3, 1964