

INTERVAL SHEET WWCR: 607

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VDMR Well No: 2187

Date rec'd: 5/17/68

Sample Interval: from 0 to: 450'

PROP: Notre Dame Academy, Well #1

Number of samples: 44

COMP: Leazer Pump & Well Co.

Total Depth: 452'

COUNTY: Loudoun (Middleburg)

Oil or Gas: Water: XExploratory:

From-To	From-To	From-To	From-To
0 - 10	300 - 310	-	-
10 - 20	310 - 320	-	-
20 - 30	320 - 330	-	-
30 - 40	330 - 340	-	-
40 - 50	340 - 350	-	-
-	350 - 360	-	-
60 - 70	360 - 370	-	-
70 - 80	370 - 380	-	-
80 - 90	380 - 390	-	-
90 - 100	390 - 400	-	-
100 - 110	400 - 410	-	-
110 - 120	410 - 420	-	-
120 - 130	420 - 430	-	-
130 - 140	430 - 440	-	-
140 - 150	440 - 450	-	-
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	-	-	-

All intervals have both washed and unwashed samples

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DRILLER: Leazer Pump and Well Company  
COUNTY: Loudoun (Middleburg)

VDMR: 2187  
WWCR: 607  
TOTAL DEPTH: 452'

GEOLOGIC LOG

Depth in  
feet

0-10	Weathered granite — tan, weathered and slightly iron-oxide stained; quartz, feldspar, and traces of amphiboles and clay
10-20	"
20-30	"
30-40	"
40-50	Weathered schist — blue-gray to brown, minor amount of weathered fragments and several others are iron-oxide stained; well-foliated, sheared, very fine-grained; biotite, quartz, sericite, feldspar, and amphiboles; a few amphibolite fragments
50-60	No sample
60-70	Weathered schist — blue-gray to brown, minor amount of weathered fragments and several others are iron-oxide stained; well-foliated, sheared; very fine-grained; biotite, quartz, amphiboles, sericite, and feldspar; a few fragments contain large amounts of amphiboles
70-80	" with trace of pyrite
80-90	Weathered granite — tan, weathered and iron-oxide stained; sheared; feldspar, quartz (clear and pink), and trace of amphiboles; a few fragments of schist
90-100	Mylonite — light-gray, very-slightly weathered and iron-oxide stained; sheared, slickensides; quartz, (clear and pink), feldspar, amphiboles, and talc
100-110	"
110-120	"
120-130	" with crystals of magnetite

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130-140	Mylonite — light-gray, sheared, slickensides; quartz, (clear and pink), feldspar, amphiboles, and talc; a few crystals of magnetite
140-150	"
150-160	" greenish-gray
160-170	" "
170-180	" "
180-190	Sheared granite -- greenish-gray, very fine-grained, mylonitic; slickensides; quartz (clear and pink), feldspar, magnetite, chlorite, talc, epidote, and trace of pyrite
190-200	"
200-210	" very mylonitic
210-220	Mylonite — gray, very fine-grained, sheared granite; feldspar, quartz (clear and pink), chlorite, talc, magnetite, and trace of pyrite
220-230	"
230-240	"
240-250	"
250-260	" light greenish-gray; increase in amount of chlorite; finer-grained
260-270	" "
270-280	"
280-290	Biotite schist — dark-gray, very fine-grained, phyllitic; sheared, foliated; quartz, biotite, feldspar and talc
290-300	Mylonite — gray, very fine-grained, sheared granite; feldspar, quartz (clear and pink), chlorite, talc, and traces of magnetite and pyrite
300-310	"
310-320	"

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- 320-330 Mylonite — gray, very fine-grained, sheared granite; feldspar, quartz (clear and pink), chlorite, talc, and traces of magnetite and pyrite
- 330-340 "
- 340-350 Biotite schist — very-dark-gray to -black; very fine grained; foliated; biotite, quartz and feldspar
- 350-360 Amphibole-biotite schist — dark greenish-gray, very fine-grained; sheared, foliated-to slightly-foliated; amphiboles, biotite, feldspar and quartz
- 360-370 Biotite schist — very dark-gray to -black; very fine-grained; foliated; biotite, quartz, feldspar and amphiboles; a few coarse, crystalline grains of pink quartz
- 370-380 Mylonite — gray, fine-grained; a highly-sheared granite; quartz (clear and pink), feldspar, chlorite, biotite, and trace of pyrite
- 380-390 "
- 390-400 " slightly-less sheared
- 400-410 "
- 410-420 "
- 420-430 "
- 430-440 "
- 440-450 " slightly-less sheared
- 450-452 No sample

GEOLOGIC SUMMARY

	<u>ROCK UNIT</u>	<u>AGE</u>
0-90'	Saprolite	—
90-450'	Marshall Granite	Precambrian
450-452'	No sample	—

Virginia Division of Mineral Resources  
 Robert G. Willson, Geologist  
 May 20, 1968

COMMONWEALTH OF VIRGINIA  
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

MAILING ADDRESS:  
Box 3667  
Charlottesville, VA 22903

DIVISION OF MINERAL RESOURCES  
JAMES L. CALVER, COMMISSIONER

OFFICE ADDRESS:  
McCormick Road  
Charlottesville, Virginia

WATER WELL COMPLETION REPORT

OWNER: Notre Dame Academy, #1 Mailing Address: Middleburg, VA 22117

TENANT: " " " Mailing Address: " " "

DRILLER: Leazer Pump & Well Co. Mailing Address: Remington Va.

WELL LOCATION: County Loudoun Approx. 6000 <sup>feet</sup>/<sub>miles</sub> North (direction) of U.S. Hwy 50  
and 3000 <sup>feet</sup>/<sub>miles</sub> east (direction) of State Road 615

(GIVE DIRECTION AND DISTANCE IN FEET OR MILES FROM TWO REFERENCE POINTS - ROADS, TOWNS, RIVERS, ETC. - ON COUNTY HIGHWAY OR OTHER MAP.)

DATE STARTED: \_\_\_\_\_ DATE COMPLETED: May 8, 1968

TYPE OF DRILL RIG USED: Rotary TOTAL DEPTH 452 feet

WATER LEVEL: Stands \_\_\_\_\_ feet below surface OR  
has NATURAL flow of \_\_\_\_\_ gallons per minute.

YIELD TEST: Method Air  
Drawdown \_\_\_\_\_ feet  
Rate 1 1/2 gal. per min.  
Duration \_\_\_\_\_ hrs., \_\_\_\_\_ min.

HOLE SIZE: 6 inches from 0 to 452 feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet

WATER ZONES: from 290 to 300 feet  
from \_\_\_\_\_ to \_\_\_\_\_ feet  
from \_\_\_\_\_ to \_\_\_\_\_ feet

SCREEN SIZE: \_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet

WATER: Color \_\_\_\_\_ Taste \_\_\_\_\_  
Odor \_\_\_\_\_ Temp. \_\_\_\_\_ °F

CASE SIZE: 6 inches from +1 to ? feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet

WELL TO SUPPLY: (check one) Home \_\_\_\_\_  
Farm \_\_\_\_\_ Town \_\_\_\_\_ School \_\_\_\_\_  
Industry \_\_\_\_\_ Other \_\_\_\_\_

GROUTING: Method \_\_\_\_\_  
Material \_\_\_\_\_ Depth \_\_\_\_\_ feet

WATER ANALYSIS AVAILABLE: Yes \_\_\_\_\_ No   
DRILL CUTTINGS SAVED: Yes  No \_\_\_\_\_

PUMP: Type \_\_\_\_\_  
Capacity \_\_\_\_\_ gal. per min.  
Depth of intake \_\_\_\_\_ feet

(DRILL CUTTINGS SHOULD BE COLLECTED AT 10 FOOT INTERVALS. THESE SAMPLES MAY BE SHIPPED TO THIS OFFICE EXPRESS COLLECT. SAMPLE BAGS ARE FURNISHED FREE OF CHARGE UPON REQUEST.)

REMARKS: Hole abandoned - insufficient amount of water

# LOG

FURNISHED BY: E. C. Leazer

DATE: May 13, 1968

DEPTH (feet)		TYPE OF ROCK OR SOIL PENETRATED ( gravel, clay, etc., hardness, color, etc.)	REMARKS (water, caving, shot, screen, sample, etc.)
FROM	TO		
0	4	Soil - Loam	
4	30	Sandstone	
30	40	Red Sandstone	
40	50	Soapstone	
50	80	Bluestone or shell	
80	90	Sandstone and shell	
90	130	Flagstone	
130	180	Sandstone	
180	210	green rock	
210	220	gray rock	
220	230	gray & green rock	
230	240	gray rock	
240	250	dark-light green rock	
250	260	green & gray rock	
270	280	dark gray rock	
280	290	"	
290	300	green, gray, white (1 1/2 gpm)	
300	310	gray rock	
310	320	green, gray, white	
320	340	Lt. green	
340	370	dark green	
370	390	Lt. green & gray	
390	400	" "	
400	420	gray rock	
430	440	Lt. green	
440	452	gray, green, white	