# COMMONWEALTH OF VIRGINIA

VDMR: 2307 WWCR: 609

DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

MAILING ADDRESS:

# DIVISION OF MINERAL RESOURCES

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JAMES L. CALVER, COMMISSIONER

Intracyille VA 22903 WATER

WELL COMPLETION

McCormick Road

OFFICE ADDRESS:

VALER WELL CO	JWPLETION REPORT Charlottesville, Virginia	
Department of Interior  WNER: U. S. Geological Survey Mailing Address: Washington, D. C.		
TENANT:Test Well #1	Mailing Address: P. O. Box 1476	
DRILLER: Sydnor Hydrodynamics, Inc.		
WELL LOCATION: County Loudoun	Approx. 3/4 miles west (direction) of	
U. S. Hwy. 15 and 50	feet south (direction) of U.S. Hwy. 50	
(GIVE DIRECTION AND DISTANCE IN FEET OR MILES FROM TO COUNTY HIGHWAY OR OTHER MAP.)		
DATE STARTED: 7/1/68	DATE COMPLETED: 7/9/68	
TYPE OF DRILL RIG USED: air rotary	TOTAL DEPTH 210 feet	
WATER LEVEL: Stands 6 feet below	surface OR	
has <u>NATURAL</u> flow of	gallons per minute.	
YIELD TEST: Methodpump	HOLE SIZE: 8 3/4 inches from 0 to 17 feet	
Drawdown32 feet	6 1/2 inches from 17 to 210 feet	
Rate gal. per min.	inches fromtofeet	
Duration $3$ hrs., $17$ min.	SCREEN SIZE:inches fromtofeet	
WATER ZONES: from 42 to 45 feet	inches fromtofeet	
from 67 to 75 feet	inches fromtofeet	
fromtofeet	CASE SIZE: *7 inches from 0 to 17 feet	
WATER: ColorTaste	inches fromtofeet	
Odor	inches fromtofeet	
WELL TO SUPPLY: (check one) Home	GROUTING: Method <u>none</u>	
Farm Town School	Material Depthfeet	
IndustryOthertest_well	PUMP: Type submersible	
WATER ANALYSIS AVAILABLE:YesNo_X_	Capacitygal. per min	
DRILL CUTTINGS SAVED: Yes_X_No	Depth of intakefeet	
(DRILL CUTTINGS SHOULD BE COLLECTED AT 10 FOOT I	NTERVALS. THESE SAMPLES MAY BE SHIPPED TO THIS	
R ARKS: * Casing pulled out after pump test:	well abandoned and hole back-filled.	
Misself A		

FURNISHED BY: Sydnor Hydrodynamics, Inc. DATE: 8/26/68

DEF (fe	PTH et)	TYPE OF ROCK OR SOIL PENETRATED	REMARKS		
ROM	ТО	(gravel, clay, etc., hardness, color, etc.)	(water, caving, shot, screen, sample, etc.		
0	1	Tongoil	TO DETTENT		
1	9	Topsoil Clay	and the state of t		
9	42	Solid gray limestone			
42	45	Weathered rock	Water		
45	50	Solid gray limestone	7		
50	51	Sandstone	111		
51 56	56 57	Solid gray limestone			
57	67	Sandstone Greenstone and sandstone mixed	57.59		
67	75	Red sandstone	Water		
75	101	Sandstone and greenstone			
101	104	Rotten mica-schist			
104	204	Schist			
204	210	Schist and greenstone			
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### INTERVAL SHEET

Page 1 of 1 WWCR: 609
VDMR Well No: 2307

Date rec'd: 11/6/68 Sample Interval: from 0 to: 205'

PROP: U. S. Geological Survey Test Well #1 Number of samples: 23

COMP: Sydnor Hydrodynamics, Inc. Total Depth: 210

COUNTY: Loudoun (Aldie) Oil or Gas: Water: XExploratory:

From-To	From-To	From-To	From-To
0 - 9	-	-	•
9 - 20	-	-	-
20 - 30	-	-	
30 - 40	-	-	. <del>  </del>  -
42 - 45	140	-	-
45 50			_
45 - 50	-	~	-
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56 - 57	-	-	-
57 - 67	-	-	-
67 - 75	-	-	-
75 - 85	-	-	_
85 - 95	-	-	-
95 - 101	-	-	-
101 - 105	=	-	-
105 - 115	-	-	-
-	-	-	-
120 - 125	~	.=	<del></del>
125 - 130	-	-	*-
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135 - 145	-	-	-
145 - 155			
155 - 165	-	-	=
165 - 175	-	-	-
175 - 185	-	) <del>-</del>	-
185 - 195	~	-	=
195 - 205	~		=
-	-	-	-
**	-	-	-
90	-	-	72
-	-	-	-
~	-	-	-

OWNER: U. S. Geological Survey, Test Well #1

DRILLER: Sydnor Hydrodynamics, Inc.

VDMR: 2307 WWCR: 609

COUNTY: Loudoun (Aldie)

TOTAL DEPTH: 2101

### GEOLOGIC LOG

De	pth
in	feet

# SAPROLITE (0-9')

0-9 Saprolite — medium tan, weathered and iron-oxide stained; vein quartz, feldspar, clay, mica, pyroxene, and magnetite

## NEWARK GROUP [9-95' (?)]

9-20	Metamorphosed basalt - medium gray, aphanitic, non-
	foliated; (X-ray analysis: plagioclase feldspar
	and chlorite, with minor amount of calcite; trace
	of pyrite)

0.0	-30		1
	- ) ( /		

<sup>30-40</sup> 

### 40-42 No sample

42-45	Metamorphosed basalt - dark brown, weathered and
	iron-oxide stained, aphanitic, non-foliated;
	plagioclase feldspar and chlorite, with trace
	of calcite

45-50	11	approximately	60%	of	sample	is	weathered
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50-56	No	sample
30-30	110	Sampic

56-57	Metamorphosed basalt - medium gray, aphanitic, no	n-
	foliated; plagioclase feldspar and chlorite, with	th
	minor amount of calcite	

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57-	· b /	1.1

67-75	11	with fragments of dark brown, weathered,
		and iron-oxide stained basalt

75-85	11	with fragments of coarse-grained,	crystalline
		hasalt	

OWNER: U. S. Geological Survey, Test Well #1 VDMR: 2307 85-95 Metamorphosed diabase (?) - medium gray, fine grained, non-foliated; feldspar, pyroxene or amphibole, chlorite, and calcite FAULT ZONE: NEWARK GROUP OR EVINGTON GROUP [95 (?)-115] 95-101 Siliceous dolomite and dolomitic ankerite - gray and tan, many weathered and iron-oxide stained fragments, crystalline; minor amount of brecciation; ankerite, dolomite, and quartz, with minor amount of secondary calcite (veins and crusts); a few calcite-cemented, fine-grained sandstone fragments 101-105 Siliceous, dolomitic ankerite - gray, crystalline; minor amount of brecciation; (X-ray analysis: dolomitic ankerite and quartz, with trace of muscovite; minor amount of vein dolomite or calcite) 105-115 115-120 No sample EVINGTON GROUP (120-205') 120-125 Quartz-muscovite schist - light gray, phaneritic, wellfoliated and micaceous, sheared; (X-ray analysis: muscovite and quartz) 125-130 130-135 No sample 135-145 Quartz-muscovite schist - light gray, phaneritic, wellfoliated and micaceous, sheared; muscovite, quartz 145-155 11 155-165 165-175

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175-185

OWNER: U. S. Geological Survey, Test Well #1 VDMR: 2307 185-195 Quartz-muscovite schist - light gray, phaneritic, well-foliated and micaceous, sheared; muscovite, quartz 11

195-205

No sample 205-210

### GEOLOGIC SUMMARY

	Rock Unit		Age
0-91	Saprolite		-
9-951 (?)	Newark Group	Early	Triassic
95 (?)-1151	Newark or Evington Group (?)	Triass	sic or Cambrian (?)
115-1201	No sample		- Congres
120-2051	Evington Group	Early	Cambrian
205-2101	No sample		-

Virginia Division of Mineral Resources Robert G. Willson, Geologist November 13, 1968