COMMONWEALTH OF VIRGINIA

VDMR: 2310 WWCR: 612

DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

MAILING ADDRESS:

DIVISION OF MINERAL RESOURCES

JAMES L. CALVER, COMMISSIONER

OFFICE ADDRESS: McCormick Road

B- 3667

Contesville, VA 22903 WATER WELL COMPLETION REPORT Charlottesville, Virginia

WATER WELL OF	Department of Interior
OWNER: U. S. Geological Survey	
TENANT: Test Well #4	Mailing Address:
DRILLER: Sydnor Hydrodynamics, Inc.	P. O. Box 1476, 1305 Brook Rd.
WELL LOCATION: County Loudoun	
Leesburg City Limits 2400	feet west (direction) of U.S. Hwy. 15
(GIVE DIRECTION AND DISTANCE IN FEET OR MILES FROM TY COUNTY HIGHWAY OR OTHER MAP.)	
DATE STARTED: 7/17/68	DATE COMPLETED: 8/5/68
TYPE OF DRILL RIG USED: air rotary	
WATER LEVEL: Stands 28 feet below	surface <u>OR</u>
has <u>NATURAL</u> flow of	gallons per minute.
YIELD TEST: Method See remarks below	HOLE SIZE: 11 inches from 0 to 49 feet
Drawdown feet	6 1/2 inches from 49 to 350 feet
Rategal. per min.	inches fromtofeet
Durationhrs.,min.	SCREEN SIZE:inches fromtofeet
WATER ZONES: from 61 to 64 feet	inches fromtofeet
from <u>124</u> to <u>126</u> feet	inches fromtofeet
from 311 to 312 feet	CASE SIZE: 7 inches from +2 3/4 to 49 feet
WATER: ColorTaste	inches fromtofeet
Odor	tofeet
WELL TO SUPPLY: (check one) Home	GROUTING: Method
Farm Town School	Material Depth feet
IndustryOthertest_well	PUMP: Type See remarks below
WATER ANALYSIS AVAILABLE:YesNo_x	Capacitygal. per min
DRILL CUTTINGS SAVED: Yes X No (DRILL CUTTINGS SHOULD BE COLLECTED AT 10 FOOT II) OFFICE EXPRESS COLLECT. SAMPLE BAGS ARE FURNISHE	
R ARKS: Depth 120' - Test 2 hrs.@ 118	GPM w/3 2/3 D¹ (Submersible pump)
Depth 195' - Test 7 hrs. 20 m	in. @250 GPM w/9' D' (Turbine pump)
Depth 120' - Test 8 hrs. 5 min	.@ 250 GPM w/151 D1 (Turbine pump)

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

DEP (fee	TH †)	TYPE OF ROCK OR SOIL PENETRATED	REMARKS	
FROM	ТО	I (gravel, clay, etc., hardness, color, etc.)	(water, caving, shot, screen, sample, etc	
			1 1 1 2 67	
0	1	Topsoil		
$\begin{bmatrix} 1 \\ 47 \end{bmatrix}$	47 61	Clay		
61	62	Sandstone, quartz, greenstone and limesto Broken rock		
62	64	Open Open	Water	
64	120	Sandstone, limestone, greenstone and quartz, mixed	Water	
120	124	Sandstone and greenstone		
	126	Soft quartz and sandstone		
	311	Greenstone, sandstone and some quartz		
	312	Broken formation	Water	
	350	Quartz, shale, greenstone and sandstone	Water	
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INTERVAL SHEET

WWCR: 612
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VDMR Well No: 2310

Date rec'd: 11/8/68 Sample Interval: from 0 to: 350'

PROP: U.S. Geological Survey Number of samples: 35

(Test Well #4)
COMP: Sydnor Hydrodynamics, Inc. Total Depth: 350'

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

From-	То	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	-	-
50 -	60		-	-
60 -	70	-	-	-
70 ~	80	-	-	_
80 -	90	-	-	-
90	100	-	-	-
100 -	110	-	-	-
110 -	120		-	_
120 -	130	-	-	_
130 -	140	i and i	,-	_
140 -	150	-	-	-
150 -	160	_	-	
160 -	170	-	_	_
170 -	180	-	es.	_
180 ~	190	-	_	_
190 -	200	=	=	-
200 -	210	n	_	_
210 -	220	_	_	_
220 -	230	_		
230 _	240			_
240 _	250	-	-	-
250 _	260		_	
260 _	270	-	_	_
270 =	280	-	-	-
280	290	=	-	-
290 _	300	~	-	-
2/0 -	500	~	-	-

All intervals have both washed and unwashed samples.

OWNER: U. S. Geological Survey, Test Well #4

DRILLER: Sydnor Hydrodynamics, Inc.

VDMR: 2310 WWCR: 612

COUNTY: Loudoun (Leesburg)

TOTAL DEPTH: 350'

GEOLOGIC LOG

De	pth
in	feet

SAPROLITE (0-40')

0-10	Saprolite dark red-brown; weathered and iron-oxide stained quartz sand, clay and vein quartz
10-20	U
20-30	" medium brown
30-40	with a few fragments of weathered siltstone

NEWARK GROUP (40-3501)

40-50	Conglomerate - light to medium brown, iron-oxide
	stained, calcareous sandy siltstone matrix
	with fragments of quartzite, limestone,
	metamorphosed basalt, gneiss or granite
	gneiss, and vein quartz; minor amounts of clay
	and calcite cement

of
of

OWNER:	U. S. Geological Survey, Test Well #4 VDMR: 2310)
150-160	Conglomerate — light to medium brown, iron-oxide stained, calcareous sandy siltstone matrix with fragments of quartzite, limestone, metamorphosed basalt, gneiss or granite gneiss, and vein quartz; minor amounts of clay and calcite cement	
160-170	11	
170-180	11	
180-190	m.	
190-200	TT .	
200-210	m.	
210-220	11	
220-230	11	
230-240	11	
240-250	ш	
250-260	. 11	
260-270	m .	
270-280	m,	
280-290	11	
290-300	11	
300-310	11	
310-320	with several fragments of weathered conglomerate	
320-330	п	
330-340	11	

very little calcareous material

340-350

OWNER: U. S. Geological Survey, Test Well #4

VDMR: 2310

GEOLOGIC SUMMARY

Rock Unit

O-40' Saprolite

40-350' Newark Group

Early Triassic

Virginia Division of Mineral Resources Robert G. Willson, Geologist November 18, 1968