VDMR: 2313 WWCR: 313

COMMONWEALTH OF VIRGINIA

DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

MAILING ADDRESS:

DIVISION OF MINERAL RESOURCES

JAMES L. CALVER, COMMISSIONER

B 3667 Completion Report

McCormick Road Charlottesville, Virginia

OFFICE ADDRESS:

OWNER:U. S. Geological Survey	Department of Interior Mailing Address Washington, D. C.
TENANT:Test Well #8	
DRILLER: Sydnor Hydrodynamics, Inc.	
WELL LOCATION: County Prince William	Approx. 1 keek west (direction) of
U. S. Hwy. 15 and 2 1/2	miles north (direction) of St. Rt. 55
(GIVE DIRECTION AND DISTANCE IN FEET OR MILES FROM TWO COUNTY HIGHWAY OR OTHER MAP.)	VO REFERENCE POINTS - ROADS, TOWNS, RIVERS, ETC ON
DATE STARTED: 8/13/68	DATE COMPLETED: 8/23/68
TYPE OF DRILL RIG USED: air rotary	TOTAL DEPTH 250 feet
WATER LEVEL: Standsfeet below	surface <u>OR</u>
has <u>NATURAL</u> flow of	gallons per minute.
YIELD TEST: Method air lift	HOLE SIZE: 12 inches from 0 to 22 feet
Drawdown feet	
Rate 8 gal. per min.	6 1/2 inches from 89 to 250 feet
Duration 0 hrs., 30 min.	SCREEN SIZE:inches fromtofeet
WATER ZONES: from175to175 1/2feet	inches fromtofeet
fromtofeet	inches fromtofeet
fromtofeet	CASE SIZE: *10 inches from 0 to 22 feet
WATER: ColorTaste	
Odor	tofeet
WELL TO SUPPLY: (check one) Home	GROUTING: Method
Farm Town School	Material Depth feet
IndustryOther_test well	PUMP: Type
WATER ANALYSIS AVAILABLE:YesNo_X_	Capacitygal. per min
ORILL CUTTINGS SAVED: Yes X No ORILL CUTTINGS SHOULD BE COLLECTED AT 10 FOOT IN OFFICE EXPRESS COLLECT. SAMPLE BAGS ARE FURNISHE	
R ARKS: * All casing pulled out after air test	: well abandoned and hole back-filled.

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

DEPTH (feet)		TYPE OF ROCK OR SOIL PENETRATED	REMARKS		
ROM	то	(gravel, clay, etc., hardness, color, etc.)	(water, caving, shot, screen, sample, etc.		
0 1 46 48 87	1 46 48 87 89 90	Topsoil Sandy soil and boulders Quartz and greenstone Quartz and greenstone boulders Greenstone and quartz Greenstone			
89 90 95	95 250	Greenstone Sandstone Greenstone and quartz, mixed			
75	<i>L</i> 30	Greenstone and quartz, minou	1 (0.17) 1		
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INTERVAL SHEET

WWCR: 313
Page 1 of 1 VDMR Well No: 2313

Date rec'd: 11/8/68 Sample Interval: from 0 to: 250'

Number of samples: 23

PROP: U. S. Geological Survey

(Test Well #8)

COMP: Sydnor Hydrodynamics, Inc. Total Depth: 250'

COUNTY: Prince William (Antioch) Oil or Gas: Water X Exploratory:

From-To	From-To	From-To	From-To
0 - 10	-	-	-
10 ~ 20	-	: -	-
20 - 30	; -		.=
FD:	*	-	
40 - 50	can.	1-1	(=)
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60 - 70	-	-	7=1
70 - 80	•	1-	-
80 - 90	: 	·	-
90 - 100	3 	51 55 3	=
100 - 110		-	-
110 - 120	· • ·	-	-
120 - 130	()	¥	
130 - 140	-	=	-
140 - 150	and a	-	-
150 - 160		en en	5 E
160 - 170	-		=
170 - 180	- 2		-
180 - 190	-	-	-
190 - 200		-	¥
200 - 210	=	=	=
210 - 220	-	_	_
220 - 230	-	-	=
230 - 240	-	~	
240 - 250		=	-
· ·	~	-	-
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on .	-		5
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- Constitution of the Cons	-		(,= ,/
All intervals hav	e both washed and unw	ashed samples.	

OWNER: U. S. Geological Survey, Test Well #8

DRILLER: Sydnor Hydrodynamics, Inc.

COUNTY: Prince William (Antioch)

VDMR: 2313 WWCR: 313

TOTAL DEPTH: 250'

GEOLOGIC LOG

Depth in feet

COLLUVIUM ? (0-90')

0-10	Gravelly sand - tan, partially weathered, moderately sorted,		
	angular to subrounded, fine-grained sand; quartz,		
	with traces of detrital material and clay		

- Gravelly sand tan, partially weathered, poorly sorted, angular to subrounded, fine-grained sand; quartz, feldspar, mica, and lithic fragments (quartzite, schist and sandstone)
- 20-30 Gravel greenish-gray; angular to subangular rock fragments that include epidosite, unikite, quartzite, basalt or diabase, greenstone and vein quartz
- 30-40 No sample
- 40-50 Gravel greenish-gray; angular to subangular rock fragments that include epidosite, unikite, quartzite, greenstone, basalt or diabase, and vein quartz
- 50-60 No sample
- 60-70 Gravelly sand brown, partially weathered; fine to medium grained, poorly sorted, angular to subrounded sand; quartz and feldspar, with rock fragments that include epidosite, quartzite, greenstone and vein quartz
- 70-80
- 80-90 " well sorted; no gravel or fine sand

CATOCTIN FORMATION (90-250')

90-100 Metamorphosed basalt - gray; aphanitic, non-foliated, a few slickensides; very low grade metamorphism; plagio-clase feldspar, biotite, chlorite, quartz, epidote, amphiboles (?), and trace of calcite; fragments of epidosite and metamorphosed quartzite, sandstones and tuffs

OWNER:	U. S. Geold	gical Survey,	Test Well #8		VDMR: 2313
100-110	Metam	slickensides; clase feldspa amphiboles (olt — gray; aphani very low grade n r, biotite, chloris ?), and trace of c metamorphosed	netamorphi te, quartz, alcite; fra	sm; plagio- epidote, gments of
110-120		п			
120-130		п			
130-140		m -			
140-150		u			
150-160		tt.			
160-170		III			
170-180		III.			
180-190		tt			
190-200		ш			
200-210		11			
210-220		H.			
220-230		11			
230-240		tt			
240-250		n.			

GEOLOGIC SUMMARY

	Rock Unit	Age
0-90'	Colluvium ?	
90-250'	Catoctin Formation	Early Cambrian
	NOTE: original size of sedimer	ntary material in the first
	50 feet destroyed by dr	ill bit

Virginia Division of Mineral Resources Robert G. Willson, Geologist November 19, 1968