VDMR: 2309
WWCR: 611

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

MAILING ADDRESS:
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DIVISION OF MINERAL RESOURCES

JAMES L. CALVER, COMMISSIONER

WATER WELL COMPLETION REPORT

OFFICE ADDRESS:
McCormick Road
Charlottesville, Virginia

OWNER: U. S. Geological Survey Mailing Address: Department of Interior Washington, D. C.

TENANT: Test Well #3 Mailing Address:

DRILLER: Sydnor Hydrodynamics, Inc. Mailing Address: P.O. Box 1476, 1305 Brook Rd., Richmond, Virginia

WELL LOCATION: County Loudoun Approx. ____ feet miles south (direction) of Leesburg City Limits and 2500 ~~miles~~ feet west (direction) of U.S. Hwy. 15

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

DATE STARTED: 7/16/68 DATE COMPLETED: 7/17/68

TYPE OF DRILL RIG USED: air rotary TOTAL DEPTH 285 feet

WATER LEVEL: Stands ____ feet below surface OR

has NATURAL flow of ____ gallons per minute.

YIELD TEST: Method air lift

Drawdown ____ feet

Rate 2 gal. per min.

Duration 0 hrs., 30 min.

WATER ZONES: from 50 to 50 1/2 feet

from ____ to ____ feet

from ____ to ____ feet

WATER: Color ____ Taste ____

Odor ____ Temp. ____ °F

WELL TO SUPPLY: (check one) Home ____

Farm ____ Town ____ School ____

Industry ____ Other test well

WATER ANALYSIS AVAILABLE: Yes ____ No X

DRILL CUTTINGS SAVED: Yes X No ____

HOLE SIZE: 7 7/8 inches from 0 to 17 feet

6 1/2 inches from 17 to 285 feet

____ inches from ____ to ____ feet

SCREEN SIZE: ____ inches from ____ to ____ feet

____ inches from ____ to ____ feet

____ inches from ____ to ____ feet

CASE SIZE: *7 inches from 0 to 17 feet

____ inches from ____ to ____ feet

____ inches from ____ to ____ feet

GROUTING: Method none

Material ____ Depth ____ feet

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: * Casing pulled out after air test: well abandoned and hole back-filled.

(LOG OF WELL) OVER

LOG

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

DEPTH (feet) FROM	DEPTH (feet) TO	TYPE OF ROCK OR SOIL PENETRATED (gravel, clay, etc., hardness, color, etc.)	REMARKS (water, caving, shot, screen, sample, etc.)
0	1	Topsoil	
1	7	Clay	
7	14	Clay and boulders	
14	50	Greenstone, sandstone, limestone, and quartz	
50	50 1/2	Water zone	
50 1/2	95	Greenstone, limestone, and sandstone	
95	98	Greenstone	
98	255	Sandstone, quartz, greenstone and limestone	
255	285	Schist, greenstone and mica	

(Use additional forms if necessary)

INTERVAL SHEET

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WWCR: 611
VDMR Well No: 2309

Date rec'd: 11/6/68

Sample Interval: from 0 to: 265'

PROP: U.S. Geological Survey (Test Well #3)

Number of samples: 27

COMP: Sydnor Hydrodynamics, Inc.

Total Depth: 285'

COUNTY: Loudoun (Leesburg)

Oil or Gas: Water:XExploratory:

From-To	From-To	From-To	From-To
0 - 10	-	-	-
10 - 20	-	-	-
20 - 30	-	-	-
30 - 40	-	-	-
40 - 50	-	-	-
50 - 60	-	-	-
60 - 70	-	-	-
70 - 80	-	-	-
80 - 90	-	-	-
-95	-	-	-
95 - 105	-	-	-
105 - 115	-	-	-
115 - 125	-	-	-
125 - 135	-	-	-
135 - 145	-	-	-
145 - 155	-	-	-
155 - 165	-	-	-
165 - 175	-	-	-
175 - 185	-	-	-
185 - 195	-	-	-
195 - 205	-	-	-
205 - 215	-	-	-
215 - 225	-	-	-
225 - 235	-	-	-
235 - 245	-	-	-
245 - 255	-	-	-
255 - 265	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

All intervals have both washed and unwashed samples.

OWNER: U. S. Geological Survey, Test Well #3 VDMR: 2309
DRILLER: Sydnor Hydrodynamics, Inc. WWCR: 611
COUNTY: Loudoun (Leesburg) TOTAL DEPTH: 285'

GEOLOGIC LOG

Depth in feet	
ALLUVIUM (0-10')	
0-10	Clay, silt, sand and gravel — brown, poorly sorted, angular to rounded; fragments of weathered and unweathered, iron oxide-stained metamorphosed basalt, schist, quartzite, vein quartz, and clay
NEWARK GROUP (10-255')	
10-20	Argillaceous limestone — purple to red-gray, very fine grained to cryptocrystalline; 50 to 90 percent calcite (with possible minor amounts of dolomite), 10 to 50 percent silicates (primarily quartz); minor amount of vein calcite, traces of vein quartz, samples may be fragments of a limestone conglomerate
20-30	"
30-40	"
40-50	"
50-60	"
60-70	"
70-80	"
80-90	"
95	Calcareous siltstone — dark gray, light gray, and light green, microcrystalline to cryptocrystalline matrix; some larger fragments appear to be conglomeratic; quartz, feldspar (?), calcite and vein calcite; samples may be fragments of a conglomerate

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95-105	Calcareous siltstone — red-purple; slightly conglomeratic in appearance; 90 to 95 percent silicates, 5 to 10 percent calcite
105-115	Calcareous siltstone and argillaceous limestone — red-purple; silt and clay-size material with micro-crystalline and cryptocrystalline calcite matrix; quartz, calcite and feldspar; samples may be fragments of a conglomerate
115-125	"
125-135	"
135-145	"
145-155	"
155-165	"
165-175	"
175-185	"
185-195	"
195-205	"
205-215	"
215-225	"
225-235	"
235-245	"
245-255	" medium-gray

CATOCTIN FORMATION (255-265')

255-265	Chlorite schist — dark greenish-gray, well foliated, some surfaces have slickensides; feldspar, chlorite, amphiboles, biotite (?) and quartz (?)
265-285	No samples

OWNER: U. S. Geological Survey, Test Well #3 VDMR: 2309

GEOLOGIC SUMMARY

	Rock Unit	Age
0-10'	Alluvium	Recent (?)
10-255'	Newark Group	Early Triassic
255-265	Catoctin Formation	Early Cambrian (?)
265-285'	No samples	

Virginia Division of Mineral Resources
Robert G. Willson, Geologist
November 15, 1968