

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

MAILING ADDRESS:
B-3667
Charlottesville, VA 22903

DIVISION OF MINERAL RESOURCES
JAMES L. CALVER, COMMISSIONER
WATER WELL COMPLETION REPORT

OFFICE ADDRESS:
McCormick Road
Charlottesville, Virginia

Department of Interior

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

TENANT: Test Well #6 Mailing Address: _____

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

WELL LOCATION: County Prince William Approx. 3/4 ~~xxxx~~ miles west (direction) of
U. S. Hwy. 15 and 3 ~~xxxx~~ miles south (direction) of U.S. Hwy. 50

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

DATE STARTED: 8/8/68 DATE COMPLETED: 8/8/68

TYPE OF DRILL RIG USED: air rotary TOTAL DEPTH 165 feet

WATER LEVEL: Stands 40 feet below surface OR

has NATURAL flow of _____ gallons per minute.

YIELD TEST: Method air lift

Drawdown _____ feet

Rate 13 gal. per min.

Duration _____ hrs., _____ min.

WATER ZONES: from 50 to 51 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 _____

(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 SIZE: 8 3/4 inches from 0 to 10 feet

6 1/2 inches from 10 to 165 feet

_____ inches from _____ to _____ feet

SCREEN SIZE: _____ inches from _____ to _____ feet

_____ inches from _____ to _____ feet

_____ inches from _____ to _____ feet

CASE SIZE: 7 inches from +2 to 10 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

LOG

FURNISHED BY: Sydnor Hydrodynamics, Inc.

DATE: 8/26/68

DEPTH (feet)		TYPE OF ROCK OR SOIL PENETRATED (gravel, clay, etc., hardness, color, etc.)	REMARKS (water, caving, shot, screen, sample, etc.)
FROM	TO		
0	1	Topsoil	
1	7	Sandy soil	
7	50	Red shale	
50	51	Water zone	
51	70	Red and blue shale	
70	85	Sandstone	
85	100	Red shale	
100	125	Red sandstone	
125	130	Red shale	
130	140	Gray sandstone	
140	165	Red and gray sandy shale	

OWNER: U. S. Geological Survey, Test Well #6
DRILLER: Sydnor Hydrodynamics, Inc.
COUNTY: Prince William (Woolsey)

VDMR: 2312
WWCR: 312
TOTAL DEPTH: 165'

GEOLOGIC LOG

Depth
in feet

0-10	Siltstone — purplish-brown; minor amounts of fine sand and clay; slightly fissile; quartz, mica and feldspar, with trace of calcite
10-20	"
20-30	"
30-40	"
40-50	" sheared; about 30 percent of sample is gray, very fine-grained siltstone; slickensides on several surfaces
50-60	" "
60-70	" " gray; slightly sheared; slickensides on a few surfaces
70-80	Sandstone — violet; very silty; fine-grained sand, and trace of clay; micaceous; angular grains of quartz, feldspar, and mica; trace of calcite
80-90	Shale — dark purplish-brown; sheared, fissile, slightly foliated; quartz, feldspar and mica; trace of calcite
90-100	Sandstone — purplish-brown; very silty; fine-grained sand; minor amount of clay; sheared; micaceous; angular to subangular grains include quartz, feldspar and mica; trace of calcite
100-110	" 30 percent of sample is gray, foliated, sheared, fine-grained sandstone; quartz, feldspar and mica, with trace of calcite
110-120	Shale — purplish-brown; fine grained, micaceous; sheared, with slickensides on some surfaces; quartz, feldspar and mica, with trace of calcite

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120-130	Sandstone — purplish-brown; very silty, fine-grained, angular to subangular sand, with minor amount of clay-size grains; quartz, feldspar, and mica, with trace of calcite
130-140	Shale — purplish-brown; fine grained, micaceous, sheared, with slickensides on some surfaces; quartz, feldspar and mica, with trace of calcite
140-150	Sandstone and shale — purplish-brown, very fine, angular to subangular sand grains; sheared, slightly fissile; quartz, feldspar and mica, with trace of calcite
150-160	"
160-165	No sample

GEOLOGIC SUMMARY

	<u>Rock Unit</u>	<u>Age</u>
0-160	Newark Group	Early Triassic
160-165	No sample	—

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