

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

VDMR: 2316
WWCR: 314

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

OWNER: Town of Manassas, Well #11 Mailing Address: Manassas, Virginia

TENANT: _____ Mailing Address: _____

DRILLER: Sydnor Hydrodynamics, Inc. Mailing Address: 1305 Brook Rd., Richmond, Va.

WELL LOCATION: County Prince William Approx. 2 ~~xxxxx~~ miles west (direction) of
State Route 28 and 100 ~~xxxxx~~ ^{feet} south (direction) of Park Avenue

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

DATE STARTED: September 12, 1968 DATE COMPLETED: October 7, 1968

TYPE OF DRILL RIG USED: rotary TOTAL DEPTH 800 feet

WATER LEVEL: Stands 133 feet below surface OR
has NATURAL flow of _____ gallons per minute.

YIELD TEST: Method pump
* Drawdown 232 feet
* Rate 305 gal. per min.
Duration 30 hrs., 0 min.

HOLE SIZE: 12 1/4 inches from 0 to 50 feet
8 inches from 50 to 400 feet
6 1/2 inches from 400 to 800 feet

SCREEN SIZE: _____ inches from _____ to _____ feet
_____ inches from _____ to _____ feet
_____ inches from _____ to _____ feet

WATER ZONES: from 225 to 415 feet
275
from 280 to 498 feet
329
from 348 to _____ feet

CASE SIZE: 8 inches from +2 to 51 feet
_____ inches from _____ to _____ feet
_____ inches from _____ to _____ feet

WATER: Color Cloudy Taste OK
Odor none Temp. _____ °F

GROUTING: Method pressure
cement -
Material water Depth 50 feet

WELL TO SUPPLY: (check one) Home _____
Farm _____ Town X School _____
Industry _____ Other _____

PUMP: Type turbine
Capacity _____ gal per min
Depth of intake _____ feet

WATER ANALYSIS AVAILABLE: Yes X No _____
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: * 142' drawdown at 205 gallons per minute

LOG

FURNISHED BY: Sydnor Hydrodynamics, Inc.

DATE: October 10, 1968

DEPTH (feet)		TYPE OF ROCK OR SOIL PENETRATED (gravel, clay, etc., hardness, color, etc.)	REMARKS (water, caving, shot, screen, sample, etc.)
FROM	TO		
0	4	Red clay	
4	225	Red shale	
225	225 1/2	Water zone	
225 1/2	275	Red shale	
275	275 1/2	Water zone	
275 1/2	280	Red shale	
280	282	Water zone	
282	329	Red shale	
329	329 1/2	Water zone	
329 1/2	348	Red shale	
348	349	Water zone	
349	415	Red shale	
415	415 1/2	Water zone	
415 1/2	498	Red shale	
498	499	Water zone	
499	649	Red shale	
649	659	Sandstone	
659	684	Red shale	
684	697	Sandstone	
697	794	Red shale	
794	800	Sandstone	

(Use additional forms if necessary)

INTERVAL SHEET

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WWCR: 314
VDMR Well No: 2316

Date rec'd: 11/18/68

Sample Interval: from 0 to: 800'

PROP: Town of Manassas, Well #11

Number of samples: 54

COMP: Sydnor Hydrodynamics, Inc.

Total Depth: 800'

COUNTY: Pr. William (Manassas)

Oil or Gas: Water: Exploratory:

From-To	From-To	From-To	From-To
0 - 15	450 - 465	-	-
15 - 30	465 - 480	-	-
30 - 45	480 - 495	-	-
45 - 60	495 - 510	-	-
60 - 75	510 - 525	-	-
75 - 90	525 - 540	-	-
90 - 105	540 - 555	-	-
105 - 120	555 - 570	-	-
120 - 135	570 - 585	-	-
135 - 150	585 - 600	-	-
150 - 165	600 - 615	-	-
165 - 180	615 - 622	-	-
180 - 195	622 - 637	-	-
195 - 210	637 - 652	-	-
210 - 225	652 - 667	-	-
225 - 240	667 - 682	-	-
240 - 255	682 - 697	-	-
255 - 270	697 - 712	-	-
270 - 285	712 - 722	-	-
285 - 300	722 - 737	-	-
300 - 315	737 - 752	-	-
315 - 330	752 - 767	-	-
330 - 345	767 - 782	-	-
345 - 360	782 - 800	-	-
360 - 375	-	-	-
375 - 390	-	-	-
390 - 405	-	-	-
405 - 420	-	-	-
420 - 435	-	-	-
435 - 450	-	-	-

All intervals have both washed and unwashed samples.

OWNER: Town of Manassas, Well #11
DRILLER: Sydnor Hydrodynamics, Inc.
COUNTY: Prince William (Manassas)

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TOTAL DEPTH: 800'

GEOLOGIC LOG

Depth
in feet

0-15	Siltstone — red-brown, minor amounts of clay and sand, poorly fissile, feldspathic (composition by X-ray defraction and binocular examination — quartz and plagioclase feldspar, with minor amounts of illite, calcite, sericite and hematite (?); traces of kaolinite and microcline)
15-30	"
30-45	"
45-60	" more fissile
60-75	"
75-90	"
90-105	"
105-120	"
120-135	"
135-150	"
150-165	"
165-180	"
180-195	"
195-210	"
210-225	"
225-240	"
240-255	"

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255-270	Siltstone — red-brown, minor amounts of clay and sand, poorly fissile, feldspathic (composition by X-ray defraction and binocular examination — quartz and plagioclase feldspar, with minor amounts of illite, calcite, sericite and hematite (?); traces kaolinite and microcline)
270-285	"
285-300	"
300-315	"
315-330	"
330-345	"
345-360	"
360-375	"
375-390	" sandy
390-405	" "
405-420	"
420-435	"
435-450	"
450-465	"
465-480	Siltstone — red-brown, minor amounts of clay and sand, poorly fissile, feldspathic, micaceous (composition by X-ray defraction and binocular examination — quartz and plagioclase feldspar, with minor amounts of illite, calcite, sericite and hematite (?); traces of kaolinite and microcline)
480-495	"
495-510	"

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510-525	Siltstone — red-brown, minor amounts of clay and sand, poorly fissile, feldspathic, micaceous (composition by X-ray defraction and binocular examination — quartz and plagioclase feldspar, with minor amounts of illite, calcite, sericite and hematite (?); traces of kaolinite and microcline)
525-540	"
540-555	"
555-570	"
570-585	"
585-600	"
600-615	"
615-622	"
622-637	"
637-652	Silty sandstone — red-brown; poorly cemented; fine grained, feldspathic, angular to subangular grains, poorly sorted; quartz, feldspar, sericite, hematite and clay, with traces of chlorite and calcite
652-667	" with about 10 percent siltstone fragments
667-682	Siltstone — red-brown; sandy, with minor amounts of clay, poorly fissile, feldspathic, micaceous; quartz, feldspar, clay, calcite, mica and hematite
682-697	"
697-712	" with 30 percent silty sandstone fragments
712-722	" with 10 percent silty sandstone fragments
722-737	"

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737-752	Siltstone and silty sandstone (about equal proportions) — red-brown; fine grained, micaceous; feldspathic; quartz, feldspar, clay, mica, hematite, and calcite
752-767	"
767-782	"
782-800	"

GEOLOGIC SUMMARY

	<u>Rock Unit</u>	<u>Age</u>
0-800'	Newark Group (Bull Run Shale)	Early Triassic

Virginia Division of Mineral Resources
Robert G. Willson, Geologist
November 21, 1968