

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

P. O. Box 448

OWNER: Augusta Co. Service Authority Mailing Address: Staunton, Virginia 24401

TENANT: Stuarts Draft, Well #1 Mailing Address: _____

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

WELL LOCATION: County Augusta Approx. 1 1/2 ^{feet} miles east (direction) of _____
U. S. Hwy. 340 and 1/2 ^{feet} miles south (direction) of St. Road 608

(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 25, 1968 DATE COMPLETED: October 31, 1968

TYPE OF DRILL RIG USED: rotary TOTAL DEPTH 363 feet

WATER LEVEL: Stands 93 feet below surface OR
has NATURAL flow of _____ gallons per minute.

YIELD TEST: Method pump
Drawdown 4 1/2 feet
Rate 457 gal. per min.
Duration 48 hrs., 0 min.

HOLE SIZE: 17 inches from 0 to 204 feet
12 inches from 204 to 292 feet
10 inches from 292 to 363 feet

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

WATER ZONES: from 330 to 350 feet
from 351 to 361 feet
from _____ to _____ feet

CASE SIZE: 12 inches from 0 to 204 feet
10 inches from +1 to 292 feet
_____ inches from _____ to _____ feet

WATER: Color clear Taste ok
Odor none Temp. _____ °F

GROUTING: Method pressure
Material cement-water Depth 204 feet

WELL TO SUPPLY: (check one) Home _____
Farm _____ Town _____ School _____
Industry _____ Other Co. Ser. Auth.

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

WATER ANALYSIS AVAILABLE: Yes No _____
DRILL CUTTINGS SAVED: Yes 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: _____

LOG

FURNISHED BY: Sydnor Hydrodynamics, Inc.

DATE: October 31, 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	1	Topsoil - gravel	
1	115	Yellow sandy clay	
115	210	Yellow sandy clay - gravel	
210	270	Yellow clay - weathered shale streaks	
270	276	Yellow shale - hard	
276	284	Yellow shale - soft	
284	292	Hard gray shale	
292	295	Gray limestone	
295	311	Pink limestone	
311	330	Gray weathered limestone	
330	350	Cave - water	
350	351	Layer of rock	
351	361	Open cave	
361	363	Solid rock	

(Use additional forms if necessary)

INTERVAL SHEET

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WWCR: 389
VDMR Well No: 2317

Date rec'd: 11/18/68

Sample Interval: from 2 to: 350'

PROP: Augusta Co. Service Auth. (Stuarts Draft #1) Number of samples: 34

COMP: Sydnor Hydrodynamics, Inc.

Total Depth: 363'

COUNTY: Augusta (Stuarts Draft)

Oil or Gas: Water:X Exploratory:

From-To	From-To	From-To	From-To
-	284 - 290	-	-
2 - 10	290 - 300	-	-
10 - 20	295 -	-	-
20 - 30	300 - 310	-	-
30 - 40	310 - 320	-	-
40 - 50	320 - 330	-	-
50 - 60	330 - 350	-	-
60 - 70	-	-	-
70 - 80	-	-	-
80 - 90	-	-	-
-	-	-	-
100 - 110	-	-	-
110 - 120	-	-	-
120 - 130	-	-	-
130 - 140	-	-	-
140 - 150	-	-	-
150 - 160	-	-	-
160 - 170	-	-	-
170 - 180	-	-	-
180 - 190	-	-	-
190 - 200	-	-	-
200 - 210	-	-	-
210 - 220	-	-	-
220 - 230	-	-	-
230 - 240	-	-	-
240 - 250	-	-	-
250 - 260	-	-	-
260 - 270	-	-	-
270 - 280	-	-	-
-	-	-	-

Unwashed samples only

OWNER: Augusta County Service Authority,
Stuarts Draft #1
DRILLER: Sydnor Hydrodynamics, Inc.
COUNTY: Augusta (Stuarts Draft)

VDMR: 2317
WWCR: 389
TOTAL DEPTH: 363'

GEOLOGIC LOG

Depth
in feet

0-2	No sample
COLLUVIUM (2-280')	
2-10	Clay — light-brown; minor amount of manganese oxide
10-20	" with a few fragments of yellowish quartzite
20-30	Clay — light-brown; minor amount of manganese oxide
30-40	" with a few fragments of yellowish quartzite
40-50	" "
50-60	" " and tan, weathered sandstone
60-70	Clay — light-brown; minor amounts of weathered sandstone and dark-gray quartzite; trace of limonite pseudomorphs after pyrite
70-80	"
80-90	"
90-100	No sample
100-110	Clay — light-brown; minor amounts of weathered sandstone and dark-gray quartzite; trace of limonite pseudomorphs after pyrite
110-120	" with trace manganese oxide
120-130	"

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130-140	Clay — light-brown; minor amounts of weathered sandstone and dark-gray quartzite; trace of limonite pseudomorphs after pyrite
140-150	"
150-160	"
160-170	"
170-180	"
180-190	"
190-200	"
200-210	Clay — light-brown, minor amount of weathered yellowish-brown sandstone; trace limonite pseudomorphs after pyrite, and trace manganese oxide
210-220	"
220-230	"
230-240	"
240-250	"
250-260	"
260-270	"
270-280	"
280-284	No sample

ROME FORMATION (280-350')

284-290	Siltstone — medium-gray, greenish-gray, and reddish-brown; calcareous, with some weathered siltstone; trace of calcite
290-300	"
295	"

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300-310 Siltstone — medium-gray, greenish-gray, and reddish-brown; calcareous, with some weathered siltstone; trace of calcite

310-320 "

320-330 "

330-350 Siltstone — weathered to yellowish-brown; dendritic manganese stains

350-363 No sample

GEOLOGIC SUMMARY

	<u>Rock Unit</u>	<u>Age</u>
0-2'	No sample	—
2-280'	Colluvium	Tertiary (?)
280-284'	No sample	—
284-350'	Rome Formation	Early Cambrian
350-363'	No sample	—

Virginia Division of Mineral Resources
W. W. Winters, Geologist
November 22, 1968