

COMMONWEALTH OF VIRGINIA  
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

VDMR: 2314  
WWCR: 20

MAILING ADDRESS:  
Box 3667  
Charlottesville, VA 22903

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

OFFICE ADDRESS:  
McCormick Road  
Charlottesville, Virginia

OWNER: Celanese Fibers Company, Well #11 Mailing Address: Narrows, Virginia

TENANT: Attention: Mr. Lake Watkins Mailing Address: 1305 Brook Road, Post Office Box

DRILLER: Sydnor Hydrodynamics, Incorporated Mailing Address: 1476, Richmond, Virginia 23212

WELL LOCATION: County Giles Approx. 100 <sup>feet</sup>~~yards~~ southwest (direction) of  
St. Route 100 and 125 <sup>feet</sup>~~yards~~ north (direction) of New River

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

DATE STARTED: 3/19/68 DATE COMPLETED: 6/30/68

TYPE OF DRILL RIG USED: cable tool TOTAL DEPTH 353 feet

WATER LEVEL: Stands 56 feet below surface OR  
has NATURAL flow of \_\_\_\_\_ gallons per minute.

YIELD TEST: Method turbine pump  
Drawdown 24 feet  
Rate 1340 gal. per min.  
Duration 23 hrs., \_\_\_\_\_ min.

HOLE SIZE: 24 inches from 0 to 46 feet  
20 inches from 46 to 98 feet  
16 inches from 98 to 286 feet  
14 inches from 286 to 308 feet  
10 inches from 308 to 353 feet

WATER ZONES: from 285 to 351 feet  
from \_\_\_\_\_ to \_\_\_\_\_ feet  
from \_\_\_\_\_ to \_\_\_\_\_ feet

SCREEN SIZE: 10 inches from 193 to 328 feet  
(slotted assembly)  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet

WATER: Color Clear Taste \_\_\_\_\_  
Odor None Temp. \_\_\_\_\_ °F

CASE SIZE: 24 inches from 0 to 18 feet  
20 inches from 0 to 98 feet  
16 inches from 0 to 191 feet  
14 inches from 0 to 285 feet

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

GROUTING: Method poured  
Material cement-water Depth 285 feet

WATER ANALYSIS AVAILABLE: Yes \_\_\_\_\_ No \_\_\_\_\_  
DRILL CUTTINGS SAVED: Yes X No \_\_\_\_\_

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: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

LOG

FURNISHED BY: Sydnor Hydrodynamics, Inc.

DATE: \_\_\_\_\_

DEPTH (feet)		TYPE OF ROCK OR SOIL PENETRATED (gravel, clay, etc., hardness, color, etc.)	REMARKS (water, caving, shot, screen, sample, etc.)
FROM	TO		
0	6	Red clay	
6	18	Shale, broken formation Boulders - river rock	
18	22	Broken shale	24" pipe 18', 8 1/2"
22	25	Shale - limestone	
25	38	Broken shale - round rocks	
38	41	Ledge - boulder	
41	46	Hard brown rock	
46	77	Loose rock - mud	
77	98	Broken rock - river sand	20" pipe, 98'
98	113	Broken rock - sand - mud	
113	133	Broken rock	
133	158	Broken rock - mud	
158	180	Broken rock - mud - streaks of hard & soft	
180	187	Hard material	
187	191	Broken rock - mud	
191	204	Brown rock - harder	16" pipe, 190' 10"
204	209	Brown rock	
209	214	Hard brown rock - falling rock - pieces of clay	
214	219	Brown rock - dolomite	
219	227	Brown rock - broken material feeding in	
227	240	Brown broken rock - hard streaks falling material	
240	241	Brown rock	
241	246	Light brown shale - coarse cuttings	
246	253	Dark brown rock	
253	255	Hard brown rock - no drill cuttings	
255	262	Hard brown rock - some rocks falling in	
262	266	Hard brown rock - no drill cuttings	
266	275	Dark brown rock	
275	286	Brown rock	14" pipe, 285' 4"
286	289	Mixed rock	
289	292	Mixed rock - brown, white, gray dolomite blue - rock sifting in	
292	298	Mixed rock - black, white brown - falling rock	
303	306	Mixed rock	
306	308	Broken formation - hole caving	
308	310	Broken formation	10" pipe, following down
310	320	Broken rock and mud	
320	331	Broken formation - hard streaks, mud	10" pipe, 328' 8"
331	346	Blue, brown, gray rock	Top of 10" pipe with coupling 192' 11"
346	353	Brownish limestone	10" pipe left in hole, slotted 193-328

(Use additional forms if necessary)

INTERVAL SHEET

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WWCR: 20  
VDMR Well No: 2314

Date rec'd: 11/8/68

Sample Interval: from 0 to: 353'

PROP: Celanese Fibers Co. (Well No. 11)

Number of samples: 45

COMP: Sydnor Hydrodynamics, Inc.

Total Depth: 353'

COUNTY: Giles (Pearisburg)

Oil or Gas: Water: Exploratory:

From-To	From-To	From-To	From-To
0 - 6	260 - 266	-	-
6 - 18	266 - 276	-	-
18 - 34	276 - 284	-	-
34 - 40	286	-	-
40 - 46	289	-	-
46 - 56	291	-	-
56 - 59	292	-	-
59 - 68	294	-	-
68 - 78	296	-	-
78 - 88	300	-	-
88 - 98	308	-	-
98 - 108	308 - 318	-	-
108 - 118	318 - 326	-	-
118 - 128	326 - 336	-	-
128 - 138	336 - 346	-	-
138 - 148	346 - 353	-	-
148 - 158	-	-	-
158 - 168	-	-	-
168 - 178	-	-	-
178 - 184	-	-	-
184 - 194	-	-	-
194 - 204	-	-	-
204 - 214	-	-	-
214 - 225	-	-	-
225 - 231	-	-	-
231 - 234	-	-	-
-	-	-	-
241 - 246	-	-	-
246 - 252	-	-	-
252 - 260	-	-	-

All intervals have both washed & unwashed samples

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DRILLER: Sydnor Hydrodynamics, Inc.  
COUNTY: Giles (Pearisburg)

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TOTAL DEPTH: 353'

GEOLOGIC LOG

Depth in  
feet

0-6	Sand — tan, micaceous
6-18	Dolomite — light-brownish-gray; medium-grained, dense
18-34	" with minor amount of weathered, calcareous sandstone; minor amounts of chert and hematite
34-40	" with some clay and mica
40-46	Sandstone → light-brownish-gray; medium- to coarse, well-rounded grains; calcareous cement; minor amount of light-gray dolomite and trace of chert
46-56	"
56-59	Siltstone — yellowish-gray; minor amount of medium-gray, fine-grained sandstone and medium-gray chert
59-68	"
68-78	Sandstone — light-brownish-gray; medium-to-coarse, well-rounded, frosted grains; calcareous cement; minor amount of light-brownish-gray dolomite
78-88	Dolomite — light-gray; fine-grained, arenaceous; trace of light-gray chert
88-98	Sandstone — light-gray; fine-grained, dolomitic; minor amount of dark-gray sandstone
98-108	"
108-118	"
118-128	"
128-138	" with trace of chert

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138-148	Sandstone — light-gray; fine-grained, dolomitic; minor amount of dark-gray sandstone and trace of chert
148-158	"
158-168	"
168-178	Siltstone — light-brownish-gray; dolomitic; about 40% of sample is fine-grained sandstone
178-184	Sandstone — light-brownish-gray; fine-grained, dolomitic, banded
184-194	Sandstone — light-brownish-gray; fine-grained, dolomitic; minor amount of light-gray chert
194-204	"
204-214	"
214-225	"
225-231	"
231-234	"
234-241	No sample
241-246	Sandstone — light-gray; fine-to-medium, well-rounded, frosted grains; dolomitic
246-252	"
252-260	Dolomite — light-brownish-gray; fine-grained, slightly silty
260-266	Sandstone — light-gray, fine- to medium-grained, dolomitic
266-276	"
276-284	"
286	Limestone — medium-gray, fine-grained; some dark-gray limestone and trace of calcite
289	" with considerable oölitic chert and light-gray, silty dolomite; minor amount of limestone breccia

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- 291 Siltstone — light-brownish-gray; dolomitic; minor amounts of medium-gray limestone, oölitic chert, breccia, and sandstone
- 292 " with increase in amount of brecciated material
- 294 Limestone — medium-gray, fine-grained; minor amounts of dolomite, sandstone, breccia, and oölitic chert
- 296 "
- 300 Dolomite — light-brownish-gray, fine-grained; 40% of sample is medium-gray chert; minor amount of calcareous siltstone
- 308 " lesser amount of chert
- 308-318 " "
- 318-326 "
- 326-336 "
- 336-346 "
- 346-353 Dolomite — light-brownish-gray, fine- to medium-grained; minor amounts of fine-grained sandstone and siltstone

GEOLOGIC SUMMARY

<u>Rock Unit</u>	<u>Age</u>
Conococheague Formation	Cambrian

Virginia Division of Mineral Resources  
W. W. Winters, Geologist  
November 14, 1968