

STATE WATER CONTROL BOARD

P. O. Box 11143, 4010 W. Broad St., Richmond, Virginia 23230 - (703) 770-2241

W-4105
C-636

WATER WELL COMPLETION REPORT

OWNER: Trammel Const. Co., Inc. Mailing Address P.O. Drawer 3507, Bristol, Tenn.
A10 40
TENANT: North River Waste Water Treatment Pt. Mailing Address Harrisonburg, Va.
B10 40
DRILLER: Sydnor Hydrodynamics, Inc. Mailing Address P. O. Box 27186, Richmond, Va.
C10 40
WELL LOCATION: County: Rockingham Approx. 1200 feet; miles South (direction) of 687 (867?) on 991?
and 500 feet; miles East (direction) of 1-81
 (GIVE DIRECTION AND DISTANCE IN FEET OR MILES FROM TWO REFERENCE POINTS: ROADS, TOWNS, RIVERS, ETC., ON COUNTY HIGHWAY OR OTHER MAP)

DATE STARTED: 1-2-74 **DATE COMPLETED:** 4-22-74
D10 15 16
TYPE OF DRILL RIG USED: Cable Tool **TOTAL DEPTH DRILLED:** 227 feet
22 24 27
TOTAL DEPTH OF COMPLETED WELL: 227 feet
23 31

WATER LEVEL: Stands 10' 7" feet below land surface OR has NATURAL flow of _____ gallons per minute.
32 34

YIELD TEST: Method Submersible **HOLE SIZE:** 16 inches from 0 to 40 feet
E10 11 12 15 16 19
 Drawdown 110 feet
35 37
 Rate 52 gallons per minute
38 41
 Duration 48 hours
42 43
WATER ZONES: from 153 to 169 feet
44 47 48 51
 from 177 to 187 feet
52 55 56 59
 from 190 to 200 feet
60 63 64 67
SCREEN SIZE: 6 inches from 153 to 163 feet
40 41 42 45 46 47
 Mill Slot 6 inches from 177 to 187 feet
50 51 52 55 56 59
6 inches from 190 to 200 feet
60 61 62 65 66 69
_____ inches from _____ to _____ feet
70 71 72 75 76 79

DID ANY STRATUM CONTAIN WATER WHICH WAS UNUSABLE? **CASE SIZE:** 16 inches from +3" to 40 feet
F10 11 12 15 16 19
 YES NO Type of water _____
 Depth of stratum: from _____ to _____ feet
68 71 72 75
8 inches from +10" to 150 feet
20 21 22 25 26 29
6 inches from +33" to 206' 6" feet
30 31 32 35 36 39

WELL TO SUPPLY: (check one) Home _____ **GROUTING:** Method Pressure
 Farm _____ Town _____ School _____ Industry _____ Subdivision _____
 Other Water Waste Treatment Plant Material Cement & Water Depth 105 feet
40 42

WATER ANALYSIS AVAILABLE: YES NO _____ **PUMP:** Brand _____ Type _____
77 Model Number _____
67 79
ELECTRIC OR GAMMA LOG RUN: YES _____ NO Capacity _____ gal. per min. at _____ ft. of head
78 14 16
DRILL CUTTINGS SAVED: YES NO _____ Depth of intake _____ feet
79 17 20

(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: _____

WATER WELL CONTRACTOR IS TO SUBMIT THIS REPORT WITHIN 30 DAYS OF COMPLETION OF WELL.

DEPTH (feet)		LOG OF WELL		REMARKS (water, caving, shot, screen, sample, etc.)
		From	To	
0	2½			
2½	7			
7	27			
27	28			
28	40			
40	48			
48	100			
100	150			
150	154			
154	163			
163	178			
178	181			
181	184			
184	187			
187	191			
191	194			
194	200			
200	203			
203	208			
208	212			
212	213			
213	215			
215	216			
216	227			

VIRGINIA DIVISION OF MINERAL RESOURCES
Box 3667, Charlottesville, VA 22903

INTERVAL SHEET

C-636

Page 1 of 1

Well Repository No.: W- 4105

Date rec'd: 5/13/74 Date Processed:

Sample Interval: from 0 to: 227'

PROPERTY: Trammel Const. Co. Inc.
(N. River Waste Treatment Plant)

Number of samples: 26

COMPANY: Sydner Hydrodynamics

Total Depth: 227'

COUNTY: Rockingham (Mt. Crawford)

Oil or Gas: Water:x Exploratory:

From-To	From-To	From-To	From-To	From-To
0- 2	-	-	-	-
2- 8	-	-	-	-
8-12	-	-	-	-
12-20	-	-	-	-
20-27	-	-	-	-
27-40	-	-	-	-
40-50	-	-	-	-
50-60	-	-	-	-
60-70	-	-	-	-
70-80	-	-	-	-
80-90	-	-	-	-
90-100	-	-	-	-
100-110	-	-	-	-
110-120	-	-	-	-
120-130	-	-	-	-
130-140	-	-	-	-
140-150	-	-	-	-
150-154	-	-	-	-
154-163	-	-	-	-
163 -170	-	-	-	-
170-178	-	-	-	-
178-181	-	-	-	-
181-194	-	-	-	-
194-200	-	-	-	-
200-210	-	-	-	-
210-227	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-

Unwashed only

OWNER: Trammel Construction Company, Inc.
TENANT: North River Waste Water Treatment Plant
DRILLER: Sydnor Hydrodynamics, Inc.
COUNTY: Rockingham (Mt. Crawford)

W-4105
C-636
T.D. 227'

GEOLOGIC LOG

Depth
(in feet)

Overburden (0'-27')

0 - 2	Gray-brown clay and coarse quartz sand
2 - 8	Red-brown clay, silt and quartz sand
8 - 12	Sandstone fragments with pale-brown clay
12 - 20	"
20 - 27	"

Lincolnshire Formation (27'-154')

27 - 40	Limestone — light gray, very fine-grained, with minor amount of vein calcite; some pale-brown clay
40 - 50	" "
50 - 60	" "
60 - 70	" "
70 - 80	Limestone — light gray, very fine-grained, with abundant fragments containing fossil sponge material; minor amount of dark-gray to black chert
80 - 90	" "
90 - 100	" "
100 - 110	" "
110 - 120	Limestone — light gray, very fine-grained to aphanitic
120 - 130	" "
130 - 140	Limestone — light gray, very fine-grained to aphanitic; with minor amount of black chert
140 - 150	" "
150 - 154	" "

New Market Limestone (154'-227')

154 - 163	Dolomitic limestone — light gray to buff, very fine-grained, laminated
163 - 170	Limestone — light gray, very fine-grained to aphanitic; with trace of black chert

170 - 178	Limestone — light to medium gray, fine-grained to aphanitic; some laminated, some slightly saccharoidal fragments; minor amount of pyrite
178 - 181	" "
181 - 194	" "
194 - 200	" "
200 - 210	Limestone — very light gray, fine-grained
210 - 227	" "

GEOLOGIC SUMMARY

Thickness (in feet)	<u>Rock Unit</u>	<u>Age</u>
0 - 27'	Overburden	
27 - 154'	Lincolnshire Formation	Ordovician
154 - 227'	New Market Limestone	"

VA. DIVISION OF MINERAL RESOURCES
T. M. Gathright II, Geologist
November 13, 1975