

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

W# 4764
C# 90

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: King George County Mailing Address: King George, Virginia

TENANT: Bayberry Estates Well #3 Mailing Address: _____

DRILLER: Douglas Drilling Co., Inc. Mailing Address: Box 498, Warsaw, Va.

WELL LOCATION: County King George Approx. 1000 ~~XXXXX~~ feet west (direction) of
intersection of Routes 301 & 1101 and _____ feet
_____ miles (direction) of _____

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

DATE STARTED: _____ DATE COMPLETED: November 18, 1976

TYPE OF DRILL RIG USED: Rotary TOTAL DEPTH 676 feet

WATER LEVEL: Stands 64 feet below surface OR
has NATURAL flow of -- gallons per minute.

YIELD TEST: Method 15 HP test pump HOLE SIZE: 11 1/2 inches from 0 to 50 feet
Drawdown 204 feet 8 1/2 inches from 50 to 310 feet
Rate 137 gal. per min. 5-7/8 inches from 310 to 676 feet
Duration 48 hrs., _____ min. SCREEN SIZE: _____ inches from _____ to _____ feet

WATER ZONES: from 641 to 671 feet #30SU 3 inches from 641 to 671 feet
from -- to -- feet _____ inches from _____ to _____ feet
from -- to -- feet CASE SIZE: 6 inches from 0 to 310 feet

WATER: Color _____ Taste _____ STANDARD 3 inches from 302 to 641 feet
Odor _____ Temp. _____ °F SCHEDULE 40 BLACK 3 inches from 671 to 676 feet
T & C

WELL TO SUPPLY: (check one) Home _____ GROUTING: Method tremmie pipe
Farm _____ Town _____ School _____ Material neat cement Depth 50 feet
Industry _____ Other subdivision TEST

WATER ANALYSIS AVAILABLE: Yes _____ No X Capacity 137 gal per min
DRILL CUTTINGS SAVED: Yes X No _____ Depth of intake 295 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: This is a CLASS II TYPE B Well of construction and materials as per specifications of Virginia Health Department publication "Drilled Wells for Public Water Supply" dated 9 Feb 1970. Drill Cutting Samples delivered to VSWCB, Water Sample for chemical analysis delivered to Va Health Dept Div of Sanitary Engineering, and copies of this report sent to them and owner.

LOG

FURNISHED BY: _____ 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	10	tan - sandy tan clay and gravel	
10	20	tan - sticky tan clay	
20	35	gray - firm gray clay	
35	45	gray - sandy messy gray clay	
45	57	dark gray - black sandy clay with shell trace	
57	58	hard material	
58	68	blue - firm blue clay	
68	140	gray - gray black sandy clay with shell, increasingly sandy	
140	150	red - soft sticky red clay	
150	245	gray - black sandy clay with varying % shell, sand, clay	
245	265	multicolor - red, olive, light brown, light green slightly sandy clays	
265	285	brown, red - medium brown and red sands with a little clay	
285	295	multicolor - tan, gray, white, yellow slightly sandy clays	
295	325	gray - firm sticky tough gray clay	
325	520	multicolor - clays: yellow, tan, light gray, olive, red and gray mixed, pink and brown mixed, varying % fine sand with clay	
520	550	gray - slightly sandy gray clay, varying 5 fine sand, red trace	
550	570	gray/blue - fine sandy clay	
570	595	blue/brown - medium sandy clay, a little coarse free sand	
595	635	blue/brown - smooth or slightly sandy blue and brown mixed clays	
635	675	fine, medium, and coarse sands in layered formation with varying % clay - water, screens	
675	676	gray - firm clay	
		TOTAL DEPTH 676'	BAYBERRY ESTATES WELL
Drill Cuttings delivered to VSWCB Richmond office with this report.			
Water Sample gallon delivered to VHD - Div Sanitary Engineering, Richmond office with this report.			
Copy of this report delivered to Owner; King George County			

(Use additional forms if necessary)

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

INTERVAL SHEET

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Well Repository No.: C-90
 W-4764

Date rec'd: 01/11/77 Date Processed: 06/16/77

Sample Interval: from 0 to:676

PROPERTY: King George County
 Bayberry Estates #3

Number of samples: 65

COMPANY: Douglas Drilling Company

Total Depth: 676'

COUNTY: King George (Owens)

Oil or Gas: Water: X Exploratory:

From-To	From-To	From-To	From-To	From-To
0 - 10	315 - 325	630 - 641	-	-
10 - 21	325 - 336	641 - 652	-	-
21 - 31	336 - 346	652 - 663	-	-
31 - 42	346 - 357	663 - 674	-	-
42 - 52	357 - 367	674 - 676	-	-
52 - 63	367 - 378	-	-	-
63 - 73	378 - 388	-	-	-
73 - 84	388 - 399	-	-	-
84 - 94	399 - 409	-	-	-
94 - 105	409 - 420	-	-	-
105 - 115	420 - 430	-	-	-
115 - 126	430 - 441	-	-	-
126 - 136	441 - 451	-	-	-
136 - 147	451 - 462	-	-	-
147 - 157	462 - 472	-	-	-
157 - 168	472 - 483	-	-	-
168 - 178	483 - 493	-	-	-
178 - 189	493 - 504	-	-	-
189 - 199	504 - 514	-	-	-
199 - 210	514 - 525	-	-	-
210 - 220	525 - 535	-	-	-
220 - 231	535 - 546	-	-	-
231 - 241	546 - 556	-	-	-
241 - 252	556 - 567	-	-	-
252 - 262	567 - 577	-	-	-
262 - 273	577 - 588	-	-	-
273 - 283	588 - 598	-	-	-
283 - 294	598 - 609	-	-	-
294 - 304	609 - 619	-	-	-
304 - 315	619 - 630	-	-	-

Washed & unwashed samples

Owner: Bayberry Estates #3
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County: King George (Owens)

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Quad: Dahlgren
Elev: 15'

Depth
(feet)

WELL LOG

- 0-20 Gravel - mixed colors; medium to pebble (25 mm), subangular to rounded, poorly sorted; sparse clay at 10-20'.
- 20-42 Clay - light olive gray (5 Y 6/1); sparse sand; medium to pebble, subangular to rounded, poorly sorted; rare glauconite at 31-42'; wood fragments.
- 42-63 Sand - light olive gray (5 Y 6/1); abundant clay; fine to small pebbles, subangular and rounded, poorly sorted; 45% glauconite; 3% - 1% shell fragments; mica.
- 63-84 Sand, glauconitic - olive gray (5 Y 4/1); 50% glauconite; abundant clay; fine to medium, subangular, well sorted; 5% fine shell fragments; mica.
- 84-94 Gravel, glauconitic - olive gray (5 Y 4/1); 50% glauconite; abundant clay; fine to rounded pebble (30 mm), subangular, poorly sorted; bone fragments; 10% fine shell fragments - Venicardia.
- 94-126 Sand - olive gray (5 Y 4/1); abundant clay; fine to granule with rounded pebbles at 115-126', subangular, moderate sorting; 40% glauconite/bone fragments; 10% shell fragments.
- 126-136 Clay - grayish orange pink (5 YR 7/2); clay in 2 types of clasts - 1 type pure clay and 1 with sand/glauconite - olive gray (5 Y 4/1); abundant sand; fine to granule, subangular, poorly sorted; 40% glauconite in clay only; rare shell fragments; mica.
- 136-147 Clay - moderate reddish brown (10 R 4/6) and gray in bands; fine to granule, subangular, few grains poorly sorted; rare glauconite, in bands throughout gray clay; mica.
- 147-168 Sand - olive gray (5 Y 4/1); abundant clay; fine to very coarse, subangular, moderate sorting; 40% glauconite; 30% fine shell fragments - Turritella; some pinkish clay from above layers.
- 168-178 Gravel - olive gray (5 Y 4/1); abundant clay; fine to very coarse, subangular, moderate sorting; 40% glauconite; 30% fine shell fragments.
- 178-231 Sand, glauconitic - olive gray (5 Y 4/1); 50% glauconite; abundant clay; fine to very coarse with some granules at 189-199' and rounded pebbles at 210-221', subangular, moderate sorting; 10% shell fragments until 221-231' where it's 3%.
- 231-252 Sand - dark yellowish brown (10 YR 4/2); sparse clay; medium to very coarse, subangular and angular, moderate sorting; 30% glauconite; rare shell fragments; iron oxide staining on grains.

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- 252-262 Sand - light olive gray (5 Y 4/2); moderate clay; medium to very coarse, angular and subangular, moderate sorting; 40% glauconite.
- 262-283 Sand - dark yellowish brown (10 YR 5/4); sparse to moderate clay; medium to very coarse, subangular and angular; 10% glauconite.
- 283-294 Sand - dark yellowish brown (10 YR 5/4); sparse clay; medium to coarse, subangular and angular, well sorted; 30% glauconite.
- 294-315 Clay - pale yellowish brown (10 YR 6/2); sparse sand, fine to medium, subangular, well sorted; rare glauconite; ochre.
- 315-357 Clay - pale yellowish brown (10 YR 6/2); abundant sand, fine to coarse, subangular, well sorted; rare glauconite, 1-3% at 336-346'; ochre, increasing at 336-346'.
- 357-367 Clay - yellowish gray (5 Y 8/1) and light olive gray (5 Y 6/1) - clay is zoned yellow, gray, white, light brown, ochre and red from 357-441'; moderate sand, fine to coarse, subangular, moderate sorting; rare glauconite.
- 367-420 Clay - yellowish gray (5 Y 8/1); moderate sand, fine to coarse, subangular, moderate sorting; rare glauconite; pale yellow brown (10 YR 6/2) at 388-397' along with yellowish gray.
- 420-430 Clay - yellowish gray (5 Y 8/1); abundant sand, fine to coarse, subangular, moderate sorting; rare glauconite.
- 430-451 Clay - grayish orange pink (5 YR 7/2); abundant sand, fine to coarse, subangular, moderate sorting; rare glauconite.
- 451-462 Clay - grayish orange pink (5 YR 7/2); moderate sand, fine to coarse, subangular, moderate sorting; rare glauconite.
- 462-493 Clay - pale yellowish brown (10 YR 6/2) and fragments of above color; moderate sand, fine at 462-472' and fine to medium, subangular, well sorted at 462-472' and moderate thereafter; rare glauconite.
- 493-504 Clay - light yellowish brown (10 YR 6/4); abundant sand, fine to coarse, subangular, moderate sorting; clay streaked white, pink, ochre.
- 504-525 Clay - pale yellowish brown (10 YR 6/2); moderate sand, fine to coarse, subangular, moderate sorting; very rare weathered glauconite.
- 525-567 Clay - very pale yellowish brown (10 YR 7/2); moderate sand, very fine to medium, subangular, moderate sorting; mica - muscovite and fuschite.

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567-598 Clay - moderate yellowish brown (10 YR 5/4); abundant sand; fine to coarse, subangular, moderate sorting; biotite, muscovite.

598-607 Clay - light olive gray (5 Y 6/1); moderate sand; fine to medium, subangular, moderate sorting.

607-641 Clay - yellowish gray (5 Y 6/2); abundant sand; fine to medium, subangular, moderate sorting.

641-674 Sand - light olive gray (5 Y 7/1); sparse clay from 652-663' on; fine to coarse, angular, well sorted; feldspar; rose quartz.

674-676 Clay - yellowish gray (5 Y 7/2); very sparse sand; fine to very coarse, subangular, poorly sorted.

Logged by: J. K. Polzin
October 28, 1980