

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

W-4496
C-88

MAILING ADDRESS:

DIVISION OF MINERAL RESOURCES

OFFICE ADDRESS:

B-3667
Charlottesville, VA 22903

JAMES L. CALVER, COMMISSIONER

McCormick Road
Charlottesville, Virginia

WATER WELL COMPLETION REPORT

OWNER: King George School Board Mailing Address: King George, VA 22485

TENANT: _____ Mailing Address: _____

DRILLER: Sydnor Hydrodynamics, Inc. Mailing Address: P.O. Box 27186 Richmond VA 23261

WELL LOCATION: County King George Approx. 3/4 ~~xxx~~ miles North (direction) of
Route 3 and 400 ~~xxx~~ feet East (direction) of Route 206

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

DATE STARTED: 09/08/75 DATE COMPLETED: 10/27/75

TYPE OF DRILL RIG USED: Rotary TOTAL DEPTH 538 feet

WATER LEVEL: Stands 191'8" feet below surface OR
has NATURAL flow of _____ gallons per minute.

YIELD TEST: Method Pump
Drawdown 53'4" feet
Rate 30 gal. per min.
Duration 48 hrs., _____ min.

HOLE SIZE: 10 inches from 0 to 538 feet
_____ inches from _____ to _____ feet
_____ inches from _____ to _____ feet
SCREEN SIZE: 4 inches from 502 to 522 feet
_____ inches from _____ to _____ feet

WATER ZONES: from 502 to 522 feet
from _____ to _____ feet
from _____ to _____ feet

CASE SIZE: 4 inches from +2 to 502 feet
4 inches from 522 to 528 feet
_____ inches from _____ to _____ feet

WATER: Color _____ Taste _____
Odor _____ Temp. _____ °F

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

GROUTING: Method _____
Material _____ Depth 50 feet

WATER ANALYSIS AVAILABLE: Yes _____ No _____

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

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: Gamma Log ran, Electric Log ran

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	2	Brown clay	
2	12	Brown silty clay	
12	40	Yellow clay	
40	52	Brown sand	
52	125	Blue clay	
125	150	Gray clay and shells	
150	200	Gray clay, some silty black sand, shells	
200	210	Gray clay and shells	
210	218	Black sand and shells	
218	220	Hard shell streak	
220	273	Gray clay and shells	
273	292	Black sand, shells, clay	
292	315	Hard gray clay	
315	425	Tough brown clay	
425	452	Tough brown clay with some red	
452	456	White clay and mica	
456	470	Fine gray sand clay	
470	472	Tough brown clay	
472	477	Fine Gray sand clay	
477	483	Tough brown and gray clay	
483	498	Fine gray sand	
498	501	Brown clay	
501	524	Gray sand and clay	
524	535	Gray sand clay	
535	538	Hard clay	

(Use additional forms if necessary)

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

INTERVAL SHEET

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Well Repository No: W-4496

Date rec'd: 11/18/75 Date Processed: 11/4/76 Sample Interval: from: 0 to: 538

PROPERTY: King George School Board

Number of samples: 53

COMPANY: Sydnor

Total Depth: 538'

COUNTY: King George (King George)

Oil or Gas: Water: X Exploratory:

From-To	From-To	From-To	From-To
0-10	250-260	500-510	-
10-20	260-270	510-520	-
20-30	270-280	520-538	-
30-40	280-290	-	-
40-50	290-300	-	-
50-60	300-310	-	-
60-70	310-320	-	-
70-80	320-330	-	-
80-90	330-340	-	-
90-100	340-350	-	-
100-110	350-360	-	-
110-120	360-370	-	-
120-130	370-380	-	-
130-140	380-390	-	-
140-150	390-400	-	-
150-160	400-410	-	-
160-170	410-420	-	-
170-180	420-430	-	-
180-190	430-440	-	-
190-200	440-450	-	-
200-210	450-460	-	-
210-220	460-470	-	-
220-230	470-480	-	-
230-240	480-490	-	-
240-250	490- <u>500</u>	-	-

Washed and unwashed samples

Owner: King George School Board
Driller: Sydnor
County: King George

W# 4496
C# 88
Total Depth: 538'
Quad: King George
Elev: 93'

Depth
(feet)

WELL LOG

0-50 Sand - grayish orange (10YR 7/4); abundant clay with moderate at 40-50; 0-10 medium to coarse with some very coarse, 10-30 medium to very coarse, 30-40 some granules, 40-50 some rounded pebbles; subangular, moderate sorting; rose quartz at 40-50.

50-60 Sand - light olive gray (5Y 6/2); moderate clay; fine to coarse with some larger grains, subangular, well sorted.

60-100 Sand - light olive gray (5Y 6/2); abundant clay; fine to coarse with some larger grains, subangular, well sorted.

100-120 Sand - light olive gray (5Y 5/2); abundant clay; fine to coarse with rounded granules and fine to very coarse, subangular, moderate sorting; 10-15% glauconite; 5 (Bull Shark?) teeth; 20% bone fragments - 100-110 and 1 tooth and fragments at 110-120.

120-150 Sand, Glauconitic - olive gray (5Y 4/1); 50% glauconite; abundant clay; fine to coarse with rounded granules; subangular, moderate sorting; 20% shell fragments - Venicardia, Turritella; moderate yellow brown clasts of clay at 140-150; bone fragments and phosphate nodules at 140-150.

150-160 Sand, Glauconitic - olive gray (5Y 4/1); 60% glauconite; abundant clay; fine to coarse, subangular, moderate sorting; 35% shell fragments.

160-170 Sand - olive gray (5Y 4/1); abundant clay; fine to coarse, subangular, moderate sorting; 40% glauconite; 20% shell fragments.

170-180 Sand, Glauconitic - olive gray (5Y 4/1); 60% glauconite, abundant clay; fine to coarse, subangular, moderate sorting; 20% shell fragments.

180-200 Sand, Glauconitic - olive gray (5Y 4/1); 50% glauconite; abundant clay; fine to medium with some coarse, subangular, moderate sorting; 20% shell fragments.

200-220 Sand, Glauconitic - light olive gray (5Y 5/2); 50% glauconite; abundant clay; fine to very coarse, subangular, poor sorting; 30% to 10% shell fragments - Turritella, Dentalium; madreporite - 210-220.

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Depth
(feet)

- 220-240 Sand - light olive gray (5Y 5/2); abundant clay; fine to very coarse, subangular, poorly sorted; 30-40% glauconite; 40% shell fragments.
- 240-290 Sand - olive gray (5Y 4/1); abundant clay; fine to coarse, subangular, moderate sorting; 40% glauconite; 40% shell fragments with 30% at 280-290; shark tooth at 280-290; mica at 260-270.
- 290-300 Sand - olive gray (5Y 4/2); abundant clay; fine to coarse with some granules, subangular, poor sorting; 40% glauconite; 20% shell fragments; bone and phosphatic fragments/nodules.
- 300-310 Sand - moderate olive brown (5Y 4/4); abundant clay; fine to granule, subangular, poor sorting; 30% glauconite; 10 shell fragments; bone fragments and phosphatic nodules.
- 310-330 Gravel - light and dark brown; sparse clay; fine to granule, subangular, poorly sorted; 8% glauconite; rose quartz.
- 330-360 Sand - moderate yellowish brown (10YR 5/4); moderate clay; fine to granule at 330-340 and to very coarse at 340-360, subangular with some angular and rounded; poorly sorted; 3% glauconite with 10% at 350-360; rose quartz.
- 360-380 Sand - pale yellowish brown (10YR 6/2); moderate clay; medium to very coarse, angular and subangular with some rounded at 360-370, poorly sorted; 15% glauconite; 3% shell fragments at 370-380.
- 380-410 Sand - pale yellowish brown (10YR 6/2); abundant clay; medium to coarse with some larger grains, angular and subangular, poorly sorted; 10% glauconite; 1% shell fragments.
- 410-440 Sand - pale yellowish brown (10YR 6/2); abundant sand; fine to coarse, subangular, moderate sorting; 30% glauconite; rare to 1% shell fragments.
- 440-450 Clay - moderate yellowish brown (10YR 5/4); abundant sand; medium to very coarse, subangular, moderate sorting; very rare glauconite.
- 450-470 Sand - pale yellowish brown (10YR 6/2); abundant clay; fine to very coarse and coarse, subangular, poorly sorted; very rare glauconite.

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(feet)

470-480 Sand - moderate yellowish brown (10YR 5/4); moderate clay; some red clasts with medium to granule, angular and subangular grains; very rare glauconite; fine to coarse, subangular, poorly sorted.

480-538 Sand - moderate yellowish brown (10YR 5/4); sparse clay; fine to very coarse, with granules at 500-510, subangular, moderate sorting; very rare glauconite; feldspar at 510-538.

Logged by: J. K. Polzin
October 29/30, 1980