

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

W# 5458
C# 180

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: Division of Parks Mailing Address: York River State Park #1

TENANT: _____ Mailing Address: _____

DRILLER: Gammon Mailing Address: _____

WELL LOCATION: County James City Approx. 3 ^{feet}/_{miles} North (direction) of
Route 6 and _____ ^{feet}/_{miles} _____ (direction) of York 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: 2-14-77 DATE COMPLETED: 3-4-77

TYPE OF DRILL RIG USED: _____ TOTAL DEPTH 270 feet

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

YIELD TEST: Method sub pump
Drawdown 140 feet
Rate 25 gal. per min.
Duration _____ hrs., _____ min.

HOLE SIZE: _____ inches from _____ to _____ feet
_____ inches from _____ to _____ feet
_____ inches from _____ to _____ feet

WATER ZONES: from _____ to _____ feet
from _____ to _____ feet
from _____ to _____ feet

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

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

CASE SIZE: _____ inches from _____ to _____ feet
_____ inches from _____ to _____ feet
_____ inches from _____ to _____ feet

WELL TO SUPPLY: (check one) Home _____
Farm _____ Town _____ School _____
Industry _____ Other State Park #1

GROUTING: Method _____
Material _____ Depth _____ feet

WATER ANALYSIS AVAILABLE: Yes X No _____

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

DRILL CUTTINGS SAVED: Yes X 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: _____

SCREEN DATA (Card 8)

DOES THE WELL HAVE SCREENS? Yes¹¹/No; OR
 DOES THE WELL HAVE SLOTTED OR PERFORATED PIPE? Yes/No₁₂

LOCATION OF SCREENS: Give the diameter and depth of all screens or sections of slotted or perforated pipe.

<u>6</u> inches from <u>13-14</u> to <u>15-18</u> feet	<u>19-22</u> to <u>21-24</u> feet	<u>43-44</u> inches from <u>45-48</u> to <u>49-52</u> feet
<u>6</u> inches from <u>23-24</u> to <u>25-28</u> feet	<u>29-32</u> to <u>31-34</u> feet	<u>53-54</u> inches from <u>55-58</u> to <u>59-62</u> feet
<u> </u> inches from <u>33-34</u> to <u>35-38</u> feet	<u>39-42</u> to <u>41-44</u> feet	<u> </u> inches from <u>63-64</u> to <u>65-68</u> feet

QUALITY DATA (Card 9)

DID ANY STRATUM CONTAIN WATER WHICH WAS UNSUABLE? Yes/No; TYPE OF WATER _____
11 12-22

DEPTH OF STRATUM: from 21-24 to 27-30 feet; from 27-30 to 31-34 feet. WATER TEMPERATURE: _____ °F
23-26 27-30 31-34 35-38 39-40

If a permit was not issued for this well and a USGS topographic map is not available, a written description and sketch map of well location will suffice.

DRILLER'S LOG

DEPTH (feet)		TYPE OF ROCK OR SOIL PENETRATED (gravel, clay, etc.; hardness, color, etc.)	REMARKS (water, caving, shot, screen, samples, etc.)
From	To		
0	21	Top Soil and 2 in. clay	
27	47	Red Sand, Small Gravel	
47	67	Small Gravel + Sand	
67	87	Gravel, blue sand, few shells	
87	107	Blue sand, blue mud, shells	
107	127	Blue sand, shells, blue mud	
127	147	Blue mud, shells + sand	
147	167	Blue mud, shells	
167	187	Blue mud, shells	
187	210	Blue mud, shells, sand	
210	231	Blue mud, shells, blue rock	
231	252	Blue rock, mud streaks	
252	273	Blue rock, blue sand	

Owner: Va. Div. Parks (York River St. Park #1)
Driller: W. H. Gammon
County: James City

W# 5458
C# 180
Total Depth: 270'
Quad: Gressitt
Elev: 32'

Depth
(feet)

WELL LOG

- 0-23 Sand - Dusky yellow (5y 6/4); very fine to coarse, subangular, some very coarse, moderate sorting; quartz; 20% shell fragments-Turritella Pilsbryi; 5% fine black phosphatic fragments; iron nodules.
- 23-43 Sand - As Above.
- 43-63 Sand - Light olive gray (5y 5/2); sparse clay in grains; very fine to fine; very well sorted; quartz; 7% fine phosphatic fragments; 1% shell fragments; mica-muscovite, fuschite; iron; Forams-Nonion.
- 63-83 Sand - As Above, except: 10% shell fragments; sand-to coarse.
- 83-87 No Samples.
- 87-107 Sand - As Above, except: some shell fragments; no coarse grains.
- 107-127 Sand - As Above, except: 1% shell fragments.
- 127-147 Sand - As Above, except: abundant clay in small clasts; few shell fragments.
- 147-168 Sand - As Above, except: abundant clay; 5% shell fragments; sand to very coarse, well sorted; 5% phosphatic fragments.
- 168-189 Sand - As Above, except: moderate clay; moderate sorting; 1% shell fragments; Forams-Robulus.
- 189-210 Sand - As Above, except: medium to very coarse, some fine grains, poor sorting; quartz; 10% shell fragments; Forams-Robulus, Siphogenerina.
- 210-231 Sand - As Above, except: limestone clasts.
- 231-252 Shell Hash - "Salt and Pepper"; limestone clasts with sand/glaucanite; shell fragments; sand - As Above; 15% glaucanite; Echinoderm spines.
- 252-270 Sand - (Ground Shell Hash); olive gray (5y 3/2); 60% brown and black glaucanite-sand, as above; 1% shell fragments.

Logged by: J. K. Polzin
July 9, 1980