

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

W# 5408
C# 139

MAILING ADDRESS:
Box 3667
Charlottesville, VA 22903

DIVISION OF MINERAL RESOURCES

JAMES L. CALVER, COMMISSIONER

OFFICE ADDRESS:
McCormick Road
Charlottesville, Virginia

WATER WELL COMPLETION REPORT

1201 State Office Building
Richmond, Virginia

OWNER: Division of Parks Mailing Address: _____

TENANT: _____ Mailing Address: _____

DRILLER: W. H. Gammon Mailing Address: Rt. 2 Box 125
Providence Forge, VA. 23140

WELL LOCATION: County Surry Approx. 1/2 ^{1/4} miles E (direction) of
Rt. 633 and 5 ^{1/4} miles E (direction) of Surry Court House

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

DATE STARTED: 5-2-77 DATE COMPLETED: 5-20-77

TYPE OF DRILL RIG USED: Rotary TOTAL DEPTH 400' feet

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

YIELD TEST: Method Sub. Pump
Drawdown 61 feet
Rate 110 gal. per min.
Duration 48 hrs., _____ min.

HOLE SIZE: 12 inches from 0 to 400 feet
_____ inches from _____ to _____ feet
_____ inches from _____ to _____ feet
SCREEN SIZE: 6 inches from 345 to 375 feet
_____ inches from _____ to _____ feet
_____ inches from _____ to _____ feet

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

CASE SIZE: 6 inches from 0 to 345 feet
_____ inches from 375 to 376 feet
_____ inches from _____ to _____ feet

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

GROUTING: Method _____
Material _____ Depth _____ feet

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

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

WATER ANALYSIS AVAILABLE: Yes X No _____

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: _____

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	27	yellow & red clay some gravel	
27	47	sand, clay, gravel & shell	
47	67	white & blue sand, shells & mud	
67	87	blue mud & shells	
87	107	blue mud, shells	
107	127	blue mud	
127	148	blue mud	
148	169	blue mud	
169	190	blue mud	
190	211	blue mud brown mud & shells	
211	232	blue mud, shells & sand	
232	253	gray mud, black sand & shells	
253	274	black sand, gray mud, brown sand	
294	295	black, brown sand	
295	316	black, brown sand	
316	336	black sand	
336	356	black sand and water sand	
356	376	water sand, sand clay	
376	396	water sand	

(Use additional forms if necessary)

Owner: Va. Div. of Parks
Driller: W. H. Gammon
County: Surry

W# 5408
C# 139
Total Depth: 400'
Quad: Hog Island
Elev: 55'

Depth
(feet)

WELL LOG

- 0-27 Sand - Grayish orange (10yr 7/4); sparse clay; fine to coarse; subangular; poorly sorted; quartz; granule blue quartz; 2% fine black phosphate.
- 27-47 Shell Hash - Salt and Pepper; 80% reworked shell fragments, oyster, scallop, barnacle; sand - As above; pebbles of various colors.
- 47-67 Sand - Light olive gray (5y 5/2); sparse clay; sand, medium grained, some coarse; well sorted; quartz; 15% shell fragments, nuculana acuta; abundant small echinoderm spines.
- 67-87 Sand - As Above, except: clay clasts are darker gray; 20% shell fragments; fine phosphatic fragments; hematite nodules.
- 87-107 Sand, Clayey - Light olive gray (5y 5/2); moderate clay in clasts; fine to coarse; poorly sorted; quartz, sand; 2% shell fragments.
- 107-127 Sand - As Above, except: sparse clay; fine to medium; well sorted; 5% shell fragments; hematite nodules.
- 127-148 Sand - As Above, except: 7% shell fragments; moderate clay.
- 148-169 No Samples.
- 169-190 Sand, Clayey - Olive gray (5y 4/2); abundant clay clasts; medium to coarse; subangular; poorly sorted; quartz; 2% shell fragments, Turritella.
- 190-211 Sand - As Above, except: moderate clay; forams-Robulus, Dentalina, Siphogenerina, Marginulina; 10% fine black phosphatic fragments.
- 211-232 Sand - As Above, except: (5y 5/2); medium to very coarse sand; 15% shell fragments; 8% glauconite; shark teeth; pyrite.
- 232-253 Sand - Olive brown (5y 4/2); sparse clay clasts of olive gray; sand - As Above; 50% mixed glauconite - Mostly brown, some green; 1% shell fragments; bone fragments.
- 253-273 Sand - As Above, except: 90% glauconite; shark teeth; sparse shell fragments.
- 274-295 Sand - As Above, except: some black glauconite.
- 295-315 Sand - As Above; except: olive black (5y 2/1); 90% green and black glauconite; Foram-Nodosaria.

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Depth
(feet)

315-336	Sand - As Above, except: ostracods.
336-356	Sand - Salt and Pepper; medium to very coarse; subangular; moderately sorted; quartz; 30% glauconite; shell fragments; feldspar; garnet.
356-376	Sand - As Above, except: more very coarse grains; 10% glauconite.
376-396	Sand - Yellowish gray (5y 7/1); mostly very coarse grains; 1% glauconite.
396-400	No Sample.

Logged by: J. K. Polzin
June 24, 1980