

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

W# 5368
C# 178

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: James City Service Authority Mailing Address: Williamsburg, VA.

TENANT: _____ Mailing Address: _____

DRILLER: W. H. Gammon Well Co. Mailing Address: Providence Forge, VA.

WELL LOCATION: County James City Approx. 300 ^{feet}/_{miles} south (direction) of
Toano and 300 ^{feet}/_{miles} east (direction) of Forge Road

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

DATE STARTED: 8-4-76 DATE COMPLETED: 8-11-76

TYPE OF DRILL RIG USED: Rotary TOTAL DEPTH 270' feet

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

YIELD TEST: Method Sub. Pump
Drawdown 15 feet
Rate 175 gal. per min.
Duration 48 hrs., _____ min.

HOLE SIZE: 12 inches from 0 to 270 feet
_____ inches from _____ to _____ feet
_____ inches from _____ to _____ feet

SCREEN SIZE: 6 inches from ? to 241 feet

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

_____ inches from _____ to _____ feet
_____ inches from _____ to _____ feet

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

CASE SIZE: 6 inches from 0 to 246 feet
6 inches from 246 to 270 feet
_____ inches from _____ to _____ feet

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

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: _____

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	28	topsoil red sand, red and yellow clay	
28	48	red and white clay, sand and gravel	
48	68	shells sand rock	
68	88	shale rock, shells, sand	
88	108	blue mud and shells	
108	128	shells blue mud and blue sand	
128	148	shells blue mud and blue sand	
148	168	shells blue mud and blue sand	
168	188	blue mud and shells	
188	208	blue mud, shells and hardshale	
208	229	brown mud, shells and blue rock	
229	250	blue rock	
250	270	gray mud, yellow shale	

Owner: County Service Auth. (Lake Toano #2)
Driller: W. H. Gammon
County: James City

W# 5368
C# 178
Total Depth: 270'
Quad: Toano
Elev: 102'

Depth
(feet)

WELL LOG

- 0-28 Sand - Grayish orange (10yr 7/4); very sparse small clasts of clay; fine to very coarse, subangular, moderate sorting; quartz; few phosphatic fragments.
- 28-48 Shell Hash - Salt and Pepper; 90% large, reworked, iron stained shell fragments; sparse sand - As Above; Echinoderm spines; Scaphopod.
- 48-68 Shell Hash - As Above, except: Chamys, Chione, Ostrea with calcium carbonate deposition on some shell fragments.
- 68-88 Shell Hash - As Above.
- 88-108 Shell Hash - As Above, except: more calcium carbonate clasts than shell fragments.
- 108-128 Sand - Light olive gray (5y 5/2); sparse clay; fine grained; subangular; very well sorted; quartz; 3 large and few fine shell fragments; 10% very fine black phosphatic fragments.
- 128-148 Sand - As Above.
- 148-168 Sand - As Above, except: very sparse ochre-colored clay clasts; mica.
- 168-188 Sand - As Above, except: moderate gray clay clasts and pellets; 1% iron stained shell fragments; very fine to coarse; moderate sorting; quartz; 1%+ fine black phosphatic fragments; Echinoderm spines; mica.
- 188-208 Sand - As Above, except: some very coarse grains; 10% shell fragments.
- 208-229 Sand - As Above, except: fine to very coarse; 5% shell fragments.
- 229-250 Shell Hash - Salt and Pepper; calcium carbonate coated shell fragments; ~~with~~ clasts; glauconitic limestone; sparse sand, as above.
- 250-270 Sand - Moderate olive gray (5y 5/1); sparse clay; sand-very fine to very coarse, poor sorting; quartz; 25% brown and green glauconite; 7% large shell fragments; calcium carbonate coating and in clasts with glauconite; ostracod; forams-Nonion; Robulus; Garnet.

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