

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

W-5969
C-186

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 Co. Carriage Rd #1 Mailing Address: Williamsburg, Va 23185

TENANT: _____ Mailing Address: _____

DRILLER: W. H. Gammon Mailing Address: Rt #2, Box 117 B
Providence Forge, Va 23140

WELL LOCATION: County _____ Approx. _____ ^{feet}/_{miles} North (direction) of
Carrige Rd. and 700 ^{feet}/_{miles} East (direction) of the intersection

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

DATE STARTED: 3-28-80 DATE COMPLETED: 4-11-80

TYPE OF DRILL RIG USED: Rotary TOTAL DEPTH 328 feet

WATER LEVEL: Stands 131 feet below surface OR
has NATURAL flow of _____ gallons per minute.

YIELD TEST: Method _____
Drawdown _____ feet
Rate _____ gal. per min.
Duration _____ hrs., _____ min.

HOLE SIZE: 12 inches from 0 to 328 feet
_____ inches from _____ to _____ feet
_____ inches from _____ to _____ feet
SCREEN SIZE: 6 inches from 248 to 320 feet
_____ inches from _____ to _____ feet

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

CASE SIZE: 6 inches from 298 to 320 feet
_____ inches from _____ to _____ feet
_____ inches from _____ to _____ feet

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

GROUTING: Method _____
Material cement Depth 50 feet

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

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

WATER ANALYSIS AVAILABLE: Yes _____ 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	24	Top soil, yellow & red clay, some white clay	
24	48	White clay, yellow clay; blue clay & shells	
48	68	Bule clay, shells & sand	
68	88	Shells & blue mud sand	
88	108	Shells & gray mud	
108	128	Shells & gray mud	
124	148	Shells, sand & gray mud	
148	168	Gray mud, sand & shells	
168	188	Gray mud, sand & shell	
188	208	Gray mud	
208	228	Gray mud	
228	248	Gray mud	
248	268	Gray mud & shells	
268	288	Gray & brownish mud shells & blue rock (about 280)	
288	308	Blue rock, gray & white mud streak & yellow rock	
308	328	Black sand & black mud	

(Use additional forms if necessary)

Owner: James City Co.
Driller: Gammon
County: James City Co.

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Total Depth: 440'
Quad:
Elev:

<u>Depth</u> <u>(feet)</u>	<u>Well Log</u>
0-20	Sand - grayish orange (10YR 7/4); abundant clay; fine to very coarse, subangular, moderate sorting; feldspar.
20-60	Gravel - mixed colors; moderate clay; fine to rounded pebbles (20mm), subangular, poor sorting; 10% coquina fragments and few at 40-60', few to 10% large shell fragments - <u>Plicatula</u> .
60-120	Gravel, Shelly - mixed colors; 90% shell fragments - <u>Venicardia</u> , <u>Turritella</u> ; medium to pebble at 60-80' and fine to very coarse at 80-120', subrounded at 60-80' and subangular and subrounded, poorly sorted; rare coquina fragments; rare glauconite; echinoid spines; mica.
120-140	Sand, Shelly - light olive gray (5Y 6/1); 50% shell fragments; abundant clay; fine to granule, subangular, moderate sorting; forams.
140-180	Sand - light olive gray (5Y 6/1); abundant clay; fine to very coarse, subangular, moderate sorting; forams; 40% shell fragments at 40-60' and 30% at 60-80'; rare glauconite at 60-80'; echinoid spines; bone fragments.
180-200	Sand, Shelly - light olive gray (5Y 6/1); 50% shell fragments; abundant clay; fine to coarse, subangular, moderate sorting; rare glauconite; foram - <u>Amphistegina</u> ; echinoid spines; mica.
200-220	Sand - light olive gray (5Y 6/1); abundant clay; fine to coarse, subangular, moderate sorting; rare glauconite; 40% shell fragments - <u>Crasswella</u> ; forams; echinoid spines.
220-240	Sand, Shelly - light olive gray (5Y 6/1); 50% shell fragments; abundant clay; fine to coarse, subangular, moderate sorting; rare glauconite; forams; shark teeth; mica.
240-280	Sand - light olive gray (5Y 5/1); abundant clay; fine to very coarse with rounded granule sand pebbles, subangular, moderate sorting; few to 10% glauconite/bone fragments/phosphate fragment; 30% shell fragments; echinoid spines; mica.
280-300	Sand - light olive gray (5Y 5/1); abundant clay; fine to granule, subangular, moderate sorting; 10% glauconite/phosphate fragments; 15% fine shell fragments; forams; echinoid spines; mica.

Owner: James City Co.

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Total Depth: 440'

Depth
(feet)

- 300-320 Sand, Glauconitic - light and dark brown; 80% medium to granule, weathered, brown glauconite; sparse clay; medium to pebble, subrounded to rounded, poor sorting; 10% shell fragments.
- 320-340 Sand - light olive gray (5Y 6/1); moderate clay; fine to very coarse, subangular, poorly sorted; rare glauconite; 5% shell fragments; crab chela.
- 340-360 Sand, Glauconitic - light and dark brown 70% glauconite; sparse clay; fine to pebble, subangular to rounded; poorly sorted; 5% shell fragments; crab chela.
- 360-380 Sand, Glauconitic - light and dark brown; 80% glauconite; sparse clay; fine to very coarse, subangular and rounded, moderately sorted; foram - Amphistegina; 3% shell fragments; rose quartz.
- 380-400 Sand, Glauconitic - light and dark brown, 70% glauconite; medium to coarse, subangular and subrounded, moderate sorting; forams; rose quartz.
- 400-420 No sample.
- 420-440 Sand, Glauconitic - light and dark green; 90% glauconite, green; medium to very coarse, subangular & subrounded, moderate sorting; 1% shell fragments.

Logged by: J. K. Polzin
Nov 21, 1980