

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

W#: 4255
C#: 80

MAILING ADDRESS:

DIVISION OF MINERAL RESOURCES

OFFICE ADDRESS:

Box 3667
Charlottesville, VA 22903

JAMES L. CALVER, COMMISSIONER

McCormick Road
Charlottesville, Virginia

WATER WELL COMPLETION REPORT

OWNER: Thomas M. Brooks Mailing Address: Quinton, VA

TENANT: Five Lakes #2 Mailing Address: _____

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

WELL LOCATION: County New Kent Approx. 5 ~~feet~~ miles North (direction) of
Rt. 33 and 5 ~~feet~~ miles South (direction) of Pumunkey River at
Whitehouse Landing

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

DATE STARTED: 5/27/74 DATE COMPLETED: 6/4/74

TYPE OF DRILL RIG USED: Rotary TOTAL DEPTH 398 feet

WATER LEVEL: Stands 170 feet below surface OR
has NATURAL flow of _____ gallons per minute.

YIELD TEST: Method Submersible pump

Drawdown 0 feet

Rate 160 gal. per min.

Duration 24 hrs., _____ min.

HOLE SIZE: 12 inches from 0 to 368 feet

6 inches from 368 to 398 feet

_____ inches from _____ to _____ feet

SCREEN SIZE: 4 inches from 368 to 398 feet

_____ inches from _____ to _____ feet

_____ inches from _____ to _____ feet

WATER ZONES: from 368 to 398 feet

from _____ to _____ feet

from _____ to _____ feet

CASE SIZE: 6 inches from 0 to 368 feet

_____ inches from _____ to _____ feet

_____ inches from _____ to _____ feet

WATER: Color _____ Taste _____

Odor _____ Temp. _____ °F

WELL TO SUPPLY: (check one) Home _____

Farm _____ Town _____ School _____

Industry _____ Other Subdivision

GROUTING: Method Pumped

Material Cement Depth 50 feet

PUMP: Type Submersible

Capacity 135 gal. per min

Depth of intake 265 feet

WATER ANALYSIS AVAILABLE: Yes X No _____

DRILL CUTTINGS SAVED: 20 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: _____

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	23	Red Clay & Red Sand	
23	36	Red Sand & Yellow Sand	
36	58	Reddish Brown Sand & Some Shells	
58	80	Brown Sand, Blue Sand & Shells	
80	102	Runny Blue Sand & Shells	
102	124	Runny Blue Sand, Small gravel shells	
124	146	Blue mud, yellow mud & blue sand	
146	168	Blue mud, Yellow Mud & Blue Sand & shells	
168	190	Blue mud, gravel & shells	
190	212	Gravel, shells, Limestone, shale	
212	234	Limestone, shale, gravel, shells & blue mud	
234	254	Gravel, shells, white & gray mud, Black sand	
254	274	Same as above	
274	294	Gray & blue mud, red mud, shells, some gravel	
294	314	Gray & blue mud, red mud, some shells & shale	
314	334	Black mud, red & gray mud, & some shells	
334	354	Black & gray mud, sand clay	
354	364	Water sand	
364	385	Water sand	
385	398	Water sand	

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

INTERVAL SHEET

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Well Repository No: W#: 4255
 C#: 80

Date rec'd: 9/30/74 Date Processed: 9/23/75

Sample Interval: from: - to: -

PROPERTY: Thomas M. Brooks

Number of samples: 0 398
 20

COMPANY: W. H. Gammon

Total Depth: 398'

COUNTY: New Kent (Tallysville)

Oil or Gas: Water: Exploratory:

From-To	From-To	From-To	From-To
0- 23	-	-	-
23- 36	-	-	-
36- 58	-	-	-
58- 80	-	-	-
80- 102	-	-	-
102- 124	-	-	-
124- 146	-	-	-
146- 168	-	-	-
168- 190	-	-	-
190- 212	-	-	-
212- 234	-	-	-
234- 254	-	-	-
254- 274	-	-	-
274- 294	-	-	-
294- 314	-	-	-
314- 334	-	-	-
334- 354	-	-	-
354- 364	-	-	-
364- 385	-	-	-
385- 398	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

All internals have both washed & unwashed samples.

OWNER: Thomas M. Brooks
DRILLER: W. H. Gammon
COUNTY: New Kent

W#: 4255
C#: 80
TOTAL DEPTH: 398'
QUAD: Tunstall

GEOLOGIC LOG

Depth
(feet)

- 0-23 Sand — dark yellowish orange; slightly stained; slighty clayey; fine to medium grained; subangular to subrounded; moderately well sorted; quartz; feldspar; few grains of glauconite; few opaques.
- 23-36 Sand — moderate orange pink; slightly stained; fine to medium grained; subangular to subrounded; well sorted; quartz; feldspar; few shell fragments; few grains of glauconite.
- 36-58 Sand — light grayish orange; fine to medium grained; subangular to subrounded; moderately well sorted; quartz; feldspar; some glauconite; few opaques; few shell fragments;
- 58-80 Sand — light olive gray; fine to medium grained; subangular to subrounded; moderately well sorted; quartz; 7% shell fragments; some black phosphatic material; some spines; few grains of glauconite; ferricrete.
- 80-102 Sand — light olive gray; very fine to medium grained, some coarse grains; subangular to subrounded; moderately sorted; quartz; 7% shell fragments; some black phosphatic material; muscovite; few grains of glauconite; few grains of feldspar.
- 102-124 Sand — off white; medium to coarse grained; subangular to subrounded; well sorted; quartz; 7% shell fragments; feldspar; some ferricrete; few spines; few black phosphatic fragments.
- 124-146 Sand and clay — olive light gray; moderate clay; abundant sand; very fine to fine grained, some medium grains; subangular to subrounded; moderately well sorted; quartz; 5% shell fragments; muscovite; few black phosphatic fragments; few grains of glauconite.
- 146-168 Sand — light olive brown; abundant clay-olive light gray, very dark yellowish orange; very fine to medium grained, some coarse grains; subangular to subrounded; moderately sorted; quartz; 5% shell fragments; some black phosphatic material; few grains of glauconite.
- 168-190 Sand — off white; slightly clayey; medium to very coarse grained, some fine grains, few granules; subangular to subrounded; poorly sorted; quartz; 10% shell fragments; 3% black phosphatic material; forams abundant (inc. Buccella, Textularia, Robulus, and Cibicides); some spines; few grains of glauconite; few bone fragments. (note: most forams are badly damaged and unidentifiable).

Depth
(feet)

- 190-212 Sand — olive light gray; slightly clayey; fine grained to granular; subangular to rounded; poorly sorted; quartz; 35% sandy limestone and shell fragments; 15% glauconite (black, green); forams abundant (inc. Buccella, Discorbis, Textularia, Cibicides, Quinqueloculina, and Globulina); some spines; some pyrite; few bone fragments; few gypsum crystals; ostracodes.
- 212-234 Coquina — light olive gray; slightly clayey; moderate sand; fine to coarse grained; subangular to rounded; moderately sorted; 75% sandy limestone and shell fragments; quartz; glauconite 20% of sand sized fraction; forams common (inc. Buccella, Robulus, and Guttulina); few black phosphatic fragments; few spines; pyrite.
- 234-254 Sand — olive light gray; slightly clayey; very fine to coarse grained, some granules; subangular to rounded; poorly sorted; quartz; 25% glauconite (black, green); 20% sandy limestone and shell fragments; forams common (inc. Robulus, Buccella, Textularia, and Discorbis); muscovite; few spines; ostracode.
- 254-274 As above except 30% glauconite; 15% sandy limestone and shell fragments; forams (inc. Robulus, Buccella, and Nonion).
- 274-294 As above plus some moderate orange pink; 10% granules; forams (inc. Robulus).
- 294-314 Sand — olive gray; moderate clay - olive gray, moderate orange pink (clasts); fine to medium grained, some granules; subangular to rounded; moderately well sorted; 70% glauconite; quartz; 2% shell fragments; forams scarce (inc. Nodosaria); shark's tooth.
- 314-334 Sand — olive gray; moderate clay-olive gray, moderate orange pink (clasts); fine to medium grained; subangular to rounded; moderately sorted; 50% glauconite (black, green); quartz; some muscovite; few shell fragments; few sandy limestone fragments.
- 334-354 As above except 65% glauconite; no sandy limestone.
- 354-364 Sand — salt and pepper; medium grained, few granules; subangular to subrounded; well sorted; quartz; feldspar; 10% glauconite; muscovite.
- 364-385 Sand — white; medium to coarse grained; subangular to subrounded; moderately well sorted; quartz; feldspar; some glauconite; few grains of garnet.
- 385-398 As above.