

COMMONWEALTH OF VIRGINIA  
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

W#: 3276  
C#: 214

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: Sandy Point Manor #1 Mailing Address: Smithfield, Va.

TENANT: \_\_\_\_\_ Mailing Address: \_\_\_\_\_

DRILLER: R. L. Magette Mailing Address: Smithfield, VA.

WELL LOCATION: County Isle of Wight Approx. \_\_\_\_\_ feet miles (direction) of \_\_\_\_\_  
Route 620 at Smithfield and \_\_\_\_\_ feet miles (direction) of \_\_\_\_\_

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

DATE STARTED: June 1, 1971 DATE COMPLETED: June 10, 1971

TYPE OF DRILL RIG USED: Hydraulic Rotary TOTAL DEPTH 474 feet (drilled 515')

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

YIELD TEST: Method Pump  
Drawdown 20 feet  
Rate 200 gal. per min.  
Duration \_\_\_\_\_ hrs., \_\_\_\_\_ min.

HOLE SIZE: 12 inches from 0 to 50 feet  
9 inches from 50 to 474 feet  
SCREEN SIZE: 4 inches from 454 to 474 feet

WATER ZONES: from 454 to 474 feet  
from \_\_\_\_\_ to \_\_\_\_\_ feet  
from \_\_\_\_\_ to \_\_\_\_\_ feet

CASE SIZE: 6 inches from +1 to 474 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 X

GROUTING: Method \_\_\_\_\_  
Material Cement Depth 50 feet

WATER ANALYSIS AVAILABLE: Yes X No \_\_\_\_\_

PUMP: Type Submersible  
Capacity 100 gal per min  
Depth of intake 147 feet

DRILL CUTTINGS SAVED: 52 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: Magette

DATE: \_\_\_\_\_

| DEPTH<br>(feet) |     | TYPE OF ROCK OR SOIL PENETRATED<br>(gravel, clay, etc., hardness, color, etc.) | REMARKS<br>(water, caving, shot, screen, sample, etc.) |
|-----------------|-----|--|--|
| FROM            | TO  |  |  |
| 0               | 10  | Top soil, sand and clay  |  |
| 10              | 20  | Sand and clay  |  |
| 20              | 30  | Shell, sand and clay   |  |
| 30              | 40  | Clay and shell   |  |
| 40              | 50  | Shell, sand and some clay  |  |
| 50              | 60  | Shell and clay   |  |
| 60              | 70  | Shell and clay   |  |
| 70              | 80  | Shell and clay   |  |
| 80              | 90  | Shell and clay   |  |
| 90              | 100 | Shell and clay   |  |
| 100             | 109 | Shell and clay   |  |
| 109             | 119 | Shell and clay   |  |
| 119             | 129 | Shell and clay   |  |
| 129             | 139 | Shell and clay   |  |
| 139             | 149 | Shell and sand and clay  |  |
| 149             | 159 | Shell, sand and clay   |  |
| 159             | 169 | Shell, sand and clay   |  |
| 169             | 179 | Shell, sand and clay   |  |
| 179             | 189 | Shell, sand and clay   |  |
| 189             | 199 | Shell, sand and clay   |  |
| 199             | 208 | Clay, sand and shell   |  |
| 208             | 218 | Clay, sand and shell   |  |
| 218             | 228 | Clay, sand and shell   |  |
| 228             | 238 | Clay, sand and shell   |  |
| 238             | 248 | Clay and shell   |  |
| 248             | 258 | Clay and shell   |  |
| 258             | 268 | Clay, shell and sand   |  |
| 268             | 278 | Clay, shell and sand   |  |
| 278             | 288 | Clay, shell and black sand   |  |
| 288             | 289 | Clay, shell and black sand   |  |
| 298             | 307 | Clay, shell and black sand   |  |
| 307             | 317 | Clay, shell and black sand   |  |
| 317             | 327 | Black sand and shell   |  |
| 327             | 337 | Black sand and shell   |  |
| 337             | 347 | Black sand and shell   |  |
| 347             | 357 | Black and white sand   |  |
| 357             | 367 | Black and white sand   |  |
| 367             | 377 | White sand, shell and black sand   |  |
| 377             | 387 | Water sand   |  |
| 387             | 397 | Water sand   |  |
| 397             | 406 | Clay and sand  |  |
| 406             | 426 | Fine sand and clay   |  |
| 426             | 436 | Fine sand and clay   |  |
| 436             | 446 | Med. sand and clay   |  |
| 446             | 456 | Med. sand and clay   |  |
| 456             | 466 | Med. sand and clay   |  |
| 466             | 476 | Med. sand and clay   |  |
| 476             | 486 | Coarse sand  |  |
| 486             | 496 | Coarse sand  |  |
| 496             | 505 | Fine sand and clay   |  |
| 505             | 515 | Fine sand and clay   |  |

(Use additional forms if necessary)

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

INTERVAL SHEET

Page 1 of 1

Well Repository No: W#: 3276  
 C#: 214

Date rec'd: 6-25-70 Date Processed: 10-13-71

Sample Interval: from 10 to 515'

PROPERTY: Sandy Point Manor, Well #1

Number of samples: 52

COMPANY: R. L. Magette Co.

Total Depth: 515'

COUNTY: Isle of Wight (Smithfield)

Oil or Gas: Water \* Exploratory:

| From-To | From-To | From-To | From-To |
|---------|---------|---------|---------|
| - 10    | - 258   | - 505   | -       |
| - 20    | - 268   | - 515   | -       |
| - 30    | - 278   | -       | -       |
| - 40    | - 288   | -       | -       |
| - 50    | - 298   | -       | -       |
| - 60    | - 307   | -       | -       |
| - 70    | - 317   | -       | -       |
| - 80    | - 327   | -       | -       |
| - 90    | - 337   | -       | -       |
| -100    | - 347   | -       | -       |
| -109    | - 357   | -       | -       |
| -119    | - 367   | -       | -       |
| -129    | - 377   | -       | -       |
| -139    | - 387   | -       | -       |
| -149    | - 397   | -       | -       |
| -159    | - 406   | -       | -       |
| -169    | - 416   | -       | -       |
| -179    | - 426   | -       | -       |
| -189    | - 436   | -       | -       |
| -199    | - 446   | -       | -       |
| -208    | - 456   | -       | -       |
| -218    | - 466   | -       | -       |
| -228    | - 476   | -       | -       |
| -238    | - 486   | -       | -       |
| -248    | - 496   | -       | -       |

All intervals have both washed and unwashed samples.

OWNER: Sandy Point Manor #1  
DRILLER: R. L. Magette  
COUNTY: Isle of Wight  
(Smithfield)

W#: 3276  
C#: 214  
TOTAL DEPTH: 515'  
QUAD: Smithfield

GEOLOGIC LOG

Depth  
(feet)

- 0-10 Sand — light brownish gray; slightly clayey; very fine to medium grained; subangular to subrounded; moderately sorted; quartz; feldspar; 2% shell fragments; some glauconite; some black phosphatic material; some opaques.
- 10-20 As above except 10% shell fragments; 2% ferricrete.
- 20-30 As above plus some dark yellowish orange clay; 2% shell fragments.
- 30-40 Sand — light brownish gray; moderate clay — light brownish gray, dark yellowish orange (clasts); fine to medium grained; subangular to subrounded; moderately well sorted; quartz; feldspar; 7% shell fragments; some ferricrete; some glauconite.
- 40-50 Sand — light olive gray; slightly clayey; fine to coarse grained; subangular to subrounded; moderately sorted; quartz; 35% shell fragments; spines; some glauconite; few grains of feldspar; few black phosphatic fragments; forams (inc. Quinqueloculina).
- 50-60 Sand — olive light gray; moderate clay — olive light gray, light brownish gray; very fine to medium grained; subangular to subrounded; moderately sorted; quartz; 10% shell fragments inc. gastropod; spines; some black phosphatic material; forams (inc. Nonion).
- 60-70 Sand — light brownish gray; slightly clayey; fine to medium grained, some coarse grains; subangular to subrounded; moderately sorted; quartz; feldspar; 5% shell fragments; some glauconite; few spines.
- 70-80 Sand — olive light gray; moderate clay; very fine to medium grained; subangular to subrounded; moderately sorted; quartz; 12% shell fragments; some glauconite; spines; few grains of feldspar; few black phosphatic fragments; ostracode.
- 80-90 As above plus forams.
- 90-100 As above except 15% shell fragments.

Depth  
(feet)

- 100-109 Sand — olive light gray; moderate clay; fine to medium grained; moderately well sorted; quartz; 10% shell fragments; some black phosphatic material; few grains of glauconite; forams (inc. Quinqueloculina, Amphistegina and Buccella); few grains of feldspar.
- 109-119 Sand — olive light gray; moderate clay; fine to medium grained; subangular to subrounded; moderately well sorted; quartz; 25% shell fragments; some black phosphatic material; some glauconite; forams (inc. Quinqueloculina and Nonion); few grains of feldspar; ostracode.
- 119-129 Sand — olive light gray; moderate clay; fine to medium grained, some coarse grains; subangular to subrounded; moderately sorted; quartz; 15% shell fragments; 3% glauconite; some black phosphatic material; muscovite; few grains of feldspar; forams (inc. Nonion and Buccella).
- 129-139 As above except 20% shell fragments; no Buccella.
- 139-149 Sand — olive light gray; moderate clay; very fine to medium grained; subangular to subrounded; moderately sorted; quartz; 15% shell fragments; 2% glauconite; some black phosphatic material; muscovite; feldspar; forams scarce (inc. Quinqueloculina and Textularia); few spines; ostracode.
- 149-159 As above except some spines; forams (inc. Quinqueloculina, Textularia, and Buccella).
- 159-169 As above except 20% shell fragments; ostracodes; forams scarce (inc. Quinqueloculina).
- 169-179 As above except 10% shell fragments; few sandy limestone fragments.
- 179-189 Sand — olive light gray; moderate clay; very fine to medium grained; subangular to subrounded; moderately sorted; quartz; 25% shell fragments; 2% glauconite; some black phosphatic material; few spines; foram.
- 189-199 As above except forams (inc. Robulus and Buccella); ostracode.
- 199-208 Sand — olive light gray; moderate clay; very fine to medium grained; subangular to subrounded; moderately sorted; quartz; 20% shell fragments; 3% glauconite; some black phosphatic material; few spines; forams rare (inc. Robulus).
- 208-218 As above except 5% shell fragments; ostracode.
- 218-228 As above except some coarse grains; poorly sorted; 20% shell fragments; few grains of feldspar; no Robulus.

Depth  
(feet)

- 228-238 Sand — olive light gray; moderate clay; very fine to coarse grained; subangular to subrounded; poorly sorted; quartz; 15% shell fragments; 3% glauconite; some black phosphatic material; few grains of feldspar; few spines.
- 238-248 Sand — olive light gray; abundant clay — olive light gray, light brownish gray; very fine to coarse grained; subangular to subrounded; poorly sorted; quartz; 12% shell fragments; 2% black phosphatic material inc. shark's tooth; some glauconite; few grains of feldspar; forams (inc. Nonion, Robulus, Urigerina, and Dentalina).
- 248-258 Sand — olive light gray; moderately clay; fine to very coarse grained; subangular to subrounded; poorly sorted; quartz; 15% shell fragments; 3% black phosphatic material inc. shark's teeth; some glauconite; forams (inc. Nonion and Dentalina).
- 258-268 Sand — olive light gray; slightly clayey; medium to coarse grained; subangular to subrounded; moderately well sorted; quartz; 5% black phosphatic material; 5% shell fragments; some glauconite; few grains of feldspar.
- 268-278 As above except 7% shell fragments; 3% black phosphatic material.
- 278-288 Sand — olive light gray; slightly clayey; medium to very coarse grained; subrounded to rounded; moderately sorted; quartz; 30% glauconite (brown, black, green); 10% shell fragments; some black phosphatic material; pyrite.
- 288-298 As above except 5% shell fragments; bone fragments.
- 298-307 Sand — olive light gray; slightly clayey; medium to coarse grained; rounded; moderately well sorted; 55% glauconite (brown, black); quartz; 2% shell fragments; forams rare (inc. Marginulina).
- 307-317 Sand — olive light gray; slightly clayey; medium to coarse grained; subrounded to rounded; moderately well sorted; 45% glauconite; quartz; 3% shell fragments.
- 317-327 Sand — dark greenish gray; slightly clayey; coarse grained, some medium grains; rounded; well sorted; 98% glauconite (green, black, brown); quartz; few shell fragments; pyrite.
- 327-337 As above except 97% glauconite; some shell fragments.

Depth  
(feet)

- 337-347 Sand — dark greenish gray; slightly clayey; medium grained; rounded; well sorted; 70% glauconite; quartz; some shell fragments; pyrite.
- 347-357 As above except some very coarse grains; moderately well sorted; few grains of garnet.
- 357-367 Sand — salt and pepper; slightly clayey; medium to very coarse grained, few granules; subrounded to rounded; moderately sorted; quartz; 30% glauconite; feldspar; some shell fragments; muscovite.
- 367-377 As above except some granules.
- 377-387 Sand — salt and pepper; slightly clayey; medium to coarse grained; subrounded; moderately sorted; quartz; feldspar; 7% glauconite; few shell fragments.
- 387-397 Sand — salt and pepper; slightly clayey; medium to very coarse grained, 15% granules; subrounded to rounded; poorly sorted; quartz; 35% glauconite; feldspar; few shell fragments.
- 397-406 Sand — light olive gray; slightly clayey; fine to coarse grained, 5% granules; subangular to rounded; poorly sorted; quartz; 35% glauconite; feldspar; some shell fragments; muscovite.
- 406-416 As above.
- 416-426 Sand — light olive gray; slightly clayey; medium to coarse grained, some granules; subangular to subrounded; moderately sorted; quartz; feldspar; 10% glauconite; few shell fragments; muscovite.
- 426-436 As above except some shell fragments.
- 436-446 As above except 3% glauconite.
- 446-456 As above except 5% glauconite.
- 456-466 As above.
- 466-476 As above
- 476-486 Granules — light olive gray; slightly clayey; abundant medium grained sand; subrounded; moderately sorted; quartz; feldspar; 3% glauconite; some muscovite; garnet.

OWNER: Sandy Point Manor #1 -5-

W#: 3276

Depth  
(feet)

486-496 Sand — light olive gray; slightly clayey (some clasts); medium grained to granular, some fine grains; poorly sorted; quartz; feldspar; 10% glauconite; some shell fragments; muscovite; few grains of garnet.

496-505 As above except fine to coarse grained, 7% granules.

505-515 As above.

Logged by: Michael T. Currie

GEOLOGIC SUMMARY

| <u>Depth</u><br><u>(feet)</u> | <u>Thickness</u><br><u>(feet)</u> | <u>Rock Unit</u>                | <u>Time Rock Unit</u> |
|-------------------------------|-----------------------------------|---------------------------------|-----------------------|
| 0-40                          | 40                                | Windsor Formation               | Pleistocene           |
| 40-139                        | 99                                | Yorktown Formation              | Pliocene-Miocene      |
| 139-278                       | 139                               | Calvert Formation               | Miocene-Eocene        |
| 278-357                       | 79                                | Nanjemoy-Mattaponi<br>Formation | Eocene-Cretaceous     |
| 357-515                       | 58+                               | Patuxent Formation              | Cretaceous            |

VIRGINIA DIVISION OF MINERAL RESOURCES  
David A. Hubbard, Jr., Geologist  
September 18, 1978