

COMMONWEALTH OF VIRGINIA  
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

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

3976 Butler Dr.  
Suffolk, Virginia 23437

OWNER: Samuel M. Barnes Mailing Address: \_\_\_\_\_

TENANT: Samuel M. Barnes Mailing Address: \_\_\_\_\_

DRILLER: Mitchell's Well & Pump Co., Inc. Mailing Address: 16815 Happy Hill Rd. Colonial Heights, Va. 23834

WELL LOCATION: County Suffolk City, Va. Approx. \_\_\_\_\_ feet miles \_\_\_\_\_ (direction) of \_\_\_\_\_ 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: October 1974 DATE COMPLETED: October 1974

TYPE OF DRILL RIG USED: Cable Tool TOTAL DEPTH 300 feet

WATER LEVEL: Stands 300 feet below surface OR

has NATURAL flow of \_\_\_\_\_ gallons per minute.

YIELD TEST: Method pumped

Tested with 126' of pump pipe

Rate 20 gal. per min.

Duration 6 hrs., \_\_\_\_\_ min.

Not continuous

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

from \_\_\_\_\_ to \_\_\_\_\_ feet

from \_\_\_\_\_ to \_\_\_\_\_ feet

WATER: Color \_\_\_\_\_ Taste \_\_\_\_\_

Odor \_\_\_\_\_ Temp. \_\_\_\_\_ °F

WELL TO SUPPLY: (check one) Home

Farm \_\_\_\_\_ Town \_\_\_\_\_ School \_\_\_\_\_

Industry \_\_\_\_\_ Other \_\_\_\_\_

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

DRILL CUTTINGS SAVED: Yes  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: 3' of gravel in bottom.

HOLE SIZE: 4 inches from 0 to 300 feet

\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet

\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet

SCREEN SIZE: 4 inches from 287 to 297 feet with blank above

\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet

\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet

CASE SIZE: 4 inches from 0 to 274 feet

\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet

\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet

GROUTING: Method \_\_\_\_\_

Material \_\_\_\_\_ Depth \_\_\_\_\_ feet

PUMP: Type \_\_\_\_\_

Capacity \_\_\_\_\_ gal per min

Depth of intake \_\_\_\_\_ feet

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	10	grayish dirt	SAMPLE # 1
10	20	gray dirt	2
20	30	ditto	3
30	40	ditto	4
40	50	gray mud-shell fragments	5
50	60	ditto	6
60	70	ditto	7
70	80	ditto	8
80	90	ditto	9
90	100	ditto	10
100	110	ditto	11
110	120	ditto	12
120	130	ditto	13
130	140	ditto	14
140	150	ditto	15
150	160	gray dirt	16
160	170	gray mud-shell fragments	17
170	180	ditto	18
180	190	dark gray dirt-shell	19
190	200	ditto	20
200	210	ditto	21
210	220	dark gray dirt	22
220	230	black and white gravel	23
230	240	ditto	24
240	250	gray dirt	25
250	260	ditto	26
260	270	gray mud	27
270	280	gray sand	28
280	290	black and white	29
290	300	ditto	30

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

INTERVAL SHEET

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Date rec'd: 1/3/75 Date Processed: 1/8/76

PROPERTY: Samuel M. Barnes

COMPANY: Mitchell

COUNTY: Nansemond (Suffolk)

Well Repository No.: W- 4284  
 C- 190

Sample Interval: from 0 to: 300'

Number of samples: 30'

Total Depth: 300'

Oil or Gas: Water: X Exploratory:

From-To	From-To	From-To	From-To	From-To
0-10	-	-	-	-
10-20	-	-	-	-
20-30	-	-	-	-
30-40	-	-	-	-
40-50	-	-	-	-
50-60	-	-	-	-
60-70	-	-	-	-
70-80	-	-	-	-
80-90	-	-	-	-
90-100	-	-	-	-
100-110	-	-	-	-
110-120	-	-	-	-
120-130	-	-	-	-
130-140	-	-	-	-
140-150	-	-	-	-
150-160	-	-	-	-
160-170	-	-	-	-
170-180	-	-	-	-
180-190	-	-	-	-
190-200	-	-	-	-
200-210	-	-	-	-
210-220	-	-	-	-
220-230	-	-	-	-
230-240	-	-	-	-
240-250	-	-	-	-
250-260	-	-	-	-
260-270	-	-	-	-
270-280	-	-	-	-
280-290	-	-	-	-
290-300	-	-	-	-

Both Washed and unwashed samples.

Owner: Samuel M. Barnes  
Driller: Mitchell  
County: Nansemond (Suffolk)

W# 4284  
C# 190  
Total Depth: 300'  
Quad: Gates  
Elev: 77'

Depth  
(feet)

WELL LOG

- 0-10 Sand - Very pale orange (10yr 8/2); medium to subangular, well sorted.
- 10-20 Sand - Light olive gray (5y 6/1); medium to coarse, subangular, well sorted.
- 20-30 Sand - Light olive gray (5y 6/1); very sparse clay; medium to coarse, subangular, well sorted.
- 30-40 Sand - Light olive gray (5y 6/1); sparse clay, darker in color; medium to very coarse, subangular, well sorted.
- 40-60 Sand - Light olive gray (5y 6/1); sparse clay; fine to medium, subangular, well sorted; 8-25% fine shell fragments - Mulina; Forams-Robulus, Nonion; Diatom; Echinoderm spines.
- 60-70 Sand, Shelly - Light olive gray (3y 6/1); 50% shell fragments; large sparse clay; fine to medium, subangular, well sorted; Forams.
- 70-90 Sand - Light olive gray (5y 6/1); sparse clay; fine to medium, subangular, well sorted; 20-10% large shell fragments and shells; Forams.
- 90-100 Sand - Light olive gray (5y 6/1); moderate clay in Pellets; fine, subangular, well sorted; 40% shell fragments; Mica.
- 100-110 Clay - Light olive gray (5y 6/1); sparse sand, fine, subangular, well sorted; 8% fine shell fragments.
- 110-130 Sand - Light olive gray (5y 6/1); abundant clay; fine to very coarse, subrounded, moderate sorting; 30-40% shell fragments-Nucula, Drilla, Snails.
- 130-140 Sand, Shelly - Light olive gray (5y 6/1); 50% shell fragments; abundant clay; fine to very coarse with some granules, subrounded, moderate sorting.
- 140-150 Sand - Light olive gray (5y 6/1); abundant clay in clasts; fine to very coarse with some granules, subrounded, moderate sorting; 30% fine shell fragments.
- 150-160 Sand - Light olive gray (5y 5/2); sparse clay in clasts; medium, subangular, well sorted; 35% Very fine glauconite; 1% shell fragments.

Owner: Samuel M. Barnes  
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W# 4287  
C# 190

- Depth  
(feet)
- 160-170 Sand - Light olive gray (5y 5/2); abundant clay in Pellets and clasts; medium to very coarse, subangular, moderate sorting; very fine phosphate ~~nodules~~ nodules; 15% shell fragments.
- 170-180 Sand - Light olive gray (5y 5/2); sparse clay; medium, *grained*, subangular, well sorted; 35% very fine glauconite; 1% shell fragments.
- 180-190 Sand - Light olive gray (5y 5/2); sparse clay; fine to coarse, mostly coarse, subangular, well sorted; 10% fine phosphate fragments.
- 190-210 Sand - Light olive gray (5y 5/2); sparse clay; fine to very coarse, angular and subangular, moderate sorting; 15% fine phosphate fragments; 10% fine shell fragments; garnet at 200-210'.
- 210-220 Sand - Olive black (5y 2/1); 90% glauconite; very sparse clay; medium to very coarse, subangular, poor sorting.
- 220-230 Sand - Light and dark green; 40% fragments of bioclastic limestone with sand/glauconite; ~~medium to very coarse~~ medium to very coarse, subangular, poor sorting; rare shell fragments; Forams-Nonion; Rose Quartz; Pyrite; Garnet.
- 230-240 Sand, \* Glauconitic - Light and dark green; 50% glauconite; fine to granule, subangular to subrounded, poorly sorted; 30% shell fragments; few limestone clasts; feldspar.
- 240-250 Sand - Light and dark green; 80% glauconite; sparse clay; fine to very coarse, subangular to subrounded, moderate sorting; shark teeth; rose quartz.
- 250-270 Sand - Olive gray (5y 4/1); abundant clay in pellets; medium to very coarse, angular and subangular, moderate sorting; 30% glauconite; diatoms at 260-270'; Forams-Sphogenerina, Nodosaria, Lagena, Nonion; Ostracods; Garnet.
- 270-280 Sand - Light olive gray (5y 5/1); sparse clay; medium to granule, subangular, poorly sorted; 30% glauconite; Forams-1% Nodosaria; feldspar; garnet.
- 280-300 Sand - Light olive gray (5y 5/1); medium to very coarse, angular and subangular, moderate sorting; 40% glauconite; Forams; Rose Quartz; feldspar; garnet.

Logged by:  
J. K. Polzin  
Nov. 18, 1980