

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

W-3275
C-181

MAILING ADDRESS:

B-3667
Charlottesville, VA 22903

DIVISION OF MINERAL RESOURCES

JAMES L. CALVER, COMMISSIONER

OFFICE ADDRESS:

McCormick Road
Charlottesville, Virginia

WATER WELL COMPLETION REPORT

OWNER: Tidewater Water Company Mailing Address: Nansemond, VA

TENANT: Nansemond Shores #2 Mailing Address: _____

DRILLER: R. L. Magett Company Mailing Address: Smithfield, VA

WELL LOCATION: County Nansemond Approx. _____ ^{feet}/_{miles} (direction) of _____
Driver 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: March 25, 1971 DATE COMPLETED: April 9, 1971

TYPE OF DRILL RIG USED: _____ TOTAL DEPTH 655 feet

WATER LEVEL: Stands 40 feet below surface OR
has NATURAL flow of _____ gallons per minute.

YIELD TEST: Method _____
Drawdown 30 feet
Rate 200 gal. per min.
Duration _____ hrs., _____ min.

HOLE SIZE: 12 inches from _____ to _____ feet
9 inches from _____ to _____ feet
6 inches from _____ to _____ feet

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

SCREEN SIZE: _____ inches from 615 to 635 feet
_____ inches from _____ to _____ feet
_____ inches from _____ to _____ feet
CASE SIZE: _____ inches from _____ to _____ 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 _____
Material _____ Depth _____ feet

WATER ANALYSIS AVAILABLE: Yes _____ No _____
DRILL CUTTINGS SAVED: Yes 32 No _____

PUMP: Type Submersible
Capacity 150 gal per min
Depth of intake 105 feet

(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	20	Top soil, sand and clay	
20	41	Sand and shell	
41	61	Sand, shell and some clay	
61	82	Black sand and shell	
82	102	Black sand and shell	
102	122	Black sand and shell	
122	143	Fine sand	
143	163	Fine sand	
163	184	Fine sand, shell and some clay	
184	204	Fine sand, shell and some clay	
204	224	Fine sand, shell and some clay	
224	245	Clay and shell	
245	265	Clay and shell	
265	285	Clay and shell	
285	306	Clay	
306	326	Clay	
326	347	Clay, shell and sand	
347	368	Black sand and clay	
368	388	Black sand and clay	
388	409	Black sand and clay	
409	429	Black sand, shell, rock and some clay	
429	450	Black sand, shell, and clay and rock	
450	471	Black sand, shell and clay	
471	492	Shell, black sand and clay	
492	512	Shell, black sand and clay	
512	522	Shell, black sand and clay	
522	532	Water bearing sand	
532	553	Water bearing sand with clay streaks	
553	574	Water bearing sand	
574	595	Water bearing sand with clay streaks	
595	615	All colors of clay and some sand	
615	635	Water bearing sand	
635	655	Water bearing sand	

(Use additional forms if necessary)

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

INTERVAL SHEET

Page 1 of 1

Well Repository No.: C-181
 W-3275

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

Sample Interval: from 20 to:655

PROPERTY: Nansemond Shores #2

Number of samples: 32

COMPANY: R. L. Magette

Total Depth: 655'

COUNTY: Nansemond (Driver)

Oil or Gas: Water: χ Exploratory:

From-To	From-To	From-To	From-To	From-To
-	615-	-	-	-
20-	635-	-	-	-
41-	655-	-	-	-
61-	-	-	-	-
82-	-	-	-	-
102-	-	-	-	-
122-	-	-	-	-
143-	-	-	-	-
163-	-	-	-	-
184-	-	-	-	-
204-	-	-	-	-
224-	-	-	-	-
245-	-	-	-	-
265-	-	-	-	-
285-	-	-	-	-
306-	-	-	-	-
326-	-	-	-	-
347-	-	-	-	-
368-	-	-	-	-
388-	-	-	-	-
409-	-	-	-	-
429-	-	-	-	-
450-	-	-	-	-
471-	-	-	-	-
492-	-	-	-	-
512-	-	-	-	-
532-	-	-	-	-
553-	-	-	-	-
574-	-	-	-	-
595-	-	-	-	-

All intervals have both washed and unwashed samples.

OWNER: Nansemond Shores #2
DRILLER: Magette
COUNTY: Nansemond (Driver)

W # 3275
C # 181
TOTAL DEPTH - 655'
QUAD - Chuchatuck
ELEV -

DEPTH
(FEET)

WELL LOG

0-20	No samples.	
20-41	Sand	- grayish yellow (5Y 6/2); 50% forams/ ostracods/echinoderm spines; fine to coarse, subangular, moderate sorting; forams - <u>Eponides</u> , <u>Quinqueloculina</u> , <u>Textularia</u> , <u>Nonions</u> (3 spp), <u>Discorbis</u> (2 spp), <u>Siphogenerina</u> , <u>Cibicides</u> ; ostracods; echinoderm plates and spines; shell fragments; oyster "spat."
41-61	Sand	- light and dark brown; 50% fine shell fragments and foram mixture; fine to medium, subangular, moderate sorting; shell fragments - <u>Dentalium</u> , <u>Opalina</u> , <u>Phacoides</u> , <u>Corbula</u> , "Nestler," <u>Crepidula</u> , <u>Astarte</u> ; forams; ostracods; echinoderm parts; bryozoa; ochre.
61-82	Sand	- dusky yellow (5Y 6/4); fine to coarse, subangular, moderate sorting; 20% shell fragments; echinoderm parts; forams; ostracods; ochre.
82-143	Sand, Glaucinitic	- light and dark gray; 50% glauconite; fine to medium with some coarse sized grains, subangular, moderate sorting; 20% shell fragments with 3% at 122-143'; very sparse clay in sand clasts at 122-143'; forams - <u>Nonion</u> ; ostracods; echinoderm parts.
143-184	Sand	- light olive gray (5Y 6/1); medium grained, subangular, well sorted; 10% glauconite; 1% shell fragments; echinoderm spines - 2 kinds; sparse mica.
184-224	Sand	- light olive gray (5Y 6/1) - sparse clay; medium to coarse, subangular, moderate sorting; 10% glauconite; 1-10% shell fragments; forams - <u>Textularia</u> ; ostracods; echinoderm spines - 2 kinds; iron oxide fragments.

DEPTH (FEET)		WELL LOG
224-265	Sand	- light olive gray (5Y 6/1) - moderate to abundant clay; medium to coarse, subangular, moderate sorting; 10% glauconite; 10% very fine shell fragments; echinoderm spines; foram - <u>Textularia</u> .
265-285	Sand	- light olive gray (5Y 6/1) - abundant clay; fine to coarse, subangular, moderate sorting; 15% glauconite; 15% shell fragments; mica.
285-326	Clay	- light olive gray (5Y 6/1); abundant sand; fine to coarse, subangular, well sorted; diatoms/mica; forams.
326-347	Clay	- light olive gray (5Y 6/2) - abundant sand; fine to coarse, subangular, moderate sorting; mica.
347-368	Sand	- light olive gray (5Y 6/2) - moderate clay; fine to very coarse, subangular and subrounded, moderate sorting; 10% glauconite; 3% shell fragments; forams - <u>Siphogenerina</u> , <u>Marginulina</u> , <u>Robulus</u> ; bone fragments.
368-388	Sand, Glauconitic	- light and dark gray; 50% glauconite; sparse clay; fine to very coarse, subrounded; poorly sorted; 3% shell fragments.
388-409	Clay, Glauconitic	- greenish black (5G 2/1); 99% dark green glauconite; sparse mica.
409-429	Clay	- light and dark gray; 45% glauconite; sparse mica.
429-450	Sand, Glauconitic	- light and dark green; 85% glauconite; coarse to granule, subrounded, poorly sorted; shark tooth; rose quartz; garnet.
450-532	Clay, Glauconitic	- light and dark green; 75% glauconite with 50% at 512-532'; sparse sand; fine to granule, subrounded, poorly sorted; 10% shell fragments at 471-512' and rare at 512-532'; mica in clay.

DEPTH
(FEET)

WELL LOG

- | | | | |
|---------|------|---|---|
| 532-615 | Sand | - | light olive gray (5Y 6/1) - very sparse clay at 595-615'; fine to very coarse, subangular, moderate sorting; 10% glauconite with 8% at 532-553' and 5% at 574-595'; feldspar; mica. |
| 615-635 | Sand | - | light and dark brown, moderate clay; fine to granule, subangular and subrounded, poorly sorted; 40% glauconite; 3%+ shell fragments; garnet; feldspar. |
| 635-655 | Sand | - | light olive gray (5Y 6/1) - very sparse clay; fine to granule, subangular and subrounded, poorly to moderately sorted; 3% to rare glauconite; feldspar. |

Logged by:
J. K. Polzin
Feb., 1981