

COMMONWEALTH OF VIRGINIA  
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

W-4016  
C-86

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: Ralph H. and (McDaniel's Mobile Home Park) Mailing Address: P.O. Box 422, Dahlgren, Va 22448  
Leroy McDaniel King George, Va.

TENANT: same Mailing Address: same

DRILLER: Douglas Drilling Co., Inc. Mailing Address: Box 498, Warsaw, Va. 22 2

WELL LOCATION: County King George Approx. 1.2 <sup>XXXX</sup> miles North (direction) of  
intersection Rts. 206 & 610 and 500 <sup>feet</sup> ~~XXXX~~ West (direction) of Rt. 610.

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

DATE STARTED: - DATE COMPLETED: August 30, 1973

TYPE OF DRILL RIG USED: rotary TOTAL DEPTH 789 feet

WATER LEVEL: Stands 145 feet below surface OR  
has NATURAL flow of - gallons per minute.

YIELD TEST: Method air  
Drawdown 45 feet  
Rate 2 gal. per min.  
Duration - hrs., - min.

HOLE SIZE: 8-1/2 inches from 0 to 63 feet  
6 inches from 63 to 315 feet  
3-7/8 inches from 315 to 789 feet

WATER ZONES: from - to - feet  
from - to - feet  
from 761 to 781 feet

SCREEN SIZE: - inches from - to - feet  
#2ss = 2 inches from 761 to 781 feet  
- inches from - to - feet

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

CASE SIZE: 4 inches from 0 to 315 feet  
WEIGHT: 2 inches from 315 to 761 feet  
Standard Schedule 2 inches from 781 to 789 feet  
40 Galv.

WELL TO SUPPLY: (check one) Home -  
Farm - Town - School -  
Industry - Other trailer site

GROUTING: Method Tremmie pipe  
Material neat cement Depth 315 feet

WATER ANALYSIS AVAILABLE: Yes - No X  
(72)  
DRILL CUTTINGS SAVED: Yes X No -

PUMP: Type -  
Capacity - gal per min  
Depth of intake - 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: CONSTRUCTION: This is a Class II well of materials and techniques as per specifications of Va. Health Dept. publication Drilled Wells for Public Water Supply dated 9 Feb. 1970.

Drill Cutting Samples and copy of this report delivered to Owner 4 Sept. 1973.

\* 4 others discarded - bag empty

(LOG OF WELL) OVER

# 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'	approx	10' Fine sand with clay binder	
10'	approx	15' Fine sand with some clay and gravel	
15'	approx	115' Fine sand with clay binder	
115'	approx	160' Fine sand with clay binder and some shell	
160'	approx	240' Fine sand with clay binder	
240'	approx	270' Fine sand with clay binder and some shell	
270'	approx	500' Fine sand with clay binder	
500'	approx	510' Fine sand with some clay	
510'	approx	615' Fine sand with clay binder	
615'	approx	625' Fine sand with some clay	
625'	approx	670' Fine sand with clay binder	
670'	approx	730' Fine sand with some clay	
730'	approx	760' Fine sand with clay binder	
760'	approx	780' Fine and coarse sand with some clay.	Screen, water.
780'	approx	789' Fine sand with clay binder.	
Drill Cutting Samples and copy of this report delivered to Owner 9/4/73.			

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

INTERVAL SHEET

C-86

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Well Repository No.: W- 4016

Date rec'd: 9/23/73 Date Processed: 8/29/74

Sample Interval: from 0 to: 789'

PROPERTY: McDaniels Mobile Home Park

Number of samples: 71

COMPANY: Douglas Drilling Co.

Total Depth: 789'

COUNTY: King George (Arnolds Cor.)

Oil or Gas: Water: X Exploratory:

From-To	From-To	From-To	From-To	From-To
0 - 10	262 - 273	546 - 556	-	-
10 - 21	273 - 283	556 - 567	-	-
21 - 31	283 - 294	567 - 577	-	-
31 - 42	294 - 304	577 - 588	-	-
42 - 52	304 - 315	588 - 598	-	-
52 - 63	315 - 325	598 - 609	-	-
63 - 73	325 - 336	609 - 619	-	-
73 - 84	336 - 346	619 - 630	-	-
84 - 94	346 - 357	-	-	-
94 - 105	357 - 367	651 - 661	-	-
105 - 115	367 - 378	661 - 672	-	-
115 - 126	388 - 399	672 - 682	-	-
126 - 136	399 - 409	682 - 693	-	-
136 - 147	409 - 420	693 - 703	-	-
147 - 157	420 - 430	703 - 714	-	-
157 - 168	430 - 441	714 - 724	-	-
168 - 178	441 - 451	724 - 735	-	-
178 - 189	451 - 462	735 - 745	-	-
189 - 199	462 - 472	745 - 756	-	-
199 - 210	472 - 483	756 - 766	-	-
210 - 220	493 - 504	766 - 777	-	-
220 - 231	504 - 514	777 - 789	-	-
231 - 241	514 - 526	-	-	-
241 - 252	526 - 535	-	-	-
252 - 262	535 - 546	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-

Both washed and unwashed samples.

Owner: McDaniels Mobile Home  
Driller: Douglas  
County: King George

W# 4016  
C# 86  
Total Depth: 789'  
Quad: King George  
Elev: 130'

Depth  
(feet)

Well Log

- 0-10 Gravel - pale yellowish orange (10YR 6/6); sparse clay; fine to pebble, subangular, moderate sorting; 3% weathered glauconite.
- 10-21 Sand - pale yellow orange (10YR 6/6); fine, subangular, well sorted; rare small clasts of dark gray clay.
- 21-31 Sand - pale yellow brown (10YR 6/2); very sparse clay; fine and pebble, subangular, moderately well sorted.
- 31-63 Sand - pale yellow brown (10YR 6/2); abundant clay; fine to very coarse, subangular, moderate sorting; mica.
- 63-84 Sand - light olive gray (5Y-6/2); abundant clay; fine to coarse and very coarse at 73-84', subangular, moderately sorted; 10% fine glauconite; rare shell fragments at 73-84' - Turritella; mica.
- 84-94 Sand, Glauconitic - light olive gray (5Y 5/2); 50% glauconite; abundant clay; fine to very coarse, subangular, moderate sorting; 3% shell fragments; mica.
- 94-115 Sand, Glauconitic - light and dark green; 80% glauconite at 94-105' and 50% at 105-115'; sparse clay; fine to very coarse, subangular, moderate sorting; 5% shell fragments; mica.
- 115-126 Sand - light and dark green; abundant clay; fine to very coarse, subangular, moderate sorting; 40% glauconite; 40% shell fragments; mica.
- 126-157 Sand - light and dark green; 50% shell fragments and 50% glauconite, with 40% glauconite at 149-157'; abundant clay; fine to very coarse, subangular, moderate sorting; madreporite; mica.
- 157-178 Sand - light olive gray (5Y 5/2); abundant clay; fine to very coarse, subangular, moderate sorting; 30% glauconite; 20% shell fragments; 2 madreporites; mica; vertebra.
- 178-210 Sand - grayish orange pink (5YR 7/2) and pale yellow brown (10YR 6/2); moderate clay until 199-210' where abundant; fine to very coarse, subangular, poor sorting; 15% glauconite; 10% fine shell fragments; mica.

Depth  
(feet)

- 210-231 Sand, Glauconitic - light and dark green; 50% glauconite; sparse clay; fine to coarse, subangular, moderate sorting; 30% shell fragments; madreporites; forams - Robulus; ostracod; mica.
- 231-241 Sand - light olive gray (5Y 5/3); moderate clay; fine to coarse with rounded pebbles, subangular, moderate sorting; 15% glauconite; 10% shell fragments; mica.
- 241-252 Sand, Shelly - light and dark green; 50% shell and 50% glauconite; sparse clay; fine to coarse, subangular, moderate sorting; Astarte; forams - Robulus, Nonion; mica.
- 252-273 Sand - olive gray (5Y 4/1); 50-60% glauconite; sparse clay; fine to coarse, subangular, well sorted; 30% to 40% shell fragments - oyster, Turritella; forams; graphite flakes.
- 273-294 Sand - moderate olive brown (5YR 4/4); sparse to moderate clay in pellets; fine to very coarse, subangular, moderate sorting; 40% glauconite; 10% fine shell fragments; shark tooth.
- 293<sup>4</sup>-325 Sand - dark yellowish brown (10YR 4/4); moderate clay until 315-325' where abundant; medium to granule, subangular, moderate sorting; diatoms in some clay clasts; 40% glauconite; 3% very fine shell fragments.
- 325-378 Sand - pale yellowish brown (10YR 6/2); abundant clay; fine to granule at 325-336, to very coarse at 336-346, and to coarse from 346-378, subangular, moderate sorting; rare glauconite/shell fragments.
- 378-388 No sample.
- 388-420 Clay - moderate yellowish brown (10YR 5/4); moderate sand-fine with some larger at 409-420, subangular, well sorted; diatoms.
- 420-441 Clay - pale yellow brown (10YR 6/2); abundant sand-fine to coarse, subangular, moderate sorting; some clay in red, white, yellow and light brown; rare glauconite; diatoms in some light colored clasts; mica.
- 441-462 Clay - dark yellowish brown (10YR 4/2); abundant sand-fine to coarse, subangular, moderate sorting; mica.
- 462-485 Clay - moderate yellow brown (5YR 5/4); abundant sand-fine to coarse, subangular, moderate sorting; rare glauconite; mica.
- 485-493 No sample.

Depth  
(feet)

- 493-514 Sand - pale yellow brown (10YR 6/2); sparse to moderate clay; fine to very coarse, subangular, moderate sorting.
- 514-525 Clay - pale yellow brown (10YR 7/2); moderate sand; fine to coarse, subangular, moderate sorting; multicolored clays; fuschite.
- 525-536 Sand - light yellow brown (10YR 6/4); abundant clay; fine to coarse with some rounded granules, subangular, moderate sorting; iron oxide stains.
- 536-546 Sand - light yellow brown (10YR 6/4); sparse clay; fine to medium with few granules, subangular, moderately well sorted.
- 546-619 Sand - moderate yellow brown (10YR 5/4); moderate clay at 546-556' and 598-619', abundant ~~clay~~ from 556 to 598'; fine to very coarse, subangular, moderate sorting.
- 619-672 Sand - pale yellow brown (10YR 6/2); sparse clay until 661-672, then moderate; medium to very coarse except at 630-661, where fine to very coarse, subangular with some angular at 661-672', moderate sorting.
- 672-714 Sand - pale yellow brown (10YR 6/2); sparse clay; fine to coarse, angular and subangular, moderate sorting; iron oxide fragments and stains; feldspar.
- 714-745 Sand - pale yellow brown (10YR 6/2); moderate clay; fine to granule and at 724-745, to very coarse, angular and subangular, poorly sorted; feldspar.
- 745-756 Sand - pale yellow brown (10YR 6/2); abundant clay; fine to coarse, angular and subangular, poorly sorted; feldspar.
- 756-766 Sand - pale yellow brown (10YR 6/2); sparse clay; fine to coarse with some very coarse, angular and subangular, poorly sorted; rose quartz.
- 766-789 Sand - pale yellowish brown (10YR 6/2); very sparse clay; medium to very coarse, mostly coarse, angular and subangular, poorly sorted; rose quartz; feldspar.