

COMMONWEALTH OF VIRGINIA  
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

W-3827  
C-168

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: Larry A. Lipscomb Mailing Address: P. O. Box 217  
Mechanicsville, Virginia 23111

TENANT: Venter Heights Subdivision Mailing Address: P. O. Box 27186

DRILLER: Sydnor Hydrodynamics, Incorporated Mailing Address: Richmond, Virginia 23261

WELL LOCATION: County King William Approx. 200 <sup>feet</sup>/<sub>miles</sub> south (direction) of Intersection of  
Route 611 and 1600 <sup>feet</sup>/<sub>miles</sub> east (direction) of Routes 30 and 611

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

DATE STARTED: February 8, 1973 DATE COMPLETED: February 26, 1973

TYPE OF DRILL RIG USED: rotary TOTAL DEPTH 430 feet

WATER LEVEL: Stands 133'10" feet below surface OR  
has NATURAL flow of \_\_\_\_\_ gallons per minute.

YIELD TEST: Method submersible  
Drawdown 42 feet  
Rate 150 gal. per min.  
Duration 24 hrs., \_\_\_\_\_ min.

WATER ZONES: from 250 to 260 feet  
from 388 to 408 feet  
from \_\_\_\_\_ to \_\_\_\_\_ feet

WATER: Color clean Taste \_\_\_\_\_  
Odor none Temp. \_\_\_\_\_ °F

WELL TO SUPPLY: (check one) Home \_\_\_\_\_  
Farm \_\_\_\_\_ Town \_\_\_\_\_ School \_\_\_\_\_  
Industry \_\_\_\_\_ Other subdivision

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

DRILL CUTTINGS SAVED: Yes 43 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: Electric log by driller

HOLE SIZE: 12 inches from 0 to 430 feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet

SCREEN SIZE: 6 inches from 250 to 260 feet  
6 inches from 388 to 408 feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet

CASE SIZE: 6 inches from +2 to 250 feet  
6 inches from 260 to 388 feet  
6 inches from 408 to 416 feet

GROUTING: Method pressure  
Material cement & water Depth 50 feet

PUMP: Type \_\_\_\_\_  
Capacity \_\_\_\_\_ gal per min  
Depth of intake \_\_\_\_\_ feet

LOG

FURNISHED BY: Sydnor Hydrodynamics, Incorporated DATE: February 21, 1973

DEPTH (feet)		TYPE OF ROCK OR SOIL PENETRATED ( gravel, clay, etc., hardness, color, etc.)	REMARKS (water, caving, shot, screen, sample, etc.)
FROM	TO		
0	1	Top soil	
1	10	Yellow sand-clay	
10	20	Gray, yellow sandy clay	
20	40	Brown sand and gravel	
40	50	Brown gravel and blue clay	
50	70	Blue clay	
70	90	Tough gray clay	
90	150	Blue clay	
150	163	Blue clay, sand and streaks of rock	
163	165	Rock	
165	185	Gray clay, sand, and gravel streak	
185	250	Gray sandy clay	
250	255	Rock	
255	300	Gray clay, shells and sand	
300	330	Gray sandy clay - some shells	
330	350	Tough brown clay	
350	375	Gray, green mixed clay	
375	380	Gray clay, gravel and sand	
380	410	Gray sand, gravel	
410	430	Gray clay, sand and gravel	



Owner: L. A. Lipscomb  
Driller: Sydnor  
County: King William (Midway)

W# 3827  
C# 168  
Total depth: 430  
Quad:

Depth  
(feet)

GEOLOGIC LOG

0-10	Sand - dark yellowish orange (10YR 8/6); moderately clayey; slightly stained; very coarse to medium grains; subangular to subrounded; well sorted; quartz; some iron oxides (minor).
10-20	Sand - dark yellowish orange (10YR 8/6); moderately clayey; slightly stained; coarse to medium grains; subangular to subrounded; well sorted; quartz.
20-30	Sand - grayish orange (10YR 7/4); slightly clayey; slightly stained; coarse to medium grains; subangular to subrounded; well sorted; quartz.
30-40	Sand - grayish orange (10YR 7/4); slightly clayey; stained; very coarse to medium grains; subangular to subrounded; well sorted; quartz.
40-50	Sand - grayish orange (10YR 7/4); moderately clayey; very coarse to coarse; poorly sorted; subangular to subrounded; quartz.
50-60	Sand - light olive gray (5Y 5/2); moderately silty and clayey; very coarse to coarse grains; poorly sorted; subangular to subrounded; quartz; minor mica.
60-70	Sand & silt - light olive gray (5Y 5/2); moderately silty and clayey; very coarse to medium sand grains; poorly sorted; quartz; subangular to subrounded.
70-80	Silty clay - light olive gray (5Y 6/1); highly clayey; very fine; some subrounded to rounded pebbles; quartz; minor iron oxides.
80-90	Clay - light olive gray (5Y 6/1); slightly silty; a few quartz grains.
90-100	Clay - light olive gray (5Y 6/1); slightly silty; minor mica; a few quartz grains.
100-110	Clay - same as 80-90.
110-120	Clay - same as 80-90.

Depth  
(feet)

- 120-130 Clay - same as 80-90.
- 130-140 Clay - same as 80-90 with opaque mineral (black).
- 140-150 Silt - light olive gray (5Y 6/1); some very fine sand; quartz; shell fragments (1%); phosphates; some clay.
- 150-160 Silt - Same as 140-150.
- 160-170 Clay, sandy - light olive gray (5Y 6/1); coarse to medium grains; subangular to subrounded; well sorted; quartz; phosphates; glauconite; spines; 15% shell fragments; gypsum (selenite); moderately silty.
- 170-180 Clay, sandy - same as above with pebble size grains also.
- 180-190 Clay, sandy - same as 160-170 only olive gray (5Y 4/1) in color.
- 190-200 Clay, sandy - same as 180-190.
- 200-210 Clay - light olive gray (5Y 6/1); some quartz grains (subangular to rounded); glauconite; phosphates.
- 210-220 Clay, sandy - light olive gray (5Y 6/1); quartz grains - subangular to rounded; coarse to medium; moderately well sorted; glauconite; phosphates; 2% shell fragments; iron oxides minor.
- 220-230 Clay, sandy - same as above.
- 230-240 Clay, sandy - light olive gray (5Y 6/1); subangular to subrounded grains; coarse to fine grains; moderately well sorted; quartz; high content glauconite; 3% shell fragments; minor iron oxides; minor pyrite; phosphates; foraminifera.
- 240-250 Clay, sandy - same as above with spines.
- 250-260 Sand - moderate olive brown (5Y 4/4); coarse to fine; subangular to subrounded grains; high % of glauconite and phosphates; quartz; spines; well sorted.
- 260-270 Sand, silty - olive gray (5Y 4/1); some clay; coarse to fine grained; subangular to subrounded; quartz; well sorted; high % of glauconite; phosphates; spines.
- 270-280 Sand, silty - same as above with foraminifera; ostracods.

Depth  
(feet)

- 280-290 Sand, silty - same as 260-270.
- 290-300 Sand - olive gray (5Y 4/1); silty and clayey; coarse to fine grained; subangular to subrounded; quartz; moderately well sorted; high % of glauconite; phosphate; minor pyrite; 1% shell fragments.
- 300-310 Sand - same as above except no pyrite.
- 310-320 Sand - same as 290-300 with spines; no pyrite.
- 320-330 Sand - greenish gray (5G 6/1); coarse to fine grains; subangular to subrounded; moderately well sorted; quartz; high % of glauconite; 5% shell fragments; moderately clayey and silty.
- 330-340 Sand - moderate olive brown (5Y 4/4); very coarse to medium sand; moderately well sorted; subangular to subrounded; moderately clayey; slightly stained; quartz; high % glauconite; phosphates; minor iron oxides.
- 340-350 Sand - dark yellowish brown (10YR 4/2); very coarse to fine grains; moderately well sorted; subangular to subrounded; quartz; slightly stained; phosphates; glauconite; minor iron oxides; slightly clayey.
- 350-360 Sand - dark yellowish orange (10YR 6/6); very coarse to medium; moderately well sorted; moderately stained; quartz; glauconite; phosphates; iron oxides; subangular to rounded; foraminifera; silty; slightly clayey.
- 360-370 Sand - same as above with minor pyrite; no foraminifera.
- 370-380 Sand - same as 360-370.
- 380-390 Sand - grayish orange (10YR 7/4); subangular to subrounded grains; very coarse to medium grains (some granules); moderately well sorted; moderately clayey; quartz; phosphates; glauconite; selenite.
- 390-400 Sand - grayish orange (10YR 7/4); subangular to rounded; very coarse to medium grains with some granules and pebbles; moderately clayey; moderately well sorted; quartz 5% glauconite; feldspar; phosphates.
- 400-410 Sand - same as above.

Owner: L. A. Lipscomb

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Depth  
(feet)

410-420	Sand - dark yellowish brown (10YR 4/2); very coarse to fine; moderately well sorted; subangular to rounded; quartz; moderately silty and clayey; 1-2% glauconite and phosphates; feldspar.
420-430	Sand - same as above.

Logged by: Michael A. Wise  
September, 1979