

COMMONWEALTH OF VIRGINIA  
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

W#: 4787  
C#: 198

MAILING ADDRESS:

Box 3667  
Charlottesville, VA 22903

DIVISION OF MINERAL RESOURCES

JAMES L. CALVER, COMMISSIONER

OFFICE ADDRESS:

McCormick Road  
Charlottesville, Virginia

WATER WELL COMPLETION REPORT

OWNER: C. F. Gartman Mailing Address: Rt. 1, Box 245 D Prince George, VA. 23875

TENANT: Mitchell's Well & Pump, Inc. Mailing Address: 16815 Happy Hill Rd.

DRILLER: J. J. Mitchell, III Mailing Address: Colonial Heights, VA. 23834

WELL LOCATION: County Prince George Approx. 2 ~~feet~~ <sup>miles</sup> (direction) of on #644 off Rt. 10 (right side) and \_\_\_\_\_ <sup>feet</sup> ~~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: August 1976 DATE COMPLETED: August 1976

TYPE OF DRILL RIG USED: Combination TOTAL DEPTH 210 feet

WATER LEVEL: Stands 125 feet below surface OR has NATURAL flow of \_\_\_\_\_ gallons per minute.

YIELD TEST: Method Pumped  
Drawdown 143'6" feet Pump pipe used, took no air  
Rate 12 gal. per min.  
Duration 3½ hrs., \_\_\_\_\_ min.

HOLE SIZE: 7½ inches from 0 to 12 feet  
5½ inches from 12 to 210 feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet

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

SCREEN SIZE: 4 inches from 189 to 210 feet  
slotted pipe  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet

WATER: Color \_\_\_\_\_ Taste \_\_\_\_\_  
Odor \_\_\_\_\_ Temp. \_\_\_\_\_ °F

CASE SIZE: 4 inches from +1 to 210'8" feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet

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

GROUTING: Method Poured in  
Material Cement, sand and gravel. Depth 12 feet

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

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

DRILL CUTTINGS SAVED: 22 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: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

LOG

FURNISHED BY: Mitchell's Well & Pump 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		Gray top soil	
10	50	Orange dirt	
60		Brown dirt	
70		Tan dirt	
80	110	Gray dirt	
120	190	Dark gray dirt and shells	
200		Gray sand	
210		Tan sand	

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

INTERVAL SHEET

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Well Repository No: W#: 4787

Date rec'd: 2/7/77 Date Processed: 7/11/77

C#: 198  
Sample Interval: from: 0 to: 210'

PROPERTY: C. F. Gartman

Number of samples: 22

COMPANY: Mitchell P & W Co.

Total Depth: 210'

COUNTY: Prince George (Birchett)

Oil or Gas: Water:  Exploratory:

From-To	From-To	From-To	From-To
- 0	-	-	-
- 10	-	-	-
- 20	-	-	-
- 30	-	-	-
- 40	-	-	-
- 50	-	-	-
- 60	-	-	-
- 70	-	-	-
- 80	-	-	-
- 90	-	-	-
- 100	-	-	-
- 110	-	-	-
- 120	-	-	-
- 130	-	-	-
- 140	-	-	-
- 150	-	-	-
- 160	-	-	-
- 170	-	-	-
- 180	-	-	-
- 190	-	-	-
- 200	-	-	-
- 210	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

Both washed and unwashed samples.

OWNER: C. F. Graham  
DRILLER: Mitchell P & W Co.  
COUNTY: Prince George  
(Birchett)

W#: 4787  
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TOTAL DEPTH: 220'

GEOLOGIC LOG

Depth  
(feet)

- 0-10 Sand — yellowish gray; moderate clay; medium to coarse grained; subangular to subrounded; moderately well sorted; quartz; feldspar.
- 10-20 Sand — dark yellowish orange; moderate staining; slightly clayey; medium to coarse grained, some fine grains; subangular to subrounded; moderately well sorted; quartz; feldspar; some glauconite.
- 20-30 As above except light reddish orange; moderately sorted.
- 30-40 Clay and sand — light reddish orange; abundant clay — light reddish orange, light brown, white; moderate sand; medium to coarse grained; subangular to subrounded; moderately well sorted; quartz; feldspar; some glauconite.
- 40-50 Sand — dark yellowish orange; moderate staining; slightly clayey; fine grained, some medium grains; subangular to subrounded; well sorted; quartz; feldspar; 3% opaques; few grains of glauconite.
- 50-60 Sand — dark yellowish orange; moderate clay; fine to medium grained; subangular to subrounded; moderately well sorted; quartz; feldspar; some opaques; glauconite.
- 60-70 Sand — light brown; slightly clayey; fine to medium grained, some coarse grains; subangular to subrounded; moderately well sorted; quartz; feldspar; 7% shell fragments; 2% black phosphatic material; some glauconite; few spines; few opaques.
- 70-80 As above except 3% black phosphatic material; 2% glauconite; some spines.
- 80-90 Sand — light brownish gray; slightly clayey; very fine to fine grained; subangular to subrounded; well sorted; quartz; 20% reworked shell fragments; 2% black phosphatic material; 2% glauconite; some spines; few grains of feldspar.
- 90-100 Sand — light brown; slightly clayey-light brown, light olive gray; coarse grained; subangular to subrounded; moderately sorted; quartz; 10% shell fragments; some black phosphatic material; some glauconite; some spines; few grains of feldspar; ostracodes.
- 100-110 Sand — light brownish gray; slightly clayey; fine to medium grained; subangular to subrounded; moderately well sorted; quartz; 30% reworked shell fragments; 2% spines; some black phosphatic material; some glauconite; forams (inc. Textularia, Discorbis, and Cibicides?); ostracodes.

Depth  
(feet)

- 110-120 As 100-110' except 3% glauconite; plus Robulus.
- 120-130 Sand — light olive gray; slightly clayey; fine to medium grained; subangular to rounded; moderately well sorted; quartz; 30% glauconite; 7% shell fragments; some black phosphatic material; few spines; ostracode.
- 130-140 Sand — light olive gray; slightly clayey-light olive gray, white, light brown; fine to coarse grained; subangular to rounded; moderately sorted; quartz; 20% glauconite; 12% shell fragments; 2% black phosphatic material; some spines; few bone fragments; forams rare (inc. Nodosaria).
- 140-150 As above except 15% glauconite; 5% black phosphatic material; no Nodosaria.
- 150-160 Sand — olive light gray; slightly clayey — olive light gray, white, light brown; medium to coarse grained, some fine grains, some granules; subangular to rounded; poorly sorted; quartz; 25% glauconite (black, green); 20% shell fragments; some black phosphatic material inc. fish tooth; few bone fragments; few spines; forams (inc. Nodosaria).
- 160-170 As above plus Robulus; ostracode.
- 170-180 As above except fine to coarse grained; 35% glauconite; 15% shell fragments; no fish tooth.
- 180-190 Sand — olive light gray; slightly clayey-olive light gray, light gray; light brown, dark yellowish orange; very fine to coarse grained, some very coarse grains, some granules; subangular to rounded; poorly sorted; 40% glauconite (black, green); quartz; 30% shell fragments; ostracodes common; few black phosphatic fragments; few spines; few flakes of muscovite; forams rare (inc. Robulus); pyrite.
- 190-200 Sand — olive light gray; slightly clayey-olive light gray; light gray; light brown; fine to coarse grained, some granules; subangular to rounded; moderately sorted; quartz; 30% glauconite (black, green); 30% shell fragments; few black phosphatic fragments; muscovite.
- 200-210 Sand — white; coarse to very coarse grained, 5% granules; subrounded; moderately well sorted; quartz; feldspar; few grains of glauconite; pyrite.
- 210-220 Sand — white, dark yellowish orange; 50% of grains heavily stained; coarse to very coarse grained, some medium grains, some granules; subangular to subrounded; moderately sorted; quartz; feldspar; few grains of glauconite.

GEOLOGIC SUMMARY

<u>Depth</u> <u>(feet)</u>	<u>Thickness</u> <u>(feet)</u>	<u>Rock Unit</u>	<u>Time Rock Unit</u>
0-60	60	Moorings "Unit"	Pleistocene
60-120	60	Yorktown Formation	Pliocene-Miocene
120-200	80	Nanjemoy Formation	Eocene
200-220	20+	Patuxent Formation	Cretaceous

VIRGINIA DIVISION OF MINERAL RESOURCES  
David A. Hubbard, Jr., Geologist  
September 8, 1978