

COMMONWEALTH OF VIRGINIA  
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

MAILING ADDRESS:  
P.O. Box 3667  
Charlottesville, VA 22903

DIVISION OF MINERAL RESOURCES  
JAMES L. CALVER, COMMISSIONER  
WATER WELL COMPLETION REPORT

OFFICE ADDRESS:  
McCormick Road  
Charlottesville, Virginia

Rt. 1, Box 353A  
Hopewell, VA. 23860

OWNER: Flower Dew Hundred Farm #2 Mailing Address: \_\_\_\_\_

TENANT: \_\_\_\_\_ Mailing Address: \_\_\_\_\_

DRILLER: J. J. Mitchell, III Mailing Address: 16815 Happy Hill Rd.  
Colonial Heights, VA. 23834

WELL LOCATION: County Prince George Approx. 1.9 ~~xxx~~ <sup>xxx</sup> miles past 613 East (direction) of  
ON Rt. 601 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: July 21, 1976 DATE COMPLETED: July 27, 1976

TYPE OF DRILL RIG USED: Combination TOTAL DEPTH 182 feet

WATER LEVEL: Stands 84'4" feet below surface OR  
has NATURAL flow of \_\_\_\_\_ gallons per minute.

YIELD TEST: Method Pumped  
Drawdown 110' feet pump pipe took no air  
Rate 18 gal. per min.  
Duration 5 hrs., \_\_\_\_\_ min.

HOLE SIZE: 7 1/2 inches from 0 to 12 feet  
6 inches from 12 to 182 feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet

SCREEN SIZE: 4 inches from 172 to 182 feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet

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

CASE SIZE: 4 inches from +1 to 172'6" feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet  
\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet

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

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

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

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

WATER ANALYSIS AVAILABLE: Yes \_\_\_\_\_ No \_\_\_\_\_  
DRILL CUTTINGS SAVED: Yes  <sup>18</sup> 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	Brown top soil	
	10	Orange dirt	
	20	Ditto	
	30	Orange sand	
	40	Tan dirt and shells	
50	60	Gray gravel and dirt	
	70	Gray mud	
	80	Gray mud and shell	
90	100	Gray mud, shells and gravel	
	110	Gray mud and shells	
	120	Black dirt and shells	
130	160	Ditto	
	170	Gray dirt, gravel and shells	
	182	Ditto	

(Use additional forms if necessary)

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

INTERVAL SHEET

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Well Repository No.: W-4786

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

C- 197  
 Sample Interval: from 0 to: 182

PROPERTY: Flower Dew Hundred #2

Number of samples: 18

COMPANY: Mitchell P & W Co.

Total Depth: 182'

COUNTY: Prince George (Disputanta)

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	-	-	-
- 142	-	-	-
- 150	-	-	-
- 160	-	-	-
- 170	-	-	-
- 182	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

Both washed and unwashed samples

OWNER: Flower Dew Hundred  
DRILLER: Mitchell P & W Co.  
COUNTY: Prince George (Disputanta)

W#: 4786  
C#: 197  
TOTAL DEPTH: 182'

GEOLOGIC LOG

Depth  
(feet)

- 0-10 Sand — yellowish gray; abundant clay-medium light gray, dark yellowish orange; medium to coarse grained, some fine grains, few granules; subangular to subrounded; moderately sorted; quartz; feldspar; few opaques.
- 10-20 Sand — dark yellowish orange; slight staining; slightly clayey; coarse to very coarse grained, some granules; subangular to subrounded; moderately well sorted; quartz; feldspar; few opaques.
- 20-30 Sand — pale yellowish orange; slightly clayey; medium to coarse grained; subangular to subrounded; moderately well sorted; quartz; feldspar; few grains of glauconite.
- 30-40 As above except coarse to very coarse grained, some medium grains.
- 40-50 Sand — grayish orange; slightly clayey; medium grained to granular; subangular to subrounded; poorly sorted; quartz; feldspar; 15 % shell fragments; some black phosphatic material; some glauconite; few spines; few opaques.
- 50-60 Granules and gravel — yellowish gray; slightly clayey; abundant fine to coarse grained sand; subangular to subrounded; poorly sorted; quartz; feldspar; 20% shell fragments; glauconite 2% of sand sized fraction; some black phosphatic material; some spines.
- 60-70 Gravel and sand — light olive gray; moderate clay; moderate fine to medium grained sand; abundant gravel; subangular to subrounded; poorly sorted; quartz; feldspar; 25% shell fragments inc. gastropod; glauconite 10% of sand sized fraction; some spines; few black phosphatic fragments.
- 70-80 Clay and shell hash — very light gray; slightly sandy; fine to medium grained; subangular to subrounded; moderately well sorted; 50% shell fragments; quartz; glauconite 5% of sand sized fraction; some spines; few black phosphatic fragments; forams rare (inc. Quinqueloculina).
- 80-90 Shell hash — light olive gray; moderate clay; moderate sand; fine to medium grained, few granules; subangular to subrounded; moderately well sorted; 70% shell fragments; quartz; glauconite 7% of sand sized fraction; some black phosphatic material; some spines.
- 90-100 Shell hash — olive light gray; moderate clay; abundant sand; fine to medium grained, few granules, some pebbles; subangular to subrounded; poorly sorted; 60% shell fragments; quartz; feldspar; glauconite 7% of sand sized fraction; some black phosphatic material; some spines; foram.

Depth  
(feet)

- 100-110 As 90-100 interval except 10% pebbles.
- 110-120 Sand — olive light gray; moderate clay; fine to medium grained, some coarse grains; subangular to subrounded; moderately sorted; quartz; 25% shell fragments; 2% black phosphatic material; some glauconite; few spines; few grains of feldspar.
- 120-130 As above except 35% shell fragments; 7% glauconite; some spines; forams (inc. Amphistegina).
- 130-142 Shell hash — olive light gray; moderate clay; abundant sand; fine to coarse grained, few granules; subangular to rounded; moderately sorted; 60% shell fragments; 20% glauconite; quartz; some black phosphatic material; some spines; forams rare (inc. Amphistegina); pyrite.
- 142-150 As above except 50% shell fragments; 30% glauconite (black, green, brown); forams (inc. Robulus and Amphistegina).
- 150-160 Sand — olive gray; moderate clay; fine to medium grained, some coarse grains; subangular to rounded; moderately well sorted; 50% glauconite (black, green); quartz; 25% shell fragments; some spines; few grains of pyrite.
- 160-170 Sand — olive gray; moderate clay; fine grained to granular; angular to rounded; poorly sorted; quartz; 20% glauconite (black, green); 15% shell fragments; few spines.
- 170-180 Granules — light olive gray; slightly clayey; moderate fine to coarse grained sand; subangular to subrounded; poorly sorted; quartz; 20% shell fragments; glauconite 50% of sand sized fraction; few spines.
- 180-182 Sand — light olive gray; slightly clayey; coarse grained to granular; subrounded; moderately sorted; quartz; feldspar; 7% glauconite; 2% shell fragments; few black phosphatic fragments; few grains of garnet.

Logged by: Michael T. Currie

GEOLOGIC SUMMARY

<u>Depth</u> <u>(feet)</u>	<u>Thickness</u> <u>(feet)</u>	<u>Rock Unit</u>	<u>Time Rock Unit</u>
0-40	40	Moorings"Unit"	Pleistocene
40-130	90	Yorktown Formation	Pliocene-Miocene
130-180	50	Nanjemoy Formation	Eocene
180-182	2+	Patuxent Formation	Cretaceous

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