

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

W# 4893
C# 205

MAILING ADDRESS:

DIVISION OF MINERAL RESOURCES

OFFICE ADDRESS:

B# 3667

JAMES L. CALVER, COMMISSIONER

McCormick Road

Charlottesville, VA 22903

WATER WELL COMPLETION REPORT

Charlottesville, Virginia

OWNER: C. E. Clements Mailing Address: 1531 Lakeside Drive, Pr. Geo. VA. 23871

TENANT: _____ Mailing Address: _____

Mitchell's Well & Pump Co., Inc.

DRILLER: J. J. Mitchell, III Mailing Address: 16815 Happy Hill Rd. Col. Hgts. Va. 23834

WELL LOCATION: County Prince George Approx. _____ feet miles _____ (direction) of _____

Lot 16, Jovern Estates 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 1977 DATE COMPLETED: July 1977

TYPE OF DRILL RIG USED: Combination TOTAL DEPTH 153' feet

WATER LEVEL: Stands 73 feet below surface OR

has NATURAL flow of 15 gallons per minute.

YIELD TEST: Method pumped

105' OF PUMP PIPE

Drawdown _____ feet

Rate 15 gal. per min.

Duration 4½ hrs., _____ min.

HOLE SIZE: 7½ inches from 0 to 14 feet

5½ inches from 14 to 130 feet

4 inches from 130 to 153 feet

SCREEN SIZE: _____ inches from _____ to _____ feet

21' 3" of hacked pipe on bottom

_____ inches from _____ to _____ feet

_____ inches from _____ to _____ feet

CASE SIZE: 4 inches from +1 to 153 feet

_____ inches from _____ to _____ feet

_____ inches from _____ to _____ feet

WATER ZONES: from _____ to _____ feet

from _____ to _____ feet

from _____ to _____ feet

WATER: Color _____ Taste _____

Odor _____ Temp. _____ °F

WELL TO SUPPLY: (check one) Home home

Farm _____ Town _____ School _____

Industry _____ Other _____

GROUTING: Method _____

cement, sand-

Material and gravel Depth 10 feet

PUMP: Type _____

Capacity _____ gal per min

Depth of intake _____ feet

WATER ANALYSIS AVAILABLE: Yes XX No X

DRILL CUTTINGS SAVED: Yes X XX

(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 OF WELL) OVER

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	top soil	Sample # 0
10	40	orange dirt	1,2,3,4
	50	light orange	5
60	70	gray-orange gravel & mud	6,7
80	100	gray mud-shell fragments	8,9,10
110	120	gray mud and gravel	11, 12
130	140	gray mud	13,14
	153	gray sand	15

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Box 3667, Charlottesville, VA 22903

INTERVAL SHEET

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Well Repository No: W# 4893
C# 205

Date rec'd: 8/29/77 Date Processed: 9/19/77

Sample Interval: from: 0 to: 153

PROPERTY: C. E. Clements (Jovern Estates)

Number of samples: 16

COMPANY: J. J. Mitchell

Total Depth: 153'

COUNTY: Prince George

~~XXXXXXXXXX~~ Gas: Water: ~~XXXXXXXXXX~~

From-To	From-To	From-To	From-To
- 0	-	-	-
- 10	-	-	-
- 20	-	-	-
- 30	-	-	-
- 40	-	-	-
- 50	-	-	-
- 60	-	-	-
- 70	-	-	-
- 80	-	-	-
- 90	-	-	-
- 100	-	-	-
- 110	-	-	-
- 120	-	-	-
- 130	-	-	-
- 140	-	-	-
- 153	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

Washed and unwashed samples

Owner: C. E. Clements
Driller: J. J. Mitchell
County: Prince George

W# 4893
C# 205
Total Depth: 153'
Quad: Prince George

GEOLOGIC LOG

Depth
(feet)

- 0 Sand - yellowish gray; moderate clay; fine to coarse grained; subangular to subrounded; moderately sorted; quartz; feldspar; few opaques.
- 0-10 Sand - dark yellowish orange; moderate staining; slightly clayey; medium grained, some coarse grains; subangular to subrounded; well sorted; quartz; feldspar; few opaques.
- 10-20 As above except yellowish orange; slight staining; few grains of garnet.
- 20-30 Sand - yellowish orange; moderate clay-yellowish orange, few medium gray clasts; medium to coarse grained, some fine grains; subangular to subrounded; moderately sorted; quartz; feldspar; some opaques; few grains of glauconite.
- 30-40 As above.
- 40-50 Sand - yellowish orange; slightly clayey; coarse grained; subrounded; well sorted; quartz; feldspar; few flakes of muscovite.
- 50-60 Granules - light olive gray; moderate clay - light olive gray, yellowish-orange; some medium to coarse grained sand; some pebbles; subrounded; well sorted; quartz; feldspar.
- 60-70 Granules - light olive gray; moderate clay; abundant fine to coarse grained sand, 10% pebbles; subangular to subrounded; poorly sorted; quartz; feldspar; 5% shell fragments; some black phosphatic material; few spines.
- 70-80 Sand - olive light gray; moderate clay; very fine grained to granular, 5% pebbles; subangular to subrounded; very poorly sorted; quartz; feldspar; 3% shell fragments; 2% black phosphatic material; some glauconite; few spines.
- 80-90 Sand - olive light gray; moderate clay; fine grained to granular, some pebbles; subangular to subrounded; poorly sorted; quartz; feldspar; 3% shell fragments; 3% glauconite; 2% black phosphatic material; few spines; foram.
- 90-100 Sand - olive light gray; moderate clay; fine grained to granular; few pebbles; subangular to subrounded; poorly sorted; quartz; feldspar; 5% glauconite; 2% shell fragments; few black phosphatic fragments.
- 100-110 Sand - light olive gray; slightly clayey; coarse grained to granular, some medium grains, 10% pebbles; subrounded; moderately sorted; quartz; feldspar; some glauconite; few shell fragments.

- 110-120 As above except medium to coarse grained, 7% granules, 5% pebbles.
- 120-130 As above except moderate clay; some muscovite; few black phosphatic fragments.
- 130-140 Sand - light gray; moderate clay; medium to coarse grained, some granules, few pebbles; subangular to subrounded; moderately well sorted; quartz; feldspar; few black phosphatic fragments; few shell fragments.
- 140-153 Sand - white; medium to coarse grained, some fine grains, some granules; subangular to subrounded; moderately sorted; quartz; feldspar; few black phosphatic fragments; few shell fragments.

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>
0-60	60	Moorings "Unit"	Pleistocene
60-80	20	Calvert Formation	Miocene-Eocene
80-130	50	Nanjemoy Formation	Eocene
130-153	23+	Patuxent Formation	Cretaceous

VIRGINIA DIVISION OF MINERAL RESOURCES
David A. Hubbard, Jr., Geologist
September 18, 1978