

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

MAILING ADDRESS:

DIVISION OF MINERAL RESOURCES

OFFICE ADDRESS:

B-3667
Charlottesville, VA 22903

JAMES L. CALVER, COMMISSIONER

McCormick Road
Charlottesville, Virginia

WATER WELL COMPLETION REPORT

3304 Light St.

OWNER: Raymond Spain

Mailing Address: Ettrick, VA. 23803

TENANT:

J. J. Mitchell, Jr.

Mailing Address:

16815 Happy Hill Rd.

DRILLER: Mitchell's Well & Pump Co., Inc.

Mailing Address:

Colonial Heights, VA. 23834

WELL LOCATION: County Prince George

Approx. feet miles

(direction) of

Richard Bland college

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: Jan. 1978

DATE COMPLETED: Jan. 1978

TYPE OF DRILL RIG USED: Cable tool

TOTAL DEPTH 137 feet

WATER LEVEL: Stands 18 feet below surface OR

has NATURAL flow of gallons per minute.

YIELD TEST: Method Pumped

Drawdown feet

took no air

Rate 20 gal. per min.

Duration 4 hrs., min.

HOLE SIZE: 7 1/2 inches from 0 to 15 feet

4 inches from 15 to 137 feet

 inches from to feet

SCREEN SIZE: inches from to feet

 inches from to feet

 inches from to feet

CASE SIZE: 4 inches from +1 to 136'1" feet

 inches from to feet

 inches from to feet

WATER: Color Taste

Odor Temp. °F

WELL TO SUPPLY: (check one) Home X

Farm Town School

Industry Other

GROUTING: Method Poured in

Material Cement, sand Depth 15 feet
and gravel

PUMP: Type

Capacity gal per min

Depth of intake feet

WATER ANALYSIS AVAILABLE: Yes No X

DRILL CUTTINGS SAVED: 13 Yes X 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	10	Tan earth	
10	20	Gray mud	
20	30	Gray sand & gravel	
30	40	Ditto	
40	100	Gray mud & shells	
100	137	Gray sand & gravel	
TOTAL DEPTH			
137			

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INTERVAL SHEET

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Well Repository No: W#: 5141

Date rec'd: 3/17/78 Date Processed: 5/15/78

Sample Interval: from: 0 to: 137
C#: 211

PROPERTY: Raymond Spain

Number of samples: 13

COMPANY: Mitchell W & P Co.

Total Depth: 137'

COUNTY: Prince George (Petersburg)

Oil or Gas: Water: ~~x~~Exploratory:

From-To	From-To	From-To	From-To
0 - 10	-	-	-
10 - 20	-	-	-
20 - 30	-	-	-
30 - 40	-	-	-
40 - 50	-	-	-
50 - 60	-	-	-
60 - 70	-	-	-
70 - 80	-	-	-
80 - 90	-	-	-
90 - 100	-	-	-
100 - 110	-	-	-
110 - 120	-	-	-
120 - 137	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

Washed and unwashed samples.

OWNER: Raymond Spain
DRILLER: Mitchell W & P Co.
COUNTY: Prince George

W#: 5141
C#: 211
TOTAL DEPTH: 137'
QUAD: Petersburg

GEOLOGIC LOG

Depth
(feet)

- 0-10 Sand — grayish orange; abundant clay — grayish orange, dark yellowish orange; medium to coarse grained, some granules, few pebbles; subangular to subrounded; moderately sorted; quartz; some feldspar.
- 10-20 Clay — very pale orange; slightly sandy; medium to coarse grained; subangular to subrounded; moderately sorted; quartz; feldspar; some glauconite.
- 20-30 Sand — light olive gray; slightly clayey; coarse to very coarse grained, 5% granules, few pebbles; subrounded; moderately sorted; quartz; feldspar; few grains of garnet; few grains of glauconite.
- 30-40 As above except 15% granules, 5% pebbles; no glauconite.
- 40-50 Sand — olive light gray; moderate clay; fine to coarse grained, some granules; subangular to subrounded; moderately sorted; quartz; 15% shell fragments; some black phosphatic material; few spines.
- 50-60 Clay — olive light gray; moderate sand; fine to coarse grained; subangular to subrounded; moderately sorted; 40% shell fragments; quartz; some black phosphatic material; few grains of glauconite; few spines; forams rare (inc. Buccella).
- 60-70 Sand — olive light gray; moderate clay; fine to coarse grained; subangular to subrounded; moderately sorted; quartz; 35% shell fragments; some black phosphatic material; some spines; few grains of glauconite; forams (inc. Quinqueloculina).
- 70-80 As above except fine to medium grained, some coarse grains; 30% shell fragments.
- 80-90 As above except fine to coarse grained.
- 90-100 Clay — olive light gray; few shell fragments; few black phosphatic fragments; few grains of glauconite; few quartz grains.
- 100-110 Sand — multicolored; coarse grained to granular, some medium grains; subangular to subrounded; moderately sorted; quartz; 2% shell fragments; 2% black phosphatic material; some glauconite; pyrite.

OWNER: Raymond Spain

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W#: 5141

Depth
(feet)

110-120 Sand — off white; slightly clayey; coarse grained to granular, some pebbles; subrounded; moderately sorted; quartz; feldspar; few black phosphatic fragments; few grains of glauconite.

120-137 Sand — off white; coarse grained to granular, few pebbles; subrounded; moderately sorted; quartz; feldspar; 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>
0-40	40	Moorings "Unit"	Pleistocene
40-100	60	Calvert Formation	Miocene-Eocene
100-110	10	Nanjemoy Formation	Eocene
110-137	27+	Patuxent Formation	Cretaceous

VIRGINIA DIVISION OF MINERAL RESOURCES
David A. Hubbard, Jr., Geologist
September 20, 1978