

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

MAILING ADDRESS: 3667 Charlottesville, VA 22903
DIVISION OF MINERAL RESOURCES
JAMES L. CALVER, COMMISSIONER
OFFICE ADDRESS: McCormick Road Charlottesville, Virginia

WATER WELL COMPLETION REPORT

OWNER: Mr. Thomas W. Harris
Mailing Address: 215 Boswell St. Hampton, VA 23669

TENANT: _____ Mailing Address: 16815 Happy Hill Rd. Colonial Heights, VA 23834

DRILLER: J. J. Mitchell, III
Mailing Address: _____
WELL LOCATION: County Surry Approx. 1/2 miles S (direction) of
Claremont on St. Road 654 and _____ feet (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: Sept. 1976 DATE COMPLETED: Sept. 1976

TYPE OF DRILL RIG USED: Combination TOTAL DEPTH 307 feet

WATER LEVEL: Stands 148 1/2 feet below surface OR
has NATURAL flow of _____ gallons per minute.

YIELD TEST: Method Pump
Drawdown _____ feet
Rate 15* gal. per min.
Duration _____ hrs., _____ min.

HOLE SIZE: 7 1/2 inches from 0 to 18 feet
5 1/4 inches from 18 to 289 feet
4 inches from 289 to 307 feet
SCREEN SIZE: 4 inches from 302 to 307 feet

WATER ZONES: from 302 to 307 feet
from _____ to _____ feet
from _____ to _____ feet

CASE SIZE: 4 inches from +1 to 299 1/2 feet
4" blank ~~xxxxxx~~ from 299 1/2 to 302 feet
_____ inches from _____ to _____ feet

WATER: Color _____ Taste _____
Odor _____ Temp. _____ °F

GROUTING: Method _____
Material Cement, sand and gravel Depth _____ feet

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

PUMP: Type _____
Capacity _____ gal. per min.
Depth of intake *195 feet

WATER ANALYSIS AVAILABLE: Yes _____ No _____

DRILL CUTTINGS SAVED: 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: _____

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	Light gray top soil	
	10	Rust colored earth	
	20	" " "	
30	40	Orange earth	
	50	Tan gravel	
	60	Mixture of gray & tan earth	
70	100	Gray earth & shells	
110	140	Dark gray earth & shells	
	150	Gray & orange mud & shells	
160	190	Gray earth & shells	
200	270	Dark gray earth & shells	
	280	Black earth	
290	300	Gray earth & shells	
	307	Gray & tan sand	

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

INTERVAL SHEET

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Well Repository No.: W-4782
C- 136

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

Sample Interval: from 0 to: 307'

PROPERTY: Thomas W. Harris

Number of samples: 31

COMPANY: Mitchell P & W Co.

Total Depth: 307'

COUNTY: Surry (Claremont)

Oil or Gas: Water: Exploratory:

From-To	From-To	From-To	From-To
0 - 10	250 - 260	-	-
10 - 20	260 - 270	-	-
20 - 30	270 - 280	-	-
30 - 40	280 - 290	-	-
40 - 50	290 - 300	-	-
50 - 60	300 - 307	-	-
60 - 70	-	-	-
70 - 80	-	-	-
80 - 90	-	-	-
90 - 100	-	-	-
100 - 110	-	-	-
110 - 120	-	-	-
120 - 130	-	-	-
130 - 140	-	-	-
140 - 150	-	-	-
150 - 160	-	-	-
160 - 170	-	-	-
170 - 180	-	-	-
180 - 190	-	-	-
190 - 200	-	-	-
200 - 210	-	-	-
210 - 220	-	-	-
220 - 230	-	-	-
230 - 240	-	-	-
240 - 250	-	-	-

Washed & unwashed samples.

OWNER: Thomas W. Harris
DRILLER: Mitchell P & W Company
COUNTY: Surry (Claremont)

W#: 4782
C#: 136
TOTAL DEPTH: 307'

GEOLOGIC LOG

Depth
(feet)

MOORINGS "UNIT" (0-60')

- 0-10 Clay - very light gray; abundant sand; fine medium grained; subangular to subrounded; quartz; some opaques.
- 10-20 Clay - generally reddish orange with gray and red blebs; slightly sandy; fine to medium grained; some quartz; few opaques.
- 20-30 Clay - light reddish orange with gray and red blebs; slightly sandy; fine to medium grained; few opaques.
- 30-40 Sand - pale yellowish orange; slightly clayey; silty; fine to medium grained; subangular to subrounded; well sorted; quartz; feldspar; some opaques.
- 40-50 Sand - pale yellowish orange; slightly clayey; medium to coarse grained; subangular to subrounded; moderately well sorted; quartz; feldspar.
- 50-60 Sand - grayish orange; moderately clayey; very coarse with some medium grains and some granules; subangular to subrounded; moderate sorting; quartz; feldspar.

YORKTOWN FORMATION (60-110)

- 60-70 Sand - light brownish gray; slightly clayey; medium to coarse grains; subangular to subrounded; moderate sorting; quartz; 25% coquina fragments; 2% ferricrete; spines; some feldspar; ostracodes common; forams common (inc. Textularia); few glauconite grains.
- 70-80 Sand - light gray; moderately clayey; medium to coarse grains; subangular; moderate sorting; quartz; 25% coquina fragments; spines abundant; ostracodes; forams (inc. Quinqueloculina and Textularia); few black phosphatic fragments.
- 80-90 Shell hash - light gray; moderately clayey; abundant sand; hash is gravel size (4-6 mm); sand is fine-grained, subangular, and well sorted; quartz; some granules.

Depth
(feet)

- 90-100 Shell hash - light gray; moderately clayey; abundant sand; hash is granule size (2-4 mm); sand is fine to medium grained; subangular to subrounded; moderately well sorted; quartz; forams; some black phosphatic fragments; spines.
- 100-110 Shell hash and sand - light gray; abundant clay; hash 60%; sand 40%; hash is gravel size; sand is medium grained, subangular to subrounded, and well sorted; quartz; shell fragments; black phosphatic fragments; granules.
- CALVERT FORMATION (110-170)
- 110-120 Sand - light gray; abundant clay; 25% shell fragments; sand is fine to medium grained, subangular to rounded, and moderately sorted; quartz; black phosphate fragments; forams (inc. Textularia and Nonion); few pebbles; spines.
- 120-130 Clay and sand - light gray; abundant clay; moderate sand; silty; fine to medium grained; subangular to rounded; moderately sorted; quartz; 20% shell fragments; black phosphatic fragments; forams (inc. Buccella and Nonion); spines.
- 130-140 Clay and sand - light gray; abundant clay; moderate sand; silty; fine to medium grained; subangular to rounded; moderately sorted; few pebbles; quartz; 15% shell fragments; teeth; black phosphatic fragments; forams (inc. Nonion); few bone fragments; spines.
- 140-150 Clay and sand - light gray; abundant clay; moderate sand; silty; fine to medium grained; pebbles; few granules; subangular to rounded; moderately sorted; quartz; 10% shell fragments; bone fragments; few black phosphatic fragments; foram (inc. Nonion); spines; ostracode .
- 150-160 Clay - greenish gray with red and yellow blebs; silty; abundant sand; fine to medium grained; few pebbles; few granules; subangular to rounded; moderately sorted; quartz; 5% shell fragments; black phosphatic fragments; teeth; forams (inc. Nonion and Buccella); spines; few glauconite grains.
- 160-170 Clay - greenish gray; silty; sandy; medium grained; subrounded; moderately well sorted; quartz; 10% shell fragments inc. gastropod; black phosphatic fragments; teeth; few glauconite grains; spines.

Depth
(feet)

NANJEMOY FORMATION (170-210)

- 170-180 Sand and limestone - light gray; abundant clay; silty; fine to coarse grained; subangular to rounded; poorly sorted; quartz; 35% limestone and shell fragments; some glauconite; some black phosphatic fragments; spines; forams (inc. Buccella and Textularia); ostracodes.
- 180-190 As above, no Textularia.
- 190-200 Clay and sand - light gray; abundant clay; moderate sand; silty; fine to coarse grained; subangular to rounded; poorly sorted; quartz; 25% sandy limestone and shell fragments; 25% glauconite; spines; few bone fragments; foram (inc. Buccella); some pyrite.
- 200-210 Clay - medium light gray; silty; sand moderate; medium to coarse grained; subrounded to rounded; moderately well sorted; quartz; 5% glauconite; spines; few bone fragments; ostracode.

MATTIPONI FORMATION (210-290)

- 210-220 Sand - medium light gray; clay abundant; medium to coarse grained; subrounded to rounded; well sorted; quartz; 50% glauconite; some pyrite; few spines; shell fragments; bone fragment .
- 220-230 Sand - light olive; clay abundant; medium to coarse grained; subrounded to rounded; well sorted; quartz; 70% glauconite; some pyrite; sandy limestone and shell fragments.
- 230-240 Sand - olive gray; clay abundant; fine to medium grained; subrounded to rounded; moderately well sorted; quartz; 80% glauconite; some pyrite; shell fragments; few spines.
- 240-250 Sand - grayish olive; clay abundant; fine to medium grained; subangular to rounded; well sorted; quartz; 70% glauconite; shell fragments; some pyrite; few limestone fragments; spines; forams (inc. Robulus).

Depth
(feet)

- 250-260 Sand - grayish olive green; clay abundant; fine to medium grained; few granules; subangular to rounded; well sorted; quartz; 80% glauconite; shell fragments; some pyrite; forams (inc. Nodosaria); spines.
- 260-270 Sand - grayish olive; clay abundant, some red and yellow clay; fine to medium grained; subangular to rounded; well sorted; few granules; few pebbles; quartz; 80% glauconite; shell fragments; some pyrite; limestone fragment.
- 270-280 As above, but 90% glauconite.
- 280-290 Sand - grayish olive; clay abundant; fine to medium grained; subangular to rounded; well sorted; quartz; 90% glauconite; few shell fragments; bone fragments; spines.
- PATUXENT FORMATION (290-307)
- 290-300 Sand - light brownish gray; medium to coarse grained; subangular to subrounded; moderately well sorted; quartz; some feldspar; some glauconite; few limestone and shell fragments; few garnet grains; few bone fragments.
- 300-307 Sand - white; medium to very coarse grained; subangular to subrounded; moderately well sorted; quartz; some feldspar; garnet grains; few grains of glauconite.

Logged by: Michael T. Currie

GEOLOGIC SUMMARYThickness
(feet)

60	Moorings "Unit"	Pleistocene
50	Yorktown Formation	Pliocene-Miocene
60	Calvert Formation	Miocene-Eocene
40	Nanjemoy Formation	Eocene
80	Mattiponi Formation	Eocene-Cretaceous
17+	Patuxent Formation	Cretaceous

Virginia Division of Mineral Resources
David A. Hubbard, Jr., Geologist
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