

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

W#: 4218
C#: 190

MAILING ADDRESS:
B 3667
Charlottesville, VA 22903

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

OFFICE ADDRESS:
McCormick Road
Charlottesville, Virginia

OWNER: L. L. Curley Mailing Address: Colonial Beach, Virginia

TENANT: Monroe Bay Est. #2 Mailing Address: _____

DRILLER: Douglas Drilling Co., Inc. Mailing Address: Box 498, Warsaw, Va. 22572

WELL LOCATION: County Westmoreland Approx. 1.2 ~~feet~~ ^{miles} West (direction) of
St. Route 205 and _____ ^{feet} _{miles} (direction) of St. Rds. 628 & 658

(GIVE DIRECTION AND DISTANCE IN FEET OR MILES FROM TWO REFERENCE POINTS - ROADS, TOWNS, RIVERS, ETC. - ON COUNTY HIGHWAY OR OTHER MAP.)

DATE STARTED: _____ DATE COMPLETED: August 2, 1973

TYPE OF DRILL RIG USED: rotary TOTAL DEPTH 460 feet

WATER LEVEL: Stands 24 feet below surface OR (completed at 452')

has NATURAL flow of _____ gallons per minute.

YIELD TEST: Method air

Drawdown 56 feet

Rate 125 gal. per min.

Duration 3 hrs., _____ min.

WATER ZONES: from _____ to _____ feet

from _____ to _____ feet

from 427 to 447 feet

WATER: Color _____ Taste _____

Odor _____ Temp. _____ °F

WELL TO SUPPLY: (check one) Home _____

Farm _____ Town _____ School _____

Industry _____ Other subdivision

WATER ANALYSIS AVAILABLE: Yes _____ No X

DRILL CUTTINGS SAVED: 44 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: _____

HOLE SIZE: 10 3/4 inches from 0 to 105 feet

8 3/8 inches from 105 to 228 feet

5 7/8 inches from 228 to 460 feet

SCREEN SIZE: _____ inches from _____ to _____ feet

3 inches from 427 to 447 feet

_____ inches from _____ to _____ feet

CASE SIZE: 6 inches from 0 to 228 feet

WEIGHT: 3 inches from 228 to 427 feet

3 inches from 447 to 452 feet

GROUTING: Method tremmie pipe

Material neat cement Depth 228 feet

PUMP: Type _____

Capacity _____ gal. per min

Depth of intake _____ feet

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'	approx.	20' Fine sand with clay binder	
20'	approx.	30' Fine sand with clay binder and shell	
30'	approx.	60' Fine sand with clay binder and some shell	
60'	approx.	190' Fine sand with grey clay binder	
190'	approx.	230' Fine sand with red clay binder	
230'	approx.	250' Fine sand with grey clay binder	
250'	approx.	431' Fine sand with varying % clay binder	
431'	approx.	453' Coarser and fine sands	Screen, water 427-447'
453'	approx.	460' Fine sand with clay binder	Gravel base

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

INTERVAL SHEET

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Well Repository No.: W#: 4218
C#: 190
Sample Interval: from 0 to: 460

Date rec'd: 2/25/74 Date Processed: 7/10/75

PROPERTY: L. L. Curley

Number of samples: 41

COMPANY: Douglass Drilling Co., Inc.

Total Depth: 460'

COUNTY: Westmoreland (Col. Beach)

Oil or Gas: Water: Exploratory:

From-To	From-To	From-To	From-To	From-To
0 - 11	323 - 333	-	-	-
11 - 22	333 - 344	-	-	-
22 - 32	344 - 355	-	-	-
32 - 43	355 - 366	-	-	-
43 - 54	366 - 376	-	-	-
54 - 65	376 - 387	-	-	-
65 - 75	387 - 398	-	-	-
75 - 86	398 - 409	-	-	-
86 - 97	X	-	-	-
97 - 108	431 - 442	-	-	-
108 - 118	442 - 453	-	-	-
118 - 129	453 - 460	-	-	-
129 - 140	-	-	-	-
140 - 151	-	-	-	-
151 - 161	-	-	-	-
161 - 172	-	-	-	-
172 - 183	-	-	-	-
183 - 194	-	-	-	-
194 - 204	-	-	-	-
204 - 215	-	-	-	-
215 - 226	-	-	-	-
226 - 237	-	-	-	-
237 - 247	-	-	-	-
247 - 258	-	-	-	-
258 - 269	-	-	-	-
269 - 280	-	-	-	-
280 - 290	-	-	-	-
290 - 301	-	-	-	-
301 - 312	-	-	-	-
312 - 323	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-

All intervals have both washed and unwashed samples.

OWNER: L. L. Curley
(Monroe Bay Est. #2)
DRILLER: Douglas Drilling Co., Inc.
COUNTY: Westmoreland
(Colonial Beach)

W#: 4218
C#: 140
TOTAL DEPTH: 460'
QUAD: Colonial Beach South

GEOLOGIC LOG

Depth
(feet)

- 0 - 11 Sand - grayish yellow; abundant clay; fine to medium grained, some coarse grains; subangular to subrounded; moderately well sorted; quartz; 5% ferricrete; feldspar; few grains of glauconite.
- 11 - 22 Sand - yellowish gray; slightly clayey; fine to coarse grained, some granules, few pebbles; subangular to subrounded; moderately sorted, quartz; feldspar; 2% opaques; few flakes of muscovite.
- 22 - 32 Clay - light olive gray; moderate sand; fine grained, some medium grains; subangular to subrounded; well sorted, 15% shell fragments; 10% ferricrete; quartz; some vivianite; few black phosphatic fragments.
- 32 - 43 Clay - olive light gray; some shell fragments; few ferricrete fragments; quartz; muscovite; vivianite; few black phosphatic fragments.
- 43 - 54 As above except some quartz; few grains of glauconite.
- 54 - 65 As above except some glauconite.
- 65 - 75 Sand - olive light gray; slightly clayey; fine grained, some granules, some pebbles; subangular to subrounded; moderately well sorted; quartz; 5% glauconite; 2% muscovite; few black phosphatic fragments.
- 75 - 86 Sand - olive light gray; slightly clayey; fine grained, some medium grains, few granules; subangular to rounded; well sorted; quartz; 15% glauconite; 2% muscovite; some shell fragments.
- 86 - 97 Sand - olive light gray; fine grained, some medium grains; subangular to rounded; well sorted; quartz; 25% glauconite; 2% muscovite; some shell fragments; few black phosphatic fragments; vivianite.
- 97 - 108 Sand - olive light gray; abundant clay; fine to medium grained; subangular to rounded; moderately well sorted; 50% glauconite; quartz; some muscovite; few shell fragments.
- 108 - 118 As above except 2% shell fragments; bone fragments.

Depth
(feet)

- 118 - 129 As above plus some coarse grains; some shell fragments.
- 129 - 140 Sand - olive light gray; abundant clay; fine to coarse grained; subangular to subrounded; moderately sorted; 60% glauconite; quartz; 2% shell fragments; some muscovite; few echinoid spines.
- 140 - 151 As above except 40% glauconite; few shell fragments.
- 151 - 161 As above except no echinoid spines.
- 161 - 172 Sand and clay - olive light gray; moderate clay; abundant sand; fine to medium grained; subangular to rounded; moderately well sorted; quartz; 30% glauconite; some muscovite; few shell fragments.
- 172 - 183 As above plus some coarse grains; 10% glauconite; forams.
- 183 - 194 As above plus some light gray clay.
- 194 - 204 Clay - grayish orange pink; moderate sand; medium to coarse grained; subangular to rounded; moderately well sorted; quartz; glauconite 30% of sand fraction; few shell fragments; muscovite.
- 204 - 215 As above.
- 215 - 226 Sand - olive light gray; slightly clayey - grayish orange pink (clasts); medium grained, some very fine grains; subangular to subrounded; well sorted; quartz; 20% glauconite; few shell fragments; muscovite.
- 226 - 237 As above except slightly silty.
- 237 - 247 Sand - light greenish gray; slightly clayey - light greenish gray, white; slightly silty; medium grains, some fine grains, some coarse grains; subangular to rounded; moderately well sorted; quartz (yellowish green stain); 25% glauconite (black, green); some shell fragments; few flakes of muscovite.
- 247 - 258 As above except 30% glauconite.
- 258 - 269 As above.
- 269 - 280 Sand - light greenish gray; slightly clayey; fine to medium grained, some coarse grains; subangular to rounded; moderately well sorted; quartz; 35% glauconite, few shell fragments; forams (inc. Buccella and Nodosaria); ostracode.
- 280 - 290 As above except greenish gray; 40% glauconite; 2% sandy limestone and shell fragments; no Nodosaria.

Depth
(feet)

- 290 - 301 As above.
- 301 - 312 Sand - greenish gray; slightly clayey; medium grained, some coarse grains; subangular to rounded; well sorted; quartz; 35% glauconite (black, brown); 3% shell fragments; few flakes of muscovite; few shell fragments; foram.
- 312 - 323 Sand - greenish gray; slightly clayey; medium grained, some fine grains; subangular to rounded; well sorted; quartz; 35% glauconite; few flakes of muscovite; forams (inc. Buccella).
- 323 - 333 Sand - olive light gray; slightly clayey; medium to coarse grained, some fine grains; subangular to rounded; moderately well sorted; quartz; 40% glauconite, some sandy limestone and shell fragments; few flakes of muscovite; forams (inc. Buccella and Marginulina?).
- 333 - 344 Sand - light greenish gray; moderate silt; medium to coarse grained; subangular to rounded; moderately well sorted; quartz; 30% glauconite; few sandy limestone and shell fragments; muscovite; forams scarce (inc. Buccella).
- 344 - 355 Sand - yellowish gray; abundant clay (clasts); medium grained, some fine grains, some coarse grains; subangular to rounded; moderately well sorted; quartz; 25% glauconite; some sandy limestone fragments; few flakes of muscovite.
- 355 - 366 Sand - light olive brown; moderate clay (clasts); medium to coarse grained, some fine grains; subangular to rounded; moderately well sorted; quartz; 25% glauconite; few flakes of muscovite.
- 366 - 376 As above except 10% glauconite; some muscovite.
- 376 - 387 As above except fine to medium grained, some coarse grains; 5% glauconite.
- 387 - 398 Sand - yellowish gray; moderate clay (clasts); slightly silty; medium to coarse grained; subangular to rounded; well sorted; quartz; 35% glauconite; some sandy limestone fragments; few flakes of muscovite.
- 398 - 409 As above except 50% glauconite.
- 409 - 431 No sample.
- 431- 442 Sand - white; medium to coarse grained, few granules; subangular to subrounded; moderately well sorted; quartz; feldspar; 3% glauconite; some muscovite; few grains of garnet.

Depth
(feet)

442 - 453 As above plus 7% pebbles.

453 - 460 Clay - light olive brown, medium light gray, light brown, very light gray; moderate sand; fine to coarse grained; sub-angular to subrounded; moderately sorted; quartz; 2% glauconite; few grains of feldspar; muscovite.

Logged by: Michael T. Currie
May 22, 1979

OWNER: L. L. Curley
(Monroe Bay Est. #2)

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W#: 4218

GEOLOGIC SUMMARY

<u>Depth</u> <u>(feet)</u>	<u>Thickness</u> <u>(feet)</u>	<u>Rock Unit</u>	<u>Time Rock Unit</u>
0- 22	22	Columbia Group	Pleistocene
22- 75	53	Calvert Formation	Miocene
75-194	119	Nanjemoy Formation	Eocene
194-215	21	Marlboro Clay	Eocene
215-409	194	Aquia Formation	Eocene-Cretaceous
409-431	22	No Sample	
431-460	29	Patuxent Formation	Cretaceous

VIRGINIA DIVISION OF MINERAL RESOURCES
David A. Hubbard, Jr., Geologist
June 28, 1979