W#: 4404
C#: 219

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

MAILING ADDRESS:
B[illegible] 3667
C[illegible]ottesville, VA 22903

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

OFFICE ADDRESS:
McCormick Road
Charlottesville, Virginia

OWNER: Sydnor Hydrodynamics Colonial Court #2 (deepening) Mailing Address: 2111 Magnolia Street Richmond, Va. 23223

TENANT: _____ Mailing Address: _____

DRILLER: Charles Mitchell Mailing Address: 2111 Magnolia Street Richmond, Va. 23223

WELL LOCATION: County Henrico Approx. 1,500 ~~xxxx~~ feet South (direction) of Route 60 and 140 ~~xxxx~~ feet East (direction) of Eanes Lane

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

DATE STARTED: 4/23/75 DATE COMPLETED: 5/16/75

TYPE OF DRILL RIG USED: Rotary TOTAL DEPTH 264 feet

WATER LEVEL: Stands 156'2" feet below surface OR

has NATURAL flow of _____ gallons per minute.

YIELD TEST: Method Pump

Drawdown 20'9" feet

Rate 45 gal. per min.

Duration 48 hrs., _____ min.

WATER ZONES: from 219 to 254 feet

from _____ to _____ feet

from _____ to _____ feet

WATER: Color _____ Taste _____

Odor _____ Temp. _____ °F

WELL TO SUPPLY: (check one) Home _____

Farm _____ Town _____ School _____

Industry _____ Other Subdivision

WATER ANALYSIS AVAILABLE: Yes X No _____

DRILL CUTTINGS SAVED: 26 Yes X No _____

HOLE SIZE: 12 inches from 0 to 262 feet

_____ inches from _____ to _____ feet

_____ inches from _____ to _____ feet

SCREEN SIZE: 6 inches from 219 to 254 feet

_____ inches from _____ to _____ feet

_____ inches from _____ to _____ feet

CASE SIZE: 6 inches from +3 to 219 feet

6 inches from 254 to 259 feet

_____ inches from _____ to _____ feet

GROUTING: Method _____

Material _____ Depth 100 feet

PUMP: Type _____

Capacity _____ gal per min

Depth of intake _____ feet

(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: 6" well was drilled in 1940 by Cable Tool, Screen 153-164, S. L. 110'

10/21/40-S. L. 04/23/75-145'. Material removed from well. Reamed to 12" and drilled to 264'.

(LOG OF WELL) OVER

LOG

FURNISHED BY: Sydnor Hydrodynamics DATE: _____

DEPTH (feet) FROM	DEPTH (feet) TO	TYPE OF ROCK OR SOIL PENETRATED (gravel, clay, etc., hardness, color, etc.)	REMARKS (water, caving, shot, screen, sample, etc.)
0	18	Yellow red, brown clay	
18	38	Brown gravel	
38	96	Blue clay	
96	116	Gray clay	
116	138	Gray and brown clay	
138	151	Gray sand clay	
151	178	Gray clay and sand clay streaks	
178	183	Hard gray sand	
183	205	Sand clay	
205	224	Hard gray sand clay	
224	225	Hard rock	
225	237	Hard gray sand	
237	242	Soft gray sand	
242	255	Hard gray sand	
255	264	Hard white clay	

(Use additional forms if necessary)

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

INTERVAL SHEET

Page 1 of 1

Well Repository No: W#: 4404
C#: 219

Date rec'd:

Date Processed: 7/14/76

Sample Interval: from: 0 to: 263'

PROPERTY: Sydnor Hydrodynamics (deepening - Col. Court #2)

Number of samples: 26

COMPANY: Sydnor Hydrodynamics

Total Depth: 264

COUNTY: Henrico (Richmond)

Oil or Gas: Water X Exploratory:

From-To	From-To	From-To	From-To
0 - 10	250 - 263	-	-
10 - 20	-	-	-
20 - 30	-	-	-
30 - 40	-	-	-
40 - 50	-	-	-
50 - 60	-	-	-
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

OWNER: Sydnor Hydrodynamics
(deepening - Col. Court #2)
DRILLER: Sydnor
COUNTY: Henrico

W#: 4404
C#: 219
TOTAL DEPTH: 264'

GEOLOGIC LOG

Depth (feet)	
0-10	Sand — pale yellowish orange; abundant clay-pale yellowish orange, light gray, brownish red; fine to medium grained; subangular to subrounded; moderately well sorted; quartz; some feldspar.
10-20	Sand — very dark yellowish orange; heavily stained; slightly clayey; medium to coarse grained; subangular to subrounded; moderately well sorted; quartz; feldspar; few opaques.
20-30	Sand — dark yellowish orange; moderate staining; slightly clayey; coarse grained to granular; angular to subrounded; moderately sorted; quartz; feldspar.
30-40	Sand — dark yellowish orange; slight staining; slightly clayey; coarse to very coarse grained, some medium grains; angular to subrounded; moderately sorted; quartz; feldspar; few opaques.
40-50	Sand — dark yellowish orange; slight staining; slightly clayey; granular, some fine grains, some medium grains; angular to subrounded; poorly sorted; quartz; feldspar; few opaques.
50-60	Sand — olive light gray; moderate clay; very fine grained to granular (20%); angular to subrounded; poorly sorted; quartz; feldspar; few grains of glauconite.
60-70	Granules — light olive gray; slightly clayey; granular, some medium grains, some coarse grains; angular to subrounded; moderately sorted; quartz; feldspar.
70-80	As above except moderate clay; some fine grains; few grains of glauconite.
80-90	Granules — light olive gray; moderate clay; granular, some medium grains, some coarse grains, some pebbles; angular to subrounded; poorly sorted; quartz; feldspar; 3% glauconite.
90-100	Sand — olive light gray; abundant clay; medium to coarse grained, some granules; subangular to rounded; moderately sorted; 50% glauconite; quartz; few grains of feldspar.
100-110	Sand — olive light gray; moderate clay; very fine to coarse grained; subangular to rounded; poorly sorted; quartz; 30% glauconite; some muscovite; few grains of feldspar.

Depth (feet)	
110-120	Sand — olive light gray; moderate clay-olive light gray, light brown, very light gray; very fine grained to granular; subangular to subrounded; poorly sorted; quartz; feldspar; 3% glauconite; some muscovite.
120-130	Sand — olive light gray; slightly clayey; very fine to medium grained; subangular to rounded; moderately well sorted; quartz; 20% glauconite; some muscovite; few grains of feldspar.
130-140	As above plus some coarse grains; moderately sorted.
140-150	As above except 5% glauconite.
150-160	Sand — off white; slightly clayey; coarse to very coarse grained, some granules; subrounded; moderately well sorted; quartz; feldspar; some glauconite.
160-170	As above plus some medium grains; 2% glauconite.
170-180	As above.
180-190	As above except 3% glauconite; few grains of garnet.
190-200	As above except medium to very coarse grained, some granules; moderately sorted.
200-210	Sand — off white; slightly clayey; coarse to very coarse grained, 15% granules; subangular to subrounded; moderately sorted; quartz; feldspar; few grains of glauconite.
210-220	Sand —off white; slightly clayey; coarse grained to granular; 5% pebbles; subrounded; moderately sorted; quartz; feldspar.
220-230	As above except some pebbles.
230-240	As above except 3% pebbles.
240-250	Sand — off white; slightly clayey; coarse grained to granular, 10% pebbles; subrounded; moderately sorted; quartz; feldspar; few grains of garnet.
250-263	Sand — off white; slightly clayey; coarse grained, some medium grains, 5% granules, few pebbles; subrounded; moderately sorted; quartz; feldspar; few grains of garnet; glauconite.
263-264	No Sample.

Logged by: Michael T. Currie

GEOLOGIC SUMMARY

Depth (feet)	Thickness (feet)	Rock Unit	Time Rock Unit
0-50	50	"Moorings Unit"	Pleistocene
50-90	40	Calvert Formation	Miocene-Eocene
90-150	60	Nanjemoy Formation	Eocene
150-263	113+	Patuxent Formation	Cretaceous

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