

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

W - 3389
C - 181

MAILING ADDRESS:

DIVISION OF MINERAL RESOURCES

OFFICE ADDRESS:

Box 3667

JAMES L. CALVER, COMMISSIONER

McCormick Road

Charlottesville, VA 22903

WATER WELL COMPLETION REPORT

Charlottesville, Virginia

OWNER: William Barrack (Cox) Mailing Address: Colonial Beach, Va.
Westmoreland Development Corp.

TENANT: (Potomac Shores #3) Mailing Address: _____

DRILLER: Douglas & Dickinson, Inc. Mailing Address: Box 498 Warsaw, Va.

WELL LOCATION: County Westmoreland Approx. 1 1/2 ^{xxx}feet miles southwest (direction) of
Colonial Beach and 1 1/2 ^{xxx}feet miles northeast (direction) of Oak Grove

(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: Sept. 3, 1971

TYPE OF DRILL RIG USED: Rotary TOTAL DEPTH 433 feet

WATER LEVEL: Stands 18 feet below surface OR
has NATURAL flow of _____ gallons per minute.

YIELD TEST: Method Air
Drawdown 32 feet
Rate 40 gal. per min.
Duration - hrs., - min.

HOLE SIZE: 6 inches from 0 to 147 feet
3 7/8 inches from 147 to 433 feet
_____ inches from _____ to _____ feet

WATER ZONES: from 398 to 448 feet
from _____ to _____ feet
from _____ to _____ feet

SCREEN SIZE: 2 inches from 398 to 418 feet
_____ inches from _____ to _____ feet
_____ inches from _____ to _____ feet

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

CASE SIZE: 4 inches from 0 to 147 feet
2 inches from 147 to 398 feet
2 inches from 418 to 433 feet

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

GROUTING: Method None
Material _____ Depth _____ feet

WATER ANALYSIS AVAILABLE: Yes _____ No X

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

DRILL CUTTINGS SAVED: Yes 41 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: _____

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

INTERVAL SHEET

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C 181
 Well Repository No: 3389

Date rec'd: 2-22-72 Date Processed: 2-25-72

Sample Interval: from 0 to: 433'

PROPERTY: William Barrack (Rev. Cox)
 (Potomac Shores #3)

Number of samples: 41

COMPANY: Douglas & Dickinson, Inc.

Total Depth: 433'

COUNTY: Westmoreland (Colonial Beach)

Oil or Gas: Water: * Exploratory:

From-To	From-To	From-To	From-To
0 - 10	266 - 277	-	-
10 - 21	277 - 287	-	-
21 - 31	289 - 298	-	-
31 - 42	298 - 309	-	-
42 - 53	309 - 320	-	-
53 - 64	320 - 330	-	-
64 - 74	330 - 341	-	-
74 - 85	341 - 351	-	-
85 - 95	351 - 362	-	-
95 - 106	362 - 373	-	-
106 - 117	373 - 384	-	-
117 - 128	384 - 394	-	-
128 - 138	394 - 405	-	-
138 - 149	405 - 415	-	-
149 - 159	415 - 426	-	-
159 - 170	426 - 433	-	-
170 - 181	-	-	-
181 - 192	-	-	-
192 - 202	-	-	-
202 - 213	-	-	-
213 - 223	-	-	-
223 - 234	-	-	-
234 - 245	-	-	-
245 - 256	-	-	-
256 - 266	-	-	-

Unwashed only.

OWNER : William Barrack
DRILLER: Douglas and Dickinson
COUNTY : Westmoreland
(Colonial Beach)

W# : 3389
C# : 181
TOTAL DEPTH: 433'
QUAD : Colonial Beach
South

GEOLOGIC LOG

Depth
(feet)

- 0-10 Sand- grayish orange; moderate clay (clasts); fine to coarse grained, few granules; subangular to subrounded; moderately sorted; quartz; feldspar; few grains of glauconite.
- 10-21 Sand- grayish orange; some moderately to very heavily stained grains; slightly clayey (clasts); fine to very coarse grained, 15% granules, some pebbles; subangular to subrounded; poorly sorted; quartz; feldspar; some ferricrete; some opaques.
- 21-31 Sand- off-white; coarse to very coarse grained; subangular to subrounded; well sorted; quartz; feldspar; few grains of glauconite; opaques.
- 31-42 Sand and granules- yellowish-gray; slightly clayey (clasts); very coarse grained, 40% granules; subrounded; well sorted; quartz; 10% shell fragments; feldspar; trace of vivianite.
- 42-53 Clay- light olive gray; slightly sandy; fine grained; subangular; well sorted; quartz; 7% shell fragments; few grains of glauconite; muscovite.
- 53-64 As above except some sand.
- 64-74 As above except 15% shell fragments; fine to medium grained; moderately well sorted.
- 74-85 As above except 5% shell fragments.
- 85-95 Sand- olive light gray; abundant clay; fine grained, some medium grains; subangular to rounded; well sorted; 60% glauconite (green, black); quartz; 3% shell fragments; 2% muscovite; few black phosphatic fragments; forams scarce (inc. Robulus and Buccella).
- 95-106 As above except 3% muscovite; 2% shell fragments.
- 106-117 Sand- olive light gray; slightly clayey; fine to medium grained; subangular to rounded; well sorted; 70% glauconite; quartz; 2% shell fragments; some muscovite.

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Depth
(feet)

- 117-128 As above except moderate clay; some coarse grains; moderately well sorted; 60% glauconite.
- 128-138 Sand- olive light gray; slightly clayey; medium to coarse grained; subrounded to rounded; moderately well sorted; 60% glauconite; quartz; few shell fragments; muscovite.
- 138-149 As above plus some fine grains.
- 149-159 As above except 50% glauconite.
- 159-170 As above except medium grained, some fine grains; well sorted; ostracode; no shell fragments.
- 170-181 Sand- olive light gray; moderate clay; medium grained; sub-angular to rounded; well sorted; quartz; 20% glauconite; some black phosphate material; few flakes of muscovite; forams (inc. Robulus).
- 181-192 As above except few black phosphatic fragments; forams scarce (inc. Nodosaria and Robulus).
- 192-202 As above except forams rare (inc. Robulus).
- 202-213 Sand- olive light gray; moderate clay- olive light gray, moderate orange pink (clasts); medium grained, some coarse grains; subangular to rounded; moderately well sorted; quartz; 35% glauconite; few flakes of muscovite; forams scarce (inc. Robulus).
- 213-223 Sand- light olive gray; medium to coarse grained; subangular to rounded; moderately well sorted; quartz; 40% glauconite (brown, black); few sandy limestone and shell fragments; muscovite.
- 223-234 As above.
- 234-245 Sand- olive light gray; medium grained, some coarse grains; subrounded to rounded; well sorted; 60% glauconite (black, brown, green); quartz.
- 245-256 As above, plus some limestone and shell fragments.
- 256-266 Sand- olive light gray; medium grained; subrounded to rounded; well sorted; 50% glauconite; quartz; some sandy limestone and shell fragments; forams; ostracodes.

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Depth
(feet)

- 266-277 As above except 2% sandy limestone fragments; few shell fragments; no ostracodes.
- 277-287 Sand- olive light gray; medium grained; subangular to rounded; well sorted; 50% glauconite (black, brown, green); quartz; few sandy limestone and shell fragments; forams common (inc. Buccella?, Cibicides, and Robulus).
- 287-298 As above except some coarse grains; forams (inc. ?Buccella); gypsum.
- 298-309 As above except forams (inc. Robulus, Buccella?, and Globigerina).
- 309-320 As above except forams common (inc. Buccella?, Robulus, Nodosaria, and Guttulina); no gypsum.
- 320-330 As above except forams (inc. Robulus, Buccella?, and Globulina).
- 330-341 Sand- dusky yellow; slightly clayey; medium to coarse grained; subangular to rounded; moderately well sorted; quartz; 40% glauconite; few flakes of muscovite; forams scarce (inc. Robulus and Buccella).
- 341-351 Sand- light olive gray; medium grained; subangular to rounded; well sorted; quartz; 35% glauconite; few flakes of muscovite; forams (inc. Buccella and Cibicides).
- 351-362 As above except slightly clayey; light olive gray, light brown.
- 362-373 As above plus some fine grains, some coarse grains; moderately well sorted; no Cibicides.
- 373-384 Sand- yellowish gray; slightly clayey (clasts)- yellowish gray, light brown; medium to coarse grained; subangular to subrounded; moderately well sorted; quartz; 5% glauconite; feldspar; some muscovite.
- 384-394 Sand- off-white; coarse grained; subrounded; well sorted; quartz; feldspar; some glauconite; muscovite.
- 394-405 As above except 2% glauconite; few grains of garnet.
- 405-415 Sand- off-white; coarse to very coarse grained, some granules; subrounded; moderately well sorted; quartz; feldspar; some glauconite; muscovite; few grains of garnet.
- 415-426 As above except 10% granules.

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Depth
(feet)

426-433 Sand- off-white; coarse to very coarse grained, 3% granules;
subrounded; moderately well sorted; quartz; feldspar; few
grains of glauconite; muscovite; garnet.

Logged by: Michael T. Currie
April 18, 1979