

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

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: J. F. Foxwell, Jr. Mailing Address: Mt. Holly, Virginia

TENANT: _____ Mailing Address: _____

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

WELL LOCATION: County Westmoreland Approx. 1 1/2 ~~feet~~ miles 300 north (direction) of
Mt. Holly and 300 ~~feet~~ south (direction) of St. Rd. 665
1000' east Nomini Ck.

(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: July 9, 1970

TYPE OF DRILL RIG USED: Rotary TOTAL DEPTH 370 feet
(pilot hole to 399')

WATER LEVEL: Stands 13 feet below surface OR
has NATURAL flow of _____ gallons per minute.

YIELD TEST: Method _____
Drawdown _____ feet
Rate 60 gal. per min.
Duration _____ hrs., _____ min.

HOLE SIZE: 6 inches from 0 to 346 feet
5 7/8 inches from 346 to 370 feet
_____ inches from _____ to _____ feet

WATER ZONES: from 326 to 366 feet
from _____ to _____ feet
from _____ to _____ feet

SCREEN SIZE: 3 3/4 inches from 326 to 346 feet
3 inches from 346 to 356 feet
2 1/2 inches from 356 to 366 feet

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

CASE SIZE: 4 inches from 0 to 326 feet
2 1/2 inches from 366 to 370 feet
_____ inches from _____ to _____ feet

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

GROUTING: Method _____
Material _____ Depth _____ feet

WATER ANALYSIS AVAILABLE: Yes No _____

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

DRILL CUTTINGS SAVED: Yes 37 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

Page 1 of 1
 Date rec'd: 11/19/70 ; processed 3/11/71
 PROPERTY: J. F. Foxwell, Jr.
 COMPANY: Douglas & Dickinson, Inc.
 COUNTY: Westmoreland (Mt. Holly)

C-171
 Well Repository No: 3103
 Sample Interval: from 10 to 399'
 Number of samples: 37
 Total Depth: 399'
 Oil or Gas: Water: x Exploratory:

From-To	From-To	From-To	From-To
-	262 - 273 *	-	-
10 - 21	273 - 283	-	-
21 - 31	283 - 294 *	-	-
31 - 42	284 - 304 *	-	-
42 - 52	304 - 315 *	-	-
52 - 63	315 - 325 *	-	-
63 - 73	325 - 336 *	-	-
73 - 84	336 - 346 *	-	-
84 - 94	346 - 357 *	-	-
94 - 105	357 - 367 *	-	-
105 - 115	367 - 378 *	-	-
115 - 126	378 - 388 *	-	-
126 - 136	388 - 399 *	-	-
136 - 147	-	-	-
147 - 157	-	-	-
157 - 168 *	-	-	-
168 - 178	-	-	-
178 - 189 *	-	-	-
189 - 199 *	-	-	-
199 - 210	-	-	-
210 - 220	-	-	-
220 - 231	-	-	-
231 - 241	-	-	-
241 - 252	-	-	-
252 - 262	-	-	-

* Washed and unwashed samples; rest have unwashed samples only



OWNER: J.F. Foxwell, Jr.
DRILLER: Douglas and Dickinson
COUNTY: Westmoreland

W#: 3103
C#: 171
TOTAL DEPTH: 399'
QUAD: Machodoc

GEOLOGIC LOG

Depth
(feet)

- 0 - 31 No sample.
- 31 - 42 Sand -- off white; medium to coarse grained, some fine grains, some granules, few pebbles; subangular to subrounded; moderately sorted; quartz; feldspar; few opaques; muscovite.
- 42 - 52 Clay -- yellowish gray; some quartz sand; few granules, few pebbles; some shell fragments; quartz; feldspar.
- 52 - 63 As above plus few pieces of lignite.
- 63 - 73 Clay -- yellowish gray; some granules, some pebbles; quartz; few grains of feldspar; muscovite.
- 73 - 84 Clay -- light olive gray; moderate sand; fine grained, few granules, few pebbles; subangular to subrounded; moderately well sorted; quartz; few black phosphatic fragments.
- 84 - 94 Sand and clay -- light olive gray; moderate clay; abundant sand; fine grained, some granules, few pebbles; subangular to subrounded; moderately sorted; quartz; few black phosphatic fragments; forams (inc. Robulus and Siphogenerina).
- 94 - 105 Clay -- light olive gray; slightly sandy; fine grained, few granules; subangular to subrounded; well sorted; quartz; few flakes of muscovite; few diatoms; forams scarce (inc. Nonion).
- 105 - 115 As above except forams (inc. Bulimina and Nonion).
- 115 - 126 Clay -- light olive gray; few grains of quartz; muscovite; forams rare (inc. Nonion): diatom.
- 126 - 136 As above except forams scarce (inc. Nonion and Robulus): no diatoms.
- 136 - 147 Clay -- light olive gray; slightly sandy; coarse grained, few pebbles; subangular to subrounded; moderately sorted; quartz; few flakes of muscovite.
- 147 - 157 Sand -- olive light gray; moderate clay -- olive light gray, light olive gray; medium to coarse grained, some granules, few pebbles; subangular to subrounded; moderately sorted; quartz; 3% shell fragments; few black phosphatic fragments; few echinoid spines.

Depth
(feet)

- 157 - 168 Sand - light olive gray; moderate clay; medium to coarse grained, some very coarse grains, some granules, few pebbles; subangular to subrounded; moderately sorted; quartz; 20% limestone and shell fragments; 2% glauconite; few black phosphatic fragments; few echinoid spines; pyrite; forams rare (inc. Uvigerina).
- 168 - 178 As above except 7% limestone and shell fragments; 3% glauconite; no forams.
- 178 - 189 Sand and coquina - light olive gray; slightly clayey; medium to coarse grained, few granules; subangular to subrounded; moderately well sorted; 60% limestone and shell fragments; quartz; 2% glauconite; few echinoid spines; pyrite; forams (inc. Buccella).
- 189 - 199 Sand - light olive gray; medium grained, some coarse grains, some granules; subangular to subrounded; moderately well sorted; quartz; 10% shell fragments; 5% glauconite; some sandy limestone fragments; few echinoid spines; pyrite; forams (inc. Buccella).
- 199 - 210 Sand - olive light gray; slightly clayey; medium grained, few granules, few pebbles; subangular to rounded; well sorted; quartz; 10% glauconite 5% shell fragments; some muscovite; forams (inc. Robulus, Buccella, and Globigerina); pyrite.
- 210 - 220 Sand - olive light gray; slightly clayey; medium grained, some coarse grains; subangular to rounded; well sorted; quartz; 25% glauconite (black; brown, green); some shell fragments; some muscovite; few echinoid spines; pyrite; forams (inc. Robulus and Buccella).
- 220 - 231 As above except medium to coarse grained; few granules; moderately well sorted; 40% glauconite.
- 231 - 241 As above except 50% glauconite; few flakes of muscovite.
- 241 - 252 As above plus Nodosaria.
- 252 - 262 Sand - olive light gray; moderate clay; medium to coarse grained, few pebbles; subangular to rounded; moderately well sorted; 60% glauconite; quartz; some muscovite; few shell fragments; forams rare (inc. Robulus).
- 262 - 273 Sand - olive light gray; slightly clayey; medium grained, some coarse grains; subangular to rounded; well sorted; 70% glauconite; quartz; few shell fragments; muscovite; forams rare (inc. Dentalina).
- 273 - 283 As above except medium to coarse grained, some granules; moderately sorted; no forams.
- 283 - 294 As above plus few pebbles; moderately sorted; 60% glauconite; forams scarce (inc. Buccella and Globulina ?).

Depth
(feet)

- 294 - 304 Sand -- olive light gray; slightly clayey; medium grained, some coarse grains; subrounded to rounded; well sorted; 75% glauconite; quartz; few flakes of muscovite; few shell fragments; pyrite.
- 304 - 315 Sand -- olive light gray; moderate clay; medium to coarse grained, few granules; subrounded to rounded; moderately well sorted; 60% glauconite; quartz; some shell fragments; few flakes of muscovite.
- 315 - 325 As above except light olive gray; some granules; 40% glauconite.
- 325 - 336 Sand -- light olive gray; some moderately stained grains; medium to coarse grained; subangular to rounded; well sorted; quartz; 25% glauconite; 5% shell fragments; few flakes of muscovite; forams rare (inc. Robulus).
- 336 - 346 As above except some shell fragments; no forams.
- 346 - 357 As above except 40% glauconite.
- 357 - 367 Sand -- light olive gray; some stained grains; medium grained, some coarse grains; subangular to rounded; well sorted; quartz; 35% glauconite; few shell fragments; muscovite.
- 367 - 378 As above.
- 378 - 388 As above.
- 388 - 399 As above plus 5% limestone and shell fragments.

Logged by: Michael T. Currie
April 9, 1979

OWNER: J. F. Foxwell, Jr.
DRILLER: Douglas & Dickinson, Inc.
COUNTY: Westmoreland (Mt. Holly)

VDMR # 3103
WWCR # 171
TOTAL DEPTH : 399'

GEOLOGIC SUMMARY

<u>Depth (feet)</u>	<u>Rock Unit</u>	<u>Age</u>
0-10	No samples	--
10-31	Columbia Group	Pleistocene
31-126	Yorktown and St. Marys formations	Late Miocene
126-199	Calvert Formation	Middle Miocene
199-252	Nanjemoy Formation	Middle Eocene
252-399	Mattaponi Formation	Paleocene

Virginia Division of Mineral Resources
Robert H. Teifke - Geologist
April 8, 1971

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GEOLOGIC SUMMARY

<u>Depth</u> <u>(feet)</u>	<u>Thickness</u> <u>(feet)</u>	<u>Rock Unit</u>	<u>Time</u> <u>Rock Unit</u>
0-31	31	No Sample	
31-42	11	Columbia Group	Plistocene
42-94	52	Choptank Formation	Miocene
94-147	53	Calvert Formation	Miocene
147-399	252	Nanjemoz-Aquia Formations	Eocen-Cretaceous

VIRGINIA DIVISION OF MINERAL RESOURCES
David A. Hubbard, Jr., Geologist
April 9, 1979.