

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

W#: 4229

C#: 191

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: Gordon Horner Mailing Address: Box 98, Route 1
Montross VA 22520

TENANT: _____ Mailing Address: _____

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

WELL LOCATION: County Westmoreland Approx. 0.2 miles Southeast (direction) of _____

St. Rd. 624 and 0.5 ^{feet} miles Southwest (direction) of Potomac River at St. Rd. 624.

(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: 14 June 1974

TYPE OF DRILL RIG USED: Rotary TOTAL DEPTH 329 feet

WATER LEVEL: Stands 29 feet below surface OR

has NATURAL flow of _____ gallons per minute.

YIELD TEST: Method Air

Drawdown 81 feet

Rate 30 gal. per min.

Duration 2 hrs., _____ min.

WATER ZONES: from _____ to _____ feet

from 284 to 294 feet

from 309 to 319 feet

WATER: Color _____ Taste _____

Odor _____ Temp. _____ °F

WELL TO SUPPLY: (check one) Home _____

Farm _____ Town _____ School _____

Industry _____ Other Subdivision

WATER ANALYSIS AVAILABLE: Yes _____ No XX

DRILL CUTTINGS SAVED: Yes 31 XX 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: 11 inches from 0 to 51 feet

6 inches from 51 to 147 feet

3 7/8 inches from 147 to 329 feet

SCREEN SIZE: _____ inches from _____ to _____ feet

2 inches from 284 to 294 feet

2 inches from 309 to 319 feet

CASE SIZE: 4 inches from 0 to 147 feet

2 inches from 147 to 284 feet

2 inches from 294 to 309 feet

2 inches from 319 to 329 feet

GROUTING: Method tremmie pipe

Material neat cement Depth 51 feet

PUMP: Type _____

Capacity _____ gal. per min

Depth of intake _____ feet

LOG

W#: 4232
 C#: 191

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	30	fine and coarse sands with gravel and clay binder	
30	75	fine sand with clay binder	
75	85	fine sand with clay binder and shell trace	
85	250	fine sand with varying % clay binder	
250	265	fine sand with clay binder and shell trace	
265	280	fine and medium sands with some clay binder	
280	295	fine and medium sands with some shell	Screen - water
295	310	fine and medium sands with some clay binder	
310	320	shellbed - fused rock and shell	screen - water
320	330	fine and medium sands with some clay binder and shell trace	

(Use additional forms if necessary)

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

INTERVAL SHEET

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Date rec'd: 7/18/74 Date Processed: 7/18/75

PROPERTY: Gordon Horner

COMPANY: Douglas

COUNTY: Westmoreland
 (Morris Store)

Well Repository No: W#: 4229

C# 191
 Sample Interval: from: to:
 0 329

Number of samples: 32

Total Depth: 324'

Oil or Gas: Water: Exploratory:

From-To	From-To	From-To	From-To
0 - 10	256 - 266	-	-
10 - 20	266 - 276	-	-
20 - 30	276 - 287	-	-
30 - 41	287 - 297	-	-
41 - 51	297 - 307	-	-
51 - 61	307 - 318	-	-
61 - 71	318 - 329	-	-
71 - 82	-	-	-
82 - 92	-	-	-
92 - 102	-	-	-
102 - 112	-	-	-
112 - 123	-	-	-
123 - 133	-	-	-
133 - 143	-	-	-
143 - 153	-	-	-
153 - 164	-	-	-
164 - 174	-	-	-
174 - 184	-	-	-
184 - 194	-	-	-
194 - 205	-	-	-
205 - 215	-	-	-
215 - 225	-	-	-
225 - 235	-	-	-
235 - 246	-	-	-
246 - 256	-	-	-

Both washed and unwashed samples.

OWNER: Gordon Horner
DRILLER: Douglas
COUNTY: Westmoreland

W#: 4229
C#: 191
TOTAL DEPTH: 329'
QUAD: Col. Beach S.

GEOLOGIC LOG

Depth
(feet)

- 0 - 10 Sand -- grayish orange; slightly to heavily stained; coarse grained to gravel (30%); subangular to subrounded; poorly sorted; quartz; feldspar; some opaques.
- 10 - 20 Sand and gravel -- multicolored; slightly to heavily stained; moderate clay - yellowish gray; coarse grained to granular, some medium grains, 50% pebbles; subangular to subrounded; poorly sorted; quartz; feldspar; some opaques.
- 20 - 30 Sand -- dusky orange; slightly clayey; medium to very coarse grained, some fine grains, 15% granules, 5% pebbles; subangular to subrounded; moderately sorted; quartz; feldspar; some opaques; few grains of glauconite.
- 30 - 41 Clay -- light olive gray; abundant sand; fine grained, some medium grains, some coarse grains; subangular to subrounded; moderately well sorted; quartz; few grains of glauconite; few shell fragments.
- 41 - 51 Clay and sand -- light olive gray, olive light gray; abundant clay; moderate sand; fine grained, few granules; subangular to subrounded; well sorted; quartz; some black phosphatic material; few grains of glauconite; muscovite.
- 51 - 61 Clay -- yellowish gray; slightly silty; moderately diatomaceous; few medium grains of quartz; sand; few black phosphatic fragments; muscovite.
- 61 - 71 As above except slightly diatomaceous; some quartz sand.
- 71 - 82 Clay and sand -- light olive gray; abundant clay; moderate sand; fine to medium grained; subangular to subrounded; moderately well sorted; quartz; 15% glauconite; 3% shell fragments; few black phosphatic fragments; few echinoid spines; muscovite.
- 82 - 92 As above plus some coarse grains; few granules; 3% glauconite; foram.
- 92 - 102 As above except 5% glauconite; forams scarce (inc. Robulus and Buccella).
- 102 - 112 Sand -- olive light gray; moderate clay; fine to coarse grained, some granules; subangular to subrounded; moderately sorted; quartz; some muscovite; some shell fragments; some glauconite; few grains of pyrite.
- 112 - 123 As above except 2% granules; 10% glauconite.

Depth
(feet)

- 123 - 133 Sand and clay -- olive light gray, light olive gray; moderate clay; abundant sand; fine to medium grained, some coarse grains, some granules, few pebbles; subangular to rounded; moderately sorted; quartz; 40% glauconite; some muscovite; some shell fragments.
- 133 - 143 As above except 30% glauconite; 3% shell fragments.
- 143 - 153 As above except 20% glauconite.
- 153 - 164 Sand and clay -- olive light gray; moderate clay; abundant sand; fine to medium grained, some coarse grains, few granules; subangular to rounded; moderately well sorted; quartz; 40% glauconite; 2% shell fragments; few flakes of muscovite.
- 164 - 174 Sand -- olive light gray; abundant clay; fine to medium grained; subangular to rounded; moderately well sorted; 65% glauconite; quartz; few flakes of muscovite; few shell fragments.
- 174 - 184 As above except clay and sand; 50% glauconite; some muscovite.
- 184 - 194 Sand -- olive light gray; abundant clay; medium to coarse grained; subrounded to rounded; moderately well sorted; 50% glauconite; quartz; some muscovite; few shell fragments.
- 194 - 205 Sand and clay -- light olive gray; moderate clay; abundant sand; fine to medium grained; subangular to rounded; moderately well sorted; 60% glauconite; quartz; some shell fragments; muscovite.
- 205 - 215 As above except 40% glauconite; ostracode; no shell fragments.
- 215 - 225 Sand and clay -- light olive gray; moderate clay; abundant sand; fine to coarse grained; subangular to rounded; moderately sorted; quartz; 35% glauconite; some muscovite; few shell fragments; forams rare (inc. Nonion ?).
- 225 - 235 Clay -- very light gray, light olive gray, grayish orange pink; moderate sand; medium grained, some fine grains, some coarse grains; subangular to rounded; moderately well sorted; quartz; glauconite 30% of sand sized fraction; some muscovite.
- 235 - 246 Clay -- moderate orange pink; slightly sandy; medium grained; subangular to rounded; well sorted; quartz; glauconite 40% of sand sized fraction; few flakes of muscovite.
- 246 - 256 Sand -- olive light gray; moderate clay; medium grained, some coarse grains; subangular to rounded; well sorted; quartz; 40% glauconite (black, brown); few flakes of muscovite; forams rare (inc. Nodosaria).

Depth
(feet)

- 256 - 266 As above plus some moderate orange pink clay; 25% glauconite; forams scarce (inc. Nodosaria and Robulus).
- 266 - 276 Sand -- olive light gray; slightly clayey; medium to coarse grained; subangular to rounded; moderately well sorted; quartz; 40% glauconite (black, brown, green); some sandy limestone and shell fragments.
- 276 - 287 As above except 5% sandy limestone and shell fragments.
- 287 - 297 Sand -- olive light gray; slightly clayey - moderate orange pink (clasts); medium grained, some coarse grains; subangular to rounded; well sorted; quartz; 40% glauconite (black, green); few shell fragments; forams (inc. Buccella and Nodosaria).
- 297 - 307 Sandy limestone -- very light gray; moderate sand; medium to coarse grained; subangular to rounded; moderately well sorted; 50% glauconite; quartz.
- 307 - 318 Coquina and sand -- light gray; medium to coarse grained; subangular to rounded; moderately well sorted; 60% sandy limestone fragments; quartz; 20% glauconite; few shell fragments.
- 318 - 329 Sand -- grayish olive; medium to coarse grained; subrounded to rounded; moderately well sorted; 60% glauconite (black, dark green, brown); quartz; some sandy limestone and shell fragments; forams (inc. Nodosaria, Robulus, Guttulina, and Buccella).

Logged by: Michael T. Currie
April 26, 1979