

W-5822
C-232

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

MAILING ADDRESS:
Box 3667
Charlottesville, VA 22903

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

OFFICE ADDRESS:
McCormick Road
Charlottesville, Virginia

OWNER: Town of Wakefield Mailing Address: Wakefield, Virginia

TENANT: _____ Mailing Address: _____

DRILLER: Magette Well Company Mailing Address: Courtland, Virginia

WELL LOCATION: County Wakefield Approx. 50 ^{feet}/_{miles} East (direction) of
Water Tower and _____ (direction) of _____

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

DATE STARTED: 4/23/79 DATE COMPLETED: 5/8/79

TYPE OF DRILL RIG USED: Mud Rotary TOTAL DEPTH 328 feet

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

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

HOLE SIZE: 13 1/4 inches from 0 to 258 feet
8 inches from 258 to 328 feet

SCREEN SIZE: _____ inches from _____ to _____ feet
_____ inches from _____ to _____ feet

WATER ZONES: from _____ to _____ feet
from _____ to _____ feet
from _____ to _____ feet

CASE SIZE: 8 inches from 0 to 258 feet
Inner 6 inches from 251 to 328 feet
_____ inches from _____ to _____ feet

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

GROUTING: Method _____
Material _____ Depth _____ feet

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

PUMP: Type Fairbanks-Morse Submersible
Capacity 338 gal per min
Depth of intake 220' feet

WATER ANALYSIS AVAILABLE: Yes _____ No _____
DRILL CUTTINGS SAVED: 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: _____

LOG

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	12	Clay	
12	24	Yellow Sand	
24	39	Blue Mud	
39	89	Shells, Marl, Grey Sand Mixture	
89	110	Clay	
110	119	Grey Sand	
119	168	Clay	
168	169	Rock	
169	189	Glouconite and Shells	
189	201	Course White Sand	
201	215	Clay	
215	233	Sand	
233	244	Hard Brown Clay	
244	260	White Corkey Clay and Sand Mixture	
260	274	Waterbearing Sand	
274	278	Sand and Clay Mixture	
278	286	Waterbearing Sand	
286	294	Clay	
294	328	Sand (Waterbearing) with minor streaks of clay.	

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

INTERVAL SHEET

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Date rec'd: Date Processed: 3-18-80

PROPERTY: Town of Wakefield

COMPANY: Magette

COUNTY: Sussex / Wakefield

Well Repository No.: W-5822
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Sample Interval: from 0 to:340

Number of samples: 34

Total Depth: 340

Oil or Gas: Water: X Exploratory:

From-To	From-To	From-To	From-To	From-To
0-10	300-310	-	-	-
10-20	310-320	-	-	-
20-30	320-330	-	-	-
30-40	330-340	-	-	-
40-50	-	-	-	-
	Split - Wash			
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	-	-	-	-
250-260	-	-	-	-
260-270	-	-	-	-
270-280	-	-	-	-
280-290	-	-	-	-
290-300	-	-	-	-

Owner: Township Wakefield
Driller: Magette
County: Sussex

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Total Depth: 340'
Quad: Ivor
Elev: 91'

Depth
(feet)

WELL LOG

- 0-10 Sand - Pale orange - (10yr 7/2); fine to very coarse; sub-angular; moderate sorting; quartz; blue quartz; rose quartz; phosphatic fragments.
- 10-20 Sand - Grayish orange (10yr 7/4); very fine to granule; subangular; poor sorting; quartz; phosphatic fragments.
- 20-30 Clay, Sandy - Light olive gray (5y 6/1); abundant clay clasts; moderate sand; very fine to granule; poor sorting; quartz; 25% fine shell fragments.
- 30-40 Shell Hash - 90% shell fragments - Mulina congesta, Nucula proxima, Turritella Berry, Phacoides, Dentalium; Barnacle; rare clay clasts; sand, fine to granule, poorly sorted; quartz; 8% glauconite.
- 40-50 Shell Hash - As Above.
- 50-60 Shell Hash - As Above.
- 60-70 Shell Hash - As Above, except: includes Venicardia Altiasta, Pecten, Chione, Epitonium Calvertense, Dentalium.
- 70-80 Sand - Olive gray (5y 4/1); sparse granular clay; fine to medium, some coarse and very coarse grains; moderately well sorted; quartz, 3% glauconite; 20% shell fragments.
- 80-90 Sand - As Above, except: 50% shell fragments.
- 90-100 Sand, Clayey - Light olive gray (5y 6/1); moderate clay in clasts; medium-grained, some larger grains; moderately well sorted; quartz; 3% glauconite; 5% shell fragments.
- 100-110 Shell Hash - Moderate olive gray (5y 5/1); moderate clay in clasts; sand, medium to very coarse, subangular, poor sorting; quartz; sparse glauconite; 50% shell fragments.
- 110-120 Shell Hash - As Above, except: abundant clay.
- 120-130 Clay - Moderate olive gray (5y 5/1); abundant clasts; abundant sand; medium to very coarse; poor sorting; quartz; few glauconite; 5% shell fragments.
- 130-140 Sand, Clayey - Moderate olive gray (5y 5/1); abundant clay in small clasts; sand, very fine to granule; poorly sorted; quartz; rare glauconite; 10% shell fragments; claw.

<u>Depth (feet)</u>	
140-150	Sand, Clayey - As Above, except: 2% shell fragments.
150-160	Sand, Clayey - Moderate olive gray (5y 5/1); abundant clay in small clasts; sand, very fine to granule; poorly sorted; quartz; 10% glauconite; 8% shell fragments.
160-170	Sand - Pale yellowish brown (10yr 6/2); moderate clay in clasts; very fine to medium, some coarser grains; well sorted; quartz; 10% glauconite; some shells; bone fragments.
170-180	Sand - Salt and Pepper; some clay in sand clasts; very fine to granule; poorly sorted; quartz; 45% glauconite; shell fragments.
180-190	Sand - Salt and Pepper; no clay; very fine to granule; poorly sorted; quartz; 30% glauconite; tooth fragment; feldspar; garnet.
190-200	Sand - As at 170-180.
200-210	Sand - As at 180-190, except: 40% glauconite.
210-220	Sand - As Above, except: some clay in sand clasts.
220-230	Sand - Salt and Pepper; sparse pale yellowish clay; sand, fine to granule; poor sorting; quartz; 40% glauconite; shell fragments; feldspar; garnet.
230-240	Sand - As Above.
240-250	Sand - Salt and Pepper; moderate clay in clasts; fine to granule; poor sorting; quartz; 30% glauconite; shell fragments.
250-260	Sand - Light olive gray (5y 6/1); medium to very coarse; some granules; moderate sorting; quartz; 2% glauconite; garnet.
260-270	Sand - As Above, except: some glauconite.
270-280	Sand @ Light olive gray (5y 6/1); sparse clay; very fine to granule; poorly sorted; quartz; 10% glauconite.
280-290	Sand - As Above, except: yellowish gray (5y 7/2); moderate clay in clasts.
290-300	Sand - As Above, except: some glauconite.
300-310	Sand - Moderate yellow gray (5y 6/2); sparse clay in sand clasts; very fine to granule; poor sorting; quartz; some iron stained; some glauconite; garnet.

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Depth
(feet)

310-320 Sand - As Above, except: No clay; no glauconite.
320-330 Sand - As Above.
330-340 Sand - Moderate yellow gray (5y 6/2); sparse clay in clasts;
very fine to granule; poorly sorted; quartz; some glauconite;
some garnet.

Logged by: J. K. Polzin
July 17, 1980