

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

W-4054
C-411

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: H. P. Beale & Sons Mailing Address: Courtland, Virginia 23837

TENANT: H. P. Beale & Sons Mailing Address: Courtland, Virginia 23837

DRILLER: Mitchell's Well & Pump Co., Inc. Mailing Address: Rt. #1, Box 110, Col. Hgts. VA 23834

WELL LOCATION: County Southampton Approx. 3 ~~xxx~~ miles north (direction) of
Courtland, Rt. #35, and on left side feet
miles (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: November 1973 DATE COMPLETED: December 1973

TYPE OF DRILL RIG USED: Cable tool TOTAL DEPTH 395 feet

WATER LEVEL: Stands 150 feet below surface OR
has NATURAL flow of _____ gallons per minute.

YIELD TEST: Method Pumped
Drawdown 230 feet
Rate 275 gal. per min.
Duration 71 hrs., _____ min.
Not continuous

HOLE SIZE: 6 inches from 0 to 395 feet
_____ inches from _____ to _____ feet
_____ inches from _____ to _____ feet
SCREEN SIZE: 5 inches from 355 to 395 feet
with blank above

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

CASE SIZE: 6 inches from 0 to 351'5" feet
_____ inches from _____ to _____ 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 XX Other _____

PUMP: Type _____
Capacity _____ gal. per min.

WATER ANALYSIS AVAILABLE: Yes _____ No _____

DRILL CUTTINGS SAVED: Yes (40) XX No _____

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: _____

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		SAMPLE #
0	10	Orangish dirt	1
10	20	Ditto	2
20	30	Tannish dirt	3
30	40	Dark gray dirt	4
40	50	Gray dirt-shell fragments	5
50	60	Ditto	6
60	70	"	7
70	80	"	8
80	90	Dark gray dirt-shell fragments	9
90	100	Gray dirt-shell fragments	10
100	110	Dark gray dirt	11
110	120	Gray dirt	12
120	130	Black dirt-shell fragments	13
130	140	Ditto	14
140	150	Tannish dirt	15
150	160	Ditto	16
160	170	"	17
170	180	"	18
180	190	Light gray sand	19
190	200	Ditto	20
200	210	"	21
210	220	"	22
220	230	Gray dirt	23
230	240	Light gray sand	24
240	250	Ditto	25
250	260	"	26
260	270	"	27
270	280	"	28
280	290	Black & white sand	29
290	300	Ditto	30
300	310	Gray dirt	31
310	320	Tannish dirt	32
320	330	Ditto	33
330	340	Light gray sand	34
340	350	Ditto	35
350	360	"	36
360	370	"	37
370	380	"	38
380	390	"	39
390	395	"	40

Samples retained in our office for pickup
by personnel of the Bureau of Water
Control Management.

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

INTERVAL SHEET

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Well Repository No.: C-411
 W-4054

Date rec'd: 2/25/74 Date Processed: 9/9/74

Sample Interval: from 0 to: 395'

PROPERTY: H. P. Beale & Sons

Number of samples: 40

COMPANY: Mitchell's W & P Co.

Total Depth: 395'

COUNTY: Southampton (Sebrell)

Oil or Gas: Water: XX 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	340-350	-	-	-
50-60	350-360	-	-	-
60-70	360-370	-	-	-
70-80	370-380	-	-	-
80-90	380-390	-	-	-
90- <u>100</u>	390-395	-	-	-
100-110	-	-	-	-
110-120	-	-	-	-
120-130	-	-	-	-
130-140	-	-	-	-
140-150	-	-	-	-
150-160	-	-	-	-
160-170	-	-	-	-
170-180	-	-	-	-
180-190	-	-	-	-
190- <u>200</u>	-	-	-	-
200-210	-	-	-	-
210-220	-	-	-	-
220-230	-	-	-	-
230-240	-	-	-	-
240-250	-	-	-	-
250-260	-	-	-	-
260-270	-	-	-	-
270-280	-	-	-	-
280-290	-	-	-	-
290- <u>300</u>	-	-	-	-

Both washed and unwashed samples.

Owner: H. P. Beale & Sons W# 4054
Driller: Mitchell's W & P C# 411
County: Southampton (Sebrell) Total Depth: 395'
Quad:
Elev:

Depth
(feet)

WELL LOG

0-10 Sand - dark yellow orange (10YR 6/6); iron stained; medium to coarse, subangular, moderately well sorted.

10-20 Sand - grayish orange (10YR 7/4); very fine to very coarse, subangular, moderate sorting.

20-30 Sand - very pale orange (10YR 8/2); very fine to very coarse, subangular, moderate sorting; 1% glauconite.

30-40 Clay - dark yellowish brown, (10YR 4/2); abundant sand, fine to granule, subangular, poor sorting; wood fragments.

40-50 Clay - light olive gray (5Y 6/1); abundant sand, fine to granule, subangular, poor sorting; 10% shell fragments - Mulina.

50-60 Clay - light olive gray (5Y 6/1); abundant sand; fine to very coarse, subangular, well sorted; 25% shell fragments - Mulina Congesta.

60-70 Clay - light olive gray (5Y 6/1); moderate sand, very fine to medium, subangular, well sorted; 20% shell fragments - Mulina.

70-80 Clay - light olive gray (5Y 6/1); moderate sand, fine to granule, subangular, moderate sorting; 20% shell fragments - Mulina.

80-90 Sand - light olive gray (5Y 6/1); sparse clay; very fine to coarse, subangular, moderate sorting; 10% shell fragments - pecten, echinoderm spines; 3% glauconite; bone fragment, shark tooth.

90-100 Sand - light olive gray (5Y 6/1); sparse clay; very fine to coarse, subangular, moderate sorting; 4% shell bits.

100-110 Sand - light olive gray (5Y 5/2); very sparse clay; medium, subangular, well sorted; no shell bits.

110-120 Clay - light olive gray (5Y 5/2); abundant sand; fine to coarse, subangular, moderate sorting.

Depth
(feet)

- 120-140 Sand, Glauconitic - greenish black (5GY 2/1); 90% glauconite, medium grained, lobed; 10% sand-quartz, medium to very coarse, subangular, well sorted; 3% shell fragments; shark teeth; magnetite; phosphatic nodule; sandstone clasts with glauconite, quartz and pyrite; 130-140 - 1% shell fragments.
- 140-150 Clay - dusky yellow (5Y 6/4); very sparse sand; coarse to granule, subround, poor sorting; pellets of light and dark colored clay.
- 150-160 Clay - pale brown (5Y 5/2); very sparse sand; medium to granule, subangular, poor sorting; few shells; mica; pellets of light and dark clay.
- 160-170 Clay - dusky yellow (5Y 6/4); clay in large pellets - ochre, white colored with mica in clay clasts also; no sand.
- 170-180 Clay - dusky yellow (5Y 6/4); and light olive gray (5Y 6/1); in clasts, with mica (muscovite).
- 180-190 Sand - light gray (N7.5); fine to granule, subangular, moderate sorting; some feldspar; pyrite; garnet.
- 190-210 Sand - light gray (N7.5); fine to granule, subangular, moderate sorting; some feldspar; pyrite; "junk" - iron oxide stained pebbles; shell fragments, clay clasts.
- 210-220 Sand - light gray (N7.5); fine to very coarse, subangular, moderate sorting; some feldspar; few glauconite.
- 220-230 Clay - yellow gray (5Y 6/2); sparse sand, fine to granule, subangular to round, poor sorting; some ~~mica~~, muscovite.
- 230-250 Sand - light gray (N7.5); medium to very coarse, some large granules, subangular, moderate sorting; rare mica; clay clasts; iron oxide particles; 240-250 - no mica, etc.
- 250-270 Sand - light gray (N7.5); very sparse clay in sand clasts; medium to granule with few pebbles, subangular, moderate sorting; colored feldspars; 2 shell fragments; iron oxide grains.
- 270-280 Sand - light gray (N7.5); sparse clay with mica; medium to granule, subangular, poor sorting; shell fragment; garnet; sandstone clasts stained purple; iron oxide nodules/fragments.

Depth
(feet)

- 280-290 Sand, Glauconitic - mixed color - 50% glauconite, medium grained; medium to very coarse, subangular, poorly sorted, quartz sand; few clay clasts; iron oxide nodules.
- 290-300 Sand - mixed colors - few clay clasts; medium to very coarse, some large granules, subangular, poor sorting; 25% glauconite; iron oxide nodules.
- 300-330 Clay - yellowish gray (5Y 7/2); abundant sand; medium to very coarse, subangular, poor sorting; some glauconite; 320-330 - few large pebbles.
- 330-340 Sand - light yellowish gray (5Y 9/1); sparse clay; medium to very coarse, subangular, moderate sorting; sparse glauconite; feldspar.
- 340-350 Sand - light yellowish gray (5Y 9/1); very sparse clay; coarse to granule, poor sorting; feldspar; garnet.
- 350-360 Sand - light yellowish gray (5Y 9/1); very sparse clay; medium to granule, subangular, poor sorting; feldspar; few glauconite and phosphatic fragments.
- 360-370 Sand - light yellowish gray (5Y 9/1); sparse clay; medium to granule, subangular, poor sorting; feldspar; garnet.
- 370-380 Sand - light yellowish gray (5Y 9/1); very sparse clay; fine to granule; subangular, poor sorting; 1% glauconite; feldspar; garnet.
- 380-390 Sand - light yellowish gray (5Y 9/1); sparse clay; fine to granule, subangular, moderate sorting; 1% glauconite.
- 390-395 Sand - light yellowish gray (5Y 9/1); sparse clay; medium to granule, subangular, moderate sorting; 1% glauconite; mica - muscovite.

Logged by: J. K. Polzin
July 24/5, 1980