

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

W-3043
C-99

MAILING ADDRESS:
Box 3667
Charlottesville, VA 22903

DIVISION OF MINERAL RESOURCES

JAMES L. CALVER, COMMISSIONER

OFFICE ADDRESS:
McCormick Road
Charlottesville, Virginia

WATER WELL COMPLETION REPORT

OWNER: Belmont Dev. Co., Inc.

Box 357
Mailing Address: Annandale, VA 22003

TENANT: "Heritage Point"

Mailing Address:

DRILLER: Douglas & Dickinson, Inc.

Mailing Address: Box 498, Warsaw, Virginia

WELL LOCATION: County Lancaster

Approx. 1-1/4 ~~feet~~ miles SE (direction) of

Mollusk P.O.

and 3/4 ~~feet~~ miles E (direction) of St. Rt. 354

(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 31, 1968

TYPE OF DRILL RIG USED: Rotary TOTAL DEPTH 590 feet

WATER LEVEL: Stands 54 feet below surface OR

has NATURAL flow of _____ gallons per minute.

YIELD TEST: Method _____

Drawdown 36 feet

Rate 40 gal. per min.

Duration _____ hrs., _____ min.

HOLE SIZE: 6 inches from 0 to 168 feet

3-7/8 inches from 168 to 590 feet

_____ inches from _____ to _____ feet

SCREEN SIZE: 2 inches from 572 to 587 feet

_____ inches from _____ to _____ feet

_____ inches from _____ to _____ feet

WATER ZONES: from 572 to 587 feet

from _____ to _____ feet

from _____ to _____ feet

CASE SIZE: 4 inches from 0 to 168 feet

2 inches from 168 to 572 feet

2 inches from 587 to 590 feet

WATER: Color _____ Taste _____

Odor _____ Temp. _____ °F

WELL TO SUPPLY: (check one) Home _____

Farm _____ Town _____ School _____

Industry _____ Other Subdivision

GROUTING: Method _____

Material _____ Depth _____ feet

PUMP: Type _____

Capacity _____ gal per min

Depth of intake _____ feet

WATER ANALYSIS AVAILABLE: Yes _____ No _____

DRILL CUTTINGS SAVED: Yes 55 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-99
 Well Repository No: W-3043

Date rec'd: 3/24/70 Date Processed: 12/22/70

Sample Interval: from: 0 to: 590'

PROPERTY: Belmont Dev. Co. (Heritage Point)

Number of samples: 56

COMPANY: Douglas and Dickinson

Total Depth: 590'

COUNTY: Lancaster (Mollusk)

Oil or Gas: Water: X Exploratory:

From-To	From-To	From-To	From-To
0-10	264-275	527-537	-
10-21	275-285*	537-548	-
21-31	285-296*	548-559	-
31-42	296-306*	559-570	-
42-52	306-317*	570-580	-
52-63	317-327*	580-590	-
63-73	327-338*	-	-
73-84	338-348*	-	-
84-94	348-359*	-	-
94-105	359-369*	-	-
105-115	369-380*	-	-
115-126	380-390*	-	-
126-136	390-401*	-	-
136-147	401-411*	-	-
147-157	411-422*	-	-
157-168	422-432*	-	-
168-179	432-443*	-	-
179-190	443-453*	-	-
190-201	453-464*	-	-
201-212	464-474*	-	-
212-222	474-485*	-	-
222-233	485-495*	-	-
233-243	495-506*	-	-
243-254	506-516	-	-
254-264	516-527	-	-

*Washed only

Owner: Belmont Dev. Co.
(Heritage Point)
Driller: Douglas and Dickinson
County: Lancaster

W# - 3043
C# - 99
Total Depth: 590'
Quad: Urbanna
Elev: 34'

Depth
(feet)

WELL LOG

0-21 Sand - moderate yellowish brown (10YR 5/3); abundant silt; medium, subangular, well sorted; rare glauconite at 10-21.

21-42 Clay - pale yellowish brown (10YR 6/2); abundant sand, fine to medium, subangular, well sorted; mica.

42-126 Sand - pale yellowish brown (10YR 6/2); abundant clay, fine to medium, subangular, moderately well sorted; 70% large shell fragment at 42-52, 50% at 52-63 and 15% from 63-126; clay in large clasts.

126-190 Clay - moderate yellowish gray (5Y 4/2); abundant sand, fine to medium with few coarse, subangular, moderate sorting; rare fine shell fragments; mica.

190-254 Clay - yellowish gray (5Y 7/2); abundant sand, fine, subangular, well sorted.

254-275 Sand - pale yellowish brown (10YR 6/2); abundant clay; very fine to medium, subangular, moderate sorting; mica.

275-317 Sand - pale yellowish brown (10YR 6/2); moderate clay; fine to very coarse, subangular, moderate sorting; 30% large shell fragments, and 20% fine at 306-317; madreporite at 286-296; shark tooth at 306-317.

317-327 Sand - light olive gray (5Y 6/1); moderate clay; fine to very coarse, subangular, moderate sorting; 1% glauconite; 3% shell fragments.

327-380 Sand - pale yellow brown (10YR 7/2); sparse clay; fine to very coarse, subangular, moderate sorting; 1% glauconite/shell fragments.

380-390 Sand - light olive gray (5Y 6/2); moderate clay; fine to very coarse, subangular, moderate sorting; 40% glauconite; few shell fragments; ostracods.

390-443 Sand, Glauconitic - moderate olive gray (5Y 4/2); sparse clay; 60-80% dark green and brown glauconite; medium to granule, subangular, poorly sorted; 1% shell fragments; forams - Quinqueloculina, Robulus, Siphogenerina; ostracod.

Owner: Belmont Dev. Co.
(Heritage Point)

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Depth
(feet)

- 443-506 Sand, Glauconitic - olive gray (5Y 3/2); 90% coarse, green glauconite; sparse clay; medium to very coarse, subangular, moderate sorting; small shark tooth; some yellow clay at 474-506.
- 506-548 Sand, Glauconitic - light olive gray (5Y 5/2); moderate gray clay; 70% glauconite - green; fine to very coarse, subangular, moderate sorting; forams; fine mica.
- 548-580 Sand - light and dark gray; abundant dark yellow orange clay; 70% glauconite; fine to very coarse, subangular, moderate sorting; foram - Siphogenerina; mica.
- 580-590 Sand - light olive gray (5Y 6/1); fine to very coarse, angular to subangular, moderate sorting; 10% glauconite; foram - Nodosaria; feldspar; mica.

Logged by: J. K. Polzin
December 19/22, 1980

OWNER: Belmont Dev. Co., Inc. (Heritage Point)
DRILLER: Douglas & Dickinson, Inc.
COUNTY: Lancaster (Mollusk)

VDMR # 3043
WWCR # 99
TOTAL DEPTH : 590'

GEOLOGIC SUMMARY

<u>Depth (feet)</u>	<u>Rock Unit</u>	<u>Age</u>
0-21	Yorktown(?) & St. Marys Formations	Late Miocene
21-126	St. Marys Formation	Late Miocene
126-338	Calvert Formation	Middle Miocene
338-443	Nanjemoy Formation	Middle Eocene
443-580	Mattaponi Formation	Late Cretaceous(?) - Paleocene
580-590	Patuxent Formation	Early Cretaceous

Virginia Division of Mineral Resources
Robert H. Teifke - Geologist
January 5, 1971