

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

W-3808
C-112

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 Development Co., Inc. Mailing Address: c/o Roger Pflugradt

TENANT: Heritage Point subdivision #2 Mailing Address: Mollusk, Virginia

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

WELL LOCATION: County Lancaster Approx. 5/10 ~~xxx~~ miles East (direction) of
Route 354 and 1 ~~xxx~~ miles North (direction) of Ottoman

(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: 27 Nov. 1972

TYPE OF DRILL RIG USED: rotary TOTAL DEPTH 646 feet

WATER LEVEL: Stands 115 feet below surface OR
has NATURAL flow of _____ gallons per minute.

YIELD TEST: Method Air/Test Pump

Drawdown 35/na feet

Rate 40/na gal. per min.

Duration 4 hrs., _____ min. n/a

WATER ZONES: from 625 to 635 feet

from _____ to _____ feet

from _____ to _____ feet

WATER: Color clear Taste none

Odor none Temp. - °F

WELL TO SUPPLY: (check one) Home _____

Farm _____ Town _____ School _____

Industry _____ Other subdivision

WATER ANALYSIS AVAILABLE: Yes _____ No X

(61)

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: CONSTRUCTION: This is a Class II Well.

Drill Cutting Samples picked up by Division of Mineral Resources 2/20/73.

LOG

FURNISHED BY: Douglas Drilling Co., Inc. DATE: 11/27/72

DEPTH (feet)		TYPE OF ROCK OR SOIL PENETRATED (gravel, clay, etc., hardness, color, etc.)	REMARKS (water, caving, shot, screen, sample, etc.)
FROM	TO		
0	approx	75 - fine sand with some clay	
75	approx	100 - fine sand with clay binder	
100	approx	150 - fine sand with shell and some clay	
150	approx	315 - fine sand with clay binder	
315	approx	620 - fine sand with some clay	
620	approx	646 - coarse sand - screen, water	
DRILL CUTTING SAMPLES PICKED UP BY DIVISION OF MINERAL RESOURCES 2/20/73			

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

INTERVAL SHEET

Page 1 of 1		Well Repository No.: C-112 W-3808
Date rec'd: 2-20-73	Date Processed: 9-25-73	Sample Interval: from 0 to: 646
PROPERTY: Belmont Dev. Co., Inc. (Heritage Point Sub. #2)		Number of samples: 61
COMPANY: Douglas Drilling Co.		Total Depth: 646'
COUNTY: Lancaster (Ottoman)		Oil or Gas: Water: X Exploratory:

From-To	From-To	From-To	From-To	From-To
0-10	318-328	636-646	-	-
10-21	328-339	-	-	-
21-31	339-349	-	-	-
31-42	349-360	-	-	-
42-52	360-370	-	-	-
52-63	370-381	-	-	-
63-73	381-391	-	-	-
73-84	391-402	-	-	-
84-94	402-412	-	-	-
94-106	412-424	-	-	-
106-116	424-434	-	-	-
116-127	434-445	-	-	-
127-137	445-455	-	-	-
137-148	455-466	-	-	-
148-158	466-476	-	-	-
158-169	476-487	-	-	-
169-179	487-497	-	-	-
179-190	497-508	-	-	-
190-200	508-518	-	-	-
200-212	518-530	-	-	-
212-222	530-540	-	-	-
222-233	540-551	-	-	-
233-243	551-561	-	-	-
243-254	561-572	-	-	-
254-264	572-582	-	-	-
264-275	582-593	-	-	-
275-285	593-603	-	-	-
285-296	603-614	-	-	-
296-306	614-624	-	-	-
306-318	624-636	-	-	-

All intervals have both washed and unwashed samples

OWNER: Belmont Dev. Co. (Heritage)
DRILLER: Douglas
COUNTY: Lancaster (Ottoman)

W # 3808
C # 112
TOTAL DEPTH - 646'
QUAD - Urbanna
ELEV - 84'

DEPTH
(FEET)

WELL LOG

0-20	Sand	- dark yellowish orange (10YR 4/6); fine to very coarse, subangular, moderate to well sorted; 10% limonite.
20-41	Sand	- grayish orange (10YR 7/4); sparse clay; fine to coarse, subangular and subrounded, moderately sorted; 1% phosphate fragments.
41-73	Sand	- grayish orange (10YR 6/4); sparse clay at 63-73'; fine to very coarse, subangular to subrounded, moderately sorted; feldspar at 41-63'; mica.
73-84	Sand	- pale yellowish brown (10YR 6/2); abundant clay; fine to coarse, subangular to subrounded, moderately sorted; abundant mica.
84-94	Sand	- moderate yellowish brown (10YR 5/4); sparse clay; fine to coarse, subangular to subround, moderately sorted; ferricrete; iron oxide; ochre; limonite; mica.
94-106	Sand, Shelly	- light and dark brown; 50% shell; sparse clay; fine to very coarse, subangular and subrounded, poor sorting; ferricrete; ochre; mica.
106-148	Sand, Shelly	- light and dark gray; 60-80% shell; very sparse clay; fine to medium, subangular and subrounded, moderately sorted; mackerel vertebrae; quartzite clasts and iron oxide at 106-116'; 10% phosphate fragments at 127-148'.
148-169	Sand	- pale yellowish brown (10YR 6/2); abundant clay; fine to medium, subangular and subrounded, moderately sorted; 20% shell fragments; mica.
169-233	Sand	- light olive gray (5Y 6/2); abundant clay; very fine to medium, subangular and subround, moderately sorted; few to 5% shell fragments; iron oxide stains at 189-222'; diatoms at 212-233'; mica.

DEPTH
(FEET)

WELL LOG

233-274	Sand	- light olive gray (5Y 6/2); abundant clay; very fine to medium, subangular, well sorted; few shell fragments at 254-274'; diatoms; forams - <u>Robulus</u> , <u>Nonion</u> ; mica.
274-318	Sand	- light olive gray (5Y 6/1); abundant clay; very fine to fine, subangular, well sorted; few shell fragments at 306-318'; abundant diatoms; forams - <u>Nonion</u> , <u>Robulus</u> .
318-376	Sand	- light olive gray (5Y 6/1); sparse clay; fine to very coarse, subangular, moderately sorted; 10% phosphate fragments; 10-20% shell fragments; forams - <u>Robulus</u> , <u>Siphogenerina</u> ; garnet at 360-376'.
376-381	No sample.	
381-434	Sand	- light and dark brown; 33% each, shell fragments and glauconite; fine to coarse, subangular and subrounded, poor sorting; forams - <u>Dentalina</u> , <u>Robulus</u> , <u>Nodosaria</u> , <u>Quinqueloculina</u> ; coral; echinoid spines at 381-391'; rose quartz and garnet at 391-402'; ostracod at 402-434'.
434-445	Sand, Glaucinitic	- light and dark brown; medium to very coarse, subangular and round, moderately sorted; 30% shell fragments; forams; ostracod.
445-465	Sand, Glaucinitic	- olive brown (5Y 4/2); 10% glauconite; medium to very coarse, subangular and rounded, poor sorting; 20% shell fragments; forams.
465-487	Sand, Glaucinitic	- olive black (5Y 2/1); 85% glauconite; sparse clay at 475-487'; medium to very coarse, subrounded, poor sorting; 10% shell fragments.
487-582	Sand, Glaucinitic	- olive gray (5Y 3/2); 85% glauconite; sparse to abundant clay; fine to very coarse, subrounded, poor to moderately well sorted; 10-20% very fine shell fragments; echinoid spines at 561-582'; forams - <u>Nonion</u> , <u>Siphogenerina</u> , <u>Nodosaria</u> , <u>Robulus</u> , <u>Marginulina</u> ; ostracod at 530-540'; mica at 540-582'.

DEPTH
(FEET)

WELL LOG

- | | | |
|---------|----------------------|---|
| 582-603 | Sand,
Glaucinitic | - light and dark green; 60-80% glauconite; fine to very coarse, subrounded, moderately sorted; 20% shell fragments; echinoid spines; forams. |
| 603-624 | Sand | - light olive gray; moderate clay; angular and subrounded, fine to very coarse, moderate sorting; 40-50% glauconite; 20% shell fragments; feldspar; mica. |
| 624-646 | Sand | - light olive gray (5Y 6/1); fine to pebble, subangular to subrounded, poor sorting; 1-3% glauconite; feldspar; mica. |

Logged by:
J. K. Polzin
Jan. 20, 1981