

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

W#: 3795
C#: 77

MAILING ADDRESS:

B-3667
Charlottesville, VA 22903

DIVISION OF MINERAL RESOURCES

JAMES L. CALVER, COMMISSIONER

OFFICE ADDRESS:

McCormick Road
Charlottesville, Virginia

WATER WELL COMPLETION REPORT

OWNER: Research Homes, Inc. Mailing Address: 7777 Leesburg Pike, Falls Church, VA

TENANT: Crows Nest Harbor Well #1 Mailing Address: _____

DRILLER: Atlantic Pump & Equipment Co., Inc. Mailing Address: P. O. Box 4009, Richmond, VA 23224

WELL LOCATION: County Statford Approx. 1 ^{~~4.24~~} miles southeast (direction) of
Brooke and _____ feet miles south (direction) of St. Rd. 608

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

DATE STARTED: 9/25/72 DATE COMPLETED: 10/9/72

TYPE OF DRILL RIG USED: Hydraulic Rotary TOTAL DEPTH 330 feet

WATER LEVEL: Stands 163 feet below surface OR
has NATURAL flow of _____ gallons per minute.

YIELD TEST: Method Submersible pump

Drawdown 97 feet

Rate 50 gal. per min.

Duration 24 hrs., _____ min.

WATER ZONES: from 225 to 240 feet

from 302 to 312 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 X No _____

DRILL CUTTINGS SAVED: 31 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: _____

HOLE SIZE: 10 inches from 0 to 330 feet

_____ inches from _____ to _____ feet

_____ inches from _____ to _____ feet

SCREEN SIZE: 6 inches from 226 to 236 feet

6 inches from 302 to 312 feet

_____ inches from _____ to _____ feet

CASE SIZE: 6 inches from 0 to 226 feet

6 inches from 236 to 302 feet

6 inches from 312 to 330 feet

GROUTING: Method Pressure Pump

Material Cement Depth 56 feet

PUMP: Type _____

Capacity _____ gal per min

Depth of intake _____ feet

LOG

FURNISHED BY: Atlantic Pump & Equipment Co., Inc. DATE: 1/4/73

DEPTH (feet)		TYPE OF ROCK OR SOIL PENETRATED (gravel, clay, etc., hardness, color, etc.)	REMARKS (water, caving, shot, screen, sample, etc.)
FROM	TO		
0	10	Yellow clay	
10	20	Fine gray sand, some grit & clay	
20	30	Same	
30	40	Fine yellow clay sand & pebbles	
40	50	Gray clay	
50	60	Red clay	
60	70	Same	
70	80	Multicolor clay	
80	200	Fine gray to multicolor clay & shells	
200	210	Same with some grit	
210	220	Gray clay shells & trace of Lignite	
220	230	Med to course, some sand & grit	
230	240	Same with shells	
240	250	Fine to medium sand, some with grit & shells	
250	270	Multicolor clay	
270	280	Fine silty brown sand	
280	330	Silty gray clay, some grit	

(Use additional forms if necessary)

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

INTERVAL SHEET

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Well Repository No: W-3795
 C-77

Date rec'd: 1/22/73 Date Processed: 8/16/73

Sample Interval: from: to:
 0 320

PROPERTY: Research Homes, Inc.
 (Crows Nest Harbor)

Number of samples: 31

COMPANY: Atlantic P & E Co.

Total Depth: 330'

COUNTY: Stafford (Brooke)

Oil or Gas: Water: Exploratory:

From-To	From-To	From-To	From-To
0-10	250-260	-	-
10-20	260-270	-	-
20-30	270-280	-	-
30-40	280-290	-	-
40-50	290-300	-	-
50-60	300-310	-	-
-	310-320	-	-
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	-	-	-

All intervals have both washed & unwashed samples.

OWNER: Research Homes, Inc.
(Crow's Nest Harbor)
DRILLER: Atlantic P & E Co.
COUNTY: Stafford
(Brooke)

W#: 3795
C#: 77
TOTAL DEPTH: 330'
QUAD: Passapatanzky

GEOLOGIC LOG

Depth
(feet)

- 0 - 10 Sand - grayish orange; moderate clay; fine to medium grained, some coarse grains, few pebbles; subangular to subrounded; moderately well sorted; quartz; 15% ferricrete; feldspar; few opaques.
- 10 - 20 Sand - yellowish gray; slightly clayey; medium to very coarse grained, few granules; subangular to subrounded; moderately sorted; quartz; 5% ferricrete; some black phosphatic material; some feldspar; few grains of garnet.
- 20 - 30 Sand - light olive gray; slightly clayey; fine to medium grained, few pebbles; subangular to subrounded; moderately well sorted; quartz; some black phosphatic material; few flakes of muscovite; glauconite.
- 30 - 40 As above plus some coarse grains; some ferricrete.
- 40 - 50 Clay - very light gray, light olive brown; moderate sand; fine grained, some medium grains; subangular; well sorted; quartz; some muscovite; few black phosphatic fragments; biotite.
- 50 - 60 Clay - moderate orange pink, very light gray; some quartz sand; muscovite; few black phosphatic fragments; few grains of glauconite.
- 60 - 70 No sample.
- 70 - 80 Clay - moderate orange pink, very light gray; slightly sandy; fine to coarse grained, few granules, few pebbles; subangular to subrounded; moderately sorted; quartz; some black phosphatic material; muscovite.
- 80 - 90 Sand - light olive gray; moderate clay-light olive gray; moderate orange pink, very light gray; fine grained, some medium grains, few granules; subangular to subrounded; well sorted; quartz; some glauconite; some muscovite; few black phosphatic fragments.
- 90 - 100 Clay - moderate orange pink, very light gray, light olive gray; moderate sand; fine to medium grained; subangular to subrounded; moderately well sorted; quartz; some black phosphatic material; few flakes of muscovite; glauconite.
- 100 - 110 Sand - olive light gray; moderate clay; fine to medium grained; subangular to rounded; well sorted; quartz; 15% glauconite; 15% shell fragments inc. gastropods; some muscovite.
- 110 - 120 As above except fine grained, some medium grains; 25% limestone and shell fragments.
- 120 - 130 As above plus some moderate orange pink clay; few granules; few pebbles; 7% glauconite.

Depth
(feet)

- 130-140 Gravel and shell fragments — light olive gray; slightly clayey; 20% granules, 30% pebbles; subrounded; moderately well sorted; quartz; 50% shell fragments; some limestone fragments; few grains of glauconite; muscovite.
- 140-150 Shell fragments and sand — light olive gray; slightly clayey; fine grained to gravel; subangular to subrounded; poorly sorted; 60% shell fragments; quartz; 2% glauconite; some black phosphatic material; some limestone fragments; muscovite.
- 150-160 Shell fragments — light olive gray; slightly clayey; abundant sand; fine to medium grained, some coarse grains, some granules, 3% pebbles; subangular to rounded; moderately sorted; 75% shell fragments; quartz; glauconite 20% of sand fraction; 2% limestone fragments; few black phosphatic fragments; muscovite.
- 160-170 Sand — olive light gray; abundant clay; fine to medium grained, few granules; subangular to subrounded; moderately well sorted; quartz; 20% shell fragments; 20% glauconite; few flakes of muscovite; few black phosphatic fragments; forams rare (inc. Robulus).
- 170-180 As above except 30% shell fragments; 15% glauconite.
- 180-190 Sand — light olive gray; slightly clayey-light olive gray, light olive brown; fine grained, some medium grains; subangular to subrounded; well sorted; quartz; 7% shell fragments; 5% glauconite; 2% muscovite; few black phosphatic fragments.
- 190-200 Sand — moderate yellowish brown; moderate clay-moderate yellowish brown, moderate orange pink; fine to medium grained; subangular to subrounded; moderately well sorted; quartz; 15% shell fragments; 3% glauconite; some black phosphatic material; few fragments of ferricrete; few flakes of muscovite.
- 200-210 Clay — very light gray; moderate yellowish brown; moderate sand; medium grained, some fine grains; subangular to subrounded; well sorted; quartz; 5% shell fragments; 2% glauconite; few black phosphatic fragments; muscovite.
- 210-220 Clay and sand — light gray; abundant clay; moderate sand; medium to coarse grained; subangular to subrounded; moderately well sorted; quartz; feldspar; some glauconite; few shell fragments; muscovite.
- 220-230 Sand and granules — light olive gray; coarse to very coarse grained, 50% granules; subrounded; moderately sorted; quartz; feldspar; some shell fragments; some glauconite; few flakes of muscovite.
- 230-240 Sand and gravel — light olive gray; slightly clayey; coarse grained to granular, some medium grains, 40% pebbles; subrounded; poorly sorted; quartz; 5% shell fragments; feldspar; some glauconite; few flakes of muscovite; ostracode.

Depth
(feet)

- 240-250 As above except light brown; abundant clay; some shell fragments; no ostracode.
- 250-260 Clay -- very light gray, light olive gray, light brown; moderate sand; medium grained to granular, 10% pebbles; subangular to sub-rounded; poorly sorted; quartz; 3% shell fragments; some glauconite; few black phosphatic fragments; muscovite.
- 260-270 As above except slightly sandy; no pebbles.
- 270-280 Clay and sand -- light gray; abundant clay-light gray, light olive gray, light brown; moderate sand; medium to coarse grained, 5% granules, 3% pebbles; subangular to subrounded; moderately sorted; quartz; feldspar; some shell fragments; few grains of glauconite.
- 280-290 As above.
- 290-300 As above except sand; abundant clay.
- 300-310 Sand -- light olive gray; abundant clay; medium grained to gravel; subangular to subrounded; poorly sorted; quartz; feldspar; few grains of glauconite; few black phosphatic fragments.
- 310-320 As above plus few flakes of muscovite.
- 320-330 No sample.

Logged by: Michael T. Currie
March 16, 1979