

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

W-5972
C-421

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: State Water Control Board Mailing Address: P. O. Box 11143, Richmond, Va.

TENANT: _____ Mailing Address: _____

DRILLER: State Water Control Board Mailing Address: P. O. Box 11143, Richmond, Va.

WELL LOCATION: County Southampton (City of Franklin) Approx. 600 ^{feet} ~~xxxx~~ east (direction) of
Camp Community College and 400 ^{feet} ~~xxxx~~ north (direction) of Campbell Avenue

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

DATE STARTED: May 13, 1980 DATE COMPLETED: May 15, 1980

TYPE OF DRILL RIG USED: CF 15 Rotary TOTAL DEPTH 838' 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: 6½ inches from 0 to 838 feet
_____ inches from _____ to _____ feet
_____ inches from _____ to _____ feet
SCREEN SIZE: N/A inches from _____ to _____ feet

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

_____ inches from _____ to _____ feet
_____ inches from _____ to _____ feet
CASE SIZE: 4 inches from +2 to 832 feet
black _____ inches from _____ to _____ feet
steel _____ inches from _____ to _____ feet

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

GROUTING: Method _____
Material _____ Depth 20 feet

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

PUMP: Type _____
Capacity _____ gal. per min.
Depth of intake _____ feet

WATER ANALYSIS AVAILABLE: Yes _____ No _____

DRILL CUTTINGS SAVED: Yes _____ 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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Well Repository No.: C-421
 W-5972

Date rec'd: 6-19-80 Date Processed: 11-13-80

Sample Interval: from 0 to: 840

PROPERTY: State Water Control Board

Number of samples: 81

COMPANY: State Water Control Board

Total Depth: 838

COUNTY: Southampton (Franklin)

Oil or Gas: Water: X Exploratory:

From-To	From-To	From-To	From-To	From-To
0-10	300-310	600-610	-	-
10-20	310-320	610-620	-	-
20-30	320-330	620-630	-	-
30-40	330-340	630-640	-	-
40-50	340-350	640-650	-	-
50-60	350-360	650-660	-	-
60-70	360-370	660-670	-	-
70-80	370-380	-	-	-
80-90	380-390	680-690	-	-
90-100	390-400	690-700	-	-
100-110	400-410	700-710	-	-
110-120	410-420	710-720	-	-
120-130	420-430	720-730	-	-
130-140	430-440	730-740	-	-
140-150	440-450	740-750	-	-
150-160	450-460	750-760	-	-
160-170	460-470	760-770	-	-
170-180	470-480	770-780	-	-
180-190	480-490	780-790	-	-
190-200	490-500	790-800	-	-
200-210	500-510	800-810	-	-
210-220	510-520	810-820	-	-
220-230	520-530	820-830	-	-
230-240	530-540	830-840	-	-
240-250	540-550	-	-	-
250-260	550-560	-	-	-
260-270	560-570	-	-	-
270-280	570-580	-	-	-
-	580-590	-	-	-
290-300	590-600	-	-	-

Split-Wash

Owner: State Water Control Board
Driller: State Water Control Board
County: Southampton

W# 5972
C# 421
Total Depth: 840'
Quad: Holland
Elev:

Depth
(feet)

WELL LOG

- 0-10 Clay - light yellowish brown (10 YR 6/4); abundant sand, fine to very coarse, subangular, poorly sorted; 10% glauconite.
- 10-30 Clay - light olive gray (5 Y 6/1); abundant sand, very fine to very coarse, subangular, moderate sorting; diatoms; mica; rare shell fragments at 20-30'.
- 30-40 Sand - light olive gray (5 Y 6/1); abundant clay; very fine to very coarse, subangular, moderate sorting; 10% shell fragments; mica.
- 40-60 Sand - light olive gray (5 Y 6/1); moderate clay; medium to coarse, subangular, moderately well sorted; 8% fine glauconite at 50-60'; 20-30% shell fragments.
- 60-70 Sand, shelly - light olive gray (5 Y 6/1); 50% shell fragments; moderate clay; medium to coarse, subangular, moderate sorting; 8% fine glauconite.
- 70-80 Sand - light olive gray (5 Y 5/2); moderate clay; medium to very coarse with some granules, subangular, poor sorting; few glauconite; 10% fine shell fragments.
- 80-100 Sand, glauconitic - light and dark green; 50% glauconite; sparse clay; medium to coarse, subangular, well sorted; few to 10% large shell fragments.
- 100-120 Sand, glauconitic - light and dark green, 60% glauconite; medium to coarse, subangular, well sorted; rare large shell fragments, punctate brachiopod; shark teeth; pyrite; garnet.
- 120-130 Sand, glauconitic - light and dark green; 90% glauconite; medium to very coarse, angular and subangular, poor sorting; 30% glauconite; feldspar; mica; garnet; coquina fragments.
- ¹³⁰
~~130~~-150 Coquina fragments - light and dark gray; ~~fine to granule, angular to subrounded, poorly sorted; feldspar; garnet.~~ sparse (10%) sand; fine to granule, angular to subrounded, poorly sorted; ~~feldspar; garnet.~~
- 150-160 Sand - light olive gray (5 Y 6/1); fine to gravel, angular to subrounded, poorly sorted; 15% glauconite; 10% coquina fragments; ~~4 sand shark teeth; feldspar; mica; garnet.~~
- 160-180 Clay - light olive gray (5 Y 5/1); abundant sand, fine to medium, subangular, well sorted; carbonized plant remains on clay clasts at 160-170'; rare shell fragments; 2 shark teeth/each level; abundant muscovite.
- 180-190 Sand - light olive gray (5 Y 5/1); abundant clay; fine to granule, subangular to subrounded, poorly sorted; coquina fragments; ~~rare shell fragments; mica.~~

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- 190-210 Clay - light olive gray (5 Y 5/1); abundant sand, fine to granule, sub-angular to subrounded, poorly sorted; coquina fragments; ~~fragments~~ mica.
- 210-230 Sand - light olive gray (5 Y 5/1); abundant clay; fine to granule, sub-angular to subrounded, poorly sorted; 8% glauconite; 3-1% shell fragments - oysters; bone fragments; garnet.
- 230-240 Clay - light olive gray (5 Y 5/1); sparse ~~clay~~^{sand} very fine to medium, subangular, well sorted; mica.
- 240-260 Sand - light olive gray (5 Y 5/2); abundant clay; fine to very coarse, subangular, moderate sorting; 10% glauconite; ~~coquina fragments~~; ~1% shell fragments; mica.
- 260-280 Sand - yellowish gray (5 Y 7/2); very sparse gray clay; coarse at 260-270' and medium to granule at 270-280', subangular, well to moderate sorting; graphite flakes at 260-270'; shark teeth at 270-280'; very rare glauconite/shell fragments; feldspar; garnet; mica.
- 280-290 No sample.
- 290-300 Sand - yellowish gray (5 Y 7/2); medium to very coarse, subangular, moderate sorting; very rare glauconite/shell fragments; feldspar; garnet; mica.
- 300-310 Sand - yellowish gray (5 Y 7/2); very coarse to granule, subangular, moderate sorting; feldspar; garnet; rose quartz.
- 310-320 Sand - yellowish gray (5 Y 7/2); medium to coarse, angular and subangular, well sorted; feldspar; mica.
- 320-330 Sand - yellowish gray (5 Y 7/2); fine to granule, subangular, moderate sorting; feldspar; mica.
- 330-340 Sand - yellowish gray (5 Y 7/2); fine to very coarse, subangular, moderate sorting; feldspar; mica; garnet; rose quartz.
- 340-350 Sand - yellowish gray (5 Y 7/2); medium to coarse, subangular, well sorted; feldspar; mica.
- 350-360 Sand - yellowish gray (5 Y 7/2); medium to very coarse, subangular, moderate sorting; feldspar; rose quartz.
- 360-370 Sand - yellowish gray (5 Y 7/2); medium to granule, subangular and sub-rounded, moderate sorting; feldspar; rose quartz; garnet.
- 370-410 Sand - yellowish gray (5 Y 7/2); medium to granule, angular and subangular, moderate sorting; garnet; rose quartz; feldspar.

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410-430 Sand - yellowish gray (5 Y 7/2); sparse to very sparse clay; medium to granule, angular to subangular, moderate sorting; rose quartz; feldspar.

430-440 Sand - yellowish gray (5 Y 7/2); very sparse clay; fine to granule, angular and subangular, poorly sorted; garnet; rose quartz; feldspar.

440-460 Sand - yellowish gray (5 Y 7/2); medium to very coarse, subangular, moderate sorting; rose quartz; feldspar.

460-470 Sand - yellowish gray (5 Y 7/2); fine to very coarse with some granules, subangular, moderate sorting; rare shell fragments; garnet; feldspar.

470-490 Sand - yellowish gray (5 Y 7/2); sparse clay at 480-490'; medium to granule, subangular, moderate sorting; rare shell fragments; garnet; feldspar.

490-500 Sand - yellowish gray (5 Y 7/2); sparse clay; fine to granule, angular and subangular, poorly sorted; rare glauconite/shell fragments; garnet; feldspar.

500-510 Sand - yellowish gray (5 Y 7/2); medium to granule, subangular, poorly sorted; rare glauconite/shell fragments; garnet; feldspar.

510-520 Sand - yellowish gray (5 Y 7/2); very sparse clay; medium to granule, subangular, poorly sorted; rare glauconite/shell fragments; garnet; rose quartz; feldspar.

520-530 Sand --yellowish gray (5 Y 7/2); medium to coarse, subangular, well sorted; garnet; rose quartz; feldspar.

530-540 Sand - yellowish gray (5 Y 7/2); medium to very coarse, subangular, moderate sorting; rare glauconite/shell fragments; garnet; feldspar.

540-570 Sand - yellowish gray (5 Y 7/2); very sparse clay; fine to very coarse, subangular, poorly sorted; rose quartz at 540-560'; feldspar, mica at 540-560'; rare glauconite/shell fragments at 560-570'.

570-640 Sand - yellowish gray (5 Y 7/2); fine to very coarse, subangular, moderate sorting; kyanite at 600-610'; rose quartz; feldspar; garnet at 610-640'.

640-650 Sand - yellowish gray (5 Y 6/2); sparse clay; fine to very coarse with some granules, angular and subangular, moderate sorting; contamination; rose quartz; feldspar.

650-720 No samples.

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720-730 Sand - yellowish gray (5 Y 6/2); sparse clay; fine to very coarse with some granules, angular and subangular, poorly sorted; 5% glauconite/shell fragments - contamination; garnet; rose quartz; feldspar.

730-750 Sand - pale yellowish brown (10 YR 7/2); very sparse clay; fine to coarse, angular and subangular, poorly sorted; garnet; 30% rose quartz at 730-740'; feldspar.

750-770 Sand - pale yellowish brown (10 YR 7/2); sparse clay; fine to coarse, angular and subangular, poorly sorted; contamination - shell fragments; garnet; rose quartz; feldspar.

770-790 Sand - pale yellowish brown (10 YR 7/2); sparse clay at 780-790'; fine to very coarse, subangular, moderate sorting; rare glauconite/shell fragments/echinoderm spines at 780-790'; garnet; rose quartz; feldspar.

790-840 Sand - pale yellowish brown (10 YR 7/2); very coarse at 790-800' and 800-840' is medium to very coarse, subangular, well sorted at 790-800' and moderately well sorted at 800-840'; 30% mixed contamination at 820-830' of fine to medium sized glauconite and sand; garnet; rose quartz with 40% at 790-800'; feldspar.

Logged by: J. K. Polzin
November 25, 1980