

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

W-5933
C-185

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: SWCB, SE78-2A Mailing Address: _____

TENANT: _____ Mailing Address: _____

DRILLER: _____ Mailing Address: _____

WELL LOCATION: County Norfolk Approx. _____ feet
36°38'37"N, 76°20'18"W and _____ 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: October 3, 1977 DATE COMPLETED: October 27, 1977

TYPE OF DRILL RIG USED: _____ TOTAL DEPTH 1000 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: 4 inches from _____ to _____ feet
_____ inches from _____ to _____ feet
_____ inches from _____ to _____ feet

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

SCREEN SIZE: _____ inches from _____ to _____ feet
_____ inches from _____ to _____ feet
_____ inches from _____ to _____ feet
CASE SIZE: _____ inches from 824 to 834 feet
_____ inches from _____ to _____ feet
_____ inches from _____ to _____ feet

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

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

GROUTING: Method _____
Material _____ Depth _____ feet

WATER ANALYSIS AVAILABLE: Yes _____ No _____

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

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: Electric and gamma logs available

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

INTERVAL SHEET

C-185

~~C-186~~

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Well Repository No.: W-5933

Date rec'd: Date Processed: 6/19/80

Sample Interval: from 0 to: 1000

PROPERTY: SWCB Well SE 78-2A

Number of samples: 100

COMPANY: SWCB

Total Depth: 1000

COUNTY: Norfolk (Cornland)

Oil or Gas: Water: Exploratory:

From-To	From-To	From-To	From-To	From-To
0-10	300-310	600-610	900-910	-
10-20	310-320	610-620	910-920	-
20-30	320-330	620-630	920-930	-
30-40	330-340	630-640	930-940	-
40-50	340-350	640-650	940-950	-
50-60	350-360	650-660	950-960	-
60-70	360-370	660-670	960-970	-
70-80	370-380	670-680	970-980	-
80-90	380-390	680-690	980-990	-
90-100	390-400	690-700	990-1000	-
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	840-850	-	-
250-260	550-560	850-860	-	-
260-270	560-570	860-870	-	-
270-280	570-580	870-880	-	-
280-290	580-590	880-890	-	-
290-300	590-600	890-900	-	-

Owner: SWCB Well SE 78-2A
Driller: SWCB
County: Norfolk

W# 5933
C# 185
Total Depth: 1000'
Quad:
Elev:

Depth
(feet)

WELL LOG

- 0-20 Sand - yellowish gray (5Y 7/2); very sparse clay; medium to coarse, subrounded, moderately well sorted; 3% phosphate fragments at 10-20.
- 20-40 Sand - light olive gray (5Y 6/1); very sparse clay; fine to coarse, surrounded, moderate sorting; 5% phosphate fragments; 10-25% shell fragments - Arca, Mulinia, Oliva, Terebra, Corbula, bryozoa.
- 40-70 Gravel, Shelly - light and dark gray; 90% shell fragments; sparse clay; sparse sand; fine to very coarse, subrounded, poorly sorted; rare phosphate fragments; shell fragments - Melanella, Polinices, Dentalium, Glycimeris, Crepidula, Epitonium, Calyptraea, Centralis, Turritella, 3 gastropods, Chama (Chama Striata), Venicardia, Oliva, Calliostoma; forams - Quinqueloculina; crab chela; bryozoa; echinoderm spines.
- 70-90 Gravel, Shelly - light and dark gray; 90% fine shell fragments; sparse clay; sparse sand; fine to coarse, subrounded, poorly sorted; shells - Drilla, Fusinus, Macoma (?), Crepidula, oyster, pectens; echinoid spine; phosphate fragments; crab chela.
- 90-120 Gravel, Shelly - light and dark gray; 90% shell fragments - fine, reworked and large, whole forms mixed; sparse clay and sand, very sparse at 110-120; fine to coarse, subrounded, poorly sorted; shells - Chama, Drilla, Calyptraea, Aperta, Nucula, Crepidula, Corbula, Terebra Grayi, Crassinella, Arca, Turritella, Callistoma, Astarte, Macoma, pelecypods; ostracods; foram - Nonion; echinoid parts.
- 120-250 Clay - light olive gray (5Y 6/1); abundant sand; fine to medium, subangular, well sorted; glauconite - 10% at 160-180, 5% at 180-200, few at 200-240, 5% at 210-230, and few at 230-250; shell fragments: 120-130 - 3% fine; 130-140 - 10%; 140-160 - 8%; 160-180 - 10%; 180-200 - 3%; 200-210 - 1%; 210-230 - 3%; 230-250 - rare; mica.
- 250-260 Clay - light olive gray (5Y 6/1); abundant sand; fine to coarse, subangular, moderate sorting; rare glauconite; 1% shell fragments.
- 260-380 Clay - light olive gray (5Y 6/1); sparse sand; fine to medium, subangular, moderately well sorted; rare glauconite from 260-280; mica.

Depth
(feet)

- 380-410 Clay - light olive gray (5Y 5/2); sparse sand; fine to medium, subangular, moderately well sorted; mica.
- 410-440 Clay - light olive gray (5Y 5/2); moderate sand; fine to coarse, subangular, moderately well sorted; tooth at 420-430; mica.
- 440-460 Clay - light olive gray (5Y 6/1); moderate sand; fine to coarse, subangular, moderately well sorted; rare glauconite/shell fragments.
- 460-480 Clay - light olive gray (5Y 5/2); moderate sand; fine to coarse, subangular, moderately well sorted; 40% very coarse, dark green glauconite.
- 480-530 Clay - light olive gray (5Y 5/2); abundant sand; fine to coarse with some very coarse at 500-510 and fine to granules at 520-530, subangular and angular at 520-530, moderate sorting with poor at 520-530; 15% glauconite, 10% at 400-530, 3% to 1% at 500-510 to few at 520-530; shell fragments - oysters; clasts of bioclastic limestone/sand/glauconite.
- 530-560 Sand - light olive gray (5Y 5/2); abundant clay with some red clasts; fine to granules with some pebbles at 550-560, subangular and angular, poor sorting; 5% glauconite; tooth; feldspar.
- 560-580 Sand - light olive gray (5Y 5/2); abundant clay; fine to granule at 560-570 and to very coarse at 570-580, subangular and angular, poorly sorted; 10% glauconite; 10% to 8% fine shell fragments - Mulinia, Oliva.
- 580-590 Sand - light olive gray (5Y 6/1); abundant clay; fine to pebble, angular, subangular and rounded, poorly sorted; rare glauconite; 3% shell fragments.
- 590-600 Gravel - mixed colors; very sparse clay; medium to pebble, subangular to rounded, moderate sorting; rare glauconite/shell fragments.
- 600-640 Sand - light olive gray (5Y 5/2); moderate clay, abundant at 630-640; fine to rounded granules with rounded pebbles at 630-640, angular and subangular, moderate sorting; very rare glauconite; clay clasts of red, white, yellow and pink.
- 640-660 Gravel - light olive gray (5Y 5/2); moderate clay; fine to pebble, angular to rounded, poor sorting; 10% glauconite; 1% shell fragments; pyrite cemented clasts with glauconite/sand grains; limestone clasts with sand/glauconite.

Depth
(feet)

- 660-680 Sand - light olive gray (5Y 5/2); sparse clay in clasts; fine to granule, mostly fine, angular to rounded, poorly sorted at 660-670 and well sorted at 670-680; 10-5% glauconite; 1-2% shell fragments; mica and 10% mica at 670-680.
- 680-690 Sand - light olive gray (5Y 5/2); moderate clay in clasts; fine to granule, mostly fine, angular to rounded, poorly sorted; 5% glauconite; 1% shell fragments; mica.
- 690-760 Sand - light olive gray (5Y 6/1); abundant clay; fine to very coarse, angular to rounded with few angular at 690-700, poorly sorted with well sorted at 690-700; glauconite - rare at 690-700, 10% at 700-760; rare shell fragments - oysters; mica.
- 760-810 Sand - light olive gray (5Y 6/1); moderate clay with abundant at 770-780; fine to very coarse, angular to rounded, poorly sorted; 5% glauconite; rare shell fragments; mica.
- 810-860 Sand - light olive gray (5Y 6/1); sparse clay with moderate at 830-850, fine to very coarse, angular to rounded, poorly sorted; rare glauconite/shell fragments; feldspar at 850-860.
- 860-870 Sand - light olive gray (5Y 6/1); fine to granule, angular and subangular, moderate sorting; feldspar.
- 870-920 Sand - light olive gray (5Y 6/1); sparse clay with no clay at 880-890; fine to granule with rounded pebbles at 900-910, angular and subangular, moderate sorting; feldspar; garnet at 900-920.
- 920-940 Gravel - light olive gray (5Y 6/1); sparse clay; fine to pebble, angular to rounded, moderate sorting; feldspar; garnet; mica; (some contamination).
- 940-960 Sand - light olive gray (5Y 6/1); sparse clay; fine to very coarse, angular and subangular, moderate sorting; feldspar (contamination).
- 960-1000 Sand - light yellowish brown (10YR 6/4); abundant clay at 960-970 and sparse thereafter; fine to granule, angular, poorly sorted; (contamination) - shell fragments, limestone clasts, glauconite and shark tooth (colo shark).

Logged by: J. K. Polzin
November 14/17, 1980