

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

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 SE 77-7A Mailing Address: Richmond

TENANT: _____ Mailing Address: _____

DRILLER: _____ Mailing Address: _____

WELL LOCATION: County Nansemond Approx. ^{feet}/_{miles} (direction) of
36°33'45"N; 76°47'02"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: 6/1/77 DATE COMPLETED: 6/16/77

TYPE OF DRILL RIG USED: _____ TOTAL DEPTH 1265 feet

WATER LEVEL: Stands 105 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
SCREEN SIZE: _____ inches from 1050 to 1060 feet

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

_____ inches from _____ to _____ feet
_____ inches from _____ to _____ feet
CASE SIZE: _____ inches from _____ to _____ 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: Elev. 45' - Gates Quad.
Electric and gamma logs available

LOG

FURNISHED BY: _____ DATE: _____

DEPTH (feet)		TYPE OF ROCK OR SOIL PENETRATED (gravel, clay, etc., hardness, color, etc.)	REMARKS (water, caving, shot, screen, sample, etc.)
FROM	TO		
		None Submitted	

(Use additional forms if necessary)

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

INTERVAL SHEET

Page	1	of	1		C-203
				Well Repository No.:	W-5821
Date rec'd:		Date Processed:	3/18/80	Sample Interval:	from 0 to: 1265
PROPERTY:	SWCB	77-7		Number of samples:	119
COMPANY:	SWCB			Total Depth:	1265
COUNTY:	Suffolk - Nansemond (Somerton)			Oil or Gas:	Water: XX Exploratory:

From-To	From-To	From-To	From-To	From-To
0-10	300-310	600-610	*900-910	1210-1220
10-20	-	610-620	*910-920	*1220-1230
20-30	*320-330	*620-630	920-930	*1230-1240
30-40	*330-340	*630-640	930-940	*1240-1250
40-50	340-350	640-650	*940-950	1250-1260
-	*350-360	650-660	950-960	1260-1265
*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	1000-1010	-
*110-120	*410-420	710-720	1010-1020	-
120-130	*420-430	720-730	1020-1030	-
130-140	*430-440	730-740	*1030-1040	-
140-150	*440-450	740-750	1040-1050	-
150-160	450-460	750-760	1050-1060	-
160-170	460-470	760-770	1060-1070	-
-	470-480	770-780	1070-1080	-
180-190	480-490	*780-790	1080-1090	-
-	*490-500	*790-800	1090-1100	-
-	*500-510	*800-810	1100-1110	-
210-220	*510-520	*810-820	1110-1120	-
220-230	*520-530	*820-830	1120-1130	-
230-240	530-540	830-840	1130-1140	-
240-250	540-550	*840-850	*1140-1150	-
250-260	550-560	850-860	1150-1160	-
260-270	560-570	860-870	*1160-1170	-
270-280	570-580	-	1170-1180	-
280-290	-	*880-890	*1180-1190	-
290-300	590-600	*890-900	*1190-1200	-

Split-wash

*Unwashed only

Owner: SWCB 77-7
Driller: SWCB
County: Nansemond (Suffolk)

W# 5821
C# 203
Total Depth: 1265'
Quad: Gates
Elev: 45'

Depth
(feet)

WELL LOG

0-10 Clay - grayish orange (10YR 7/5); sparse sand; fine to very coarse, subangular, poorly sorted; mica.

10-30 Sand - pale yellowish brown (10YR 6/2); moderate clay; fine to coarse, subangular, moderate sorting; ochre crusts.

30-50 Clay - light olive gray (5Y 6/1); abundant sand; fine ~~medium~~, subangular, well sorted; mica.

50-60 No Sample.

60-80 Sand - light olive gray (5Y 6/1); moderate clay; fine to coarse, subangular, moderate sorting; 40% ^{fine} shell fragments, ~~fine~~ Yoldia.

80-100 Clay - light olive gray (5Y 6/1); abundant sand; fine to coarse, subangular, moderate sorting; 30% to 10% large shell fragments - Mulinia, Arca/Barbata.

100-120 Sand, Glauconitic - light and dark green; 50% glauconite; sparse clay; fine to coarse, subangular, moderate sorting; echinoderm plates.

120-150 Sand - light olive gray (5Y 6/1); abundant clay; fine to very coarse, subangular, moderate sorting; 10% fine bone/glauconite/phosphate fragments; 1% shell fragments, with 3% at 140-150 - pectens and (clam) tube casings.

150-170 Sand - light olive gray (5Y 5/2); sparse clay; fine to very coarse, subangular, moderate sorting; 20% fine bone fragments/glauconite/phosphate fragments; 1% shell fragments; teeth.

170-180 No Sample.

180-190 Sand, Glauconitic - light and dark green; 80% glauconite; ~~30%~~ ~~coquina fragments, very sparse sand~~ fine to very coarse, subangular, poorly sorted; 20% coquina fragments - calcium carbonate, shell molds and fragments; ~~sand, glauconite~~ ostracod; garnet.

190-210 No Sample.

210-220 Sand, Glauconite - light and dark green; 70% glauconite; medium to very coarse, subangular, poorly sorted; 20% coquina fragments; ~~4% shell fragments~~ garnet.

Depth
(feet)

- 220-230 Sand - pale yellowish brown (10YR 6/2); medium to very coarse, subangular, moderate sorting; 25% glauconite.
- 230-240 Sand - pale yellowish brown (10YR 6/2); very fine and coarse to very coarse, subangular, moderate sorting; 10% glauconite; rare shell fragments; mica.
- 240-250 Sand - pale yellowish brown (10YR 6/2); medium to granule, subangular, moderate sorting; coquina fragments with glauconite; shark teeth; coral; mica.
- 250-260 Gravel - mixed colors; moderate clay; ~~50%~~ gravel - rounded pebbles, poorly sorted; ~~17%~~ 50% coquina fragments, ~~17% shell fragments~~; shark teeth.
- 260-280 Gravel - dark yellowish brown (10YR 4/2); moderate clay; fine to rounded granules, subangular, poorly sorted; 30% coquina fragments and glauconite; ~~rare shell fragments~~; shark teeth.
- 280-290 Sand - pale yellowish brown (10YR 6/2); very fine to granule, subangular, poorly sorted; 20% coquina, ~~15% shell fragments~~.
- 290-300 Coquina - mixed colors; calcium carbonate; ~~15% shell fragments~~; 33% glauconite.
- 300-310 Coquina - light olive gray (5Y 6/1); 50% coquina fragments; very fine to rounded granules, subangular, poorly sorted, ~~15% shell fragments~~.
- 310-320 No Sample.
- 320-340 Sand - light olive gray (5Y 6/2); sparse clay; very fine to rounded granules, subangular, poorly sorted; 15% glauconite; 1% shell fragments; ~~rare coquina fragments~~; garnet; 1% mica.
- 340-360 Sand - light olive gray (5Y 6/2); sparse clay; very fine and coarse to granular, subangular and rounded, poorly sorted; rare glauconite and shell fragments; ~~rare coquina fragments~~; garnet; 1% mica.
- 360-380 Sand - light olive gray (5Y 6/2); abundant clay; very fine with a few larger grains, subangular and rounded, poorly sorted; rare glauconite; 10% mica.
- 380-460 Sand - light olive gray (5Y 5/1); abundant clay; very fine with some larger grains to 410-420, then very fine to very coarse, subangular, well sorted to 410-420, then poorly sorted; rare shell fragments at 380-410; abundant muscovite.
- 460-470 Sand - light olive gray (5Y 5/1); abundant clay; fine, subangular, well sorted; 10% mica.

Depth
(feet)

- 470-480 Sand - light olive gray (5Y 5/1); abundant clay; fine to very coarse, subangular, moderate sorting; 10% mica.
- 480-490 Sand - light olive gray (5Y 5/1); abundant clay; fine to granule, subangular, poorly sorted; shell fragments; 10% mica.
- 490-500 Sand - pale yellowish brown (10YR 6/2); abundant ~~very fine to coarse~~ clay clasts - red, black, yellow, brown; fine to very coarse, subangular, moderate sorting; 10% mica.
- 500-510 Sand - pale yellow brown (10YR 6/2); sparse clay; very fine to coarse, subangular, moderate sorting; 10% fine glauconite; 10% mica.
- 510-520 Sand - dark yellow brown (10YR 4/2); sparse clay; very fine to very coarse, subangular, moderate sorting; 10% fine glauconite; 10% mica.
- 520-540 Sand - moderate yellow brown (10YR 5/4); sparse clay; medium to very coarse, subangular, moderately well sorted; 3% glauconite; mica.
- 540-550 Sand - pale yellow brown (10YR 6/2); very sparse clay; medium to very coarse, subangular, moderately well sorted.
- 550-570 Sand - pale yellowish brown (10YR 6/2); sparse clay; coarse to granule, subangular, moderate sorting; feldspar.
- 570-580 Sand - pale yellowish brown (10YR 6/2); sparse clay; very fine to granule, angular to subangular, moderate sorting; feldspar.
- 580-590 No Sample.
- 590-610 Sand - pale yellow brown (10YR 6/2); sparse clay; very fine to granule, angular and subangular at 590-600 and subangular to subrounded at 600-610, poorly sorted; bone fragments; feldspar.
- 610-700 Sand - pale yellowish brown (10YR 6/2); moderate clay; very fine to granules, subangular and rounded at 610-620, and subangular and subrounded for rest, poor sorting; feldspar.
- 700-720 Sand - pale yellow brown (10YR 6/2); moderate clay; very fine to granule, subangular, poor sorting; feldspar.
- 720-730 Sand - pale yellow brown (10YR 6/2); moderate clay; very fine to granule, angular and subangular, poor sorting; feldspar.

Depth
(feet)

730-750	Sand - pale yellow brown (10YR 6/2); moderate clay; very fine to granule, subangular, poor sorting; feldspar.
750-760	Sand - pale yellow brown (10YR 6/2); moderate clay; very fine to granule, subangular and angular, poor sorting; sparse feldspar; 2 rounded carnelian pebbles.
760-770	Sand - pale yellow brown (10YR 6/2); moderate clay; very fine to granular, subangular and subrounded, poorly sorted.
770-870	Sand - pale yellowish brown (10YR 6/2); sparse clay in clasts of white, yellow, brown, gray; very fine to granule, subangular to subrounded with subangular at 800-810, poorly sorted; garnet from 770-840 and mica from 830-870.
870-880	No Sample.
880-910	Sand - pale yellow brown (10YR 6/2); sparse clay; very fine to granule with more in medium to very coarse range, angular and subangular, poor sorting; mica.
910-950	Sand - pale yellow brown (10YR 6/2); moderate clay at 910-920 and sparse from 920-950; very fine to granule with some rounded pebbles, angular and subangular, poorly sorted; mica.
950-980	Sand - pale yellow brown (10YR 6/2); sparse clay at 950-960 and very sparse from 960 to 980; fine to granule, angular to subrounded, poorly sorted; mica.
980-1010	Sand - pale yellow brown (10YR 6/4); <u>very</u> sparse clay in light brown, yellow, white, gray clasts; fine to granule, at 990-1000, fine to very coarse, angular and subrounded, poorly sorted; garnet; feldspar; mica.
1010-1030	Sand - pale yellow brown (10YR 6/4); fine to granule, angular and subrounded, poorly sorted; garnet; feldspar.
1030-1060	Sand - pale yellow brown (10YR 6/4); very sparse clay; fine to granule, angular and subrounded, poor sorting; glauconite contamination; garnet; feldspar; mica.
1060-1080	Sand - pale yellow brown (10YR 6/4); very sparse clay; medium to granule, subangular and subrounded, poor sorting; rose quartz; feldspar.

Owner:

SWCB 77-7

-5-

W# 5821

C# 203

Depth
(feet)

- 1080-1110 Sand - pale yellow brown (10YR 6/4); sparse clay; fine to granule, ~~and~~ medium to granule at 1100-1110, subangular and subrounded, poor sorting; rose quartz; feldspar; mica.
- 1110-1120 Sand - pale yellow brown (10YR 6/4); ~~medium to~~ coarse to granule, subangular, moderate sorting; rose quartz; feldspar.
- 1120-1140 Sand - pale yellow brown (10YR 6/4); sparse clay; very fine and medium to granule, subangular, poorly sorted; rose quartz; feldspar.
- 1140-1190 Sand - pale yellow brown (10YR 6/4); moderate clay; very fine to granule, subangular, poor sorting; rose quartz; feldspar.
- 1190-1240 Sand - pale yellowish brown (10YR 6/2); sparse clay; very fine to granule with very fine to very coarse at 1230-1240, subangular, poor sorting and moderate sorting at 1230-1240; rose quartz^{at} 1190-1230; feldspar.
- 1240-1265 Sand - pale yellow brown (10YR 6/2); moderate clay; very fine to very coarse with rounded pebbles at 1240-1250 and very fine to granules from 1250-1265, subangular, moderate to poorly sorted at 1250-1265; mica.

Logged by: J. K. Polzin
December 9/10, 1980