

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

W - 5785
C - 79

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: City of Virginia Beach Mailing Address: Dept. Utilities, Virginia Beach ²³⁴⁶²

TENANT: _____ Mailing Address: _____

DRILLER: Layne Atlantic Company Mailing Address: P.O. Box 7095, Norfolk, Va. 23509

WELL LOCATION: County Princess Anne Approx. 303 ^{feet} miles Southwest (direction) of
Sandpit Road and 291 ^{feet} miles Northwest (direction) of Barrs Road

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

DATE STARTED: 4/5/79 DATE COMPLETED: 5/11/79

TYPE OF DRILL RIG USED: rotary TOTAL DEPTH 1339 feet

WATER LEVEL: Stands 63.6 feet below surface OR
has NATURAL flow of _____ gallons per minute.

YIELD TEST: Method pump
Drawdown 25.5 feet
Rate 200 gal. per min.
Duration 16 hrs., _____ min.

HOLE SIZE: 20 inches from 0 to 84 feet
15 inches from 84 to 1139 feet
_____ inches from _____ to _____ feet

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

SCREEN SIZE: 4 inches from 1000 to 1010 feet
4 inches from 1024 to 1068 feet
4 inches from 1082 to 1124 feet
CASE SIZE: 16 inches from 0 to 84 feet
8 inches from 0 to 200 feet
4 inches from 200 to 1134 feet

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

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

GROUTING: Method _____
Material _____ Depth 962 feet

WATER ANALYSIS AVAILABLE: Yes _____ No _____

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

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: Schlumberge - Dual Induction, Gamma Ray, Temperature, Caliper logs.

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		
0	10		
10	20		
20	30		
30	40		
40	50		
50	60		
60	70		
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		
250	260		
260	270		
270	280		
280	290		
290	300		
300	310		
310	320		
320	330		
330	340		
340	350		
350	360		
360	370		
370	380		
380	390		
390	400		
400	410		
410	420		
420	430		
430	440		
440	450		
450	460		
460	470		
470	480		
480	490		
490	500		

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

INTERVAL SHEET

C-79

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Well Repository No.: W- 5785

Date rec'd: 9/17/ 79 Date Processed: 2/19/80

Sample Interval: from 85 to: 1323

PROPERTY: City of Virginia Beach # 2

Number of samples: 174

COMPANY: Layne Atlantic Co.

Total Depth: 1339

COUNTY: Princess Anne (Burtons)

Oil or Gas: water :XX Exploratory:

From-To	From-To	From-To	From-To	From-To
-	260 - 265	-	740 - 745	932 - 937
-	265 - 270	-	745 - 750	937 - 942
-	270 - 275	457 - 462	750 - 755	942 - 947
-	275 - 280	462 - 467	755 - 760	947 - 952
-	280 - 285	-	-	952 - 957
	* 285 - 290	-	-	957 - 962
85 - 92	290 - 295	467 - 472	769 - 779	962 - 967
92 - 115	295 - 300	472 - 477	779 - 800	-
115 - 120	300 - 305	-	800 - 807	967 - 972
-	305 - 310	-	807 - 812	972 - 977
125 - 130	310 - 315	-	-	977 - 982
	315 - 302	-	815 - 825	982 - 987
130 - 135	320 - 322	630 - 635	825 - 830	987 - 992
135 - 140	322 - 327	635 - 640	830 - 835	-
140 - 145	327 - 332	640 - 645	835 - 840	992 - 997
145 - 150	-	645 - 650	-	997 - 1002
155 - 160	-	650 - 655	-	1002 - 1007
160 - 165	-	-	-	1007 - 1012
165 - 170	332 - 337	655 - 660	842 - 848	1012 - 1017
* 170 - 180	337 - 342	660 - 665	848 - 853	-
180 - 185	342 - 347	665 - 670	853 - 858	1017 - 1022
185 - 190	-	670 - 675	853 - 863	1022 - 1027
190 - 195	-	675 - 680	863 - 868	1027 - 1032
195 - 200	-	-	-	1032 - 1037
200 - 205	-	680 - 685	868 - 872	1037 - 1042
* 205 - 210	362 - 367	685 - 690	872 - 878	1042 - 1052
-	-	690 - 695	878 - 882	-
* 210 - 215	-	695 - 700	882 - 892	1064 - 1069
* 215 - 220	-	700 - 705	-	1068 - 1073
220 - 225	-	-	892 - 897	1073 - 1078
* 225 - 230	-	705 - 710	897 - 902	-
* 230 - 235	387 - 392	710 - 715	902 - 907	-
235 - 240	392 - 397	715 - 720	907 - 912	1085 - 1090
240 - 245	-	720 - 725	912 - 917	1090 - 1095
245 - 250	-	725 - 730	917 - 922	1095 - 1100
250 - 255	-	730 - 735	922 - 927	1100 - 1105
255 - 260	-	735 - 740	927 - 932	1105 - 1110

Split wash * Unwashed sample only

VIRGINIA DIVISION OF MINERAL RESOURCES
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INTERVAL SHEET
 Continued

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Well Repository No.: W- 5785

From-To	From-To	From-To	From-To	From-To
1110 - 1115	-	-	-	-
1118 - 1123	-	-	-	-
1123 - 1128	-	-	-	-
1128 - 1133	-	-	-	-
1128 - 1136	-	-	-	-
1133 - 1138	-	-	-	-
1138 - 1143	-	-	-	-
1143 - 1148	-	-	-	-
-	-	-	-	-
1158 - 1163	-	-	-	-
1158 - 1168	-	-	-	-
1163 - 1168	-	-	-	-
1168 - 1178	-	-	-	-
1178 - 1182	-	-	-	-
-	-	-	-	-
1182 - 1187	-	-	-	-
1187 - 1192	-	-	-	-
1192 - 1197	-	-	-	-
1197 - 1202	-	-	-	-
1202 - 1207	-	-	-	-
-	-	-	-	-
1207 - 1212	-	-	-	-
* 1213 - 1218	-	-	-	-
* 1213 - 1223	-	-	-	-
1218 - 1223	-	-	-	-
1223 - 1233	-	-	-	-
-	-	-	-	-
1233 - 1243	-	-	-	-
-	-	-	-	-
-	-	-	-	-
1260 - 1265	-	-	-	-
-	-	-	-	-
1262 - 1270	-	-	-	-
1277 - 1282	-	-	-	-
1277 - 1295	-	-	-	-
-	-	-	-	-
1287 - 1292	-	-	-	-
-	-	-	-	-
* 1295 - 1300	-	-	-	-
1300 - 1308	-	-	-	-
1308 - 1313	-	-	-	-
-	-	-	-	-
1313 - 1318	-	-	-	-
1318 - 1323	-	-	-	-
1323 - 1333	-	-	-	-
-	-	-	-	-

OWNER: City of Virginia Beach
DRILLER: Layne Atlantic
COUNTY: Princess Anne (City of Virginia Beach)

W# 5785
C# 79
TOTAL DEPTH: 1339'
QUAD: Little Creek.
Elev:

GEOLOGIC LOG

Depth
(feet)

- 0 - 85 No sample.
- 85 - 92 Sand, light olive gray (5Y 6/2), very fine-grained, subrounded, very well sorted, some silt, 20% shell fragments, spines, barnacles, bivalves, some small gastropods.
- 92 - 115 Same as above; some medium-to-fine grained quartz, moderate silt.
- 115 - 120 Same as above; Glycymeris, Mulinia, Discinisca.
- 120 - 125 No sample.
- 125 - 130 Sand, light olive gray, (5Y 6/2), very fine-grained, subrounded, very well sorted, moderate silt, some medium quartz grains, 10% shell fragments, spines.
- 130 - 135 Same as above
- 135 - 140 Sand, light olive gray (5Y 6/2), very fine-grained extremely well-sorted, abundant silt, 5% shell fragments, lignite fragment, spines (gracile).
- 140 - 145 Same as above.
- 145 - 150 Same as above, abundant spines (gracile).
- 150 - 155 No sample.
- 155 - 160 Sand, light olive gray (5Y 6/2), very fine-grained, extremely well sorted, moderate silt, 20% shell fragments, Turritella, alticostata, abundant spines (gracile), Kuphus, Mulinia, reworked glauconite rare.
- 160 - 165 Sand, light olive gray (5Y 6/2), very fine-grained, well sorted, abundant silt, 15% shell fragments, barnacles, Kuphus, Turritella, alticostata, spines (gracile), some medium to coarse quartz grains, 1% reworked glauconite grains.
- 165 - 170 Same as above, abundant spines (gracile and robust), Dosinia.
- 170 - 180 Same as above, moderate spines (gracile), Dosinia, Turritella, alticostata.

Depth
(feet)

- 180 - 185 Same as above, Dentalium, Turritella alticostata, Astarte concentrica, Dosinia, crab claw.
- 185 - 190 Sand, light olive gray (5Y 6/2), fine-grained, subrounded, moderately well sorted, some clay, moderate silt, 10% shell fragments, Turritella alticostata, T. pilsbryi, Kuphus, barnacles, some glauconite.
- 190 - 195 Clay, light olive gray (5Y 6/2), moderate silt and sand, fine- to medium-grained, quartz sand, subrounded, 5% shell fragments, Turritella pilsbryi, Astrangia, reworked glauconite (rare).
- 195 - 200 Same as above, some Quartz pebbles (2mm), coral fragments, Septastrea?
- 200 - 205 Same as above, no quartz pebbles.
- 205 - 210 Clay, light olive gray (5Y 6/2), moderate silt and sand, very fine-grained, well sorted, some medium quartz grains, 1% reworked glauconite, 5% shell fragments, Turritella.
- 210 - 215 Sand, light olive gray (5Y 6/2), fine-grained rounded to subrounded, moderately sorted, little clay, some silt, 10% shell fragments, Chesapecten, Turritella, 2% reworked glauconite.
- 215 - 220 Silt, light olive gray (5Y 6/2), abundant sand, very fine-grained, extremely well sorted, some clay, 5% shell fragments, 1% reworked glauconite.
- 220 - 225 Same as above, few fine to medium quartz grains.
- 225 - 230 Same as above.
- 230 - 235 Sand, light olive gray (5Y 6/2), very fine-grained, well sorted, abundant silt, few medium to coarse quartz grains, 10% shell fragments, Turritella pilsbryi, Dosinia, barnacles, 1% reworked glauconite.
- 235 - 240 Same as above, Dentalium, Dosinia.
- 240 - 245 Same as above, Turritella pilsbryi.
- 245 - 250 Same as above. Turritella, Isognoman?, some clay.
- 250 - 255 Clay, light olive gray (5Y 6/2), moderate silt, some sand, very fine-grained, subrounded, moderately well sorted, 2% shell fragments, 1% reworked glauconite.
- 255 - 260 Same as above, some shell fragments.
- 260 - 265 Same as above.

DEPTH
(feet)

265 - 270 Same as above.

270 - 275 Same as above, 2% shell fragments, Chesapecten.

275 - 280 Same as above.

280 - 285 Sand, light olive gray (5Y 6/2), very fine-grained, subrounded moderately sorted, some clay, moderate silt, some limestone fragments, 1% shell fragments, spines (gracile), 1% reworked glauconite.

285 - 290 Same as above, Chesapecten.

290 - 295 Same as above, some rounded quartz pebbles.

295 - 300 Silt, light olive gray (5Y 6/2), abundant sand, subrounded, extremely well sorted, little clay, 2% shell fragments, few limestone fragments, few quartz pebbles.

300 - 305 Same as above.

305 - 310 Same as above.

310 - 315 Same as above, few clay chips.

315 - 320 Same as above, few clay chips (laminae?).

320 - 322 Same as above, moderate sand.

322 - 327 Silt, olive gray (5Y 5/2), some sand, very fine-grained, very well sorted, 5% shell fragments, numerous gastropod fragments, Drillia, Turritella, some limestone fragments.

327 - 332 Same as above, Arachis?

332 - 337 Same as above, Turritella plebia, Ecphora.

337 - 342 Same as above, Drillia.

342 - 347 Same as above.

347 - 362 No sample.

362 - 367 Silt, olive gray (5Y 5/2), some sand, very fine-grained, very well sorted, 2% shell fragments, 1% limestone fragments.

367 - 387 No sample.

387 - 392 Silt, light olive gray (5Y 6/2), some sand, very fine-grained, extremely well sorted, 1% shell fragments, few medium to coarse quartz grains, Turritella.

DEPTH
(feet)

392 - 397	Same as above.
397 - 457	No sample.
457 - 462	Silt, light olive gray (5Y 6/2), some sand, very fine-grained, very well sorted, little clay; rare shell fragments, quartz pebbles, and clay chips.
462 - 467	Same as above.
467 - 472	Same as above.
472 - 477	Same as above.
477 - 630	No sample.
630 - 635	Silt, olive gray (5Y 5/2), some sand, very fine-grained, extremely well sorted, some clay and shell fragments, <u>Dentalium</u> .
635 - 640	Same as above, rare limestone fragments.
640 - 645	Silt light olive gray (5Y 6/2), very finely laminated, rare clay and sand, rare shell fragments, one garnet pebble.
645 - 650	Silt, light olive gray (5Y 6/2), little clay or sand, no lamination.
650 - 655	Same as above.
655 - 660	Silt, olive gray (5Y 5/2), rare clay and sand, some spines (gracile), abundant forams - <u>Cibicides</u> , <u>Bulimina</u> , <u>Nonion</u> , forams seem to form a "shell hash" within the matrix.
660 - 665	Same as above, many small forams.
665 - 670	Same as above, fewer forams, some muscovite.
670 - 675	Same as above, some muscovite; some black unidentified grains.
675 - 680	Silt, olive gray (5Y 5/2), some sand, very fine-to fine grained, subrounded, moderately sorted, some medium to coarse quartz grains, shark's teeth, bone fragments, 15% reworked glauconite, abundant small forams.

Depth
(feet)

- 680 - 685 Silt, olive gray (5Y 5/2), some moderate sand, very fine- to fine-grained, subrounded, moderately sorted, some medium to coarse quartz, abundant shark's teeth, bone fragments, 50% rounded glauconite, abundant small forams.
- 685 - 690 Silt, light olive gray, (5Y 6/2), some sand, medium- to fine-grained, subrounded, moderately sorted, few coarse grains, sharks teeth; bone fragments, 20% glauconite (fecal), shell fragments, abundant small forams.
- 690 - 695 Silt, olive gray (5Y 5/2), some sand, very fine-grained, well sorted, rare clay, 30% glauconite, shark's teeth; interbedded light olive gray, foram-rich silt and olive gray, glauconite-rich sandy silt.
- 695 - 700 Same as above, some shell fragments.
- 700 - 705 Same as above.
- 705 - 710 Silt, olive gray (5Y 5/2), some sand, very fine-grained, moderately well sorted, some medium to coarse quartz grains, rare shell fragments, 10% glauconite, forams, 1% calcite grains.
- 710 - 715 Same as above.
- 715 - 720 Same as above.
- 720 - 725 Same as above.
- 725 - 730 Same as above, fewer forams.
- 730 - 735 Same as above.
- 735 - 740 Silt, olive gray, (5Y 5/2), some sand, very fine-grained, well sorted, 20% glauconite, interbedded with silt, light olive gray, (5Y 5/2), abundant forams, some sand, very fine-grained.
- 740 - 745 Same as above, Uvigerina, Bulimina, rare shell fragments.
- 745 - 750 Silt, light olive gray (5Y 6/2), little sand, abundant forams, some pieces of glauconite rich material, rare fine to medium quartz grains, rare Turritella.
- 750 - 755 Silt, olive gray (5Y 5/2), moderate sand, medium- to fine-grained, subrounded, moderately sorted, 10% reworked glauconite, rare shell fragments, moderate forams, some muscovite.
- 755 - 760 Same as above, nodular glauconite present.

Depth
(feet)

- 760 - 769 No sample.
- 769 - 779 Silt, grayish brown (2.5Y 5/2), some sand, medium-to fine-grained, subrounded, moderately sorted, 30% glauconite, moderate forams.
- 779 - 797 No sample.
- 797 - 800 Silt, grayish brown (2.5Y 5/2), moderate sand, medium-to coarse-grained, subrounded to rounded, very poorly sorted, 15% glauconite, moderate forams, rare shell fragments.
- 800 - 807 Same as above, Nonion, Uvigerina, bryozoans, rare siderite and quartz pebbles.
- 807 - 812 Same as above.
- 812 - 815 No samples.
- 815 - 825 Silt, gray, (5Y 5/1), moderate sand, medium-to coarse-grained, subrounded, very poorly sorted, 5% glauconite, rare shell fragments.
- 825 - 830 Same as above, rare forams.
- 830 - 835 Same as above, rare muscovite.
- 835 - 840 Sand, gray (5Y 5/1), coarse-grained, subrounded, very poorly sorted, some silt, 3% glauconite, rare muscovite, rare shell fragments, rare rock fragments.
- 840 - 842 No sample.
- 842 - 848 Same as above.
- 848 - 853 Same as above, rare glauconite.
- 853 - 858 Sand, gray (5Y 5/1), coarse-grained, subrounded, very poorly sorted, some clay chips (laminae?), moderate glauconite, rare muscovite, rare shell fragments.
- 858 - 863 Same as above, hematitic stains.
- 863 - 868 Same as above, moderate clay, rare siderite.
- 868 - 872 Clay, gray (5Y 5/1), moderate sand, coarse-grained, sub-rounded, very poorly sorted, 1% glauconite, rare shell fragments.
- 872 - 878 Same as above, some silt, rare limestone fragments, lignite

DEPTH
(feet)

878 - 882	Sand, gray, (5Y 5/1); coarse-grained, subrounded, very poorly sorted, some clay, 5% glauconite, 1% lignite, rare muscovite.
882 - 887	Same as above, rare glauconite.
887 - 892	Same as above, no lignite, moderate glauconite.
892 - 897	Same as above, rare shell fragments and clay chips.
897 - 902	Same as above, rare glauconite.
902 - 907	Sand, gray (5Y 5/1), coarse-grained, subrounded, poorly sorted, some clay, sand-well sorted, coarse-to medium-grained, some glauconite.
907 - 912	Same as above, rare muscovite and feldspar.
912 - 917	Sand, gray (5Y 5/1), medium-grained, subrounded, poorly sorted, moderate clay, rare muscovite, abundant galuconite.
917 - 922	Same as above, abundant muscovite, feldspar.
922 - 927	Same as above.
927 - 932	Same as above, abundant clay.
932 - 937	Same as above, laminated.
937 - 942	Sand, gray (5Y 5/1), medium to coarse-grained subrounded, poorly sorted, moderate clay, abundant lignite and muscovite, rare feldspar.
942 - 947	Same as above, abundant clay.
947 - 952	Sand, gray (5Y 5/1), medium-to coarse-grained, subrounded, poorly sorted, some clay, abundant silt and muscovite, moderate lignite.
952 - 957	Silt, pale yellow (5Y 7/4), some clay, moderate sand, medium-to fine-grained, subrounded poorly sorted, some muscovite, abundant glauconite, moderate lignite.
957 - 962	Same as above, rare quartz pebbles.
962 - 967	Same as above.
967 - 972	Same as above.
972 - 977	Same as above

Depth (feet)	
977 - 982	Silt, pale yellow (5Y 7/4), some clay, moderate sand, medium-to fine-grained, subrounded, poorly sorted, some muscovite, 1% glauconite, some lignite, rare quartz pebbles.
982 - 987	Same as above.
987 - 992	Same as above, 20% lignite.
992 - 997	Same as above, some lignite, rare quartz pebbles, indurated?
997 - 1002	Silt, pale yellow (5Y 7/4), some clay, moderate sand, medium-to fine-grained, subrounded, extremely poorly sorted, quartz pebbles, muscovite, 1% glauconite, moderate lignite, feldspar, rare shell fragments.
1002 - 1007	Same as above, 5% lignite.
1007 - 1012	Same as above, reworked glauconite.
1012 - 1017	Same as above.
1017 - 1022	Sand, pale yellow (5Y 7/4), fine-to medium-grained, subrounded, moderately sorted, rare clay, abundant silt, rare shell fragments, muscovite, lignite, reworked glauconite.
1022 - 1027	Same as above, feldspar.
1027 - 1032	Same as above, quartz pebbles.
1032 - 1037	Same as above, feldspar.
1037 - 1042	Same as above, 1% rounded glauconite.
1042 - 1052	Sand, white (5Y 8/1), fine-grained, subrounded, moderately well sorted, moderate to abundant silt, reworked glauconite.
1052 - 1064	No sample.
1064 - 1069	Sand, pale yellow (5Y 7/4), medium-grained, subrounded, moderately well sorted, moderate silt, rare shell fragments, quartz pebbles, forams - <u>Dentalina communis</u> ?
1069 - 1073	Sand, gray (5Y 6/1), medium-grained, subrounded, moderately sorted, moderate silt, clay, muscovite, glauconite, lignite, shell fragments.
1073 - 1078	Same as above.
1078 - 1085	No sample.

DEPTH
(feet)

- 1085 - 1090 Same as above (1073 - 1078).
- 1090 - 1095 Same as above, rare coarse grains.
- 1095 - 1100 Same as above, some coarse grains.
- 1100 - 1105 Same as above.
- 1105 - 1110 Same as above.
- 1110 - 1115 Sand, gray, (5Y 6/1), medium-to coarse-grained, subrounded, moderately sorted, moderate silt, clay, muscovite, glauconite, lignite, shell fragments, clayey silt.
- 1115 - 1118 No sample.
- 1118 - 1123 Same as 1110 - 1115.
- 1123 - 1128 Sand, gray (5Y 5/1), very coarse-grained to gravel, subrounded, extremely poorly sorted, clay, shell fragments, lignite, feldspar.
- 1128 - 1133 Sand, gray (5Y 5/1), very coarse-to coarse-grained, subrounded, extremely poorly sorted, clay, silt, lignite, muscovite, reworked glauconite.
- 1129 - 1136 Sand, light gray (5Y 7/1), medium -to fine-grained, subangular to subrounded, moderately sorted, moderately silt, reworked glauconite, muscovite.
- 1136 - 1138 Sand, light gray (5Y 7/1), coarse to medium-grained, subrounded, very poorly sorted, moderate silt, shell fragments, lignite, glauconite.
- 1138 - 1143 Sand, light gray (5Y 7/1), medium - to fine-grained, subangular to subrounded, moderately sorted, moderate silt, moderate glauconite (reworked), muscovite, lignite.
- 1143 - 1148 Same as above, 1% lignite.
- 1148 - 1158 Silt, gray to white (5Y 7/1), moderate sand, medium-grained, subrounded, moderately well sorted, moderate reworked glauconite, lignite.
- 1158 - 1163 Same as above.
- 1163 - 1168 Silt, gray (5Y 5/1), sand, medium-to fine-grained, subrounded, moderately well sorted, lignite, glauconite, shell fragments.
- 1168 - 1178 Same as above.
- 1178 - 1182 Same as above, some sand.

DEPTH
(feet)

- 1182 - 1187 Same as above, moderate sand.
- 1187 - 1192 Same as above, medium-to coarse grained.
- 1192 - 1197 Same as above.
- 1197 - 1202 Same as above, some sand.
- 1202 - 1207 Silt, light gray (5Y 5/1), sand, medium - to fine-grained, subrounded, muscovite, galuconite.
- 1207 - 1212 Same as above, lignite.
- 1212 - 1218 Same as above, shell fragments, coarse grains.
- 1218 - 1223 Sand, light gray (5Y 5/1), medium-to coarse-grained, subrounded, poorly sorted, some silt, lignite, muscovite.
- 1223 - 1233 Chert, white with black bands, angular, partially weathered, cryptocrystalline.
- 1233 - 1243 Silt, light gray (5Y 6/1), stained dark red (10R 3/5), partially indurated, minor sand.
- 1243 - 1260 No sample.
- 1260 - 1265 Same as 1233 - 1243, quartz and muscovite.
- 1265 - 1270 Same as above, dark gray (5Y 5/1) and red (10R 3/6).
- 1270 - 1277 Silt, light gray, (5 YR 7/1) minor sand, medium-to fine-grained.
- 1277 - 1282 Same as above, partially indurated.
- 1282 - 1287 Same as above, shell fragments.
- 1287 - 1292 Same as above.
- 1292 - 1300 Same as above, muscovite.
- 1300 - 1308 Same as above, reworked glauconite.
- 1308 - 1313 Sand, light gray (5YR 7/1), medium to coarse-grained, subrounded, poorly sorted, some silt, muscovite.
- 1313 - 1318 Same as above.
- 1318 - 1323 Same as above.
- 1323 - 1333 Sand, white (5Y 8/1), fine-to medium-grained, subangular to subrounded, moderately sorted, abundant silt.

Logged by Kelvin Ramsey
March 31, 1980