

INTERVAL SHEET

WWCR - 700

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VDMR Well No: 1779

Date rec'd: December 23, 1966

Sample Interval: from 0 to 230

PROP: U. S. Army

Number of samples: 25

COMP: Sydnor Hydrodynamics Inc.

Total Depth: 230

COUNTY: Fairfax (Ft. Belvoir)

Oil or Gas: Water: ~~X~~ Exploratory:

From-To	From-To	From-To	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	-	-	-
195 - 200	-	-	-
200 - 210	-	-	-
210 - 215	-	-	-
215 - 220	-	-	-
220 - 230	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

All intervals have both washed and unwashed samples.

OWNER: U. S. Army
DRILLER: Sydnor Hydrodynamics, Inc.
COUNTY: Fairfax (Ft. Belvoir)

VDMR: 1779
WWCR: 700
TOTAL DEPTH: 230'

GEOLOGIC LOG

Depth in Feet

PATAPSCO FORMATION (0-195)

0 - 10	Sand — brownish-red, clayey; medium- to coarse-grained, well-sorted, subangular to subrounded; weathered white feldspar moderately abundant.
10 - 20	Clay — gray, with greenish cast, mottled brown, yellow, red; sandy; sand is poorly sorted, arkosic.
20 - 30	Sand — brown and gray, clayey; coarse-grained, moderately-sorted; very arkosic (weathered white feldspar); black iron oxides.
30 - 40	Clay — medium-gray, subtly-mottled, moderately-sandy; sand is coarse grained, arkosic.
40 - 50	Sand — light-gray, clayey; medium- to very coarse-grained, fairly well-sorted; very arkosic.
50 - 60	Clay — grayish-green, mottled reddish-brown; slightly sandy (locally).
60 - 70	Sand — gray, with greenish cast, slightly to moderately clayey; coarse-grained, fairly well-sorted, subrounded; arkosic; abundant blue quartz; trace of muscovite.
70 - 80	Sand and Gravel — tan, slightly clayey; 45% fine-grained quartz gravel (2-8mm), and 55% coarse- to very coarse-grained, fairly well-sorted, subrounded sand; arkosic (dull white feldspar).
80 - 90	" 30% gravel, 70% sand
90 - 100	Sand and Gravel — brown, moderately clayey; 20% small pebbles and broken rounds (6-12mm); 80% coarse-grained, fairly well-sorted, subrounded sand; arkosic (dull white feldspar).
100 - 110	Clay — brown, mottled gray, greenish-gray, reddish-brown, sandy, slightly pebbly; sand is arkosic; most of gravel consists of shards.
110 - 120	"

120 - 130	Sand	— gray, with greenish-cast, subtly mottled, very clayey, silty; medium-grained, moderately-sorted, subrounded; arkosic.
130 - 140	"	a few small pebbles.
140 - 150	Sand	— brown, very slightly clayey, very slightly pebbly; coarse- to very coarse-grained, well-sorted, subrounded; very arkosic.
150 - 160	Sand	— reddish-brown, very clayey (reddish-brown clay, mottled), medium- to very coarse-grained, moderately-sorted; arkosic.
160 - 170	"	
170 - 180	"	
180 - 190	Clay	— greenish-gray, silty, sandy; sand is fine- to medium-grained, arkosic; trace of pyrite.
190 - 200	"	

PATUXENT FORMATION (195 - 230')

195 - 200	Sand	— light-gray, clean; coarse- to very coarse-grained, well-sorted, subrounded; moderately arkosic; blue quartz very abundant; traces of garnet and pyrite.
200 - 210	"	
210 - 215	"	
215 - 220	Sand	— gray, very slightly clayey; medium- to coarse-grained, fairly well-sorted, subangular to subrounded; arkosic; blue quartz common; small amount of pyrite; traces of muscovite, garnet.
220 - 230	Clay	— greenish-gray, very sandy; sand is fine- to coarse-grained, rather poorly-sorted; arkosic; abundant carbonaceous matter.

GEOLOGIC SUMMARY

	<u>Rock Unit</u>	<u>Age</u>
0 - 195	Patapsco Formation	Early Cretaceous
195 - 215	Patuxent Formation	Early Cretaceous

Virginia Division of Mineral Resources
 Robert H. Teifke - Geologist
 January 18, 1967