

INTERVAL SHEET

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WWCR-116

VDMR Well No: 2349

Date rec'd: 12/18/68

Sample Interval: from 0' to: 266'

PROP: Signal Hill Memorial Park

Number of samples: 26

COMP: Mitchell Well & Pump Co.

Total Depth: 266 1/4'

COUNTY: Hanover (Hanover Courthouse)

Oil or Gas: Water: 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	-	-	-
200 - 210	-	-	-
210 - 220	-	-	-
220 - 230	-	-	-
230 - 240	-	-	-
240 - 250	-	-	-
250 - 266	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

All intervals have both washed and unwashed samples

OWNER: Signal Hill Memorial Park
DRILLER: Mitchell's Well & Pump Company
COUNTY: Hanover (Hanover Courthouse)

VDMR: 2349
WWCR: 116
TOTAL DEPTH: 266 1/4'

GEOLOGIC LOG

Depth in
feet

COLUMBIA GROUP (0-40')

0-10	Sand and clay - orange-red; 50% poorly sorted sand and 50% clay
10-20	"
20-30	Sand - orange-brown, slightly clayey (15%); medium, well-sorted
30-40	"

CALVERT FORMATION (40-110')

40-50	Sand - gray, slightly clayey (10%); fine to medium, well-sorted
50-60	" with 20% clay
60-70	Clay - gray, sandy; sand (40%) is fine, fairly well-sorted; a few shell fragments
70-80	" with 20% shell fragments
80-90	Clay - gray, slightly sandy (10%); a few shell fragments
90-100	Clay - gray, trace of sand; a few shell fragments
100-110	Sand - gray, very clayey (25-30%), 5-10% phosphate nodules, a few shell fragments; medium to very coarse, rather poorly sorted

OWNER: Signal Hill Memorial Park
DRILLER: Mitchell's Well & Pump Company
COUNTY: Hanover (Hanover Courthouse)

VDMR: 2349
WWCR: 116
TOTAL DEPTH: 266 1/4'
ELEV. : 160'
STUDLEY QUADRANGLE

GEOLOGIC LOG

Depth in
feet

COLUMBIA GROUP (0-40')

0-10	Sand and clay - orange-red; 50% poorly sorted sand and 50% clay
10-20	"
20-30	Sand - orange-brown, slightly clayey (15%); medium, well-sorted
30-40	"

CALVERT FORMATION (40-110')

40-50	Sand - gray, slightly clayey (10%); fine to medium, well-sorted
50-60	" with 20% clay
60-70	Clay - gray, sandy; sand (40%) is fine, fairly well-sorted; a few shell fragments
70-80	" with 20% shell fragments
80-90	Clay - gray, slightly sandy (10%); a few shell fragments
90-100	Clay - gray, trace of sand; a few shell fragments
100-110	Sand - gray, very clayey (25-30%), 5-10% phosphate nodules, a few shell fragments; medium to very coarse, rather poorly sorted

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#2349

MATTAPONI FORMATION (110-180')

- 110-120 Sand - brownish-gray, clayey (25-30%), 5% fine gravel, including numerous phosphate nodules; fine, fairly well-sorted; glauconitic, slightly pyritic
- 120-130 "
- 130-140 Clay - gray, sandy (35%), 5% shell fragments; fine, well-sorted, slightly glauconitic; phosphate fragments common
- 140-150 Sand - greenish-gray, clayey (25%), 15% shell fragments; fine, well-sorted, glauconitic, slightly pyritic
- 150-160 " slightly glauconitic; a few foraminifers (Robulus and Dentalina)
- 160-170 "
- 170-180 " moderatley glauconitic; with 25% shell fragments

PATUXENT FORMATION (180-266')

- 180-190 Sand and gravel - 80% coarse feldspathic sand, and 20% fine feldspathic gravel
- 190-200 " with 5% fine gravel
- 200-210 " with trace of granule gravel
- 210-220 " "
- 220-230 Sand and gravel - 75% coarse feldspathic gravel, 25% feldspathic granule gravel
- 230-240 Sand - medium to very coarse, rather poorly sorted, feldspathic
- 240-250 Sand and gravel - 75% coarse feldspathic sand, 25% fine (2-10 mm) feldspathic gravel
- 250-266 "

OWNER: Signal Hill Memorial Park

#2349

GEOLOGIC SUMMARY

	<u>Rock Unit</u>	<u>Age</u>
0-40'	Columbia Group	Pleistocene
40-110'	Calvert Formation	Middle Miocene
110-180'	Mattaponi Formation	Paleocene
180-266'	Patuxent Formation	Early Cretaceous

Virginia Division of Mineral Resources
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