

INTERVAL SHEET

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VDMR Well No: 2212

Date rec'd: 6/68

Sample Interval: from 0 to: 115

PROP: C. E. Dunn, Jr.

Number of samples: 23

COMP: Froehling and Robertson

Total Depth: 115'

COUNTY: Sussex (Gray)
Yale Quad.

Oil or Gas: Water: Exploratory: X

	UNWASHED From-To	From-To	WASHED From-To	From-To
129' →	3 - 5 core	-	3 - 5	-
	-	-	8 - 8.3	-
	8 - 10 core ...	-	8.3 - 9.3	-
	-	-	9.3 - 10	-
	13 - 15 core	-	13 - 15	-
	18 - 20 core	-	18 - 20	-
25	23 - 25 core	-	23 - 25	-
28	28 - 30 core	-	28 - 30	-
	33 - 35 core	-	33 - 35	-
	38 - 40 core	-	38 - 40	-
	43 - 45 core	-	43 - 45	-
	48 - 50 core ...	-	48 - 50 (top)	-
	-	-	48 - 50 (bottom)	-
	53 - 55 core	-	53 - 55	-
	58 - 60 core	-	58 - 60	-
	-	-	-	-
	63 - 65	-	63 - 65	-
	-	-	-	-
	68 - 70 core	-	68 - 70	-
diatoms →	73 - 75 core	-	73 - 75	-
	78 - 80 core	-	78 - 80	-
	83 - 85 core	-	83 - 85	-
	88 - 90 core	-	88 - 90	-
90	-	-	-	-
95	-	-	-	-
	93 - 95	-	93 - 95	-
	98 - 100	-	98 - 100	-
	103 - 105	-	103 - 105	-
106	108 - 110	-	108 - 110	-
	113 -	-	-	-
	113 - 115	-	113 - 115	-

County : Sussex
UDME Well No. 2212

Well : GY (Gray)
Property : C.E. Dunn, Jr.
Driller : Froehling and Robertson
Location : at intersection of Rte. 631 and Norfolk and
Western Railway.
Elevation : 129 feet
Total Depth : 115 feet
Started drilling : June 1968 Completed drilling : June 1968
Sample description by : R.H. Teifke, Virginia Division of
Mineral Resources, November 14, 1968

County : Sussex

VDNR Well No. 2212

GEOLOGIC LOG

Depth in feet

~~COLUMBIA GROUP (0-25')~~

0-3 No sample

COLUMBIA GROUP (3-²⁶25')

3-5 Clay - interlaminated orange, tan, and gray, generally sandy; sand is fine to very coarse, poorly sorted, angular; clear to yellowish (iron-stained) quartz; decomposed feldspar common in coarse grades; a few rock fragments

5-8 No sample

8-8.3 Clay - orange, mottled red and gray, sandy; sand is fine to very coarse, poorly sorted, angular; clear and yellowish (iron-stained) quartz; slightly feldspathic

8.3-9.3 Sand - light-gray, mottled orange, moderately clayey; fine to very coarse, poorly sorted, angular to subangular; clear quartz, slightly feldspathic in coarse grades

9.3-10 Sand - light-brown, slightly clayey, 5% gravel; fine to very coarse; poorly sorted, angular to subangular; slightly feldspathic

- 10-13 No sample
- 13-15 Sand — light-gray and tan, slightly clayey; fine to medium, well-sorted, angular to subangular; slightly feldspathic
- 15-18 No sample
- 18-19 Sand — interlaminated gray, brown, and yellowish-brown, clayey; fine to coarse, poorly sorted, slightly feldspathic
- 19-20 Clay — light-gray and tan, abundantly silty to fine sandy
- 20-23 No sample
- 23-25 Clay — interlaminated gray and yellow, ^{abundantly} silty to fine sandy; micaceous
- 25-28 No sample

YORKTOWN FORMATION (26-93, ~~28-94~~)

- 28-30 Sand — gray, moderately clayey, locally carbonaceous; small pelecypod and gastropod shells, ^{and} shell fragments common, echinoid spines abundant; fine, well-sorted, angular; clear quartz, with minor muscovite and very fine pyrite associated with carbonaceous material
- 30-33 No sample

33-35

Sand - dark- to light-gray, clayey; fine, well-sorted, angular; clear quartz, with minor amounts of muscovite, magnetite, glauconite, and green epidote

35-38

No sample

38-40

Clay - dark- to light-gray, silty, slightly to moderately sandy; sand is fine, very well-sorted, angular; clear quartz, with minor amounts of muscovite, light-green glauconite, and green epidote; diatoms common

40-43

No sample.

43-45

Sand - dark- to light-gray, moderately clayey; fine to medium, well-sorted, angular to sub-angular; clear quartz, with minor amount of glauconite and muscovite; diatoms present

45-48

No sample

48-49

Sand and shell - green clay binder; 45% med-min, fairly well-sorted, subangular to subrounded clear quartz sand; 40% pellicypod and gastropod ^(Turritella) shells, and a few ~~shells~~ scaphopods, corals ~~shells~~, bryozoans, and worm tubes

49-50

Clay and shell - 60% ^{silty} slightly sandy green clay; 40% shells and shell fragments of pellicypods, and some gastropods, echinoderms, and bryozoans; trace of glauconite (~1%)

50-53 No sample.

53-55 Clay — gray, moderately sandy, 10% shells and shell fragments; sand is fine, well-sorted, angular; very slightly glauconitic and micaceous; small foraminifers common but not abundant

55-58 No sample

58-60 Clay and shell — gray, moderately sandy; ^{no silt} 40% clay; ~~irregular~~ 20% fine, well-sorted, angular quartz sand; ~~with~~ 40% shells and shell fragments, mostly Turritella and a few pelecypods and echinoderms

no sand

60-63 No sample

63-65 Clay — ^{pale} greenish-gray, compact, trace of sand, 10% Turritella shells and a few pelecypods

65-68 No sample

68-70 Clay — pale greenish-gray, compact, trace of sand, ^{no silt} 10% Turritella shells and a few pelecypods

70-73 No sample

diatoms

73-75 Clay — pale greenish-gray, compact, trace of sand, 10% shell material, including pelecypods, gastropods, worm tubes, echinoid spines and foraminifers; shells all commonly filled with finely divided pyrite; slightly diatomaceous

75-78

No sample

78-80

Clay — pale greenish-gray, fine, moderately compact, trace of shell material, slightly diatomaceous

80-83

No sample

83-85

Clay — pale greenish-gray, moderately compact, slightly sandy; sand consists of fine to coarse, angular clear quartz; ^{foraminifers, and} small pelicypod and gastropod shells and shell fragments common, spongioid sponges abundant, slightly diatomaceous

85-88

No sample

88-90

Sand and shell — binder of greenish-gray clay; ⁴⁵~~55~~% medium, fairly well-sorted, subangular to subrounded quartz, sand; 45% pelicypod, gastropod, ^{and} scaphopod shells and shell fragments

90-93

No sample

MATAPONI FORMATION (93-¹⁰³~~106~~)

93-95

Sand and shell — greenish-gray, slightly clayey; ⁷⁸~~85~~% fine to medium, fairly well-sorted sand ^{ing} compacted of 75% clear to greenish angular quartz and 25% dark-green glauconite; 15% decomposed pelicypod and gastropod shells and shell fragments, bryozoans, and spongioid sponges, a few foraminifers and ostracods

95-98

No sample

98-100

~~7% clay, 4% silt, 2% gastropods~~
Sand and shell - light-gray, slightly clayey; 52% fine to coarse, moderately sorted, angular to subangular, close gravity sand with a trace of glauconite; 42% pile-upped (-byzozoa-schizoderm) shell debris; a few foraminifera and small gastropods

100-103

No sample

PATUXENT FM. (103'-115')

103-105

Sand and gravel - dark-gray, slightly to moderately clayey; 60% fine to very coarse, poorly sorted, angular to rounded sand; 30% fine (2-20 mm), moderately sorted, rounded, quartz-quartzite gravel; sand is moderately feldspathic in coarsest grade

105-108

No sample; contact at 106' according to field notes.

~~PATUXENT FORMATION (106'-115')~~

108-110

Sand - tan, trace of clay; coarse, well-sorted, subangular to subrounded; feldspathic; garnet and muscovite common

110-113

No sample

113-115

Sand and gravel - tan, very slightly clayey; 48% medium to very coarse, moderately sorted feldspathic sand; 48% fine (2-20 mm), rounded, quartz-feldspathic gravel; garnet common, tourmaline rare

98-100

Sand and shell - light gray, slightly clayey; 52% fine to coarse, moderately sorted, angular to subangular, clean quartz sand with a trace of glauconite; 42% pelecypod (- bryozoa - spongiolites) shell debris, a few foraminifera and small gastropods

100-103

No sample

103-105

Sand and gravel - dark gray, slightly to moderately clayey; 60% fine to very coarse, poorly sorted, angular to rounded sand; 30% fine (2-20 mm), moderately sorted, rounded, quartz-quartzite gravel; sand is moderately feldspathic - coarsest grade

105-106

No sample; contact at 106' according to field notes.
Drilling characteristics

PATUXENT FORMATION (106-115')

106-108

no sample

108-110

Sand - tan, trace of clay; coarse, well-sorted, subangular to subrounded; feldspathic; garnet and muscovite common

110-113

No sample

113-115

Sand and gravel - tan, very slightly clayey; 48% medium to very coarse, moderately sorted feldspathic sand; 48% fine (2-20 mm), rounded, quartz-feldspathic gravel; garnet common, tourmaline rare

GEOLOGIC SUMMARY

	<u>Rock Unit</u>	<u>Age</u>
0-3	No sample	
3-25	Columbia Group	Pleistocene
25-28	No sample	—————
28-90	Yorktown Formation	Late Miocene
90-93	No sample	—————
93-103	Mattaponi Formation	Paleocene
103-115	Potuxent Formation	Early Cretaceous

~~0-26 Columbia Gp.
26-92 Yorktown Fm.
92-106 Mattaponi Fm.
106-115 T.O. Potuxent Fm.~~

