INTERVAL SHEET

WWCR 137

Page 1

VDMR Well No.: 934

Date 12/17/63

Sample Interval: from 0 to 204

PROP: Terrell (Raleigh Sq.)

Total depth 204

COMP: Mitchell's P. & W. Co.

Oil ____ Gas ____ Water X Exploratory ____

COUNTY: James City (Williamsburg)
VDMR Well No: W-934

Cuttings X Core ____ Other ____

From-To	From-To	From-To	From-To	From-To
-	0_10	-	-	-
-	10_20	-	-	-
-	20_30	-	No washed samples	-
-	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_204	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-

OWNER: J. S. Terrell, Raleigh Sq. Co.
DRILLER: Mitchell Well & Pump Co.
COUNTY: James City (Williamsburg)

VDMR # 934
WWCR # 137
TOTAL DEPTH : 204

GEOLOGIC LOG

Columbia group (0-30)

0-10	Sand-silty, white to buff, coarse to very fine grained, subangular to subrounded.
10-20	Sand-silty, calcareous, white to yellow, fine grained, subangular to rounded, abundance of shell fragments.
20-30	Sand-white to yellow, coarse to fine grained, subangular to subrounded, abundance of shell fragments.

St. Marys formation (30-204) ?

30-40	Sand-green, coarse to fine grained, subangular to subrounded, shell fragments.
40-50	Sand-green, coarse to fine grained, subangular to subrounded, fragments of echinoid spines.
50-60	Silt-arenaceous, light to medium green, (X-ray analysis: quartz, aragonite, calcite, clay minerals, & minor amounts of feldspar).
60-70	Sand-green, fine to very fine grained, angular to subrounded, shell fragments (mostly pelecypoda).
70-80	As above
80-90	Siltstone-arenaceous, light to medium green.
90-100	As above
100-110	Siltstone-calcareous, moderately arenaceous, light green, shell fragments.
110-120	Siltstone-moderately calcareous & arenaceous, light green, shell fragments, (Turritella).
120-130	Siltstone-moderately calcareous & arenaceous, light green, shell fragments.
130-140	Siltstone-moderately calcareous & arenaceous, light to medium green, shell fragments.
140-150	As above
150-160	Siltstone-moderately calcareous & arenaceous, light to medium green, some blue quartz, shell and weathered rock fragments.

160-170 Sand-calcareous, white to green, granular to fine grained, angular to subrounded, shell fragments, foraminifera (Siphogenerina lamellata cushman, Nonion pizarrensis (Berry), Robulus sp.).

170-180 Sand-silty, calcareous, white to green, very coarse to very fine grained, angular to subrounded, foraminifera, (Siphogenerina lamellata).

180-190 Sand-white to yellow, coarse to fine grained, angular to subrounded, collophane, foraminifera (Siphogenerina lamellata cushman, Uvigerina calvertensis (Cushman) Textularia articulata d' Orbigney ?, Guttulina sp.?, Hanzawia concentrata (cushman) ?, Nonion pizarrensis (Berry)).

190-204 Sand-white, yellow, and green, very coarse to fine grained, angular to subrounded, abundance of collophane and accessory magnetite, rutile, monazite, pyrite, zioion, & sphene (?).

Microfossil specimens from the 160' to 190' intervals on file.

GEOLOGIC SUMMARY

	ROCK UNIT	AGE
0-30	Columbia group	Pleistocene
30-204	St. Marys formation ?	Miocene

Virginia Division of Mineral Resources
Roger C. Wilkenloh - Geologist
Feb. 24, 1964

OWNER: J. S. Terrell, Raleigh Sq. Co. VDMR # 934
DRILLER: Mitchell Well & Pump Co. WWCR # 137
COUNTY: James City (Williamsburg) TOTAL DEPTH : 204

GEOLOGIC LOG

Columbia group (0-30)

0-10	Sand-silty, white to buff, coarse to very fine grained, subangular to subrounded.
10-20	Sand-silty, calcareous, white to yellow, fine grained, subangular to rounded, abundance of shell fragments.
20-30	Sand-white to yellow, coarse to fine grained, subangular to subrounded, abundance of shell fragments.

St. Marys formation (30-204) ?

30-40	Sand-green, coarse to fine grained, subangular to subrounded, shell fragments.
40-50	Sand-green, coarse to fine grained, subangular to subrounded, fragments of echinoid spines.
50-60	Silt-~~arenaceous~~ sandy, light to medium green, (X-ray analysis: quartz, aragonite, calcite, clay minerals, & minor amounts of feldspar).
60-70	Sand-green, fine to very fine grained, angular to subrounded, shell fragments (mostly pelecypoda).
70-80	As above
80-90	Siltstone-~~arenaceous~~ sandy, light to medium green.
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100-110	Siltstone-calcareous, moderately ~~arenaceous~~ sandy, light green, shell fragments.
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140-150	As above
150-160	Siltstone-moderately calcareous & ~~arenaceous~~ sandy, light to medium green, some blue quartz, shell and weathered rock fragments.

"gray mud"

"blue marl"

160-170 Sand-calcareous, white to green, granular to fine grained, angular to subrounded, shell fragments, foraminifera (Siphogenerina lamellata cushman, Nonion pizarrensis (Berry), Robulus sp.).

170-180 Sand-silty, calcareous, white to green, very coarse to very fine grained, angular to subrounded, foraminifera, (Siphogenerina lamellata).

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