

INTERVAL SHEET

Page 1

VDMR Well No.: 587

Date 10/30/61

Sample Interval: from 0 to 297 1/2

PROP: Caroline Co. Schools
(Madison School)

Total depth 297 1/2

COMP: Mitchell's

Oil Gas Water X Exploratory

COUNTY: Caroline

Cuttings X Core Other

From-To	From-To	From-To	WASHED SAMPLES From-To	From-To
-	0-10	-	-	-
-	-20	-	-	-
-	-30	-	-	-
-	-40	-	Complete set of sampled intervals.	-
-	-50	-	-	-
-	-60	-	-	-
-	-70	-	-	-
-	-80	-	-	-
-	-90	-	-	-
-	-100	-	-	-
-	-110	-	-	-
-	-120	-	-	-
-	-130	-	-	-
-	-140	-	-	-
-	-150	-	-	-
-	-160	-	-	-
-	-170	-	-	-
-	170-180	-	-	-
-	-190	-	-	-
-	-200	-	-	-
-	-210	-	-	-
-	210-220	-	-	-
-	220-230	-	-	-
-	230-240	-	-	-
-	240-250	-	-	-
-	250-260	-	-	-
-	260-270	-	-	-
-	270-280	-	-	-
-	280-297 1/2	-	-	-
-	-	-	-	-

Owner: Madison School
Driller: Mitchell
County: Caroline

VDMR #587
WWCR #74
Depth 297-1/2 feet

SAMPLE EXAMINATION
(washed)

0 - 10	Sand, quartz, medium-coarse grained, sub-angular, trace feldspar.
10 - 20	Sand, quartz, trace blue quartz, medium-coarse grained, sub-angular.
20 - 30	Sand, gravel, quartz, trace blue quartz, gravel, medium grained sand, angular to well rounded.
30 - 40	Sand, gravel, quartz, trace blue quartz, gravel, medium grained sand, rounded to sub-angular.
40 - 50	Sand, clear buff, very fine grained, sub-angular-round, trace tourmaline fragments and muscovite.
50 - 60	Sand, grey-white, very fine grained, sub-angular-round, trace biotite and muscovite.
60 - 70	Sand, grey, argillaceous, fine grained, sub-angular, small specks of biotite.
70 - 80	Sand, granite wash, coarse grained, sub-angular, biotite.
80 - 90	Sand, granite wash, coarse grained, sub-angular, biotite.
90 - 100	Sand, granite wash, sub-angular, coarse grained, abundance of biotite.
100 - 110	Sand, clear quartz, sub-angular, coarse grained, abundance of biotite, hornblende.
110 - 120	Sand, clear quartz and black hornblende, sub-angular, coarse grained, abundance of biotite.
120 - 130	Sand, clear quartz and black hornblende, sub-angular, coarse grained, abundance of biotite.
130 - 140	Sand, clear quartz, coarse-medium grained, sub-angular, biotite flakes.
140 - 150	Sand, clear quartz, coarse-medium grained, sub-angular, muscovite flakes, trace biotite.

- 150 - 160 Sand, black hornblende, clear quartz, angular- sub-angular, medium grained, abundance of biotite.
- 160 - 170 Sand, clear quartz, some dark hornblende, coarse-fine grained, angular to sub-angular, some biotite.
- 170 - 180 Sand, clear quartz, iron stained quartz, hornblende sand, medium-fine grained, sub-angular.
- 180 - 190 Sand, clear-white quartz, iron stained quartz, hornblende sand, medium grained, sub-angular.
- 190 - 200 Sand, clear-white quartz, iron stained quartz, hornblende sand, medium grained, sub-angular.
- 200 - 210 Sand, clear-white, iron stained quartz, hornblende sand, medium-fine grained, sub-angular.
- 210 - 220 Sand, clear quartz, iron stained quartz sand, hornblende sand, medium-fine, sub-angular.
- 220 - 230 Sand, clear-white quartz, iron stained quartz sand, hornblende sand, coarse-fine grained, sub-angular.
- 230 - 240 Sand, clear-white quartz, hornblende sand, coarse-very fine grained, sub-angular.
- 240 - 250 Sand, clear-white quartz, hornblende sand, medium-fine grained, sub-angular.
- 250 - 260 Sand, clear-white quartz, iron stained quartz sand, medium-fine grained, sub-angular, abundance of biotite flakes.
- 260 - 270 Sand, white-clear, medium-fine grained, hornblende sand, coarse-fine grained, sub-angular, some biotite.
- 270 - 280 Sand, white-clear, iron stained quartz sand, abundance of biotite flakes, trace of hard black brittle shale.
- 280 - 297-1/2 Sand, white-clear quartz, iron stained sand, small quantity of hornblende sand, an abundance of biotite flakes.

GEOLOGIC SUMMARY

<u>Age</u>	<u>Group</u>	<u>Formation</u>	<u>Depth</u>
Pleistocene		Terrace	surface -40
Miocene	Chesapeake	Calvert	40 - 70
Precambrian		Baltimore gneiss	70 - 297-1/2

REMARKS

Spudded: June 1961

Completed: July 13, 1961

Status: Produced 36 gpm with 122 feet of drawdown at pumping level of 140 feet after 4 hrs. of pumping.

VIRGINIA DIVISION OF MINERAL RESOURCES
Merrick S. Whitfield, Jr., Geologist
January 22, 1962