

INTERVAL SHEET

WWCR 136

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VDMR WELL NO.: 963

Date 3-19-64

Sample Interval: from 0 to 627

PROP: Everett L. Goddard

Total Depth 659

COMP: Douglas & Dickinson

Oil  Gas  Water  Exploratory

COUNTY: Northumberland  
(Callao)

Cuttings  Core  Other

VDMR WELL NO: W-963  
From-To From-To

From-To From-To From-To

No Washed Samples

-	0-21	-	-	-
-	21-42	-	-	-
-	42-63	-	-	-
-	63-84	-	-	-
-	84-105	-	-	-
-	105-126	-	-	-
-	126-147	-	-	-
-	147-168	-	-	-
-	168-189	-	-	-
-	189-210	-	-	-
-	210-231	-	-	-
-	231-252	-	-	-
-	252-273	-	-	-
-	273-294	-	-	-
-	294-315	-	-	-
-	315-336	-	-	-
-	336-357	-	-	-
-	357-378	-	-	-
-	378-399	-	-	-
-	399-420	-	-	-
-	420-441	-	-	-
-	441-462 No Sample	-	-	-
-	462-483	-	-	-
-	483-504	-	-	-
-	504-525	-	-	-
-	525-546	-	-	-
-	546-567	-	-	-
-	567-585	-	-	-
-	585-606	-	-	-
-	606-627	-	-	-
	627-659 No Sample			

OWNER: E. L. Goddard  
DRILLER: Douglas & Dickinson, Inc.  
COUNTY: Northumberland (Callao)

VDMR: 963  
WWCR: 136  
TOTAL DEPTH: 659'

GEOLOGIC LOG

COLUMBIA GROUP (0-21')

0-21 Sand and Gravel — tan, medium to coarse grained, rounded to subrounded quartz pebbles, considerable clay, feldspar, common

YORKTOWN FORMATION (21-41')

21-41 Sandy clay — light olive-gray, 15% rounded to subrounded quartz pebbles (up to 15 mm), some iron oxide staining, minor mica; shell fragments

CALVERT FORMATION (42-252')

42-63 Clay — purple-gray, trace of sand, compact and uniform

63-84 Clay and Silt — purple-gray, quartz pebbles, mica and glauconite shell fragments (trace); vivianite

84-105 " with a few rounded pebbles up to 12 mm

105-126 " slightly sandy

126-147 Clay - Silt — light olive-gray to light tan, locally calcareous, indurated, white; moderately sandy; glauconite (trace)

147-168 Silt — greenish-brown, moderately clayey, slightly glauconitic

168-189 Clay — greenish-brown, slightly silty, very diatomaceous; forams present

189-210 Clay — greenish-gray, moderately diatomaceous

210-231 " "

231-252 " small amounts shell and clear quartz sand

CHICKAHOMINY FORMATION (252-294')

252-273 Sand — clear, generally coarse quartz in brown clay; abundant (10%) shell; traces phosphorite and glauconite; trace of pyrite

273-294 Sand — pale-olive to gray, coarse to medium grained, clear quartz-sand with shell and limestone fragments, and minor phosphorite

## NANJEMOY FORMATION (294-441')

294-315 Limestone — arenaceous (brown-sand); bioclastic

315-336 "

336-357 Sand — pale-olive to tan, predominantly bioclasts, subordinately brown-sand

357-378 Sand — tan, medium grained, very minor pyrite; bioclastic brown-sand

378-399 Sand — dark brown, very coarse; minor glauconite, very minor pyrite

399-420 " "

420-441 " some olive colored sand

## MATTAPONI FORMATION (441-546')

441-462 No sample

462-483 Clayey Sand — dark olive, almost completely glauconite, calcareous, sorted and polished quartz

483-504 Sand — 50% glauconite, 50% quartz, calcareous, iron oxide staining

504-525 " with slight variation in percentages

525-546 " Nodozaria common; some feldspar

## PATUXENT FORMATION (546-627')

546-567 Sand — coarse to very coarse, feldspathic and glauconitic; garnet common

567-585 " considerable mottled clay matrix

585-606 " feldspathic, slightly glauconitic

606-627 " very feldspathic

627-659 No sample

GEOLOGIC SUMMARY

	<u>ROCK UNIT</u>	<u>AGE</u>
0-21	Columbia Group	Pleistocene
21-41	Yorktown Formation	Late Miocene
41-252	Calvert Formation	Middle Miocene
252-294	Chickahominy Formation	Late Eocene
294-441	Nanjemoy Formation	Middle Eocene
441-546	Mattaponi Formation	Paleocene
546-627	Patuxent Formation	Early Cretaceous

Virginia Division of Mineral Resources  
Revised by: Robert H. Teifke, Geologist  
October 1967