INTERVAL SHEET

State of the state

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Date rec'd:

PROP: Naval Mine Depot, well #2 COMP: Virginia Machinery & Well

COUNTY: York

VDMR Well No: 260 Sample Interval: from 210 to 468 Number of samples: Total Depth: 470

WWCR - 61

Oil or Gas: Water: X Exploratory:

From-To		From-To		From-To	From-To
		Floate	ed Samples		
210	- 220	253	-	_	-
280	- 291	330	-	-	_
310	- 327	360	-	÷	
200	- 361	415	-	-	-
390	-	415	- 410	-	-
440		400	410		
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450	_ 468	430	-	-	- 1
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OWNER: Naval Mine Depot, well #2 DRILLER: Virginia Machinery & Well COUNTY: York

VDMR: 260 WWCR: 61 TOTAL DEPTH: 470

GEOLOGIC LOG

Depth in feet

CHESAPEAKE GROUP (0-327)

0 - 210 No samples

210 - 220 Clay — brown to dark-gray, moderate amount of quartz silt and very fine-grained sand.

220 - 253 No samples

- 253 253+ Sand (floated sample) brown and gray; medium- to very coarsegrained, moderately sorted; 25-30% black, brown, and yellowish "glauconite", and 70-75% stained, rounded to slightly subangular quartz.
- 253+ 280 No samples
- 280 291 Sand medium-gray, very slightly clayey; medium- to coarsegrained, fairly well-sorted, subangular to subrounded; clear quartz with 2-5% shell fragments, 2% fine-grained, platey black phosphorite, and traces of glauconite and iron ores; a few foraminifers (globigerinids common).
- 291 310 No samples
- 310 327 Sand gray, clean; medium- to coarse-grained, fairly well-sorted, subrounded clear quartz, with about 2% fine-grained black glauconite; a few shell fragments and echinoid spines; very small foraminifers abundant.

327 - 330 No samples

CHICKAHOMINY FORMATION (330+ - 390+)

330 - 330+ Clay (floated sample) — brownish-gray, sandy; sandits predominantly clear, poorly sorted and poorly rounded quartz, but fresh glauconite is fairly abundant in finest fractions; small amount (2-5%) pelecypod and echinoid shell debris; abundant Jackson age foraminifers. *

330+-360 No samples

360 - 360+

Clay (floated sample) - brownish-gray, sandy; sand is predominantly clear, poorly sorted and poorly rounded quartz, but fresh glauconite is fairly abundant in finest fractions; small amount (2%) pelecypod and echinoid shell debris; abundant Jackson age foraminifers. *

360+ - 390 No samples

 390 - 390+ Sand - gray, moderately clayey (brownish clay); fine- to very coarsegrained, poorly sorted, variably rounded; sand is 50% quartz, 40% black to dark-green glauconite, 5% pelecypod fragments, and 5% fragments of cream-colored glauconitic limestome; small number of Jackosn age foraminifers. *

390+ - 400 No samples

MATTAPONI FORMATION (390+ - 468)

400 - 410 Sand (floated sample) - speckled; fine- to very coarse-grained, poorly sorted; 50% quartz, 30% black to dark-green glauconite, 15% cream-colored glauconitic limestone, and 2% each of feldspar and rock fragments (other than limestone); trace amounts of garnet, muscovite, pelletal and platey black phosphorite, and hematite after glauconite; a few pelecypod fragments, bryozoans, and poorly preserved foraminifers.

410 - 415 No sample

415 - 415+ Clay (floated sample) — highly variegated, with reddish-brown aspect; slightly to moderately sandy; sand is poorly sorted, quartesglauconitic (glauconite present in various tages of decomposition, but inone is fresh); small amount of cream-colored glauconitic limestone

415+ - 430 No samples

430 - 430+ Sand (floated sample) - fine-grained angular, and coarse angular silt in matrix of variegated clay (mostly deep red, with subordinate browns and greens); clear quartz with about 5% partially decomposed glauconite; a few fragments of creamcolored glauconitic limestone.

430+ - 440 No samples

440 - 440+ Sand — gray, clayey (pale-brown clay); medium- to coarse-grained, moderately sorted, poorly rounded; clear quartz with appreciable amount of clear to dull-white feldspar, and traces of muscovite and glauconite.

440+ - 450 No samples

450 - 468

Sand — white, clean, about 10% very fine-grained gravel; coarseto very coarse-grained, well sorted, subrounded; arkosic (fresh feldspar); traces of garnet, glauconite, muscovite, kyanite.

GEOLOGIC SUMMARY

Rock Unit

Age

Miocene Late Eocene Late Cretaceous

0	÷	327	Chesapeake Group
327	ię.	390	Chickahominy Formation
390	ieter	468	Mattaponi Formation

* Jackson age foraminiferal assemblage in this interval includes the following species:

Angulogerina danvillensis Ceratobulimina rotundata Cibicides sculpturatus Dentalina bevani Dentalina capitata Dentalina intermedia Dentalina solutà Frondicularia virginiana Guttulina hantkeni Gyroidina orbicularis Planularis crassilimbata Plectofrondicularia virginiana. Pseudoglandulina virginiana Pullenia quinqueloba Robulus gutticostatus Sigmoidella plummerae

> Virginia Division of Mineral Resources Robert H. Teifke - Geologist February 21, 1967