INTERVAL SHEET

Page 1 of 1 VDMR Well No: 1924

Date rec'd: 8/7/67 Sample Interval: from 0 to: 290'

PROP: N & W RR, Well #207 Number of samples: 29

COMP: Total Depth: 290'

COUNTY: Isle of Wight (Windsor) Oil or Gas: Water: Exploratory: X

From-To	From-To	From-To	From-To
0 - 10	_		
10 - 20		-	-
20 - 30	-	-	1.50
30 - 40	-	-	-
40 - 50	-	-	-
40 - 50	-	-	-
50 - 60	_		:=
60 - 70	_		_
70 - 80	_	_	
80 - 90	-	-	-
90 - 100	(E)	-	3 5 0
90 - 100	-	-	- X -
100 - 110	_	_	
110 - 120	_	2	
120 - 130	_		
130 - 140			±≅A
140 - 150	-	-	
140 - 150	-	-	=
150 - 160		_	
160 - 170*	_)=: /-
170 - 180*	_	-	
180 - 190*	-	-	-
	-	-	-
190 - 200**	-	-	
200 - 210**			
210 - 220**	-	-	-
	-	-	1-
220 - 230**	-	-	-
230 - 240**	-	-	-
240 - 250**	-	-	-
250 - 260**	_'		
260 - 270**	-	-	-
	-	-	-
270 - 280**	-	-	-
280 - 290**	-	-	-
-	-	-	-

^{*} unwashed samples only

^{**} sample intervals missing from interval sheet and added from original collection sheet at later date.

(bags & box labelled WH 207.

INTERVAL SHEET

9001. 609 V Strip Log 1

Page / of /

Date rec'd: 7/19/67

PROP:

COMP:

COUNTY:

Isle of Wight

ZUNI (E) - WINDSOR (W) SHEETS Windsor , Va.

> some section a elev. as IW-P-7.

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290

Number of samples: 29

Total Depth:

Oil or Gas: Water: Exploratory: V

		0. 001/11	02		
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	10	- 20 1640			
	20	- 30		A Charles Tolker	
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	-50	- 60	_		_
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	70	- 80	-	Establish =	-
	80	- 90	-		
	90	- 100	-	-	-
	100	- 110			
	110	- 120			
	120	- 130			_
-	130	- 140	_	내용하게 되었다.	_
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	150	- 160			
	160	- 170	_		
	170	- 180	_		
	180	- 190			
	190	- 200		-	-
	200	- 210			
85	210	- 220			
1	220		_		
	230	730			
	240	240			
246 85	270	250			- Th
	250	- 260	_		
	260	- 270			
	270	- 280	4	_	en

no stide

CONFIDENTIAL

Well: N. & W. R. R. Well # 207

Property: Norfolk and Western Railway Driller: Norfolk and Western Railway

Location: At Windsor, on Norfolk and Western Railway right-of-way;

76° 45' 00" W, 36° 49' 30" N

Elevation: 80 feet Total Depth: 290 feet

Started drilling: ----- Completed drilling: -----

Sample description by: Robert H. Teifke, Virginia Division of

Mineral Resources, May, 1968

GEOLOGIC LOG *

Depth in feet

COLUMBIA GROUP (0-301)

O-10 Sand - binder of white to pale-yellow clay; fine-grained, very well-sorted, angular to subangular; slightly feldspathic; accessory muscovite, magnetite and garnet

10-20 Sand - binder of orange-brown clay, locally red; fine--to very coarse-grained, rather poorly sorted (skewed fine), angular to subrounded; moderately feldspathic

20-30 " moderately clayey; trace of weathered glauconite

YORKTOWN FORMATION (30-210)

Sand - abundant matrix of gray clay, mottled reddishbrown, fine- to coarse-grained, fairly wellsorted; sand is 60% bioclasts, 35% clear, angular quartz; trace of glauconite; foraminifers abundant

40-50	m cl	undant matrix of dull-brown clay; fine-to edium-grained, fairly well-sorted; sand is 65% ear to greenish quartz, 30% biocksts; minor auconite; foraminifers moderately abundant
50-60	11	abundant matrix of gray clay, locally orange-brown; foraminifers common
60-70	m	eenish-gray, very sandy; sand is fine- to edium-grained, well-sorted, and consists of 70% gular quartz, 30% bioclasts; foraminifers common
70-80	a gr fir m	oderately abundant matrix of greenish-gray clay, few coarse shell fragments; fine-to coarse-ained, moderately sorted; sand consists of 50% ne-to medium-grained, angular quartz; 50% edium-to coarse-grained bioclasts; foraminifers oderately abundant, miliolids prominent
80 - 90	gr an	uish-gray, sandy; sand is fine-to medium- ained, fairly well-sorted, and consists of 75% gular quartz, 20% bioclasts; very foraminiferal; few echinoid spines and ostracods
90-100	10 cc cc 20	eenish- to brownish-gray, moderately sandy, coarse shell fragments; sand is fine- to arse-grained, rather poorly sorted; sand ensists of clear to greenish, angular quartz, with bioclasts, 5% dark-green glauconite; raminifers moderately abundant
100-110	cc	rayish-green, slightly sandy; sand is fine-to earse-grained, variably rounded, slightly oclastic; foraminifers common, but not abundant
110-120	· ii	

3	120-130	Clay -	gray, slightly to moderately sandy, 5% small shell fragments; sand is fine- to coarse-grained, rather poorly sorted; sand comprises 70% quartz, 25% dark-green glauconite; foraminifers common, a few ostracods and echinoid spines
	130-140	Sand an	nd shell - moderately abundant matrix of brownish- gray clay; 35% pelecypod shell fragments; 55% fine- to medium-grained, fairly well-sorted sand; sand is 80% quartz, 20% dark-green glauconite; foraminifers common, but not abundant
	140-150	Clay -	brownish-gray, sandy, 5% shell fragments; sand is fine to medium-grained, well sorted, angular; clear to greenish quartz, with 3-5% glauconite; slightly gypsiferous; a very few foraminifers
	150-160		11
	160-170	Sand -	abundant matrix of grayish-brown clay, a very few shell fragments; sand is fine- to very fine-grained, well-sorted, angular; very slightly glauconitic and micaceous; trace of gypsum
	170-180	Clay -	grayish-brown, very silty, slightly sandy; sand is fine-to very fine-grained, well-sorted, angular; traces of glauconite and gypsum
	180 190		sand is very fine- to medium-grained, rather poorly sorted
	190-200	Clay -	brown, silty, slightly sandy, 5% shell fragments; sand is fine-to coarse-grained, rather poorly sorted; yellowish, variably rounded quartz sand, with a trace of glauconite; gypsiferous
	200-210		ıı 🔻

CALVERT FORMATION (210-240')

210-220	Sand — moderately abundant matrix of drab brown clay, a few shell fragments; coarse-grained, fairly well-sorted, subangular to subrounded; clear quartz, with a few fragments of bone phosphorite
220-230	" abundant matrix of brown clay
230-240	Sand - moderately abundant matrix of dark-brown clay; fine-to coarse-grained, rather poorly sorted; sand is 90% clear, subangular quartz, 9% pelletal

moderately abundant (1%)

and bone phosphorite; small foraminifers

MATTAPONI FORMATION (240-290')

240-250	Sand - moderately abundant matrix of dark-gray and dark-
	brown clays, a few shell fragments; medium-to
	very coarse-grained, rather poorly sorted; sand is
	50% medium-green glauconite, 48% clear, angular
	to subrounded quartz; small amount of nodular and
	bone phosphorite; slightly pyritic

- 250-260 Sand abundant matrix of bright, grass-green and bluish-green clay, trace of shell; fine to coarse-grained, poorly sorted; sand is 50% light-to medium-green glauconite, 45% clear, variably rounded quartz; nodular and bone phosphorite common; pyritic
- 260-270 " matrix of yellowish-green clay
- 270-280 "
- 280-290 Sand moderately abundant matrix of medium-gray clay, a few fragments of very sandy limestone; sand is fine-to coarse-grained, poorly sorted, and comprises 65% clear to greenish, angular quartz; 30% medium-to dark-green glauconite; a few foraminifers, including Nodosaria; moderately pyritic

GEOLOGIC SUMMARY

	Rock Unit	Age
0-30	Columbia Group	Pleistocene
30-210	Yorktown Formation	Late Miocene
210-240	Calvert Formation	Middle Miocene
240-290	Mattaponi Formation	Paleocene

^{*} The use of the lithologic term, "clay" includes all size ranges of particles less than 1/32 mm.

Well: N. & W. R. R. Well # 207

Property: Norfolk and Western Railway Driller: Norfolk and Western Railway

Location: At Windsor, on Norfolk and Western Railway right-of-way;

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Elevation: 80 feet Total Depth: 290 feet

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GEOLOGIC LOG *

Depth in feet

COLUMBIA GROUP (0-30')

0-10 Sand - binder of white to pale-yellow clay; fine-grained, very well-sorted, angular to subangular; slightly feldspathic; accessory muscovite, magnetite and garnet

10-20 Sand - binder of orange-brown clay, locally red; fine-to very coarse-grained, rather poorly sorted (skewed fine), angular to subrounded; moderately feldspathic

20-30 " moderately clayey; trace of weathered glauconite

YORKTOWN FORMATION (30-210')

30-40 Sand - abundant matrix of gray clay, mottled reddishbrown, fine-to coarse-grained, fairly wellsorted; sand is 60% bioclasts, 35% clear, angular quartz; trace of glauconite; foraminifers abundant

40-50	Sand -	abundant matrix of dull-brown clay; fine-to medium-grained, fairly well-sorted; sand is 65% clear to greenish quartz, 30% biochests; minor glauconite; foraminifers moderately abundant
50-60		" abundant matrix of gray clay, locally orange-brown; foraminifers common
60-70	Clay -	greenish-gray, very sandy; sand is fine-to medium-grained, well-sorted, and consists of 70% angular quartz, 30% bioclasts; foraminifers common
70-80	Sand -	moderately abundant matrix of greenish-gray clay, a few coarse shell fragments; fine-to coarse-grained, moderately sorted; sand consists of 50% fine-to medium-grained, angular quartz; 50% medium- to coarse-grained bioclasts; foraminifers moderately abundant, miliolids prominent
80-90	Clay -	bluish-gray, sandy; sand is fine-to medium- grained, fairly well-sorted, and consists of 75% angular quartz, 20% bioclasts; very foraminiferal; a few echinoid spines and ostracods
90-100	Clay -	greenish- to brownish-gray, moderately sandy, 10% coarse shell fragments; sand is fine-to coarse-grained, rather poorly sorted; sand consists of clear to greenish, angular quartz, with 20% bioclasts, 5% dark-green glauconite; foraminifers moderately abundant
100-110	Clay -	grayish-green, slightly sandy; sand is fine-to coarse-grained, variably rounded, slightly bioclastic; foraminifers common, but not abundant
110-120		u .

120-130	Clay - gray, slightly to moderately sandy, 5% small shell fragments; sand is fine-to coarse-grained, rather poorly sorted; sand comprises 70% quartz, 25% dark-green glauconite; foraminifers common, a few ostracods and echinoid spines
130-140	Sand and shell - moderately abundant matrix of brownish- gray clay; 35% pelecypod shell fragments; 55% fine- to medium-grained, fairly well-sorted sand; sand is 80% quartz, 20% dark-green glauconite; foraminifers common, but not abundant
140-150	Clay - brownish-gray, sandy, 5% shell fragments; sand is fine-to medium-grained, well sorted, angular; clear to greenish quartz, with 3-5% glauconite; slightly gypsiferous; a very few foraminifers
150-160	п
160-170	Sand - abundant matrix of grayish-brown clay, a very few shell fragments; sand is fine-to very fine-grained, well-sorted, angular; very slightly glauconitic and micaceous; trace of gypsum
170-180	Clay - grayish-brown, very silty, slightly sandy; sand is fine-to very fine-grained, well-sorted, angular; traces of glauconite and gypsum
180 190	sand is very fine-to medium-grained, rather poorly sorted
190-200	Clay - brown, silty, slightly sandy, 5% shell fragments; sand is fine-to coarse-grained, rather poorly sorted; yellowish, variably rounded quartz sand, with a trace of glauconite; gypsiferous
200-210	**

CALVERT FORMATION (210-240')

210-220	Sand — moderately abundant matrix of drab brown clay, a few shell fragments; coarse-grained, fairly well-sorted, subangular to subrounded; clear quartz, with a few fragments of bone phosphorite
220-230	" abundant matrix of brown clay
230-240	Sand - moderately abundant matrix of dark-brown clay; fine-to coarse-grained, rather poorly sorted; sand is 90% clear, subangular quartz, 9% pelletal and bone phosphorite; small foraminifers moderately abundant (1%)

MATTAPONI FORMATION (240-290')

240-250	Sand -	moderately abundant matrix of dark-gray and dark-
		brown clays, a few shell fragments; medium-to
		very coarse-grained, rather poorly sorted; sand is
		50% medium-green glauconite, 48% clear, angular
		to subrounded quartz; small amount of nodular and
		bone phosphorite; slightly pyritic

- 250-260 Sand abundant matrix of bright, grass-green and bluishgreen clay, trace of shell; fine - to coarse-grained, poorly sorted; sand is 50% light-to medium-green glauconite, 45% clear, variably rounded quartz; nodular and bone phosphorite common; pyritic
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GEOLOGIC SUMMARY

	Rock Unit	Age
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30-210	Yorktown Formation	Late Miocene
210-240	Calvert Formation	Middle Miocene
240-290	Mattaponi Formation	Paleocene - Late Cretaceous

* The use of the lithologic term, "chay" includes all size ranges of particles less than 1/32 mm.

R.H. Tufle 3/3/12

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240-250 Sand - moderately abundant matrix of dark-gray and dark-brown clays, a few shell fragments; medium-to very coarse-grained, rather poorly sorted; sand is 50% medium-green glauconite, 48% clear, angular to subrounded quartz; small amount of nodular and bone phosphorite; slightly pyritic

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