## INTERVAL SHEET

WWCR 201

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Date rec'd:

PROP: Union Camp Company, well #12

COMP: Layne-Atlantic Company

COUNTY: Isle of Wight

VDMR Well No: 1638

Sample Interval: from 0 to 812

Number of samples: 17

Total Depth: 878

Oil or Gas: Water: X Exploratory:

From-To		From-To	From-To	From-To
0	- 25	-	· .	-
25	- 68	·-	-	
68	- 95 - 15-	_	=======================================	
95	- 155 -	_	-	_
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234	- 275	.—	-	-
275	- 312	-		_
312	- 338	-	-	) <del></del>
338	- 460	_	-	-
460	- 513	; <b>—</b>	_	_
513	- 600	-	-	-
600	700	-	=	-
700	722	-	7	-
100				
722	_ 812	_	_	_
812	_	_	_	=
No	- Samples	-	-	Oun
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All intervals have both washed and unwashed samples.

OWNER: Union Camp Company, well #12

DRILLER: Layne-Atlantic Company COUNTY: Isle of Wight (Franklin)

VDMR: 1638 WWCR: 201 TOTAL DEPTH: 878'

#### GEOLOGIC LOG

Depth (feet)

## COLUMBIA GROUP (0-25')

0 - 25 Clay — gray, with orange-brown mottles; slightly silty and sandy.

# CHESAPEAKE GROUP (25-1551)

- 25 68 Sand brown, slightly silty and argillaceous; fine- to medium-grained, well-sorted, subangular; traces of muscovite, decomposed feldspar, light-green glauconite, and lignite.
- 68 95 Sand brownish-gray, moderately argillaceous; medium- to coarse-grained, fairly well-sorted, subangular to slightly subrounded; limpid quartz, with traces of glauconite, phosphorite, and feldspar.
- 95 155 Sand brownish-gray, very slightly argillaceous; medium- to coarse-grained, fairly well-sorted, angular to subangular; limpid quartz, with traces of phosphorite and glauconite; about 5% shell fragments and a few foraminifers and ostracods.

#### PAMUNKEY GROUP (155-321')

- 155 186 Limestone gray to buff, contains abundant quartz-glauconite sand and fine, rounded quartz gravel; glauconite is both green and brown; gravel contains a few phosphorite nodules; pyrite locally abundant; shells moderately abundant (pelecypods, gastropods, bryozoa, corals, and fish teeth).
- 186 202 Sand dark-gray, silty and argillaceous ("dirty"); fine- to very fine-grained, well-sorted; 60-70% fresh glauconite, and 30-40% clear to greenish angular quartz; abundant foraminifers, ostracods, fine shell fragments, and echinoid spines.
- Sand and Limestone sand (40-50%) is grayish-brown, moderately argillaceous (dull-brown clay); medium grained, well sorted; about 65% fresh glauconite, and 35% angular to subangular clear quartz, with a very few foraminifers and ostracods. Limestone (60-50%) is gray to buff, contains abundant quartz-glauconite and quartzose-granule gravel, fossils (pelecypods, gastropods, corals, and bryozoans) a few phosphate nodules, and localized pyrite accumulations

234 - 275	Sand - black, very slightly argillaceous; medium-grained; well-sorted; fresh glauconite with about 20% quartz, a trace of mica, and a very few foraminifera.			
275 - 312	π.			
POTOMAC GROUP (312-812')				
312 - 338	Sand - brownish-gray, slightly silty; medium- to coarse-grained, moderately sorted, subangular; 85% quartz, 15% glauconite.			
338 - 460	Sand - brown, very slightly argillaceous; coarse- to very coarse-grained, well-sorted, subangular to subrounded; moderately arkosic; 5% glauconite; traces of garnet and muscovite.			
460 - 513	Sand and Gravel - grayish-brown; 50% granule gravel, and 50% poorly-sorted sand; arkosic; very slightly glauconitic; scattered chunks of tight red clay; a few shell fragments.			
513 - 600	Sand - brown ("salt-and-pepper"), very silty; fine-to coarse-grained, rather poorly-sorted; moderately arkosic and glauconitic; a few foraminifera.			
600 - 700	Sand and GraveI - buff, very slightly argillaceous; sand (70%) is coarse-to very coarse-grained; gravel (30%) consists of granules; moderately arkosic; trace of glauconite.			
700 - 722	Sand - buff, slightly argillaceous; medium- to coarse-grained, well-sorted, subangular to subrounded; moderately arkosic; very slightly glauconitic.			
722 - 812	n			
812 - ?	11			
? - 878	No samples.			
0 - 25	ROCK UNIT Columbia Group Pliocene - Pleistocene			

25 - 155

155 - 312

312 - 812

812 - 878

Chesapeake Group

Pamunkey Group

Potomac Group

No samples

Miocene

Early Cretaceous

Eocene