INTERVAL SHEET

WWCR 216

Page	1	VDMR Well No.: Well No. 1322		
Date	6/15/65	Sample In	nterval: from 0 to_	228
PROP:	Town of Exmore #2	Total dep	oth228	
COMP:	Sydnor P & W Company	OilGasWater_X_Exploratory		
COUNTY:	Northampton (Exmore)	Cuttings_X CoreOther		
VDMR	Well No: W-1322	Washed s	samples	
From-To				From-To
-	-	0 - 10	-	_
-	-	10 - 20	-	-
-	*	20 - 30	-	-
-	-	30 40	-	-
-	-	40 50	-	_
-	_	50 - 60	-	
-	-	60 - 70	-	-
-	-	70 - 80	-	-
-	-	80 - 90	-	-
-	-	90 - 100	-	=
	_	100_ 110	_	-
-	-	110 - 120	-	-
-	-	120 - 130	-	-
-	-	130 - 140	_	-
-	- 1	140 - 150	-	-
-	-	150 - 160	_	_
-	-	160 - 170	-	E
-	-	170 - 180	-	-
-	-	180 - 190	-	-
-		190 200	_	-
_	-	200- 210	_	-
-	-	210- 220	-	-
-	-	220- 228	-	-
-	-	0-1	-	-
-	-	-	~	-
-	_	, -	_	_
-	-	-	_	-
-	-	-	-	=
-	-	-	=	-
-	-	-	(-	-

OWNER: Town of Exmore - Well #2

DRILLER: Sydnor Pump & Well Co., Inc.

COUNTY: Northampton (Exmore)

VDMR #1322 WWCR #216 TOTAL DEPTH: 228'

GEOLOGIC LOG

Terrace Deposits (0-40')

- 0-10 Sand brown; a few small pebbles (2-4 mm) of quartz, chert; coarse- to very-coarse-grained, well-sorted, subrounded; white to yellowish quartz and small amounts of black to brownish chert, and weathered white microcline.
- 10-20 Sand brown; 5-10% subrounded granules (2-4 mm) of quartz and black chert; fine- to very-coarse-grained, bimodal (modes at 1/4 and 1-1/2 mm), modes well-sorted, angular to subangular; clear to yellowish quartz, and small amounts black chert and weathered white microcline.
- Sand gray, with violet cast; medium- to very-coarse-grained, well-sorted, subrounded; clear to white quartz, with small amounts black chert and white microcline; small amount garnet; trace of epidote.
- 30-40 As above.

Yorktown Formation (40-228')

- 40-50 Sand gray; medium- to coarse-grained with a small amount very-coarse-grained material, well-sorted, subangular; clear to white quartz, with small amount of gray K-feldspar; minor gray chert, garnet, and brown epidote; small amount chalky shell fragments (pelecypods and gastropods) and on occasional ostracod.
- 50-60 Sand brown; medium- to coarse-grained, well-sorted; sub-rounded; clear to yellowish quartz with scattered grains of dark-gray chert and dull-white microcline; trace of garnet.
- As above but slightly coarser, and with a few shell fragments.
- 70-80 Sand gray; about 10% subrounded to rounded granules; medium-to very-coarse-grained, bimodal (modes at 1/2 and 1-1/2 mm), modes well sorted, subangular to subrounded; very slightly arkosic quartz sand.
- 80-90 Clay gray; very sandy; scattered granules, sand is coarse-grained, poorly sorted, subangular to subrounded; quartz, with scattered grains of chert, feldspar, and phosphorite; scattered shell fragments, and a few foraminifera.

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- 90-100 Clay gray; very sandy; scattered granules, sand is coarse-grained, poorly sorted, subangular to subrounded; quartz, with scattered grains of chert, feldspar, and phosphorite; scattered shell fragments, and a few foraminifera.
- 100-110 As above.
- 110-120 As above.
- 120-130 Sand gray; argillaceous (gray clay); small amount small gravel (2-5 mm); fine- to very-coarse-grained, poorly sorted, subangular to subrounded; quartz, with scattered grains of dark-gray chert and dull white feldspar; a few shell fragments.
- 130-140 Sand brownish-gray; slightly argillaceous; medium- to coarse-grained, well-sorted, subrounded; quartz, with small amount dull white microcline; trace of garnet.
- 140-150 Clay bluish-gray; slightly to moderately sandy; trace of pyrite; trace of plant material.
- Sand gray; slightly argillaceous; a few small pebbles (2-4 mm); medium— to very-coarse-grained, well-sorted, subangular to subrounded; quartz, with small amount white feldspar, and black chert, and accessory garnet, brown epidote, and glauconite; a few shell fragments, and a trace of plant material.
- 160-170 As above.
- 170-180 As above.
- 180-190 As above.
- 190-200 Sand and Gravel gray; gravel component (50% of sediment) fine-grained (2-5 mm), well-sorted, subrounded; sand component (50% of sediment) coarse- to very-coarse-grained, moderately sorted to well-sorted, subangular to subrounded; quartz, with small amounts of chert and phosphorite (black, platy); traces of garnet, glauconite, brown epidote; abundant blue-gray pelecypod fragments in both fractions.
- Gravel, Sand, and Shells gray; gravel component (50% of sediment) fine-grained (2-6 mm), well-sorted, subrounded; sand component (50% of sediment) medium— to very-coarse-grained, moderately sorted, subangular to subrounded; small amounts of chert and phosphorite (black to brown, platy); traces of garnet and glauconite; pelecypod shell fragments very abundant in both fractions.

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210-220

Gravel, Sand, and Shells — gray; gravel component (50% of sediment) fine-grained (2-6 mm), well-sorted, subrounded; sand component (50% of sediment) medium— to very-coarse-grained, moderately sorted, subangular to subrounded; small amounts of chert and phosphorite (black to brown, platy); traces of garnet and glauconite; pelecypod shell fragments very abundant in both fractions.

220-228

As above - but with more phosphorite (phosphatic shell fragments).

GEOLOGIC SUMMARY

	ROCK UNIT	TIME ROCK UNIT
0-40	Terrace Deposits	Pleistocene
40-228	Yorktown Formation	Miocene

Virginia Division of Mineral Resources Robert H. Teifke, Geologist June 21, 1965