

INTERVAL SHEET

WWCR 131

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VDMR WELL NO.: Well No. 1181

Date 11/13/64

Sample Interval: from 21 to 646

PROP: Locksley Hall Estates #2

Total Depth 777

COMP: Douglas & Dickinson, Inc.

Oil Gas Water Exploratory

COUNTY: Northumberland (Sunnybank)

Cuttings Core Other

VDMR WELL NO: W-1181

From-To	From-To	From-To	From-To	From-To
-	0-21 No sample	630 - 646	-	-
-	21 - 42	646 - 777 No sample	-	-
-	42 - 63	-	-	-
-	63 - 84	-	-	-
-	84 - 105	-	-	-
-	105 - 126	-	-	-
			No washed samples	
-	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	-	-	-
-	462 - 483	-	-	-
-	483 - 504	-	-	-
-	504 - 525	-	-	-
-	525 - 546	-	-	-
-	546 - 567	-	-	-
-	567 - 589	-	-	-
-	589 - 610	-	-	-
-	610 - 616	-	-	-
-	616 - 630	-	-	-

OWNER: Locksley Hall Estates #2
DRILLER: Douglas & Dickinson, Inc.
COUNTY: Northumberland

VDMR: 1181
WWCR: 131
TOTAL DEPTH: 777'

GEOLOGIC LOG

- 0-21 No sample
- COLUMBIA GROUP (21-42')
- 21-42 Sand - yellow-buff, fine to medium grained, well sorted, sub-angular, slightly argillaceous, moderately arkosic, moderately ferruginous, moderate amount granules
- YORKTOWN FORMATION (42-84')
- 42-63 Sand - brown, very fine to very coarse grained, poorly sorted, subangular to subrounded, argillaceous, small amount granules, moderately ferruginous, slightly arkosic and micaceous (muscovite), shell material very abundant - pelecypods
- 63-84 Clay - gray, very sandy, sand is poorly-sorted, micaceous (muscovite), slightly ferruginous and glauconitic, small amounts garnet, epidote, and feldspar, abundant shell fragments, in part chitino-phosphatic pelecypods
- CALVERT FORMATION (84-315')
- 84-105 Sand - brownish-gray, very fine to fine grained, well-sorted, angular to subangular, argillaceous, moderately ferruginous and micaceous (muscovite), very slightly glauconitic, abundant shell fragments, in part chitino-phosphatic pelecypods
- 105-126 Sand - greenish-gray, fine grained, very well-sorted, angular to subangular, moderately argillaceous, moderately micaceous, slightly ferruginous and glauconitic, shell fragments moderately abundant, pelecypods
- 126-147 Clay - gray, slightly sandy and micaceous, trace of glauconite, small amount shell fragments - pelecypods
- 147-168 Clay - gray, mottled brown, slightly sandy-sand is localized in aggregates bound by ferruginous clay, small amount shell fragments - pelecypods
- 168-189 Clay - gray, slightly sandy, small amount shell fragments, pelecypods
- 189-210 Clay - gray, moderately sandy, very small amount shell fragments

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210-231 Clay - brownish-gray, very sandy; sand is very fine-grained, very well sorted, small amount of phosphate, very small amount shell fragments

231-252 Sand - brownish-gray, very fine-grained, very well-sorted, angular to subangular, very argillaceous, slightly ferruginous, glauconitic, micaceous, very small amount of phosphate, small amount shell material; pelecypods, echinoid spines, foraminifera

252-273 Clay - gray, slightly sandy, very small amount shell fragments

273-294 Clay - gray, trace of sand

294-315 Clay - gray, slightly sandy

CHICKAHOMINY FORMATION (315-399')

315-336 Sand - gray, very poorly sorted, angular, very argillaceous, moderate amount shell fragments, much of which is chitino-phosphatic; clear quartz in brownish clay

336-357 Sand - gray, medium grained, fairly well sorted, angular to subangular, moderately argillaceous, shell fragments very abundant, including much chitino-phosphatic material; pelecypods and oysters; clean; clear quartz and shell

357-378 Sand - gray, poorly sorted, angular to subrounded, slightly argillaceous, small amount garnet and fine grained glauconite, trace of pyrite, clean, clear quartz and shell; large amount shell fragments, pelecypods, echinoid spines, foraminifera, moderate amount of phosphate, much of it in form of shell fragments

378-399 Sand - gray, poorly sorted, angular to subangular, very (calcareous) argillaceous, moderately glauconitic, traces of muscovite and columnar aragonite, abundant foraminifers and shell fragments, pelecypods, scaphopods, echinoid spines, small amount phosphate (nodular)

NANJEMOY FORMATION (399-504')

399-420 Sand - dark, brownish-gray, medium to coarse grained, well sorted glauconite (25-35%) and medium to very coarse grained, subangular to subrounded quartz (65-75%), slightly argillaceous, much of "glauconite" is goethite-limonite after glauconite, much of quartz is iron-stained, scattered shell fragments, trace of phosphate

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- 420-441 Sand - brownish-gray, medium to coarse grained, well sorted glauconite (about 10%) and medium to very coarse grained, subangular to subrounded quartz (about 90%), slightly argillaceous, characteristics of glauconite and quartz as defined for preceding sample, moderate amount shell fragments, trace of phosphate
- 441-462 Sand - brownish-gray, medium to very coarse grained, rather poorly sorted, subangular to subrounded quartz (80-90%), and glauconite (10-20%), slightly argillaceous, moderate amount phosphate nodules, small amount pyrite, small amount shell material; pelecypods, echinoid spines, bryozoans
- 462-483 Sand - dark, brownish-gray, medium to coarse grained, fairly well sorted glauconite (about 50%) and coarse to very coarse grained, subangular to subrounded quartz (about 50%), slightly argillaceous, a few pelecypods, bryozoans, and uniserial foraminifera

483-504 "

MATTAPONI FORMATION (504-616')

- 504-525 Sand - black, medium to coarse grained, well sorted, black glauconite (about 90%), coarse to very coarse grained, subangular to subrounded, green and yellow quartz, slightly argillaceous, very small amounts shell material and phosphate
- 525-546 Sand - black, medium grained, very well sorted, black glauconite, slightly argillaceous, very small amount quartz, a few uniserial foraminifera
- 546-567 Sand - dark gray, predominantly poorly sorted, black to green glauconite, quartz sand subordinate, very argillaceous, compact gray clay, small amounts phosphate, pyrite, muscovite, and shell material - echinoid spines, worm burrows, pelecypods
- 567-589 Clay - gray, compact, very sandy, glauconite dominant in sand fraction, small amount muscovite, a few shell fragments
- 589-610 Sand - dark gray, fine to medium grained, fairly well sorted, glauconite (80-85%) and more poorly sorted quartz (15-20%), moderately argillaceous, small amount garnet, moderate amount coarse pelecypod fragments, a few fish teeth, and uniserial foraminifera