

VIRGINIA DIVISION OF MINERAL RESOURCES
Box 3667, Charlottesville, VA 22903

INTERVAL SHEET

Page 1 of 1	C-149
Date rec'd: 9/21/70 ; processed 3/4/71	Well Repository No: 3096
PROPERTY: H. V. Pointer	Sample Interval; from 0 to: 694'
COMPANY: Douglas & Dickinson, Inc.	Number of samples: 66
COUNTY: Northumberland (Remo)	Total Depth: 696'
	Oil or Gas: Water: <input checked="" type="checkbox"/> Exploratory:

From-To	From-To	From-To	From-To
0 - 10	262 - 273	515 - 526	-
10 - 21	273 - 283	526 - 536	-
21 - 31	283 - 294	536 - 547	-
31 - 42	294 - 304	547 - 558	-
42 - 52	304 - 315	558 - 569	-
52 - 63	315 - 325	569 - 579	-
63 - 73	325 - 336	579 - 590	-
73 - 84	336 - 346	590 - 600	-
84 - 94	346 - 357	600 - 611	-
94 - 105	357 - 367	611 - 621	-
105 - 115	367 - 378	621 - 632	-
115 - 126	378 - 388	632 - 642	-
126 - 136	388 - 399	642 - 653	-
136 - 147	399 - 410	653 - 663	-
147 - 157	410 - 421	663 - 674	-
157 - 168	421 - 431	674 - 684	-
168 - 178	431 - 442	684 - 694	-
178 - 189	442 - 452	-	-
189 - 199	452 - 463	-	-
199 - 210	463 - 473	-	-
210 - 220	473 - 484	-	-
220 - 231	484 - 494	-	-
231 - 241	494 - 505	-	-
241 - 252	505 - 510	-	-
252 - 262	-	-	-

All intervals have both washed and unwashed samples



Owner: H. V. Pointer
Driller: Douglas & Dickinson
County: Northumberland

W# 3096
C# 149
Total Depth: 694'
Quad: Reedville
Elev: 7'

Depth
(feet)

WELL LOG

- 0-10 Sand - Pale grayish yellow (5y 8/2); very sparse clay - dark yellowish orange; medium, some granules, subangular, well sorted; 2% phosphate fragments.
- 10-21 Sand - Yellowish gray (5y 7/2); 1-2 clay clasts; medium, some coarse, subangular, very well sorted; 2% phosphate fragments.
- 21-31 Sand - Grayish orange (10yr 7/4); medium to coarse, subangular, well sorted; 1% phosphate fragments.
- 31-42 Sand - Light and Dark orange; medium to granule, subangular, angular, ~~and subangular~~, moderate sorting; 1% glauconite; iron stained granules; feldspar.
- 42-52 Sand - Light and Dark brown; sparse clay; medium to granule, angular and subangular, moderate sorting; 2% glauconite; iron stained granules; feldspar.
- 52-63 Sand - Light olive gray (5y 5/2); sparse clay; medium to granule, 10% large granules, angular and subangular, poorly sorted; 1% glauconite/phosphatic fragments; 3% shell fragments; iron stained granules; feldspar.
- 63-84 Gravel - Mixed colors; fine to coarse, with 20% pebbles, subangular and rounded, poorly sorted; 10%(?) very fine glauconite; 10% shell fragments; Dentalium, Turritella, Ostrea, Barnacles, 73-84 rare shell fragments.
- 84-105 Clay - Very light brownish gray (5yr 7/2); abundant sand; fine to coarse, subangular, poorly sorted; 5% very fine glauconite; 2% shell fragments, 94-105' 5% shell fragments.
- 105-126 Sand - Grayish pink (5yr 8/1); abundant clay; fine, subangular, well sorted; 20% fine glauconite; 2% shell fragments; pebbles.
- 126-147 Sand - Light olive gray (5y 5/2); abundant clay; fine, subangular, well sorted; 10% glauconite; 2% shell fragments; mica; pebbles.
- 147-168 Clay - Light olive gray (5y 6/1); ~~clay in~~ minute pellets and clasts; fine to coarse, subangular, few grains; 10% glauconite; Diatoms; mica.
- 168-178 Sand - Light olive gray (5y 5/2); abundant clay; fine, subangular, well sorted; 1% glauconite/phosphate fragments.

Depth
(feet)

- 178-189 Clay - Light olive gray (5y 6/1); abundant sand; fine to coarse, subangular, poorly sorted; few glauconite; mica.
- 189-220 Sand - Light olive gray (5y 5/2); abundant clay; fine, subangular, well sorted; 1% glauconite/phosphate fragments; Forams-Bolivina, Nonion, Nonionella; mica.
- 220-231 Sand - Light olive gray (5y 6/1); abundant clay; fine, subangular, well sorted; Diatoms; 10% glauconite/phosphatic fragments and bone fragments; Forams; mica.
- 231-252 Clay - Light olive gray (5y 6/1); small pellets; fine to coarse, subangular; few grains of sand; Diatoms; Forams; Mica.
- 252-336 Clay - Light olive gray (5y 5/2); fine to coarse, subangular, few grains; *Diatoms; Echinoderm spines; Forams-Robulus, **Nonion Bolivina, Siphogenera, Uvigerina; mica. *283-294' Abundant diatoms. **262-273' 1% nonion.
- 336-346 Clay - Light olive gray (5y 5/2); in pellets (lighter gray) and clasts (darker); fine to coarse, subangular, few grains; Diatoms; Forams, (siphogenera); mica.
- 346-357 Sand - Light olive gray (5y 6/1); sparse clay in clasts; medium to granule, subangular, poorly sorted; 25% shell fragments; shark tooth - worn.
- 357-378 Sand - Light olive gray (5y 6/1); sparse clay; medium to granule, subangular, moderate sorting; 10% shell fragments; echinoderm spines; rare phosphate fragments; pebble.
- 378-388 Sand - Light olive gray (5y 6/1); sparse clay; medium to granule, subangular, moderate sorting; 8% shell fragments - fine; shark tooth.
- 388-399 Sand - Light olive gray (5y 6/1); sparse clay (5y 4/1); medium to granule, subangular, moderate sorting; 8% phosphatic fragments; 3% shell fragments; echinoderm spines; glauconite; Forams-Bolivina; garnet.
- 399-421 Coquina - Light olive gray (5y 5/1); finely ground coquina composed of calcite cement; clay - abundant; few grains of quartz sand - medium to coarse, subangular; 5% glauconite; finely ground shell fragments and Forams-Quinque-Loguina, Cibicides, and Dentalina; pyrite.

Owner: H. V. Pointer
Page 3

W# 3096
C# 149

- Depth
(feet)
- 421-431 Clay, Glauconitic - Light and dark gray; 50% glauconite; ~~moderate clay grains~~; Coquina clasts; few grains quartz sand, coarse and round; Forams-Guttulina; Ostracods.
- 431-442 Sand - Light and dark gray; abundant clay; medium to granule, subangular, poorly sorted; 40% glauconite; sparse Coquina clasts; few shell fragments; Ostracods.
- 442-452 Sand, Glauconitic - Light and dark gray; 50% glauconite; abundant clay; medium to granule, subangular, poorly sorted; sparse Coquina clasts; few shell fragments; Ostracods.
- 452-473 Gravel, Glauconitic - Mixed colors; 50% glauconite; moderate clay, in various colors; some Coquina clasts; medium to granule, subangular, poorly sorted; few shell fragments; Forams-Robulus.
- 473-484 Clay, Glauconitic - Mixed colors; 50% glauconite; abundant sand; medium to granule, subangular, poorly sorted; abundant Coquina clasts (in addition to "regular" clay clasts); few shell fragments; Forams.
- 484-526 Sand, Glauconitic - Olive black (5y 2/1); 98% glauconite; sparse clay; few grains quartz sand, medium to granule, subangular; 505-526' moderate clay, including some Coquina; Forams.
- 526-558 Clay - Light olive gray (5y 6/1); *30% "loose" glauconite; 20% in clasts; few grains quartz sand, medium to granule, subangular; mica; *547-558' 50% glauconite.
- 558-569 Clay - Light olive gray (5y 6/1); sparse sand, very fine to medium, subangular, poorly sorted; 10% glauconite; 1% mica.
- 569-590 Sand, Glauconitic - Light and dark green; 70% glauconite; fine to coarse, subangular, poorly sorted; rare shell fragments; Forams-Nodosaria; shark tooth; garnet; 579-590' sparse clay.
- 590-600 Glauconite/Sand/Clay - Clay in pink, red, gray; ~~and also~~ Coquina clasts; ~~sand~~, fine to coarse, subangular, poorly sorted; rare shell fragments; Forams.
- 600-632 Sand, Glauconitic - Light and dark green; 80% glauconite; *moderate clay; ~~sparse sand~~, fine to coarse, subangular, poorly sorted; Forams; garnet; *611-632' abundant clay.

Owner: H. V. Pointer
Page 4

W# 3096
C# 149

Depth
(feet)

- 632-642 Sand - Light and dark green; sparse clay - pink, yellow, red and white; fine to coarse, subangular, moderate sorting; 40% glauconite.
- 642-694 Sand - Light olive gray (5y 7/1); sparse to very sparse clay; medium to granule, angular and subangular, moderate sorting; glauconite - (642-53 10%; 53-63 30%; 63-74 10%; 74-84 20%; 84-94 7%); varies from 30 to 70%; few shell fragments; feldspar; garnet.

Logged by: J. K. Polzin
August, 25, 1980

OWNER: H. V. Pointer
DRILLER: Douglas & Dickinson, Inc.
COUNTY: Northumberland (Remo)

VDMR # 3096
WWCR # 149
TOTAL DEPTH: 696'

GEOLOGIC SUMMARY

<u>Depth (feet)</u>	<u>Rock Unit</u>	<u>Age</u>
0-31	Columbia Group	Pleistocene
31-136	Yorktown and St. Marys formations	Late Miocene
136-431	Calvert Formation	Middle Miocene
431-494	Nanjemoy Formation	Eocene
494-660	Mattaponi Formation	Paleocene
660-694	Patuxent Formation	Early Cretaceous
694-696	No sample	—

Virginia Division of Mineral Resources
Robert H. Teifke - Geologist
April 6, 1971