

113  
7

INTERVAL SHEET

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VDMR Well No.: 167

Date \_\_\_\_\_

Sample Interval: from 60 to 450

PROP: CAMP PEARY D-1

Total depth 464

COMP: V<sup>A</sup>. Machine & Well

Oil \_\_\_\_\_ Gas \_\_\_\_\_ Water x Exploratory \_\_\_\_\_

COUNTY: YORK

Cuttings<sup>x</sup> \_\_\_\_\_ Core \_\_\_\_\_ Other \_\_\_\_\_

From-To	From-To	From-To	From-To	From-To
-	UNWASHED	355 -	-	-
-	60 - 140	369 - 372	-	-
-	165 -	385 - 398	-	-
-	200 - 240	434 -	-	-
-	310 - 315	450 -	-	-
-	369 - 372	-	-	-
-	426 -	-	-	-
-	434 -	-	-	-
-	-	-	-	-
-	-	-	-	-
-	WASHED	-	-	-
-	345 - 360	-	-	-
-	355 -	-	-	-
-	380 - 382	-	-	-
-	398 - 410	-	-	-
-	398 - 426	-	-	-
-	426 -	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	FLOATED RESIDUE	-	-	-
-	60 - 140	-	-	-
-	140 - 170	-	-	-
-	165 -	-	-	-
-	170 - 200	-	-	-
-	200 - 240	-	-	-
-	240 - 270	-	-	-
-	270 - 290	-	-	-
-	290 -	-	-	-
-	<u>310</u> - 345	-	-	-
-	345 - 360	-	-	-

OWNER: Camp Peary D-1  
DRILLER: Va. Machinery & Well  
COUNTY: York

W#: 167  
C#: 7  
TOTAL DEPTH: 450'  
QUAD: Williamsburg

GEOLOGIC LOG

Depth  
(feet)

- 0-60 No sample.
- 60-140 Sand — greenish gray; slightly clayey; fine to medium grained; subangular to subrounded; well sorted; quartz; 5% glauconite; 2% shell fragments; muscovite; few spines; forams scarce (inc. Nonion).
- 140-165 No sample.
- 165 Clay — olive light gray; some shell fragments; some fine to coarse grained quartz sand; few grains of glauconite; muscovite; foram.
- 165-170 No sample.
- 170-200 Sand — off white; very fine to fine grained; subangular to subrounded; well sorted; quartz; some black phosphatic material; some glauconite; few shell fragments; muscovite; bone fragment (floated residue only).
- 200-240 Clay — olive light gray; some shell fragments; some medium grained quartz; some glauconite; few spines; forams (inc. Nonion and Quinqueloculina); ostracode
- 240-270 Forams (inc. Nonion, Uvigerina, Bolivina, Buccella, Bulimina, Textularia, and Siphogenerina ?); black phosphatic material; few grains of glauconite; few shell fragments; muscovite; spines (floated residue only).
- 270-290 Sand — salt and pepper; medium to coarse grained; subrounded; moderately well sorted; quartz; 5% black phosphatic material; 2% shell fragments; 2% bone fragments; forams (inc. Siphogenerina and Marginulina ?). (floated residue only).
- 290 Clay and sand — dusky yellow; abundant clay (clasts); moderate sand; medium to coarse grained; subrounded to rounded; moderately well sorted; glauconite 60% of sand sized fraction (black, green, brown); quartz; 7% sandy limestone and shell fragments; muscovite (floated residue only).
- 290-310 No sample.

Depth  
(feet)

- 310-345 Sand — light greenish gray; very fine to fine grained; sub-angular to subrounded; well sorted; quartz; 2% glauconite; some shell fragments; some black phosphatic material; muscovite (315-345 floated residue only).
- 345-360 Sand — salt and pepper; slightly clayey; medium to coarse grained; subrounded to rounded; moderately well sorted; 40% glauconite (black, green, brown); quartz; 15% shell fragments; ostracodes; few spines; forams (inc. Dentalina and Quinqueloculina) (washed and floated residue only).
- 360-369 No sample.
- 369-372 Sand — salt and pepper; medium to coarse grained, some granules; subrounded to rounded; moderately well sorted; 35% glauconite (black, brown, green); 25% shell fragments; quartz; 15% sandy limestone fragments; few spines; forams (inc. Buccella and Globulina ?).
- 372-380 No sample.
- 380-382 Sand — very dark green; medium to coarse grained; rounded; moderately well sorted; 65% glauconite; quartz; 7% shell fragments; forams (inc. Globigerina, Buccella, and Nodosaria) (washed only).
- 382-385 No sample.
- 385-398 Sand — very dark green; medium to coarse grained; rounded; moderately well sorted; 85% glauconite; quartz (moderately stained); 2% shell fragments; large sandy limestone fragment (approx. 20 mm) (floated residue only).
- 398-426 Sand — salt and pepper; medium to coarse grained; subangular to rounded; moderately well sorted; 55% glauconite; quartz; few shell fragments (washed only).
- 426 Sand and gravel — salt and pepper; slightly clayey (clasts); medium to coarse grained; subangular to rounded; poorly sorted; quartz; 20% glauconite; feldspar; few shell fragments; muscovite.
- 426-434 No sample.
- 434 Sand — off white; medium to very coarse grained, few granules; subangular to subrounded; moderately sorted; quartz; feldspar; 2% glauconite; muscovite; few shell fragments; pyrite.
- 434-450 No sample.
- 450 Granules and gravel — white; moderate sand; coarse to very coarse grained; subrounded; moderately sorted; quartz; feldspar; some glauconite; muscovite; pyrite (floated residue only).

GEOLOGIC SUMMARY

<u>Depth (feet)</u>	<u>Thickness (feet)</u>	<u>Rock Unit</u>	<u>Time Rock Unit</u>
0-60	60	No Sample	
60-140	80	Yorktown Formation	Pliocene-Miocene
140-165	25	No Sample	
165-290	125	Calvert Formation	Miocene-Eocene
290-426	136	Nanjemoy-Mattaponi Formation	Eocene-Cretaceous
426-450	16	Patuxent Formation	Cretaceous

VIRGINIA DIVISION OF MINERAL RESOURCES  
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