

OWNER: Shell Oil Company, Well #2
DRILLER: Mitchell's Well & Pump Co.
COUNTY: Hanover (Ashland)

VDMR: 2249
WWCR: 114
TOTAL DEPTH: 71'

GEOLOGIC LOG

Depth in
feet

COLUMBIA GROUP (0-30')

- 0-10 Clay — light-gray and tan, sandy; sand is medium-to very-fine, fairly well-sorted; slightly feldspathic
- 10-20 Clay — orange, very sandy; 90% sand is fine-to very fine, well-sorted; 10% coarse, slightly-feldspathic sand
- 20-30 Sand and Gravel — orange-brown, slightly clayey; 30% fine (2-20 mm), moderately-sorted, rounded, quartzo-feldspathic gravel; 70% fine-to very-coarse, poorly-sorted, slightly-feldspathic sand

CALVERT FORMATION (30-71')

- 30-40 Sand-Silt — bluish-gray, very clayey; coarse silt to fine sand, well-sorted; very-slightly micaceous
- 40-50 Gravel — gray, clean; fine (2-20 mm), moderately sorted, rounded-to well-rounded; quartz, quartzite, feldspar, and phosphorite
- 50-60 Sand — greenish-gray, moderately clayey; 5% shell fragments; fine-to very-fine, well-sorted; traces of muscovite, phosphorite, magnetite; plant fragments, echinoid spines, and foraminifers are rare
- 60-71 "

GEOLOGIC SUMMARY

	<u>Rock Unit</u>	<u>Age</u>
0-30'	Columbia Group	Pleistocene
30-71'	Calvert Formation	Middle Eocene

Virginia Division of Mineral Resources
Robert H. Teifke, Geologist
October 4, 1968

OWNER : Shell Oil Co., Well #2 USUR # 2289
MILLER : Mitchell's Well & Pump Co. well # 114
COUNTY : Hancock (Arkland) TOTAL DEPTH : 71'

GEOLOGIC LOG

Depth
(feet)

COLUMBIA GROUP (0-30')

0-10 Clay - light-gray and tan, sandy; sand
in medium-to very-fine, fairly well-
sorted; slightly feldspathic;

10-20 Clay - orange, very sandy; ^{90% of} sand in
fine-to very fine, well-sorted;
10% coarse, slightly-feldspathic sand

20-30 Sand and Gravel - orange-brown,
slightly clayey; 30% fine (2-20 mm),
moderately-sorted, rounded, quartzo-
feldspathic gravel; 70% fine-to very-
coarse, poorly-sorted, slightly-feld-
spathic sand;

~~UNCONFORMABLE~~ CALVERT FORMATION (30-71')

30-40 Sand-silt - bluish-gray, very clayey;
coarse silt to fine sand, well-sorted;
very-slightly micaceous

40-50 Gravel - gray, clean; fine (2-20 mm),
moderately sorted, rounded-to well-
rounded; quartz, quartzite, feldspar,
phosphite;

50-60 Sand — greenish-gray, moderately clayey; 5% shell fragments; fine to very fine, well-sorted; traces of muscovite, phos- phate, magnetite; plant fragments, echi- noid spines, and foraminifera are rare.

60-71 " " /

GEOLOGIC SUMMARY

	<u>unit</u> <u>Rock Name</u>	<u>Age</u>
0-30'	Columbia Group	Pleistocene
30-71'	Coloect Formation	Middle Eocene

VDNR
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