

County: Surry
VDMR Well #1972

Well: V-67-12
Property Owner: State, road right-of-way
Driller: Froehling and Robertson
Location: South side of State Road 627, 0.9 mile southeast of intersection of
State Highway 10 and State Road 627
Altitude Top of Hole: 58.0 feet
Total Depth: 46.0 feet
Started Drilling: June 16, 1967
Completed Drilling: June 16, 1967
Sample Description by: N. K. Coch

GEOLOGIC SUMMARY

| Depth | Thickness | Formation | Age |
|--------------|-----------|-----------|--------------------|
| 0.0'-20.0' - | 20.0' | Elberon | Middle Pleistocene |
| 20.0'-32.0' | 12.0' | Sedley | Pliocene ? |
| 32.0'-46.0' | 14.0' | Yorktown | Late Miocene |

GEOLOGIC LOG

VDMR Well #1972

| Formation | Depth in feet | Thickness in feet | Description | |
|-----------|---------------|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Elberon | 0.0-4.0 | 4 | Flush Interval | |
| | 4.0-6.0 | 2 | Sand - brownish-tan, medium, trace coarse, gray and red mottling, homogeneous 4.0'-5.0' - 7 blows per foot 5.0'-6.0' - 7 blows per foot Compressive strength: 1.25 tons per square foot | |
| | 6.0-9.0 | 3 | Flush Interval | |
| | 9.0-11.0 | 2 | Sand - gray, medium-coarse, trace granules, 40 percent silt, orange and brick red mottling, poorly sorted 9.0'-10.0' - 16 blows per foot 10.0'-11.0' - 22 blows per foot Compressive strength: 4.0 tons per square foot | |
| | 11.0-14.0 | 3 | Flush Interval | |
| | 14.0-16.0 | 2 | Sand - similar to 9.0'-11.0' interval, 15 percent silt, tan, laminae of gray silt, noticeable opaque minerals 14.0'-15.0' - 8 blows per foot 15.0'-16.0' - 11 blows per foot Compressive strength: 1.0 ton per square foot | |
| | 16.0-19.0 | 3 | Flush Interval | |
| | 19.0-20.0 | 1 | Sand - orange-brown, coarse, pebbly, 19.0'-20.0' - 8 blows per foot | |
| | Sedley | 20.0-21.0 | 1 | Silt - gray, sandy and sand, gray, fine-silty, very finely interlaminated 20.0'-21.0' - 3 blows per foot Compressive strength: 0.2 ton per square foot |
| | | 21.0-24.0 | 3 | Flush Interval |

VDMR Well #1972

| Formation | Depth in feet | Thickness in feet | Description |
|-----------|---------------|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sedley | 24.0-26.0 | 2 | Silt - dark-reddish-brown, fine, sandy, black layers, ferricrete crusts 24.0'-25.0' - 2 blows per foot 25.0'-26.0' - 2 blows per foot Compressive strength: no reading |
| | 26.0-29.0 | 3 | Flush Interval |
| | 29.0-31.0 | 2 | Similar to 24.0'-26.0' interval 29.0'-30.0' - 1 blow per foot 30.0'-31.0' - 1 blow per foot Compressive strength: no reading |
| | 31.0-32.0 | 1 | Flush Interval |
| Yorktown | 32.0-34.0 | 2 | Flush Interval |
| | 34.0-36.0 | 2 | Silt - pale-tan, 70 percent fossils, silt, trace pale-brown, faintly calcareous, very fine sand 34.0'-35.0' - 5 blows per foot 35.0'-36.0' - 5 blows per foot Compressive strength: 0.75 ton per square foot |
| | 36.0-39.0 | 3 | Flush Interval |
| | 39.0-41.0 | 2 | Silt - greenish-gray, trace fine sand, some thin shell fragments, matrix somewhat calcareous 39.0'-40.0' - 8 blows per foot 40.0'-41.0' - 14 blows per foot Compressive strength: 1.4 tons per square foot |
| | 41.0-44.0 | 3 | Flush Interval |
| | 44.0-46.0 | 2 | Silt - greenish-gray, sandy, fine, highly fossiliferous, whole shells and shell fragments 44.0'-45.0' - 9 blows per foot 45.0'-46.0' - 13 blows per foot Compressive Strength: 0.4 ton per square foot |

INTERVAL SHEET

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VDMR Well No: 1972

Date rec'd: 9/19/67

Sample Interval: from 4 to 46

PROP: State Right of Way
Well V-67-12

Number of samples: 10

COMP: Froehling and Robertson

Total Depth: 46'

COUNTY: Surry

Oil or Gas: Water: Exploratory: X

| From-To | From-To | From-To | From-To |
|----------|---------|---------|---------|
| 4 - 6 | - | - | - |
| 9 - 11 | - | - | - |
| 14 - 16 | - | - | - |
| 19 - 20 | - | - | - |
| 20 - 21 | - | - | - |
| 24 - 26 | - | - | - |
| 29 - 31 | - | - | - |
| 34 - 36' | - | - | - |
| 39 - 41 | - | - | - |
| 44 - 46 | - | - | - |
| - | - | - | - |
| - | - | - | - |
| - | - | - | - |
| - | - | - | - |
| - | - | - | - |

All intervals have both washed and unwashed samples

| | | | |
|---|---|---|---|
| - | - | - | - |
| - | - | - | - |
| - | - | - | - |
| - | - | - | - |
| - | - | - | - |