

INTERVAL SHEET

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VDMR Well No: 1505

Date rec'd: 2/25/66

Sample Interval: from 0 to 170

PROP: Timberly Heights
(Mitchell)

Number of samples: 17

COMP: Mitchell's Pump & Well Co.

Total Depth: 170

COUNTY: Prince George (Petersburg)

Oil or Gas: Water: XExploratory:

| From-To | From-To | From-To | From-To |
|-----------|---------|---------|---------|
| 0 - 10 | - | - | - |
| 10 - 20 | - | - | - |
| 20 - 30 | - | - | - |
| 30 - 40 | - | - | - |
| 40 - 50 | - | - | - |
| 50 - 60 | - | - | - |
| 60 - 70 | - | - | - |
| 70 - 80 | - | - | - |
| 80 - 90 | - | - | - |
| 90 - 100 | - | - | - |
| 100 - 110 | - | - | - |
| 110 - 120 | - | - | - |
| 120 - 130 | - | - | - |
| 130 - 140 | - | - | - |
| 140 - 150 | - | - | - |
| 150 - 160 | - | - | - |
| 160 - 170 | - | - | - |
| - | - | - | - |
| - | - | - | - |
| - | - | - | - |
| - | - | - | - |
| - | - | - | - |
| - | - | - | - |
| - | - | - | - |
| - | - | - | - |
| - | - | - | - |
| - | - | - | - |
| - | - | - | - |
| - | - | - | - |
| - | - | - | - |

All intervals have both washed and unwashed samples.

OWNER: J. J. Mitchell, Jr. (Timberly Heights)
DRILLER: Mitchell's Well & Pump Company
COUNTY: Prince George (Petersburg)

VDMR #1505
WWCR #158
TOTAL DEPTH: 170'

GEOLOGIC LOG

Columbia Group (0-20')

- 0-10 Sand — orange-brown, argillaceous; about 5% poorly rounded granules and small pebbles; very-fine- to very-coarse-grained, poorly sorted, angular to subangular; moderately arkosic (fresh, white potassic feldspar), slightly micaceous; scattered plant fragments.
- 10-20 "

Chesapeake Group (20-60')

- 20-30 Sand — gray, very argillaceous; very-fine- to fine-grained, fairly well sorted, subangular; slightly feldspathic and phosphatic; trace of muscovite; scattered bits of plant material.
- 30-40 with small amount molluscan shell detritus.
- 40-50 with moderate amount molluscan shell detritus and a few foraminifers.
- 50-60 Sand — greenish-gray, very argillaceous; very-fine- to coarse-grained; poorly sorted, poorly rounded; comminuted shell moderately abundant; a few echinoid spines and foraminifers.

Potomac Group (60-170')

- 60-70 Sand — light-gray, slightly argillaceous, about 10% granules and small pebbles; fine- to very-coarse-grained moderately sorted (skewed coarse), angular to subrounded; slightly arkosic and lithic; small amounts coarse garnet and muscovite; some pelecypod fragments and echinoid spines.
- 70-80 coarser-grained, more angular, no shell fragments.
- 80-90 "
- 90-100 Clay — grayish-green, very sandy, scattered rounded pebbles; sand coarse-grained, poorly sorted and rounded, arkosic.
- 100-110 Clay — reddish-brown, with about 10% coarse, subrounded, arkosic sand.

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#1505

110-120 Clay and Sand — subequal amounts of light-brown clay and fine- to very-coarse-grained, rather poorly sorted, variably rounded, arkosic sand.

120-130 "

130-140 less sand and more clay.

140-150 Clay — grayish-brown; slightly sandy.

150-160 Sand — gray, clean; coarse-grained, well-sorted, subrounded; arkosic (abundant fresh potassic feldspar).

160-170 moderately argillaceous, more poorly sorted.

GEOLOGIC SUMMARY

| <u>ROCK UNIT</u> | <u>AGE</u> |
|------------------------|----------------------|
| 0-20 Columbia Group | Pliocene-Pleistocene |
| 20-60 Chesapeake Group | Miocene |
| 60-170 Potomac Group | Lower Cretaceous |

Virginia Division of Mineral Resources
Robert H. Teifke, Geologist
March 22, 1966

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DRILLER: Mitchell's Well & Pump Company
COUNTY: Prince George (Petersburg)

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WWCR #158
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