

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

W# 4498
C# 189

MAILING ADDRESS:

DIVISION OF MINERAL RESOURCES

OFFICE ADDRESS:

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Charlottesville, VA 22903

JAMES L. CALVER, COMMISSIONER

McCormick Road
Charlottesville, Virginia

WATER WELL COMPLETION REPORT

OWNER: Thacker Logging - J. Lee Thacker Mailing Address: Disputana, VA. 23842

TENANT: same Mailing Address: _____

DRILLER: J. J. Mitchell, III Mailing Address: 16815 Happy Hill Rd. Col. Hgts. Va. 23834

WELL LOCATION: County Prince George Approx. _____ feet _____ miles _____ (direction): of
Left off Rt. 460 behind Firehouse in Disputana
which is between Rt. 619 & 625 towards Norfolk. _____ feet _____ miles _____ (direction): of

(GIVE DIRECTION AND DISTANCE IN FEET OR MILES FROM TWO REFERENCE POINTS - ROADS, TOWNS, RIVERS, ETC. - ON COUNTY HIGHWAY OR OTHER MAP.)

DATE STARTED: August 1975 DATE COMPLETED: August 1975

TYPE OF DRILL RIG USED: cable tool TOTAL DEPTH 155' feet

WATER LEVEL: Stands 51 feet below surface OR
has NATURAL flow of _____ gallons per minute.

YIELD TEST: Method pumped
Drawdown 110' pipe took no air
Rate 25 gal. per min.
Duration 4 hrs., _____ min.

HOLE SIZE: 7 inches from 0 to 12 feet
4 inches from 12 to 155 feet
_____ inches from _____ to _____ feet

WATER ZONES: from _____ to _____ feet
from _____ to _____ feet
from _____ to _____ feet

SCREEN SIZE: 3 3/4 inches from 145 to 155 feet
with blank above
_____ inches from _____ to _____ feet
_____ inches from _____ to _____ feet

WATER: Color _____ Taste _____
Odor _____ Temp. _____ °F

CASE SIZE: 4 inches from 0 to 145 feet
_____ inches from _____ to _____ feet
_____ inches from _____ to _____ feet

WELL TO SUPPLY: (check one) Home _____
Farm _____ Town _____ School _____
Industry _____ Other for shop

GROUTING: Method _____
Material Poured in sand and gravel Depth 12 feet

WATER ANALYSIS AVAILABLE: Yes _____ No _____

PUMP: Type _____
Capacity _____ gal. per min.
Depth of intake _____ feet

DRILL CUTTINGS SAVED: Yes X No _____

(DRILL CUTTINGS SHOULD BE COLLECTED AT 10 FOOT INTERVALS. THESE SAMPLES MAY BE SHIPPED TO THIS OFFICE EXPRESS COLLECT. SAMPLE BAGS ARE FURNISHED FREE OF CHARGE UPON REQUEST.)

REMARKS: _____

OWNER: Thacker Logging
DRILLER: Mitchell's
COUNTY: Prince George
(Disputanta)

W#: 4498
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TOTAL DEPTH: 155'

GEOLOGIC LOG

Depth
(feet)

- 0-1 Sand — yellowish gray; moderate clay; medium to coarse grained; subangular to subrounded; moderately well sorted; quartz; some feldspar; few opaques.
- 1-10 Sand — dark yellowish orange; moderate staining; moderate clay; medium to coarse grained; subangular to subrounded; moderately well sorted; quartz; feldspar; 2% glauconite.
- 10-20 As above.
- 20-30 Sand — off white; slightly clayey; medium to very coarse grained, some fine grains, some granules; subangular to subrounded; moderately sorted; quartz; feldspar; few grains of glauconite.
- 30-40 As above except medium grained to granular, some fine grains; poorly sorted.
- 40-50 Sand — dusky yellow; abundant clay; medium grained; subangular to subrounded; well sorted; quartz; 3% glauconite; 2% shell fragments; some spines; black phosphatic material; ostracode.
- 50-60 Sand — light olive gray; moderate clay; fine to medium grained; subangular to subrounded; well sorted; quartz; 7% shell fragments; some black phosphatic material; few grains of glauconite.
- 60-70 Sand — olive light gray; slightly clayey; fine to medium grained; subangular to subrounded; well sorted; quartz; 5% shell fragments; some black phosphatic material; few spines.
- 70-80 As above plus Cibicides.
- 80-90 Sand — dark grayish olive; moderate clay; very fine grained; subangular to rounded; well sorted; quartz; 10% glauconite; some shell fragments; some black phosphatic material; few spines.
- 90-100 Sand — dark grayish olive; moderate clay; fine to medium grained; subangular to rounded; moderately well sorted; quartz; 15% glauconite; 2% shell fragments; some black phosphatic material; few spines; forams (inc. Nonion).
- 100-110 Sand — dark grayish olive; moderate clay; medium grained; subangular to rounded; well sorted; quartz; 30% glauconite; 15% shell fragments; some spines; some black phosphatic material; ostracodes; foram.
- 110-120 As above plus 5% quartz granules, few pebbles; 2% shell fragments.

Depth
(feet)

- 120-130 Sand — light olive gray; moderate clay; medium grained to granular, few pebbles; subangular to subrounded; moderately sorted; quartz; 3% glauconite; some feldspar; few shell fragments.
- 130-140 Sand — white; medium to very coarse grained, 5% granules; subangular to subrounded; moderately sorted; quartz; feldspar; 2% glauconite; few shell fragments.
- 140-150 Sand — white; slightly clayey; coarse grained to granular (30%), some pebbles; subrounded; moderately sorted; quartz; feldspar.
- 150-155 Sand — white; medium to very coarse grained, few granules; subangular to subrounded; moderately sorted; quartz; feldspar; 2% glauconite; few grains of garnet.

Logged by: Michael T. Currie

GEOLOGIC SUMMARY

<u>Depth (feet)</u>	<u>Thickness (feet)</u>	<u>Rock Unit</u>	<u>Time Rock Unit</u>
0-20	20	Moorings "Unit"	Pleistocene
20-50	30	Yorktown Formation	Pliocene-Miocene
50-80	30	Calvert Formation	Miocene-Eocene
80-120	40	Nanjemoy Formation	Eocene
120-155	35+	Patuxent Formation	Cretaceous

VIRGINIA DIVISION OF MINERAL RESOURCES
David A. Hubbard, Jr., Geologist
August 18, 1978