

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

W# 4019
C# 178

MAILING ADDRESS:

Box 3667
Charlottesville, VA 22903

DIVISION OF MINERAL RESOURCES

JAMES L. CALVER, COMMISSIONER

WATER WELL COMPLETION REPORT

OFFICE ADDRESS:

McCormick Road
Charlottesville, Virginia

OWNER: Friend Sand and Gravel Co., Inc. Mailing Address: P.O. Box 28, Petersburg, VA.

TENANT: Puddleduck Farm Mailing Address: _____

DRILLER: Mitchell's Well & Pump Co., Inc. Mailing Address: Rt. #1, Box 110, Col. Hgts., VA
Petersburg City

WELL LOCATION: County Prince George Approx Rt. 36 1/4 miles East ~~XXXXXXXXXX~~
and turn left on Puddleduck Road.
limits, _____ and _____ 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 1973 DATE COMPLETED: August 1973

TYPE OF DRILL RIG USED: Cable Tool TOTAL DEPTH 130 feet

WATER LEVEL: Stands 30 feet below surface OR
has NATURAL flow of _____ gallons per minute.

YIELD TEST: Method Pumped
Drawdown 90 feet
Rate 50 gal. per min.
Duration 33 3/4 hrs., _____ min.

HOLE SIZE: 12 inches from 0 to 50 feet
_____ inches from _____ to _____ feet
_____ inches from _____ to _____ feet

WATER ZONES: from not continuous feet
from _____ to _____ feet
from _____ to _____ feet

SCREEN SIZE: 5 inches from 110 to 130 feet
with blank above
_____ inches from _____ to _____ feet
_____ inches from _____ to _____ feet

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

CASE SIZE: 6 inches from _____ to 102'6" feet
_____ inches from _____ to _____ feet
_____ inches from _____ to _____ feet

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

GROUTING: Method Pumped under pressure
Material cement & water depth 50 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: Friend Sand and Gravel Co.
(Puddleduck Farm)
DRILLER: Mitchell's W & P Co.
COUNTY: Prince George (Petersburg)

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Total Depth 130'

GEOLOGIC LOG

Depth (feet)

NORFOLK FORMATION (0-20')

0-10 Sand - dark yellowish orange; slightly stained; slightly clayey; fine to coarse grained; subangular to subrounded; moderately sorted; quartz; feldspar; 3% opaques; muscovite.

10-20 Gravel and sand - off white; slightly clayey; medium grained to gravel; subangular to subrounded; poorly sorted; quartz; feldspar; few grains of glauconite; few grains of garnet.

PATUXENT FORMATION (20-130')

20-30 Sand - white; moderate clay; medium to very coarse grained, some granules, few pebbles; subangular to subrounded; moderately sorted; quartz; feldspar.

30-40 As above except slightly clayey.

40-50 Sand-off white; moderate clay; coarse grained to granular, some medium grains, 15% pebbles, subrounded; poorly sorted; quartz; feldspar.

50-60 Sand - white; medium grained to granular (30%), some pebbles; subangular to subrounded; moderately sorted; quartz; feldspar.

60-70 As above except slightly clayey; 20% granules; no pebbles.

70-80 As above except no clay; 35% granules.

80-90 Gravel and sand - white; very coarse grained to gravel, some coarse grains; subrounded; moderately sorted; quartz; feldspar.

90-100 As above except granular to gravel, some very coarse grains.

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Depth
(feet)

- 100-110 Sand - white; medium grained to granular, some pebbles; subangular to subrounded; moderately sorted; quartz, feldspar.
- 110-120 Sand - white; medium to coarse grained; subangular to subrounded; moderately well sorted; quartz; feldspar.
- 120-130 Sand - white; coarse to very coarse grained, some medium grains, some granules; subangular to subrounded; moderately sorted; quartz; feldspar.

Logged by: Michael T. Currie

GEOLOGIC SUMMARY

<u>Thickness (feet)</u>	<u>Rock Unit</u>	<u>Time Rock Unit</u>
20	Norfolk Formation	Pleistocene
110+	Patuxent Formation	Cretaceous

VIRGINIA DIVISION OF MINERAL RESOURCES
David A. Hubbard, Jr., Geologist
August 11, 1978