

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

W#: 4904
C#: 206

MAILING ADDRESS:

DIVISION OF MINERAL RESOURCES

OFFICE ADDRESS:

B-3667
Charlottesville, VA 22903

JAMES L. CALVER, COMMISSIONER

McCormick Road
Charlottesville, Virginia

WATER WELL COMPLETION REPORT

OWNER: Ernest Childers
Walls Construction Co., Inc. Mailing Address: Rt. 1, Box 107A4
Prince George, VA. 23875

TENANT: _____ Mailing Address: _____

DRILLER: J. J. Mitchell, II Mailing Address: 16815 Happy Hill Rd.
Colonial Heights, VA. 23834

WELL LOCATION: County Prince George Approx. _____ feet _____ miles (direction) of
Lot 7, Block B1
Prince George Country Club Estates and _____ 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: July 1977 DATE COMPLETED: July 1977

TYPE OF DRILL RIG USED: Combination TOTAL DEPTH 171 feet

WATER LEVEL: Stands 46'6" feet below surface OR
has NATURAL flow of _____ gallons per minute.

YIELD TEST: Method Pumped
Drawdown 88 feet pump pipe
Rate 12 gal. per min.
Duration 3 hrs., _____ min.

HOLE SIZE: 7 1/2 inches from 0 to 14 feet
5 1/2 inches from 14 to 171 feet
_____ inches from _____ to _____ feet

WATER ZONES: from 149'4" to 171 feet
from _____ to _____ feet
from _____ to _____ feet

SCREEN SIZE: 4 inches from 149'4" to 171 feet
slotted pipe
_____ inches from _____ to _____ feet
_____ inches from _____ to _____ feet

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

CASE SIZE: 4 inches from +1 to 171 feet
_____ inches from _____ to _____ feet
_____ inches from _____ to _____ feet

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

GROUTING: Method _____
Material Cement, sand Depth 10 feet
and gravel

WATER ANALYSIS AVAILABLE: Yes _____ No _____

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

DRILL CUTTINGS SAVED: 18 Yes 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: _____

VIRGINIA DIVISION OF MINERAL RESOURCES
Box 3667, Charlottesville, VA 22903

INTERVAL SHEET

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Well Repository No: W#: 4904

Date rec'd: 8/29/78 Date Processed: 10/14/77

C#: 206
Sample Interval: from:0 to:171

PROPERTY: Ernest Childers (Walls Const. Co.)

Number of samples: 18

COMPANY: J. J. Mitchell

Total Depth: 171'

COUNTY: Prince George (Prince George)

Oil or Gas: Water X Exploratory:

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 - 171	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

Washed and unwashed samples.

OWNER: Ernest Childers
(Walls Const. Co.)
DRILLER: J. J. Mitchell
COUNTY: Prince George

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TOTAL DEPTH: 171'
QUAD.: Prince George

GEOLOGIC LOG

Depth
(feet)

- 0-10 Sand — dark yellowish orange; slightly clayey; medium to coarse grained, some granules; subangular to subrounded; moderately well sorted; quartz; feldspar; few opaques.
- 10-20 Sand — dark yellowish orange; abundant clay-dark yellowish orange, pale reddish brown; fine to coarse grained, some granules, few pebbles; subangular to subrounded; poorly sorted; quartz; feldspar; some opaques.
- 20-30 Clay — light olive gray, dark yellowish orange; slightly sandy; fine to coarse grained; subangular to subrounded; moderately sorted; quartz; some feldspar; few grains of glauconite.
- 30-40 Clay — pale yellowish olive, light olive gray; moderate sand; fine to coarse grained; subangular to subrounded; moderately sorted; quartz; some glauconite; some black phosphatic material; spines; few grains of feldspar; foram.
- 40-50 Clay — pale yellowish olive, light olive gray, dark yellowish orange; abundant sand; fine to medium grained; subangular to subrounded; moderately well sorted; quartz; 2% glauconite; some black phosphatic material; spines.
- 50-60 Sand — pale yellowish olive; abundant clay-pale yellowish olive, light gray, dark yellowish orange; fine to medium grained; subangular to subrounded; well sorted; quartz; some glauconite; some black phosphatic material; some shell fragments; spines; ostracode.
- 60-70 Clay — light olive gray; abundant sand; fine to medium grained; subangular to subrounded; moderately well sorted; 35% shell fragments; quartz; spines; some glauconite; some black phosphatic material; some weathered sandy limestone; forams scarce (inc. Quinqueloculina).
- 70-80 Sand and shell hash — olive light gray; moderate clay; fine to medium grained; subangular to subrounded; moderately well sorted; 50% shell fragments; quartz; some black phosphatic material; some spines; glauconite.
- 80-90 As above except fine to coarse grained; moderately sorted.

OWNER: Ernest Childers
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Depth
(feet)

- 90-100 Gravel — multicolored; slightly clayey; some fine to coarse grained sand; subangular to subrounded; moderately well sorted; quartz; glauconite 10% of sand sized fraction; few grains of feldspar; muscovite.
- 100-110 No sample.
- 110-120 Sand — light olive gray; slightly clayey; medium grained to granular, 10% pebbles; subangular to subrounded; poorly sorted; quartz; feldspar; some shell fragments; few spines.
- 120-130 Gravel — light gray; slightly clayey; some fine to coarse grained sand; subangular to subrounded; moderately sorted; quartz; feldspar; few shell fragments; few grains of glauconite; muscovite.
- 130-140 Sand — light olive gray; slightly clayey; coarse to very coarse grained, some medium grains, 5% granules, 5% pebbles; subrounded; moderately sorted; quartz; feldspar; few shell fragments.
- 140-150 Sand — light olive gray; slightly clayey; medium to very coarse grained, some fine grains, 7% granules, 5% pebbles; subangular to subrounded; poorly sorted; quartz; feldspar; 3% glauconite; some shell fragments; few black phosphatic fragments; few spines; few grains of garnet; muscovite; pyrite.
- 150-160 Sand — light olive gray; slightly clayey; medium to very coarse grained, 7% granules, some pebbles; subangular to subrounded; moderately sorted; quartz; feldspar; 2% glauconite; some shell fragments; few black phosphatic fragments; muscovite.
- 160-170 Sand — light olive gray; slightly clayey; medium to coarse grained, some granules; subrounded; moderately sorted; quartz; feldspar; some glauconite; some shell fragments.
- 170-171 Sand — olive light gray; moderate clay; fine to coarse grained; subangular to subrounded; moderately sorted; quartz; 35 % shell fragments; some black phosphatic material; some sandy limestone fragments; spines; glauconite (Note: This sample appears to be out of place).

Logged by: Michael T. Currie

OWNER: Ernest Childers
(Walls Const. Co.)

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GEOLOGIC SUMMARY

<u>Depth</u> <u>(feet)</u>	<u>Thickness</u> <u>(feet)</u>	<u>Rock Unit</u>	<u>Time Rock Unit</u>
0-20	20	Moorings "Unit"	Pleistocene
20-100	80	Calvert Formation	Miocene-Eocene
100-110	10	No Sample	
110-171	61+	Patuxent Formation	Cretaceous

VIRGINIA DIVISION OF MINERAL RESOURCES
David A. Hubbard, Jr., Geologist
September 19, 1978