

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

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: Van E. Harmison Mailing Address: Rt. #2, Box 46-A-47 Prince George, VA. 23875

TENANT: Van E. Harmison Mailing Address: _____

DRILLER: Mitchell's Well & Pump Co., Inc. Mailing Address: Rt. #1, Box 110 Col. Hgts, Va. 23834

WELL LOCATION: County Prince George Approx. 1 ~~xxxx~~ miles _____ (direction) of _____
off Rt. #460 in direction of Kings Subdivision at _____ feet _____
corner of Rt. #1501 and #1504. 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: May 1974 DATE COMPLETED: May 1974

TYPE OF DRILL RIG USED: Cable tool TOTAL DEPTH 197 feet

WATER LEVEL: Stands 45 feet below surface OR
has NATURAL flow of _____ gallons per minute

YIELD TEST: Method Pumped
Did not drawdown to 80'
Drawdown _____ feet
Rate 25 gal. per min.
Duration 12 hrs., _____ min.
not continuous

HOLE SIZE: 4 inches from 0 to 197 feet
_____ inches from _____ to _____ feet
_____ inches from _____ to _____ feet

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

SCREEN SIZE: _____ inches from _____ to _____ feet
_____ inches from _____ to _____ feet
_____ inches from _____ to _____ feet

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

CASE SIZE: 4 inches from 0 to 182'10" feet
21' 1" of slotted pipe
3 inches from _____ to _____ feet
_____ inches from _____ to _____ feet

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

GROUTING: Method _____
Material _____ Depth _____ feet

WATER ANALYSIS AVAILABLE: Yes _____ No _____

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

DRILL CUTTINGS SAVED: 19 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: _____

LOG

FURNISHED BY: _____ DATE: _____

DEPTH (feet)		TYPE OF ROCK OR SOIL PENETRATED (gravel, clay, etc., hardness, color, etc.)	REMARKS (water, caving, shot, screen, sample, etc.)
FROM	TO		
0	10	tan dirt	
10	20	Ditto	
20	30	"	
30	40	gray dirt -shell fragments	
40	50	Ditto	
50	60	gray mud-shell fragments	
60	70	dark gray mud	
70	80	Ditto	
80	90	gray sand	
90	100	gray dirt	
100	110	Ditto	
110	120	"	
120	130	"	
130	140	"	
140	150	gray sand	
150	160	Ditto	
160	170	"	
170	180	"	
180	197	"	

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

INTERVAL SHEET

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Well Repository No: W-4223

C- 181

Date rec'd: 7/18/74 Date Processed: 7/16/75

Sample Interval: from:0 to:190

PROPERTY: Van E. Harmison

Number of samples: 19

COMPANY: Mitchell W& P Co.

Total Depth: 197'

COUNTY: Prince George

Oil or Gas: Water: 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- 170	-	-	-
170- 180	-	-	-
180- 190	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

All intervals have both washed and unwashed samples.

OWNER: Van E. Harmison
DRILLER: Mitchell W & P Co.
COUNTY: Prince George

W#: 4223
C#: 181
TOTAL DEPTH: 197'

GEOLOGIC LOG

Depth (feet)

MOORINGS "UNIT" (0-30')

- 0-10 Clay and sand — dark yellowish orange; abundant clay; moderate sand; medium to coarse grained, few granules; subangular to subrounded; moderately well sorted; quartz; few opaques.
- 10-20 Sand — dark yellowish orange; moderate clay; fine to very coarse grained, some granules, few pebbles; subangular to subrounded; poorly sorted; quartz; feldspar; some opaques.
- 20-30 Sand — dark yellowish orange; slightly clayey; medium grained, some coarse grains, few granules; subangular to subrounded; moderately well sorted; quartz; feldspar; some opaques; muscovite.

CALVERT FORMATION (30-80')

- 30-40 Sand — olive light gray; abundant clay; fine to medium grained; subangular to subrounded; well sorted; quartz; 2% shell fragments; some black phosphatic material; few spines; ostracode.
- 40-50 Sand — light olive gray; moderate clay; medium grained; subangular to subrounded; well sorted; quartz; 10% shell fragments; 3% black phosphatic material; some spines; few grains of glauconite; ostracodes.
- 50-60 Sand — light olive gray; moderate clay; fine to medium grained; subangular to subrounded; well sorted; quartz; 5% shell fragments; some black phosphatic material; some spines; foram.
- 60-70 Sand — olive light gray; slightly clayey; fine grained; subangular to subrounded; well sorted; quartz; 2% shell fragments; some black phosphatic material; few grains of glauconite; few spines.
- 70-80 Sand — olive light gray; moderate clay; very fine grained; subangular to subrounded; well sorted; quartz; 5% black phosphatic material; few grains of glauconite.

PATUXENT FORMATION (80-190')

- 80-90 Sand — white; medium to very coarse grained, some granules; subangular to subrounded; moderately sorted; quartz; feldspar; some glauconite; few black phosphatic fragments.
- 90-100 Sand — off white; moderate clay; coarse to very coarse grained; 7% granules; subrounded; moderately well sorted; quartz; feldspar; few grains of glauconite.
- 100-110 As above except 10% granules.

Depth (feet)

110-120 Sand — white; abundant clay; coarse grained to granular, some pebbles; subrounded; moderately sorted; quartz; feldspar.

120-130 Sand — off white; moderate clay; coarse to very coarse grained; 10% granules, few pebbles; subrounded; moderately sorted; quartz; feldspar.

130-140 Sand — white; moderate clay; coarse grained to granular, some medium grains, few pebbles; subrounded; moderately sorted; quartz; feldspar.

140-150 Sand — white; medium to coarse grained, some fine grains; subangular to subrounded; moderately sorted; quartz; feldspar; garnet.

150-160 Sand — white; coarse grained to granular (20%); subrounded; moderately well sorted; quartz; feldspar.

160-170 As above except coarse to very coarse grained, 10% granules; few grains of garnet.

170-180 Sand — white; coarse grained to granular (30%); subrounded; moderately well sorted; quartz; feldspar; some garnet.

180-190 As above except 20% granules.

190-197 No Sample.

Logged by: Michael T. Currie

GEOLOGIC SUMMARY

Thickness (feet)	<u>ROCK UNIT</u>	<u>TIME ROCK UNIT</u>
30	Moorings "Unit"	Pleistocene
50	Calvert Formation	Miocene-Eocene
110+	Patuxent Formation	Cretaceous
7	No Sample	

VIRGINIA DIVISION OF MINERAL RESOURCES
David A. Hubbard, Jr., Geologist
August 14, 1978