W# 4224
C# 182

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

MAILING ADDRESS:
B 3667
Charlottesville, VA 22903

DIVISION OF MINERAL RESOURCES

JAMES L. CALVER, COMMISSIONER

WATER WELL COMPLETION REPORT

OFFICE ADDRESS:
McCormick Road
Charlottesville, Virginia

OWNER: W. H. Dodson Mailing Address: 2202 Perrin Ave. Pr. Geo. VA.23875
Will move to where well is on Rt. 614 in October

TENANT: W. H. Dodson Mailing Address: ~~Prince George, Va.~~

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

WELL LOCATION: County Prince George From Hopewell go on Rt.10 to Rt. 614. Approx. ____ feet/miles ____ (direction) of

Take left at Rt.614 & go approx. 2 miles and ____ feet/miles ____ (direction) of Well on right side.

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

DATE STARTED: June 1974 DATE COMPLETED: June 1974

TYPE OF DRILL RIG USED: Cable tool TOTAL DEPTH 257' feet

WATER LEVEL: Stands 90 feet below surface OR

has NATURAL flow of ____ gallons per minute.

YIELD TEST: Method Pumped
did not drawdown to 132'
Drawdown ____ feet
Rate 20 gal. per min.
Duration 24 hrs., ____ min.
not continuous

WATER ZONES: from ____ to ____ feet
from ____ to ____ feet
from ____ to ____ feet

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

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

WATER ANALYSIS AVAILABLE: Yes ____ No ____

DRILL CUTTINGS SAVED: Yes 25 X No ____

HOLE SIZE: 4 inches from 0 to 257 feet
____ inches from ____ to ____ feet
____ inches from ____ to ____ feet

SCREEN SIZE: ____ inches from ____ to ____ feet
____ inches from ____ to ____ feet
____ inches from ____ to ____ feet

CASE SIZE: 4 inches from 0 to 255'4" feet
____ inches from ____ to ____ feet
____ inches from ____ to ____ feet

GROUTING: Method ____
Material ____ Depth ____ feet

PUMP: Myers Type Submersible S2G72-7A
Capacity ____ gal. per min.
Depth of intake ____ feet

(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 OF WELL) OVER

LOG

FURNISHED BY: _____ DATE: _____

DEPTH (feet) FROM	TO	TYPE OF ROCK OR SOIL PENETRATED (gravel, clay, etc., hardness, color, etc.)	REMARKS (water, caving, shot, screen, sample, etc.)
			SAMPLE #
0	10	gray and tan dirt	1
10	20	orange dirt	2
20	30	gravel	3
30	40	Ditto	4
40	50	tanish dirt	5
50	60	gray dirt	6
60	70	Ditto	7
70	80	Ditto	8
80	90	Ditto	9
90	100	blackish dirt	10
100	110	Ditto	11
110	120	Ditto	12
120	130	gray mud	13
130	140	Ditto	14
140	150	Ditto	15
150	160	Ditto	16
160	170	black dirt	17
170	180	Ditto	18
180	190	black dirt-shell fragments	19
190	200	Ditto	20
200	210	gray sand	21
210	220	gray dirt-shell fragments	22
220	230	gray sand	23
230	240	Ditto	24
240	257	Ditto	25

(Use additional forms if necessary)

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

INTERVAL SHEET

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Well Repository No: W# 4224
C# 182

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

Sample Interval: from: 0 to: 257

PROPERTY: W. H. Dodson

Number of samples: 25

COMPANY: Mitchell W. & P. Co.

Total Depth: 257'

COUNTY: 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- 170	-	-	-
170- 180	-	-	-
180- 190	-	-	-
190 200			
-	-	-	-
200- 210	-	-	-
210- 220	-	-	-
220- 230	-	-	-
230- 240	-	-	-
240 257			

All intervals have both washed and unwashed samples.

OWNER:	W. H. Dodson	W# 4224
DRILLER:	Mitchell W & P Co.	C# 182
COUNTY:	Prince George	Total Depth: 257'

GEOLOGIC LOG

Depth (feet)	
MOORINGS "UNIT" (0-20')	
0-10	Sand - grayish orange, abundant clay; fine to medium grained with some coarse grains; subangular to subrounded; moderately well sorted; quartz; some opaques; few grains of feldspar.
10-20	Sand - dark yellowish orange; heavily stained; moderate clay; fine to coarse grained, few granules; subangular to subrounded; moderately sorted; quartz; feldspar; 2% glauconite; few opaques.
YORKTOWN FORMATION (20-50')	
20-30	Sand - pale yellow; fine grained to granular; subangular to subrounded; poorly sorted; quartz; 15% coquina fragments; feldspar; few spines.
30-40	Sand - white; fine to medium grained, some coarse grains; subangular to subrounded; moderately sorted; quartz; 35% coquina fragments; some glauconite.
40-50	Sand - dusky yellow; slightly clayey; medium grained; subangular to subrounded; well sorted; quartz; some black phosphatic material ; shell fragments; few grains of glauconite.
CALVERT FORMATION (50-90')	
50-60	Sand - light olive gray; slightly clayey; fine to medium grained; subangular to subrounded; well sorted; quartz; 2% black phosphatic material; some glauconite; few shell fragments; few spines.
60-70	As above except 3% black phosphatic material; some spines.
70-80	As above.
80-90	Sand - light olive gray; moderate clay; fine to coarse grained; subangular to subrounded; moderately sorted; quartz; 5% shell fragments; 3% black phosphatic material inc. fish tooth; few spines; forams.

Depth (feet)

NANJEMOY FORMATION (90-160')

90-100 Sand - olive light gray; moderate clay; fine to coarse grained; subangular to rounded; moderately sorted; quartz; 25% glauconite; 2% shell fragments; few spines; muscovite; forams (inc. Robulus); ostrocodes.

100-110 As above except 3% shell fragments.

110-120 Sand - olive light gray; moderate clay; medium to coarse grained, some fine grains; subangular to rounded; moderately sorted; quartz; 45% glauconite; some shell fragments; few spines; muscovite; ostrocodes.

120-130 Sand and clay - olive light gray; moderate clay; abundant sand; medium to coarse grained, some fine grains, some granules; subangular to rounded; moderately sorted; quartz; glauconite 40% of sand sized fraction; 20% shell fragments; spines; forams (inc. Quingueloculina); ostracode.

130-140 Clay - light olive gray; slightly sandy; fine to coarse grained; subrounded to rounded; moderately sorted; glauconite 70% of sand sized fraction; quartz; 3% muscovite; forams (inc. Robulus); ostracodes.

140-150 Clay - light olive gray, light gray; abundant sand; fine to coarse grained; rounded; moderately well sorted; glauconite 90% of sand sized fraction; quartz; some shell fragments; forams common (inc. Robulus, Dentaline, and Nodosaria).

150-160 As above except no Dentalina

MATTAPONI FORMATION (160-200')

160-170 Sand - olive light gray; moderate clay; fine to medium grained; subangular to rounded; moderately well sorted; 65% glauconite; quartz; some shell fragments; muscovite; forams rare (inc. Robulus).

170-180 As above except slightly clayey; 55% glauconite; no Robulus.

180-190 Sand - olive light gray; moderate clay; fine to medium grained, few granules; subangular to rounded; moderately well sorted; quartz; 40% glauconite; 3% shell fragments; muscovite.

190-200 Sand - olive light gray; moderate clay; fine to medium grained, few granules; subangular to rounded; moderately well sorted; 60% glauconite; quartz; 2% shell fragments.

Depth (feet)

PATUXENT FORMATION (200-257')

200-210 Sand - white; coarse grained to granular (30%), few pebbles; subrounded; moderately sorted; quartz; feldspar; few grains of garnet; glauconite; pyrite.

210-220 Sand - yellowish gray; slightly clayey; fine grained to granular (20%), some pebbles; subangular to subrounded; poorly sorted; quartz; feldspar; 5% coquina fragments; 2% glauconite; few grains of garnet.

220-230 Sand - white; coarse grained to granular (25%), few pebbles, subrounded; moderately sorted; quartz; feldspar.

230-240 As above plus some medium grains, some garnet.

240-257 Sand - white; coarse to very coarse grained, some medium grains, 5% granules; subrounded; moderately sorted; quartz; feldspar; 2% glauconite; few grains of garnet.

Logged by: Michael T. Currie

GEOLOGIC SUMMARY

Thicksnes (feet)	Rock Unit	Time Rock Unit
20	Moorings "Unit"	Pleistocene
30	Yorktown Formation	Pliocene - Miocene
40	Calvert Formation	Miocene - Eocene
70	Nanjemoy Formation	Eocene
40	Mattaponi Formation	Eocene - Cretaceous
57 +	Patuxent Formation	Cretaceous

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