

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

W# 4891
C# 202

MAILING ADDRESS:

Box 3667
Charlottesville, VA 22903

DIVISION OF MINERAL RESOURCES

JAMES L. CALVER, COMMISSIONER

OFFICE ADDRESS:

McCormick Road
Charlottesville, Virginia

WATER WELL COMPLETION REPORT

23875

OWNER: Mr. Joseph Start Mailing Address: 1505 Hickory Hill Road, Pr. Geo., VA.

TENANT: _____ Mailing Address: _____

23834

DRILLER: J. J. Mitchell, Jr. Mailing Address: 16815 Happy Hill Road, Col. Hgts, VA

WELL LOCATION: County Prince George, VA. Approx. _____ feet _____ miles _____ (direction) of _____
4300 S. Crater Road - Rt. 301 S.

_____ 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: January 1977 DATE COMPLETED: January 1977

TYPE OF DRILL RIG USED: cable tool TOTAL DEPTH 174' feet

WATER LEVEL: Stands 40 feet below surface OR

has NATURAL flow of _____ gallons per minute.

YIELD TEST: Method pumped

84' of pump pipe used
Drawdown _____ feet

Rate 12 gal. per min.

Duration 6½ hrs., _____ min.

HOLE SIZE: 7½ inches from 0 to 12 feet

4 inches from 12 to 174 feet

_____ inches from _____ to _____ feet

SCREEN SIZE: _____ inches from _____ to _____ feet

_____ inches from _____ to _____ feet

_____ inches from _____ to _____ feet

CASE SIZE: 4 inches from +1 to 171½ feet

_____ inches from _____ to _____ feet

_____ inches from _____ to _____ feet

WATER: Color _____ Taste _____

Odor _____ Temp. _____ °F

WELL TO SUPPLY: (check one) Home home

Farm _____ Town _____ School _____

Industry _____ Other _____

GROUTING: Method _____

Material surface to 12 feet

PUMP: Type _____

Capacity _____ gal per min

Depth of intake _____ feet

WATER ANALYSIS AVAILABLE: ~~xxx~~ No _____

DRILL CUTTINGS SAVED: Yes ~~xx~~ _____

(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

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	orangish dirt	1
10	20	orangish dirt	2
20	30	gray mud	3
30	40	shells	4
40	70	gray mud - shells	5,6,7
70	90	gray mud - shell fragments	8&9
90	110	greenish mud	10 & 11
110	130	black mud	12 & 13
130	174	gray sand & gravel	14,15,16,17

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 Box 3667, Charlottesville, VA 22903

INTERVAL SHEET

Page 1 of 1
 Date rec'd: 8/29/77 Date Processed: 9/19/77
 PROPERTY: Joseph Start
 COMPANY: J. J. Mitchell
 COUNTY: Prince George (Petersburg)

W# 4891
 Well Repository No: C# 202

Sample Interval: from 0 to: 170
 Number of samples: 17
 Total Depth: 174'
~~XXXXXXXXXX~~ 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	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

Washed and unwashed samples

Owner: Joseph Start
Driller: J. J. Mitchell
County: Prince George
(Petersburg)

W# 4891
C# 202
Total Depth: 170'
Quad: Petersburg

Depth
(feet)

GEOLOGIC LOG

- 0-10 Sand - dark yellowish orange; slightly clayey; fine to coarse grained; subangular to subrounded; moderately sorted; quartz; feldspar; few opaques.
- 10-20 Sand - grayish orange; slightly clayey; fine to very coarse grained, some granules; subangular to subrounded; poorly sorted; quartz; feldspar; few opaques.
- 20-30 Clay - olive light gray, dark yellowish orange; moderate sand; medium to coarse grained, few granules; subangular to subrounded; moderately sorted; quartz; some feldspar; few grains of glauconite; few black phosphatic fragments.
- 30-40 Shell hash - off white; slightly clayey; slightly sandy; medium to coarse grained; subangular to subrounded; moderately well sorted; 80% shell fragments; quartz; few grains of glauconite; few grains of feldspar.
- 40-50 Clay - olive light gray; slightly sandy; medium to coarse grained; subangular to subrounded; moderately well sorted; 15% shell fragments; quartz; few black phosphatic fragments; foram.
- 50-60 Clay - olive light gray; abundant sand; fine to medium grained; subangular to subrounded; moderately well sorted; quartz; 20% shell fragments; some black phosphatic material; forams (inc. Quinqueloculina).
- 60-70 Sand - light gray; slightly clayey; fine to medium grained; subangular to subrounded; well sorted; quartz; 30% shell fragments; some black phosphatic material; some spines; forams scarce (inc. Quinqueloculina); ostracodes.
- 70-80 Sand - greenish gray; slightly clayey; fine grained; subangular to subrounded; well sorted; quartz; 7% shell fragments; some black phosphatic material; few spines; few grains of glauconite.
- 80-90 As above except 3% shell fragments; muscovite.
- 90-100 As above except dark greenish gray; some shell fragments; some glauconite.
- 100-110 As above except 2% glauconite; pyrite.
- 110-120 Sand - grayish black; moderate clay-grayish black, dark greenish gray; fine grained; subangular to subrounded; well sorted; quartz; some glauconite; few shell fragments; few black phosphatic fragments.

- 120-130 Sand - dark greenish gray; moderate clay - dark greenish gray; grayish black; fine grained, some coarse grains, some granules, some pebbles; subangular to subrounded; moderately sorted; quartz; 3% glauconite; some black phosphatic material; few shell fragments.
- 130-140 Sand - white; fine to very coarse grained, some granules, few pebbles; subangular to subrounded; poorly sorted; quartz; feldspar; 5% glauconite; few black phosphatic fragments.
- 140-150 Sand - white; coarse grained to granular; some medium grains, few pebbles; subrounded; moderately sorted; quartz; feldspar; some glauconite.
- 150-160 As above except medium to coarse grained, some granules, few pebbles.
- 160-170 Sand - off white; coarse grained to gravel; subrounded; moderately sorted; quartz; feldspar.
- 170-174 No sample.

Logged by: Michael T. Currie

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
100-130	30	Nanjemoy Formation	Eocene
130-170	40+	Patuxent Formation	Cretaceous

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