

COMMONWEALTH OF VIRGINIA  
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

W# 4918

C# 221

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

OWNER: Safeway Stores, Inc. #1 Mailing Address: 425 Madison Street  
Oakland, Calif. 94660

TENANT: Mailing Address:

DRILLER: Sydnor Hydrodynamics Inc. Mailing Address: P.O. Box 27186  
Richmond, VA 23223

WELL LOCATION: County Chesterfield Approx. 1500 feet ~~miles~~ south (direction) of  
Route 10 and 1.5 miles East (direction) of I-95

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

DATE STARTED: 3/7/77 DATE COMPLETED: 3/31/77

TYPE OF DRILL RIG USED: Rotary TOTAL DEPTH 281 feet

WATER LEVEL: Stands 93-8" feet below surface OR  
has NATURAL flow of 20 gallons per minute.

YIELD TEST: Method pump  
Drawdown 29.7 feet  
Rate 50 gal. per min.  
Duration 10 hrs., min.

WATER ZONES: from 144 to 154 feet  
from 164 to 184 feet  
from 218 to 228 feet

WATER: Color Taste  
Odor Temp. °F

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

WATER ANALYSIS AVAILABLE: Yes x No

DRILL CUTTINGS SAVED: 28 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: Depth of completed well 233'

HOLE SIZE: 83/4 inches from 0 to 281' feet

inches from to feet

inches from to feet

SCREEN SIZE: 4 inches from 144 to 154 feet

4 inches from 164 to 184 feet

4 inches from 218 to 228 feet

CASE SIZE: 4 inches from +2 to 144 feet

4 inches from 154 to 164 feet

4 inches from 184 to 218 feet

4 inches from 228 to 233 feet

GROUTING: Method

Material Depth 50 feet

PUMP: Type

Capacity gal per min

Depth of intake feet

# LOG

FURNISHED BY: Lonnie Cox, 2111 Magnolia, Rich. VA. 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	2	Red Clay	
2	12	Gray Clay	
112	15	Coarse Sand	
15	42	Red and Gray Clay	
42	90	Tough Blue Clay	
90	122	Tough GRay and Blue Clay	
122	156	Large Gravel	
156	185	Coarse Sand and Gravel	
185	210	Tough Gray Clay	
210	227	White Sandy Clay	
227	231	Large Gravel	
231	250	Gray Sandy Clay	
250	280	Hard Sand and Clay	
280	281	Bedrock	

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

INTERVAL SHEET

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Well Repository No: W# 4918  
 C# 221

Date rec'd: 8/29/77 Date Processed: 11/9/77

Sample Interval: from: 0 to: 281

PROPERTY: Safeway Stores Inc. #1

Number of samples: 28

COMPANY: Sydnor Hydrodynamics

Total Depth: 281'

COUNTY: Chesterfield (Chester)

~~XXXXXXXXXX~~ Water: ~~XXXXXXXXXX~~

From-To	From-To	From-To	From-To
0 - 10	-	-	-
10 - 20	-	-	-
20 - 30	-	-	-
30 - 40	-	-	-
40 - 50	-	-	-
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 - 250	-	-	-
250 - 260	-	-	-
260 - 270	-	-	-
270 - 281	-	-	-

Washed and unwashed samples.

Owner: Safeway Stores, Inc. #1  
Driller: Sydnor Hydrodynamics  
County: Chesterfield  
(Chester)

W# 4918  
C# 221  
Total Depth: 281'  
Quad: Chester

Depth  
(feet)

GEOLOGIC LOG

- 0-10 Sand - very light brown; moderate clay - light brown, dark yellowish orange, yellowish gray; fine to medium grained, some coarse grains, few granules; subangular to subrounded; moderately sorted; quartz; feldspar; few opaques.
- 10-20 As above except dark yellowish orange; some olive light gray clay clasts; few pebbles.
- 20-30 Sand - grayish orange; slightly stained; moderate clay - olive light gray; coarse to very coarse grained, some fine grains, some medium grains, some granules; subangular to subrounded; poorly sorted; quartz; feldspar; few opaques; muscovite.
- 30-40 Sand - light grayish orange; slightly clayey; fine to medium grained; 30% granules; subangular to subrounded; poorly sorted; quartz; feldspar; some glauconite; few opaques.
- 40-50 Sand - grayish orange; slightly clayey - dark yellowish orange, olive light gray (clasts); fine grained, some coarse grains, some granules, few pebbles; subangular to subrounded; moderately sorted; quartz; some opaques; feldspar; glauconite; few flakes of muscovite.
- 50-60 Sand - olive light gray; moderate clay; very fine to fine grained, few granules, few pebbles; subangular to subrounded; moderately well sorted; quartz; some glauconite; muscovite.
- 60-70 Sand - olive light gray; abundant clay; very fine to medium grained, some coarse grains; subangular to subrounded; moderately sorted; quartz; some black phosphatic material; few grains of glauconite.
- 70-80 Sand - olive light gray; moderate clay - olive light gray, light olive gray; very fine to medium grained; subangular to rounded; moderately sorted; quartz; 40% glauconite; some black phosphatic material; muscovite.
- 80-90 As above except 5% glauconite.
- 90-100 Clay - light gray, olive light gray; moderate sand; fine grained, some medium grains; subangular to subrounded; moderately well sorted; quartz; glauconite 2% of sand sized fraction; muscovite.
- 100-110 Sand - olive light gray; moderate clay; fine to medium grained; subangular to rounded; moderately well sorted; quartz; 25% glauconite; few flakes of muscovite.

Depth  
(feet)

- 110-120 As above except some muscovite.
- 120-130 As above plus some granules; moderately sorted.
- 130-140 Sand - off white; very coarse grained to granular, some pebbles; subrounded; moderately sorted; quartz; feldspar; some glauconite; muscovite; pyrite.
- 140-150 Sand - off white; slightly clayey; coarse grained to granular, 5% pebbles; subrounded; moderately sorted; quartz; feldspar.
- 150-160 As above.
- 160-170 Gravel - multicolored; slightly clayey; size range 4-16 mm, avg. 12mm; quartz; feldspar.
- 170-180 Granules and gravel - light olive gray; slightly clayey; size range 2-18mm, avg. 8mm; quartz; feldspar.
- 180-190 Sand - light grayish orange; slightly clayey; coarse grained to granular, some medium grains, few pebbles; subrounded; moderately sorted; quartz; feldspar; muscovite.
- 190-200 Sand - olive light gray; moderate clay; coarse grained to granular, some pebbles; subrounded; moderately sorted; quartz; feldspar.
- 200-210 Sand - olive light gray; moderate clay; fine to coarse grained, some granules; subangular to subrounded; moderately sorted; quartz; feldspar; 3% glauconite; muscovite.
- 210-220 As above except medium gray; some glauconite.
- 220-230 Sand - off white; slightly clayey; medium to coarse grained, few granules; subangular to subrounded; moderately well sorted; quartz; feldspar; few grains of glauconite.
- 230-240 As above except some fine grains; 20% angular granules; poorly sorted.
- 240-250 Sand - light olive gray; moderate clay; fine to medium grained; subangular to subrounded; moderately well sorted; quartz; feldspar; some muscovite; glauconite.
- 250-260 Sand - off white; slightly clayey; medium to coarse grained, few granules; subangular to subrounded; moderately well sorted; quartz; feldspar; few grains of glauconite; muscovite.
- 260-270 Sand - off white; slightly clayey; medium to very coarse grained, some fine grains, some granular; subangular to subrounded; poorly sorted; quartz; feldspar; some glauconite; muscovite.

Depth  
(feet)

270-281 Sand - off white; slightly silty; fine to coarse grained, few granules; subangular to subrounded; moderately sorted; quartz; feldspar; some glauconite; muscovite.

Logged by: Michael T. Currie