

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

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: Richmond Food Stores, Inc. Mailing Address: P. O. Box 26967, Richmond, VA 23261

TENANT: Well #3 Mailing Address: _____

DRILLER: Sydnor Hydrodynamics, Inc. Mailing Address: P. O. Box 27186, Richmond, VA 23261

WELL LOCATION: County Hanover Approx. 2 1/4 ^{xxxxx} miles northwest (direction) of

Well #1 (1/2 mile SE U.S. Hwy. 301) and 2 1/4 ^{xxxxx} miles west (direction) of Borkeys Store
(on St. Rd. 658)

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

DATE STARTED: November 11, 1970 DATE COMPLETED: December 23, 1970

TYPE OF DRILL RIG USED: Rotary TOTAL DEPTH 257 feet

WATER LEVEL: Stands 145 feet below surface OR

has NATURAL flow of _____ gallons per minute.

YIELD TEST: Method Submersible

Drawdown 60 feet

Rate 37 1/2 gal. per min.

Duration 12 hrs., 0 min.

HOLE SIZE: 12 inches from 0 to 240 feet

8 3/4 inches from 240 to 257 feet

_____ inches from _____ to _____ feet

SCREEN SIZE: 6 inches from 178 to 188 feet

6 inches from 212 to 232 feet

_____ inches from _____ to _____ feet

WATER ZONES: from 178 to 188 feet

from 212 to 232 feet

from _____ to _____ feet

CASE SIZE: 6 inches from +3 to 178 feet

6 inches from 188 to 212 feet

6 inches from 232 to 237 feet

WATER: Color Clear Taste _____

Odor _____ Temp. _____ °F

WELL TO SUPPLY: (check one) Home _____

Farm _____ Town _____ School _____

Industry X Other _____

GROUTING: Method Pressure

Material cement & water Depth 50 feet

PUMP: Type _____

Capacity _____ gal. per min

Depth of intake _____ feet

WATER ANALYSIS AVAILABLE: Yes X No _____

DRILL CUTTINGS SAVED: Yes 22 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: Electric log by driller

LOG

FURNISHED BY: Sydnor Hydrodynamics, Inc.

DATE: December 23, 1970

DEPTH (feet)		TYPE OF ROCK OR SOIL PENETRATED (gravel, clay, etc., hardness, color, etc.)	REMARKS (water, caving, shot, screen, sample, etc.)
FROM	TO		
0	3	Top soil	
3	18	Yellow sand	
18	85	Blue clay	
85	90	Hard brown shale	
90	134	Blue clay and shells	
134	148	Black clay with black sand	
148	200	Hard gravel and sand	
205	215	Sand	
215	225	Hard sand	
225	240	Chalky clay and sand	
240	257	Hard clay and gravel	Rock @ 257'

(Use additional forms if necessary)

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

INTERVAL SHEET

Page 1 of 1 Well Repository No: C-141 3087
 Date rec'd: 2/16/71; processed 2/19/71 Sample Interval: from 0 to 250'
 PROPERTY: Richmond Food Stores, Inc. #3 Number of samples: 22
 COMPANY: Sydnor Hydrodynamics, Inc. Total Depth: 257'
 COUNTY: Hanover (Borkeys Store) Oil or Gas: Water;x Exploratory:

From-To	From-To	From-To	From-To
0 - 3	-	-	-
3 - 15	-	-	-
15 - 20	-	-	-
20 - 25	-	-	-
25 - 55	-	-	-
55 - 90	-	-	-
90 - 95	-	-	-
-	-	-	-
120 - 130	-	-	-
130 - 140	-	-	-
140 - 150	-	-	-
150 - 160	-	-	-
160 - 170	-	-	-
170 - 180	-	-	-
180 - 190	-	-	-
190 - 200	-	-	-
195 - 207	-	-	-
200 - 210	-	-	-
210 - 220	-	-	-
220 - 230	-	-	-
225 - 230	-	-	-
230 - 240	-	-	-
240 - 250	-	-	-
-	-	-	-
-	-	-	-

All intervals have both washed and unwashed samples



OWNER: Richmond Food Stores #3
DRILLER: Sydnor Hydrodynamics
COUNTY: Hanover

W#: 3087
C#: 141
TOTAL DEPTH: 257'
QUAD: Yellow Tavern

GEOLOGIC LOG

Depth
(feet)

- 0 - 3 Sand -- grayish orange; slightly clayey; medium to coarse grained, some fine grains, some granules; subangular to subrounded; moderately sorted; quartz; feldspar; some opaques; few grains of glauconite.
- 3 - 15 Sand -- off white; medium to coarse grained; subangular to subrounded; moderately well sorted; quartz; feldspar; some opaques; few grains of garnet; glauconite.
- 15 - 20 Sand -- grayish orange; some slightly stained grains; slightly clayey; medium to coarse grained, some fine grains; subangular to subrounded; moderately sorted; quartz; feldspar; some opaques; few grains of glauconite.
- 20 - 25 Sand -- grayish orange; some slightly stained grains; medium to very coarse grained; subangular to subrounded; moderately sorted; quartz; feldspar; some ferricrete; some opaques.
- 25 - 55 Sand -- light olive gray; slightly clayey; fine grained, 10% granules; subangular to subrounded; moderately well sorted; quartz; feldspar (granules); some muscovite; some ferricrete; few black phosphatic fragments; glauconite.
- 55 - 90 Sand -- light olive gray; moderate clay -- light olive gray, dark yellowish orange; fine to medium grained, some coarse grains; subangular to subrounded; moderately sorted; quartz; 20% shell fragments; few black phosphatic fragments; few grains of feldspar; glauconite.
- 90 - 95 Sand and coquina -- light olive gray; slightly clayey; fine to very coarse grained; angular to subangular; poorly sorted; quartz; 35% limestone and shell fragments; some black phosphatic material; few grains of glauconite.
- 95 - 120 No sample.
- 120 - 130 Granules -- light olive gray; moderate clay (some clasts); 5% pebbles; subrounded; well sorted; quartz; feldspar; 3% shell fragments.
- 130 - 140 Clay -- moderate orange pink, light olive gray; slightly sandy; fine to coarse grained, 10% pebbles; subangular to subrounded; moderately sorted; quartz; feldspar (pebbles); few black phosphatic fragments.
- 140 - 150 As above except moderate sand; few grains of glauconite.
- 150 - 160 As above except some glauconite.

Depth
(feet)

- 160 - 170 Clay -- olive light gray, light olive gray; moderate orange pink; abundant sand; fine grained to granular, 25% pebbles; subangular to subrounded; poorly sorted; quartz; feldspar (pebbles); 7% glauconite; few flakes of muscovite; forams (inc. Nodosaria); bone fragment.
- 170 - 180 Sand -- olive light gray; slightly clayey; fine grained to gravel (20%); subangular to subrounded; poorly sorted; quartz; 5% glauconite; few black phosphatic fragments; few shell fragments; muscovite; forams rare (inc. Robulus).
- 180 - 190 Granules -- off white; some very coarse grained sand, 10% angular pebbles; angular to subrounded; moderately well sorted; quartz; feldspar; some glauconite.
- 190 - 200 Sand -- off white; very coarse grained, 3% granules; subrounded; well sorted; quartz; feldspar.
- 195 - 207 Sand -- off white; very coarse grained, some medium grains; subangular to subrounded; moderately well sorted; quartz; feldspar; some glauconite.
- 200 - 210 As above except 2% glauconite; few grains of garnet.
- 210 - 220 Granules -- off white; moderate coarse to very coarse grained sand; subrounded; moderately well sorted; quartz; feldspar; some glauconite; few flakes of muscovite.
- 220 - 230 As above plus some pebbles.
- 225 - 230 As above. As
- 230 - 240 Sand -- light olive gray; slightly clayey; coarse to very coarse grained, 10% granules; subrounded; moderately sorted; quartz; feldspar; some glauconite; few grains of garnet; muscovite.
- 240 - 250 Granules -- light olive gray; moderate coarse to very coarse grained sand; subangular to subrounded; moderately well sorted; quartz; feldspar; some shell fragments; few grains of glauconite; few flakes of muscovite.
- 250 - 257 No sample.

Logged by: Michael T. Currie
Jan. 19, 1979