

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

W-5716
C-500

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: Delco Moraine, #4 Mailing Address: 3401 Tidewater Trail, Frdksbg., VA

TENANT: _____ Mailing Address: _____

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

WELL LOCATION: County Spotsylvania Approx. 4000 ~~feet~~ mi NW (direction) of

Rt. 608 and 800 ~~feet~~ mi SW (direction) of Rt. 2 and 17

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

DATE STARTED: 1-2-79 DATE COMPLETED: _____

TYPE OF DRILL RIG USED: _____ TOTAL DEPTH 307 feet

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

YIELD TEST: Method _____ HOLE SIZE: 17 inches from 0 to 80 feet
Drawdown _____ feet 12 inches from 80 to 290 feet
Rate 104 gal. per min. 9-7/8 inches from 290 to 307 feet
Duration 62 hrs., _____ min.

WATER ZONES: from 222 to 267 feet 6 inches from 275 to 275 feet
from 270 to 275 feet _____ inches from _____ to _____ feet
from _____ to _____ feet CASE SIZE: 12 inches from +1 to 80 feet

WATER: Color _____ Taste _____ 6 inches from +2 to 222 feet
Odor _____ Temp. _____ °F 6 inches from 267 to 270 feet

WELL TO SUPPLY: (check one) Home _____ GROUTING: Method _____
Farm _____ Town _____ School _____ Material cement Depth 80 feet
Industry XX Other _____

WATER ANALYSIS AVAILABLE: Yes _____ No _____ PUMP: Type _____
Capacity _____ gal per min
DRILL CUTTINGS SAVED: Yes _____ No _____ 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

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	1	Fill	0-10 OB
1	8	Red & Yellow Clay	10-40 Sandy qtz. gravel
8	34	Gravel	40-60 Arenaceous clay & qtz. gravel
34	42	Gravel, White Red & Yellow Clay Mixed	60-110 Grey non-calcareous arenaceous clay
42	44	Blue Clay	110-160 Red & grey arenaceous clay
44	53	Gray & White Clay & Gravel	160-200 Calcareous arenaceous clay
53	65	Red & Brown Clay	200-270 Sand
65	98	Gray & Green Sandy Clay & Fine Sand	270-290 Arenaceous clay
98	110	White & Gray Sandy Clay & Fine Sand	290-310 Fine qtz./mica gravel
110	125	Tough Red & Brown Clay	
125	145	Gray & White Sandy Clay with Fine Sand	
145	158	Tough Red & Gray Clay	
158	167	Gray Sandy Clay & Fine Sand	
167	170	Tough Red Clay	
170	176	Gray Sandy Clay	
176	182	Sand & Rock Streaks	
182	203	Gray & Brown Sandy Clay, Sand & Rock Streaks	
203	214	Gray Sand with Some White Sand Clay	
214	233	Sand & White Sandy Clay	
233	265	Sand, Rock Streaks with Some White Clay	
265	304	White & Gray Clay with Streaks of Sand Mix	
304	307	Rock, Gravel & MICA	

(Use additional forms if necessary)

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

INTERVAL SHEET

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Well Repository No.: C-500
 W- 5716

Date rec'd: 7-23-79 Date Processed: 2-6-80

Sample Interval: from 0 to: 307

PROPERTY: Delco Moraine (P-2), #4

Number of samples: 30

COMPANY: Sydnor

Total Depth: 307

COUNTY: Spotsylvania (Fredericksburg)

Oil or Gas: Water:XX Exploratory:

From-To	From-To	From-To	From-To	From-To
0-10	300-310	-	-	-
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	-	-	-	-
240-250	-	-	-	-
250-260	-	-	-	-
260-270	-	-	-	-
-	-	-	-	-
280-290	-	-	-	-
290-300	-	-	-	-

Unwashed only.

Owner: Delco Moraine (P-2), #4
Driller: Sydnor
County: Spotsylvania

W# 5716
C# 500
Total Depth: 307'
Quad: Fredericksburg
Elev: 85'

Depth
(feet)

WELL LOG

0-10 Sand - moderate yellow brown (10YR 5/4), fine to coarse, some granules; subangular, moderately well sorted; iron staining.

10-20 Gravel - mixed colors; pebbles 10mm or larger, many fragmented; angular to rounded, poor sorting; iron staining.

20-30 Gravel - mixed colors; very fine to pebble, angular to rounded, poor sorting; iron staining.

30-50 Gravel - mixed colors; sparse clay in sand clasts; fine to very coarse, some pebbles; sub-angular, poor sorting; 40-50 - moderate clay in sand clasts.

50-60 Gravel - mixed colors; moderate clay; pebbles 10mm, with sparse grains of fine to very coarse size; rounded, well sorted.

60-80 Sand - dusky yellow (5Y 5/4); abundant clay; fine to granular, subangular, moderately sorted; 70-80 - saprolitic granite with biotite mica.

80-110 Sand - moderate yellow gray (5Y 7/2); abundant clay; fine to granular, subangular, poorly sorted; 90-100 - few pebbles.

110-140 Clay - pale yellowish brown (10YR 6/2); abundant sand, fine to granular, subangular, poor sorting; clay is in clasts.

140-150 Clay - light brown (5YR 6/4); abundant sand, fine to granular, subangular, poor sorting.

150-200 Clay - pale yellow-brown (10YR 6/2); abundant sand, fine to granular, subangular, poor sorting; 160-180 - granite fragments, biotite, pyrite.

200-210 Sand - pale yellow brown - (10YR 6/2); sparse clay; fine to very coarse, subangular, moderate sorting.

210-220 Clay - yellowish gray (5Y 7/2); abundant sand; fine to granular, subangular, poor sorting.

220-230 Sand - light olive gray (5Y 7/1); coarse, subangular, well sorted; some rose quartz; feldspar.

230-240 Sand - light gray (N6.5); medium to very coarse, subangular, moderately sorted; some rose quartz; some feldspar.

Owner: Delco Moraine (P-2), #4

W# 5716

Depth
(feet)

- 240-250 Sand - light gray (N6.5); fine to granular, mostly very coarse; subangular and angular, well sorted; some rose quartz and feldspar; quartz grains are frosted.
- 250-260 Sand - light gray (N6.5); fine to granule, mostly very coarse; subangular and angular, moderately sorted; feldspar, biotite mica.
- 260-270 Sand - light gray (N6.5); fine to medium and some granules, subangular and angular, poor sorting; feldspar; biotite mica; garnet chips.
- 270-280 No sample.
- 280-290 Sand - pale yellow brown (10YR 7/2); fine to coarse, subangular and angular, moderate sorting.
- 290-300 Clay - light olive gray (5Y 5/2); abundant sand; fine to granule, subangular and angular, poor sorting; rose quartz; clay in clasts.
- 300-307 Sand, Clayey - light olive gray (5Y 5/2); abundant clay in clasts; fine to granule, subangular and angular, poor sorting; rose quartz; granite fragments; biotite mica.

Logged by: J. K. Polzin
July 22, 1980