

COMMONWEALTH OF VIRGINIA  
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

W#: 3638  
C#: 150

MAILING ADDRESS:

3667  
Charlottesville, VA 22903

DIVISION OF MINERAL RESOURCES  
JAMES L. CALVER, COMMISSIONER  
WATER WELL COMPLETION REPORT

OFFICE ADDRESS:

McCormick Road  
Charlottesville, Virginia

OWNER: Sydnor Hydrodynamics, Inc.

Mailing Address: P.O. Box 27186  
Richmond, VA 23261

TENANT: Cherrydale Subdivision #2

Mailing Address: \_\_\_\_\_

DRILLER: Sydnor Hydrodynamics, Inc.

Mailing Address: \_\_\_\_\_

WELL LOCATION: County Hanover

Approx. 400 <sup>feet</sup>/<sub>miles</sub> East (direction) of

St. Rd. 643

and 4200 <sup>feet</sup>/<sub>miles</sub> North (direction) of U.S. Hwy. 360

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

DATE STARTED: 7/27/72

DATE COMPLETED: 8/7/72

TYPE OF DRILL RIG USED: Rotary

TOTAL DEPTH 394 feet

WATER LEVEL: Stands 178 feet below surface OR

has NATURAL flow of \_\_\_\_\_ gallons per minute.

YIELD TEST: Method Submersible pump

Drawdown 56 feet

Rate 110 gal. per min.

Duration 24 hrs., \_\_\_\_\_ min.

WATER ZONES: from 344 to 384 feet

from \_\_\_\_\_ to \_\_\_\_\_ feet

from \_\_\_\_\_ to \_\_\_\_\_ feet

WATER: Color Clear Taste \_\_\_\_\_

Odor \_\_\_\_\_ Temp. \_\_\_\_\_ °F

WELL TO SUPPLY: (check one) Home \_\_\_\_\_

Farm \_\_\_\_\_ Town \_\_\_\_\_ School \_\_\_\_\_

Industry \_\_\_\_\_ Other Subdivision

WATER ANALYSIS AVAILABLE: Yes XX No \_\_\_\_\_  
39

DRILL CUTTINGS SAVED: Yes XX 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 ran by driller.

HOLE SIZE: 12½ inches from 0 to 51 feet

8 3/4 inches from 51 to 394 feet

\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet

SCREEN SIZE: 6 inches from 344 to 384 feet

\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet

\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet

CASE SIZE: 6 inches from +2 to 344 feet

6 inches from 384 to 388 feet

\_\_\_\_\_ inches from \_\_\_\_\_ to \_\_\_\_\_ feet

GROUTING: Method Pressure

Material Cement & water Depth 51 feet

PUMP: Type \_\_\_\_\_

Capacity \_\_\_\_\_ gal per min

Depth of intake \_\_\_\_\_ feet

# LOG

FURNISHED BY: Sydnor Hydrodynamics

DATE: Aug. 1972

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	Red clay, sand	
10	17	Yellow and red sand - clay	
17	50	Sand and orange clay	
50	70	Gray sand clay with some gravel	
70	90	Blue-green sand clay	
90	140	Blue clay	
140	140' 3"	Rock	
140' 3"	159	Blue-gray sand clay	
159	160	Rock	
160	230	Gray-green sand clay	
230	283	Sand, gravel with green, gray clay, hard	
283	285	Large gravel	
285	314	Hard sand, gravel with some gray clay	
314	394	Rough sand gravel	

(Use additional forms if necessary)

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JAMES L. CALVER, COMMISSIONER  
WATER WELL COMPLETION REPORT

OFFICE ADDRESS:  
McCormick Road  
Charlottesville, Virginia

OWNER: Sydnor Hydrodynamics, Inc. Mailing Address: P. O. Box 27186, Richmond, Va. 232

TENANT: Cherrydale Subdivision #2 Mailing Address: \_\_\_\_\_

DRILLER: Sydnor Hydrodynamics, Inc. Mailing Address: P.O. Box 27186, Richmond, Va. 2326

WELL LOCATION: County Hanover Approx. 400 <sup>feet</sup>/<sub>miles</sub> East (direction) of  
Route 648 643 and 4200 <sup>feet</sup>/<sub>miles</sub> North (direction) of Route 360

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WELL TO SUPPLY: (check one) Home \_\_\_\_\_

Farm \_\_\_\_\_ Town \_\_\_\_\_ School \_\_\_\_\_

Industry \_\_\_\_\_ Other Subdivision

WATER ANALYSIS AVAILABLE: Yes  No \_\_\_\_\_

DRILL CUTTINGS SAVED: Yes  No \_\_\_\_\_

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REMARKS: Electric log ran ~~SEVEN PINES QUADRANGLE (NORTH. EDGE)~~

~~possibly~~ STUDLEY QUADRANGLE (SOUTH. EDGE)

Elev. 188' ELEV. : 188'

Cherrydale S.D. # 1 : W-2224

(LOG OF WELL) OVER

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

INTERVAL SHEET

Page 1 of 1

Well Repository No: W#: 3638  
 C#: 150

Date rec'd: 8/21/72 Date Processed: 11/17/72

Sample Interval: from 0 to 390

PROPERTY: Sydnor Hydrodynamics  
 (Cherrydale Subd.) #2

Number of samples: 39

COMPANY: Sydnor Hydrodynamics

Total Depth: 394'

COUNTY: Hanover  
 (Mechanicsville)

Oil or Gas: Water: Exploratory:

From-To	From-To	From-To	From-To
0 - 10	250 - 60	-	-
10 - 20	260 - 70	-	-
20 - 30	270 - 80	-	-
30 - 40	280 - 90	-	-
40 - 50	290 - 300	-	-
50 - 60	300 - 10	-	-
60 - 70	310 - 20	-	-
70 - 80	320 - 30	-	-
80 - 90	330 - 40	-	-
90 - 100	340 - 50	-	-
100 - 10	350 - 60	-	-
110 - 20	360 - 70	-	-
120 - 30	370 - 80	-	-
130 - 40	380 - 90	-	-
140 - 50	-	-	-
150 - 60	-	-	-
160 - 70	-	-	-
170 - 80	-	-	-
180 - 90	-	-	-
190 - 200	-	-	-
200 - 10	-	-	-
210 - 20	-	-	-
220 - 30	-	-	-
230 - 40	-	-	-
240 - 50	-	-	-

All intervals have both unwashed & washed samples.

OWNER: Sydnor Hydrodynamics  
(Cherrydale Subdiv.)  
DRILLER: Sydnor Hydrodynamics  
COUNTY: Hanover  
(Mechanicsville)

W#: 3638  
C#: 150  
TOTAL DEPTH: 394'  
QUAD: Seven Pines

GEOLOGIC LOG

Depth  
(feet)

- 0 - 10 Sand -- dark yellowish orange; moderate clay; fine to medium grained, some coarse grains; subangular to subrounded; moderately well sorted; quartz; feldspar; few opaques.
- 10 - 20 As above except slightly clayey.
- 20 - 30 Sand -- very pale yellowish orange; slightly clayey; medium to very coarse grained, some granules; subrounded; moderately sorted; quartz; feldspar.
- 30 - 40 Sand -- grayish orange; slightly clayey; medium to coarse grained, some fine grains, some granules, some pebbles; subangular to subrounded; moderately sorted; quartz; feldspar; some opaques.
- 40 - 50 Sand -- grayish orange; slightly clayey; fine to coarse grained, some granules; subangular to subrounded; moderately sorted; quartz; feldspar; few opaques.
- 50 - 60 Gravel -- grayish orange; slightly clayey; some medium to coarse grained sand, some granules; subrounded to rounded; moderately sorted; quartz; feldspar; few flakes of muscovite.
- 60 - 70 As above plus some white clay.
- 70 - 80 Gravel -- grayish orange; few granules; subrounded to rounded; well sorted; quartz; feldspar.
- 80 - 90 Sand -- olive light gray; moderate clay; fine grained; subangular to subrounded; well sorted; quartz; few black phosphatic fragments; muscovite.
- 90 - 100 As above plus some granules; few pebbles; few grains of feldspar.
- 100 - 110 Clay -- light olive gray; abundant sand; fine to medium grained, few granules, few pebbles; subangular to subrounded; moderately sorted; quartz; few black phosphatic fragments; muscovite.
- 110 - 120 Sand -- light olive gray; moderate clay; fine grained, some medium grains; subangular to subrounded; well sorted; quartz; few flakes of muscovite.
- 120 - 130 Sand -- light olive gray; moderate clay; fine to coarse grained; subangular to subrounded; moderately sorted; quartz; some glauconite; few black phosphatic fragments; muscovite.

Depth  
(feet)

- 130 - 140 Sand -- olive gray; moderate clay; fine to medium grained, some coarse grains, some pebbles; subangular to rounded; moderately well sorted; quartz; 30% glauconite; feldspar (pebbles); few flakes of muscovite; bone fragments.
- 140 - 150 Sand -- light olive gray; moderate clay; fine to coarse grained, few granules; subangular to rounded; moderately sorted; quartz; 20% glauconite; 2% muscovite; few black phosphatic fragments; few echinoid spines; few shell fragments.
- 150 - 160 Sand and clay -- olive light gray; moderate clay - olive light gray, light gray; abundant sand; fine to coarse grained; subangular to rounded; moderately sorted; quartz; 25% glauconite; some muscovite; few shell fragments; forams rare (inc. Buccella).
- 160 - 170 Sand -- olive light gray; moderate clay; fine to coarse grained, some granules; subangular to rounded; moderately sorted; quartz; 25% glauconite; few shell fragments, few flakes of muscovite; few black phosphatic fragments; few grains of feldspar; bone fragment.
- 170 - 180 Sand -- yellowish gray; slightly clayey; medium to very coarse grained, some granules, few pebbles; subangular to subrounded; moderately sorted; quartz; 7% glauconite; some feldspar; some black phosphatic material; few shell fragments; muscovite; forams rare (inc. Nodosaria).
- 180 - 190 Sand -- olive light gray; abundant clay; fine to medium grained, some coarse grains; subangular to rounded; moderately well sorted; quartz; 40% glauconite; some muscovite; some shell fragments; forams scarce (inc. Robulus); bone fragment.
- 190 - 200 As above except 30% glauconite; few black phosphatic fragments; no Robulus.
- 200 - 210 Clay and sand -- olive light gray; abundant clay -- olive light gray, light gray; moderate orange pink; moderate sand; fine to medium grained; subangular to rounded; moderately well sorted; quartz; glauconite, 15% of sand sized fraction; few shell fragments; muscovite; few black phosphatic fragments.
- 210 - 220 Clay -- olive light gray, very light gray; very fine to fine grained, some medium grains; subangular to rounded; moderately well sorted; quartz; 15% glauconite; few black phosphatic fragments; muscovite.
- 220 - 230 As above plus some moderate orange pink clay; some muscovite.
- 230 - 240 Sand and gravel -- olive light gray; moderate clay; fine grained to granular, 40% pebbles; subangular to subrounded; poorly sorted; quartz; feldspar; 7% glauconite; some muscovite; few shell fragments.

Depth  
(feet)

- 240 - 250 Sand and granules -- off white; coarse to very coarse grained, 40% granules, 15% pebbles; subangular to subrounded; poorly sorted; quartz; feldspar; 5% glauconite; few shell fragments; muscovite.
- 250 - 260 As above except slightly clayey.
- 260 - 270 Sand -- light olive gray; coarse to very coarse grained, some granules; subangular to subrounded; moderately well sorted; quartz; feldspar; 5% glauconite; few flakes of muscovite.
- 270 - 280 Sand -- light olive gray; slightly clayey (clasts); coarse grained to granular, some pebbles; subangular to subrounded; moderately sorted; quartz; feldspar; some glauconite; few flakes of muscovite.
- 280 - 290 As above.
- 290 - 300 Sand and gravel -- light olive gray; very coarse grained to granular, 50% pebbles; subangular to subrounded; moderately sorted; quartz; feldspar; some glauconite; muscovite.
- 300 - 310 Sand -- yellowish gray; slightly clayey; coarse grained to granular, 15% pebbles; subangular to subrounded; moderately sorted; quartz; feldspar; some glauconite; muscovite.
- 310 - 320 Gravel -- light olive gray; some iron - stained grains; slightly sandy; medium to coarse grained, 5% granules; subangular to rounded; poorly sorted; quartz; feldspar; few grains of glauconite.
- 320 - 330 As above except slightly clayey - dark yellowish orange, white, light olive gray.
- 330 - 340 As above except angular to subrounded.
- 340 - 350 Sand -- yellowish gray; coarse grained to granular, 10% pebbles; subangular to subrounded; moderately sorted; quartz; feldspar; some glauconite; muscovite.
- 350 - 360 Sand and granules - yellowish gray; slightly clayey; coarse to very coarse grained, 50% granules, 5% pebbles; subangular to subrounded; moderately sorted; quartz; feldspar; some glauconite; few flakes of muscovite.
- 360 - 370 Sand -- yellowish gray; coarse to very coarse grained, some granules, few pebbles; subangular to subrounded; moderately well sorted; quartz; feldspar; 2% glauconite; few flakes of muscovite.
- 370 - 380 As above except 5% granules.

Depth  
(feet)

- 380 - 390 Sand -- yellowish gray; slightly clayey (clasts): coarse grained to gravel (30); subangular to subrounded; poorly sorted; quartz; feldspar; some glauconite; few flakes of muscovite.
- 390 - 394 No sample.

Logged by: Michael T. Currie  
Jan. 25, 1979