COMMONWEALTH OF VIRGINIA
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

W#: 2501
C#: 123

MAILING ADDRESS:
[illegible]3667
[illegible]ottesville, VA 22903

DIVISION OF MINERAL RESOURCES

JAMES L. CALVER, COMMISSIONER

OFFICE ADDRESS:
McCormick Road
Charlottesville, Virginia

WATER WELL COMPLETION REPORT

OWNER: Sydnor Hydrodynamics, Inc. Mailing Address: 1305 Brook Road, Richmond, Va.

TENANT: Walnut Grove #1 Mailing Address:

DRILLER: Sydnor Hydrodynamics, Inc. Mailing Address: 1305 Brook Road, Richmond, Va.

WELL LOCATION: County Hanover Approx. 800 ~~feet miles~~ North (direction) of Route 156 and 1/2 ~~feet~~ miles West (direction) of Route 643

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

DATE STARTED: 4/8/69 DATE COMPLETED: 4/17/69

TYPE OF DRILL RIG USED: Rotary TOTAL DEPTH 304 feet

WATER LEVEL: Stands _____ feet below surface OR

has NATURAL flow of _____ gallons per minute.

YIELD TEST: Method Submersible pump

Drawdown 72 feet

Rate 42 gal. per min.

Duration 7 hrs., _____ min.

WATER ZONES: from 264 to 289 feet

from _____ to _____ feet

from _____ to _____ feet

WATER: Color Clear Taste _____

Odor None Temp. _____ °F

WELL TO SUPPLY: (check one) Home _____

Farm _____ Town _____ School _____

Industry _____ Other Subdivision

WATER ANALYSIS AVAILABLE: Yes X No _____

DRILL CUTTINGS SAVED: 21 Yes X No _____

HOLE SIZE: 12 inches from 0 to 304 feet

_____ inches from _____ to _____ feet

_____ inches from _____ to _____ feet

SCREEN SIZE: 6 inches from 264 to 289 feet

_____ inches from _____ to _____ feet

_____ inches from _____ to _____ feet

CASE SIZE: 6 inches from +2 to 264 feet

6 inches from 289 to 294 feet

_____ inches from _____ to _____ feet

GROUTING: Method Pressure

Material cement, water Depth 50 feet

PUMP: Type _____

Capacity _____ gal. per min

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:

Electric log ran by driller.

(LOG OF WELL) OVER

LOG

FURNISHED BY: Sydnor Hydrodynamics DATE:

DEPTH (feet) FROM	TO	TYPE OF ROCK OR SOIL PENETRATED (gravel, clay, etc., hardness, color, etc.)	REMARKS (water, caving, shot, screen, sample, etc.)
0	2	Top Soil	
2	10	Red Clay	
10	40	Yellow Sandy Clay	
40	55	Yellow Clay	
55	115	Gray Clay	
115	119	Blue Shale. Clay	
119	190	Gray Clay	
190	220	Gray Clay and Shell	
220	300	Sand and Coarse Gravel	
300	304	Clay	

(Use additional forms if necessary)

W-2501
C-123

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DIVISION OF MINERAL RESOURCES
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OFFICE ADDRESS:
McCormick Road
Charlottesville, Virginia

WATER WELL COMPLETION REPORT W-2501

OWNER: Sydnor Hydrodynamics, Inc. Mailing Address: 1305 Brook Road, Richmond, Va.

TENANT: OPERATIONS DIVISION Walnut Grove #1 Mailing Address:

DRILLER: Sydnor Hydrodynamics, Inc. Mailing Address: 1305 Brook Road, Richmond, Va.

WELL LOCATION: County Hanover Approx. 800 feet miles North (direction) of Route 156 and 1/2 feet miles West (direction) of Route 643

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

DATE STARTED: 4/8/69 DATE COMPLETED: 4/17/69

TYPE OF DRILL RIG USED: Rotary TOTAL DEPTH 304 feet

WATER LEVEL: Stands _____ feet below surface OR

has NATURAL flow of _____ gallons per minute.

YIELD TEST: Method Submersible
Drawdown 72 feet
Rate 42 gal. per min.
Duration 7 hrs., _____ min.

WATER ZONES: from 264 to 289 feet
from _____ to _____ feet
from _____ to _____ feet

WATER: Color Clear Taste _____
Odor None Temp. _____ °F

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

WATER ANALYSIS AVAILABLE: Yes X No _____

DRILL CUTTINGS SAVED: Yes 21 X No _____

HOLE SIZE: 12 inches from 0 to 304 feet
_____ inches from _____ to _____ feet
_____ inches from _____ to _____ feet

SCREEN SIZE: 6 inches from 264 to 289 feet
_____ inches from _____ to _____ feet
_____ inches from _____ to _____ feet

CASE SIZE: 6 inches from +2 to 264 feet
6 inches from 289 to 294 feet
_____ inches from _____ to _____ feet

GROUTING: Method Pressure
Material Cement, Water Depth 50 feet

PUMP: Type _____
Capacity _____ gal per min
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: SEVEN PINES QUADRANGLE
Walnut Grove #1 - Electric log ran by Sutton
ELEV. : 161' Elev 161 'topo

(LOG OF WELL) OVER

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

INTERVAL SHEET

W#: 2501
Page 1 of 1 Well Repository No: C#: 123

Date rec'd: 6/4/69 Date Processed: Sample Interval: from: 0 to: 300

PROPERTY: Sydnor Hydrodynamics (Walnut Grove #1) Number of samples: 21

COMPANY: Sydnor Hydrodynamics, Inc. Total Depth: 304'

COUNTY: Hanover (Mechanicsville) Oil or Gas: Water: Exploratory:

From-To	From-To	From-To	From-To
0 - 15	-	-	-
15 - 30	-	-	-
30 - 45	-	-	-
45 - 60	-	-	-
60 - 75	-	-	-
75 - 90	-	-	-
90 - 105	-	-	-
105 - 120	-	-	-
120 - 130	-	-	-
130 - 145	-	-	-
145 - 160	-	-	-
155 - 170	-	-	-
-	-	-	-
175 - 190	-	-	-
190 - 205	-	-	-
210 - 225	-	-	-
220 - 235	-	-	-
235 - 250	-	-	-
250 - 265	-	-	-
265 - 280	-	-	-
280 295			
295 - 300	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

Unwashed only, not enough to split.

OWNER: Sydnor Hydrodynamics
(Walnut Grove #1)
DRILLER: Sydnor Hydrodynamics
COUNTY: Hanover
(Mechanicsville)

W#: 2501
C#: 123
TOTAL DEPTH: 304'
QUAD: Seven Pines

GEOLOGIC LOG

Depth (feet)	
0-15	Sand — light grayish orange; slightly clayey; fine to medium grained; subangular to subrounded; moderately well sorted; quartz; feldspar; few grains of glauconite; few opaques.
15-30	Sand — dark yellowish orange; slightly clayey; coarse to very coarse grained, 3% granules, 7% pebbles; subrounded; moderately sorted; quartz; feldspar; few grains of glauconite.
30-45	As above except coarse grained to gravel, some medium grains; poorly sorted.
45-60	Sand — dark yellowish orange; slightly clayey; coarse grained to granules, some medium grains, few pebbles; subangular to subrounded; poorly sorted; quartz; feldspar; few opaques.
60-75	Sand — moderate yellowish brown; slightly clayey; fine grained to gravel; subangular to subrounded; poorly sorted; quartz; feldspar; some opaques; muscovite.
75-90	Sand — olive light gray; moderate clay; fine to medium grained, some granules, some pebbles; subangular to subrounded; moderately sorted; quartz; some feldspar; few grains of glauconite.
90-105	Sand — olive light gray; fine grained, some coarse grains, few granules; subangular to subrounded; moderately well sorted; quartz; few grains of glauconite; muscovite.
105-120	Sand — light, olive gray; some moderately stained grains; slightly clayey; fine to medium grained, few pebbles; subangular to subrounded; moderately well sorted; quartz; 3% glauconite.
120-130	Sand — olive light gray; moderate clay; fine to medium grained; subangular to rounded; moderately well sorted; quartz; 15% glauconite; some black phosphatic material inc. shark's tooth; some shell fragments; some muscovite.
130-145	As above plus few pebbles; no shark's tooth.
145-160	As above except very fine to medium grained, few pebbles; moderately sorted; few black phosphatic fragments.

Depth (feet)	
155-175	Clay — medium gray, dark yellowish orange, light gray; moderate sand; very fine to fine grained; subangular to subrounded; moderately well sorted; quartz; glauconite 3% of sand sized fraction; some muscovite; few shell fragments.
175-190	Sand — olive gray; slightly clayey; very fine grained; subangular to subrounded; well sorted; quartz; 3% glauconite; some shell fragments; some muscovite; few black phosphatic fragments.
190-205	As above plus some fine grains; 10% glauconite.
205-210	No sample.
210-225	Sand — medium gray; slightly clayey; fine to medium grained; subangular to subrounded; moderately well sorted; quartz; 15% shell fragments; 3% glauconite; few black phosphatic fragments; few flakes of muscovite; forams rare (inc. Robulus).
220-235	Sand — off-white; slightly clayey; coarse grained to gravel; subrounded; moderately sorted; quartz; feldspar; some glauconite; muscovite.
235-250	Gravel — off-white; some very coarse grained sand, 5% granules; subrounded; moderately sorted; quartz; feldspar; some glauconite; muscovite.
250-265	As above.
265-280	Sand — off-white; coarse grained to granules, 7% pebbles; subrounded; moderately sorted; quartz; feldspar; some glauconite; muscovite; few grains of garnet.
280-295	Gravel — off-white; moderate coarse to very coarse grained sand, some granules; angular to subrounded; moderately sorted; quartz; feldspar; some glauconite.
295-300	Sand — off-white; slightly clayey; coarse grained to granular; some pebbles; subangular to subrounded; moderately sorted; quartz; feldspar; 2% glauconite; few flakes of muscovite.
300-304	No sample.

Note: All samples are unwashed.

Logged by: Michael T. Currie
December 28, 1978