

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

MAILING ADDRESS:

DIVISION OF MINERAL RESOURCES

OFFICE ADDRESS:

Box 3667
Charlottesville, VA 22903

JAMES L. CALVER, COMMISSIONER

McCormick Road
Charlottesville, Virginia

WATER WELL COMPLETION REPORT

OWNER: County of Henrico Mailing Address: Box 27032, Richmond, VA 23261

TENANT: Thompson site observation well Mailing Address: _____

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

WELL LOCATION: County Henrico Approx. 325 ^{feet}~~miles~~ East (direction) of
Memorial Drive and 500 ^{feet}~~miles~~ South (direction) of U.S. Hwy. 60

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

DATE STARTED: 9/17/73 DATE COMPLETED: 10/23/73

TYPE OF DRILL RIG USED: Rotary TOTAL DEPTH 610 feet

WATER LEVEL: Stands 170 feet below surface OR

has NATURAL flow of _____ gallons per minute.

YIELD TEST: Method Observation well

Drawdown _____ feet

Rate _____ gal. per min.

Duration _____ hrs., _____ min.

same as screens

WATER ZONES: from _____ to _____ feet

from _____ to _____ feet

from _____ to _____ feet

WATER: Color _____ Taste _____

Odor _____ Temp. _____ °F

WELL TO SUPPLY: (check one) Home _____

Farm _____ Town _____ School _____

Industry _____ Other Observation well

WATER ANALYSIS AVAILABLE: Yes _____ No x

DRILL CUTTINGS SAVED: Yes 60 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: 50' North of Production well. Gravel packed 66-590'.

HOLE SIZE: 17 inches from 0 to 66 feet

10 inches from 66 to 610 feet

_____ inches from _____ to _____ feet

SCREEN SIZE: 4 inches from 362 to 380 feet

4 395 406

4 inches from 423 to 444 feet

4 490 514

4 inches from 522 to 534 feet

4 550 560

4 inches from 572 to 590 feet

CASE SIZE: 4 inches from +2 to 362 feet

4 inches from spacers bet. feet

screens fr/ 380 to 595 feet

GROUTING: Method pressure

Material cement water Depth 66 feet

PUMP: Type _____

Capacity _____ gal. per min

Depth of intake _____ feet

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

INTERVAL SHEET

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Well Repository No: W#: 4065
 C#: 218

Date rec'd: 1/17/74 Date Processed: 12/6/74

Sample Interval: from: 0 to: 605

PROPERTY: County of Henrico
 (Thompson site obs well)

Number of samples: 59

COMPANY: Sydnor
 COUNTY: Henrico
 (Seven Pines)

Total Depth: 610

Oil or Gas: Water: Exploratory:

From-To	From-To	From-To	From-To
0-10 *	250-60	500-10	-
10-20 *	260-70	510-20	-
20-30 *	270-80	520-30	-
30-40 *	280-90	530-40	-
40-50 *	290-300	540-50	-
50-60 *	300-10	550-60	-
60-70 *	310-20	560-70	-
70-80 *	320-30	570-80	-
80-90 *	330-40	580-90	-
90-100 *	340-50	590-600	-
100-10 *	350-60	600-605	-
110-20 *	360-70	-	-
120-30 *	370-80	-	-
130-40 *	380-90	-	-
140-50 *	390-400	-	-
150-60 *	400-10	-	-
160-70 *	410-20	-	-
170-80 *	420-30	-	-
180-90 *	430-40	-	-
190-200 *	440-50	-	-
200-10	450-60	-	-
210-20	460-70	-	-
220-30	470-80	-	-
230-40	-	-	-
240-50	490-500	-	-

Both washed and unwashed samples, rest unwashed only.

OWNER: County of Henrico
(Thompson Site Obs. Well)
DRILLER: Sydnor Hydrodynamics
COUNTY: Henrico (Seven Pines)

W#: 4065
C#: 218
TOTAL DEPTH: 610'
QUAD: Seven Pines

GEOLOGIC LOG

Depth
(feet)

0-10 Sand — grayish orange; moderate clay — grayish orange, light brown; fine to medium grained, some coarse grains; subangular to subrounded; moderately well sorted; quartz; feldspar; few grains of glauconite.

10-20 Clay — light brown, dark yellowish orange; moderate sand; fine grained, some medium grains; subangular to subrounded; well sorted; quartz; feldspar; few opaques.

20-30 Granules and gravel — grayish orange; 60% granules, 40% angular pebbles; angular to subrounded; moderately well sorted; quartz; feldspar.

30-40 Gravel — grayish orange; slightly clayey (clasts); subangular to subrounded; well sorted; quartz; feldspar.

40-50 Gravel — grayish orange; 25% granules; angular to subrounded; moderately sorted; quartz; feldspar.

50-60 Gravel — grayish orange; slightly clayey (clasts) — olive light gray; angular to subrounded; moderately well sorted; quartz; feldspar.

60-70 Clay — olive light gray; 30% pebbles; angular to subrounded; moderately well sorted; quartz (some heavily stained).

70-80 As above except clay and gravel; 50% angular pebbles.

80-90 Clay — olive light gray; 30% pebbles; angular to subrounded; moderately well sorted; quartz (some heavily stained).

90-100 Clay — olive light gray; some coarse grained sand, 5% granules, 20% pebbles; angular to subrounded; moderately sorted; quartz (some heavily stained).

100-110 Clay and sand — olive light gray; abundant clay; moderate sand; medium grained, some granules, 5% pebbles; subangular to rounded; moderately well sorted; quartz; glauconite 20% of sand sized fraction; 3% black phosphatic material; muscovite.

110-120 Sand and clay — olive light gray; moderate clay; abundant sand; fine to medium grained; subangular to rounded; moderately well sorted; quartz; 35% glauconite; 2% shell fragments; some black phosphatic material; some muscovite.

Depth
(feet)

- 120-130 Clay — light olive gray; abundant sand; fine to medium grained; sub-angular to subrounded; moderately well sorted; quartz; glauconite 25% of sand sized fraction; 2% shell fragments; some muscovite; few black phosphatic fragments; ostracodes.
- 130-140 Sand — olive light gray; abundant clay; medium grained, some fine grains; subangular to rounded; well sorted; 60% glauconite; quartz; 3% shell fragments; some muscovite; forams rare (inc. Robulus).
- 140-150 Clay — light olive gray; slightly sandy; medium grained; subangular to rounded; well sorted; quartz; glauconite 25% of sand sized fraction; 5% shell fragments; some muscovite; forams scarce (inc. Robulus).
- 150-160 Clay — moderate orange pink, light gray; some glauconite; few grains of quartz; few shell fragments; muscovite.
- 160-170 Clay — olive light gray, moderate orange pink; abundant sand; very fine to medium grained; subangular to subrounded; moderately sorted; quartz; glauconite 10% of sand sized fraction; 10% shell fragments; forams (inc. Robulus and Buccella).
- 170-180 As above except 25% glauconite.
- 180-190 As above except 20% glauconite; few black phosphatic fragments; no Buccella.
- 190-200 Shell hash — light olive gray; moderate clay; abundant sand; fine to medium grained, some granules; subangular to rounded; moderately sorted; 70% shell fragments inc. gastropod; quartz; glauconite 20% of sand sized fraction; few black phosphatic fragments; forams (inc. Robulus and Buccella); ostracode; fish tooth.
- 200-210 Sand — light gray; moderate clay (some clasts); coarse grained to granular, some pebbles; angular to subrounded; moderately sorted; quartz; feldspar, some glauconite; muscovite; few shell fragments.
- 210-220 Sand — very light gray; slightly clayey; coarse grained to gravel; sub-angular to subrounded; poorly sorted; quartz; feldspar; few grains of garnet.
- 220-230 Sand — yellowish gray; moderate clay — yellowish gray, light olive gray; coarse grained to granular, some pebbles; subrounded; moderately sorted; quartz; feldspar; 3% glauconite.

Depth
(feet)

- 230-240 Sand and granules — yellowish gray; slightly clayey; very coarse grained, 45% granules, some pebbles; subrounded; moderately well sorted; quartz; feldspar; some glauconite; muscovite.
- 240-250 As above.
- 250-260 Sand — yellowish gray; slightly clayey; coarse to very coarse grained, few granules; subrounded; moderately well sorted; quartz; feldspar; few grains of glauconite; muscovite.
- 260-270 Granules — yellowish gray; some very coarse grains, some pebbles; angular to subrounded; well sorted; quartz; feldspar.
- 270-280 Granules — yellowish gray; slightly clayey (clasts); moderate coarse to very coarse grained sand, few pebbles; angular to subrounded; moderately well sorted; quartz; feldspar; few grains of garnet; glauconite.
- 280-290 Sand — yellowish gray; moderate clay; coarse grained to granular, 5% pebbles; angular to subrounded; moderately sorted; quartz; feldspar; few grains of garnet; glauconite; muscovite.
- 290-300 As above.
- 300-310 Granules and gravel — light gray; moderate clay; some coarse to very coarse grained sand; angular to subrounded; moderately sorted; quartz; feldspar; few grains of garnet; glauconite.
- 310-320 Gravel — light gray; moderate clay; some granules; angular to subrounded; moderately sorted; quartz; feldspar.
- 320-330 Sand — light olive gray; moderate clay; coarse grained to gravel; some medium grains; subrounded; poorly sorted; quartz; feldspar; some glauconite; muscovite.
- 330-340 As above except sand and gravel; coarse grained to granular, 40% pebbles.
- 340-350 Sand — light olive gray; coarse grained; subrounded; well sorted; quartz; feldspar; few grains of glauconite.
- 350-360 As above except slightly clayey; coarse to very coarse grained; few shell fragments.
- 360-370 As above plus few grains of garnet.

Depth
(feet)

- 370-380 Granules — light olive gray; some coarse to very coarse grains; subrounded; moderately well sorted; quartz; feldspar; few grains of glauconite; muscovite.
- 380-390 Sand and clay — medium gray; moderate clay — medium gray, white; abundant sand; coarse to very coarse grained, some granules; subrounded; moderately well sorted; quartz; feldspar; some glauconite; muscovite.
- 390-400 As above.
- 400-410 As above plus few grains of garnet.
- 410-420 As above except medium light gray; few shell fragments.
- 420-430 Sand — light gray; moderate clay; coarse grained, some medium grains; subangular to subrounded; moderately well sorted; quartz; feldspar; some glauconite; few grains of garnet; muscovite.
- 430-440 As above except medium light gray; coarse to very coarse grained.
- 440-450 Granules — light gray; angular to subrounded; well sorted; quartz; feldspar.
- 450-460 Sand — light olive gray; coarse to very coarse grained; angular to subrounded; well sorted; quartz (some heavily stained grains); feldspar; 2% glauconite; few shell fragments; muscovite.
- 460-470 Sand — light olive gray; moderate clay — light olive gray, light brown; coarse to very coarse grained; angular to subrounded; well sorted; quartz; feldspar; some glauconite; muscovite; few shell fragments.
- 470-480 Clay and sand — light brown; abundant clay; moderate sand; medium to coarse grained, some very coarse grains; subangular to subrounded; moderately sorted; quartz; feldspar; some glauconite; few shell fragments; muscovite.
- 480-490 No sample.
- 490-500 Sand — light olive gray; slightly clayey; coarse to very coarse grained, some medium grains; subrounded; moderately sorted; quartz; feldspar; few grains of glauconite; muscovite.
- 500-510 Sand — light olive gray; coarse grained; subrounded; well sorted; quartz; feldspar; few grains of glauconite.

Depth
(feet)

510-520 As above except very coarse grained.

520-530 As above except slightly clayey (some clasts); no glauconite.

530-540 Sand — light olive gray; slightly clayey — light olive gray, light brown (clasts), dark yellowish orange (clasts); coarse grained; angular to subrounded; well sorted; quartz; feldspar.

540-550 As above plus some glauconite; few grains of garnet.

550-560 Sand — light olive gray; coarse to very coarse grained; subangular to subrounded; well sorted; quartz; feldspar; some garnet; few grains of glauconite.

560-570 As above except very coarse grained; no garnet.

570-580 As above plus some heavily stained grains; muscovite.

580-590 Sand — light olive gray; coarse to very coarse grained; subangular to subrounded; moderately well sorted; quartz; feldspar; few grains of glauconite; muscovite.

590-600 As above except very coarse grained to granular.

600-605 Sand — light olive gray; slightly clayey; coarse to very coarse grained; subangular to subrounded; well sorted; quartz; feldspar; some glauconite; muscovite.

605-610 No sample.

Note: 200-605 are all unwashed.

Logged by: Michael T. Currie