

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

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: C & N Corporation Mailing Address: Ashland, Virginia

TENANT: Marle Hill Subdivision Mailing Address: King William County, Virginia

DRILLER: Sydnor Hydrodynamics, Incorporated Mailing Address: Richmond, Virginia 23261

WELL LOCATION: County King William Approx. 1 ^{feet}/_{miles} south (direction) of
Route 30 and 1025 ^{feet}/_{miles} west (direction) of Route 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: November 13, 1972 DATE COMPLETED: December 8, 1972

TYPE OF DRILL RIG USED: rotary TOTAL DEPTH 400 feet

WATER LEVEL: Stands 146'5/6" feet below surface OR
has NATURAL flow of gallons per minute

YIELD TEST: Method submersible pump
Drawdown 28 feet
Rate 110 gal. per min.
Duration 24 hrs., min.

HOLE SIZE: 12 inches from 0 to 385 feet
9 7/8 inches from 385 to 400 feet

WATER ZONES: from 246 to 266 feet
from 358 to 378 feet
from to feet

SCREEN SIZE: 6 inches from 246 to 266 feet
6 inches from 358 to 378 feet
 inches from to feet

WATER: Color clear Taste
Odor none Temp. °F

CASE SIZE: 6 inches from +2 to 246 feet
6 inches from 266 to 358 feet
6 inches from 378 to 384 feet

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

GROUTING: Method pressure
Material cement & water Depth 50 feet

WATER ANALYSIS AVAILABLE: Yes x No

PUMP: Type
Capacity gal. per min
Depth of intake feet

DRILL CUTTINGS SAVED: Yes 40 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, Incorporated DATE: December 8, 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	15	Clay, sand, yellow orange	
15	20	White, yellow sand clay	
20	30	Soft yellow sand	
30	40	Blue, white sand clay	
40	130	Blue clay, shells	
130	195	Soft sand clay, with some shells	
195	196	Shell rock	
196	197	Blue clay	
197	198	Shell rock	
198	230	Soft blue sand clay	
230	247	Tough blue clay	
247	252	Hard shell rock	
252	285	Soft sand, shells, clay	
285	325	Soft gray sand, clay	
325	350	Gray sand, clay and gravel	
350	360	Soft sand, clay and gravel	
360	362	Hard sand, clay and gravel	
362	390	Rough sand, clay and gravel	
390	400	White sand clay	

Owner: C & N Corp. (Marle Hill Sub.)
Driller: Sydnor
County: King William (Central Garage)

W# 3798
C# 163
Total depth: 400'
Quad:

GEOLOGIC LOG

Depth
(feet)

0-10 Sand - dark yellowish orange 10 YR 6/6); moderately clayey; medium with some very coarse grains; subangular to subrounded; well sorted; quartz.

10-20 Sand - dark yellowish orange (10 YR 6/6); moderately clayey; medium with some coarse grains; subangular to subrounded; well sorted; quartz, some opaques.

20-30 Sand - dark yellowish orange (10 YR 6/6); moderately clayey; medium with some coarse grains; subangular to subrounded; some opaques quartz, well sorted.

30-40 Sand - grayish orange (10 YR 7/4); slightly clayey; medium with some coarse grains; subangular to subrounded; quartz, black shell fragments (1%) moderately well sorted.

40-50 Sand - light gray (N7), slightly clayey; calcareous; medium with some very coarse grains; subangular to subrounded; moderately well sorted; quartz; shell fragments (30%); spines.

50-60 Sand - light gray (N7); calcareous; mostly subrounded, medium with some coarse grains; moderately sorted; quartz; shell fragments (40%); spines; silty.

60-70 Sand - light gray (N7); subrounded grains (some subangular); medium to coarse grains; well sorted; quartz; 45% shell fragments; some opaque; silty.

70-80 Silt - light olive gray 5 Y 6/1); coarse, subangular to subrounded; quartz grains; few shell fragments (3%).

80-90 Silt - as above except 5% shell fragments.

90-100 Silt - as 70-80 above except shell fragments (4%).

100-110 Silt - as above.

110-120 Silt - as above.

120-130 Silt - as above.

Owner: C & N Corp. (Marle Hill Sub.)

W# 3798

Depth
(feet)

130-140	Silt, sandy - light olive gray (N7); some shell fragments; subangular to subrounded grains; well sorted; fine to coarse grains; opaques (phosphate?); quartz; some glauconite present.
140-150	Sand - light olive gray (N7); silty; fine to very coarse grains; subangular to rounded grains; well sorted; quartz, glauconitic (green & black); phosphatic; silty; spines present 10% shell fragments.
150-160	Sand - light olive gray (N7); slightly silty; fine to very coarse; well sorted; subrounded to rounded grains; quartz; glauconitic and phosphatic; 15% shell fragments; spines.
160-170	Sand - light olive gray (N7); fine to very coarse; well sorted; subrounded to rounded; quartz; glauconite; phosphates; muscovite; some limestone fragments; 25% shell fragments.
170-180	Sand and limestone - light olive gray (N7); abundant sand; medium to coarse moderately sorted; subangular to rounded; sandy limestone present; quartz; high glauconite content; some phosphate fragments; pyrite; 7% shell fragments; muscovite.
180-190	Sand and limestone - as above.
190-200	Sand and limestone - as above.
200-210	Sand and limestone - as above.
210-220	Sand, glauconitic - olive gray (5Y 3/2); moderately silty; subangular to rounded (mostly subrounded); coarse to fine grains with some very coarse grains; well sorted; quartz; glauconite (50%); minor pyrite; phosphates; mica; 5% shell fragments; some limestone fragments present.
220-230	Sand, glauconitic - as above except no pyrite or limestone.
230-240	Sand, glauconitic - same as 220-230 above.
240-250	Sand, glauconitic - same as 220-230 above.
250-260	Sand, glauconitic - same as 210-220.
260-270	Sand, glauconitic - same as 210-220.
270-280	Sand, glauconitic - same as 210-220.

Owner: C & N Corp. (Marle Hill Sub.)

W# 3798

Depth
(feet)

280-290 Sand, glauconitic - same as 210-220.

290-300 Sand, glauconitic - same as 210-220.

300-310 Sand, glauconitic - same as 210-220.

310-320 Sand, glauconitic - same as 210-220.

320-330 Sand - grayish yellow (5Y 8/4); moderately silty; subangular to subrounded (a few angular and rounded grains); very coarse to medium (some pebbles); moderately well-sorted; quartz; glauconite, phosphates; some shell fragments (< 1%); minor mica.

330-340 Sand - same as 320-330.

340-350 Sand - same as 320-330 except color of sand is yellowish gray; less glauconite.

350-360 Sand - yellowish gray (5Y 7/2); very coarse to medium with some pebbles; well sorted; moderately clay-ey; subangular to **sub**rounded; quartz; minor muscovite; selonite, glauconite; minor feldspar.

360-370 Sand - same as above.

370-380 Sand - same as 350-360 with lavender mineral (garnet?) and minor pyrite.

380-390 Sand - same as 350-360 with garnet (?).

390-400 Sand - same as 350-360 with garnet (?).

Logged by: Michael A. Wise
September, 1979