

C1 17877 SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND
WELL COMPLETION REPORT
FILL IN THIS FORM COMPLETELY
PLEASE TYPETHIS REPORT MUST BE SUBMITTED WITHIN
45 DAYS AFTER WELL IS COMPLETED.COUNTY
NUMBER1 2 3 6
(THIS NUMBER IS TO BE PUNCHED
IN C.O.S. 3-6 ON ALL CARDS)

ST/CO USE ONLY

DATE RECEIVED

MM DD YY

8 13

DATE WELL COMPLETED

MM DD YY

8 13

Depth of Well

22 500 26

(TO NEAREST FOOT)

PERMIT NO.

FROM "PERMIT TO DRILL WELL"

HO-15-0243

28 29 30 31 32 33 34 35 36 37

OWNER Green Leaf Builders

WELL SITE ADDRESS 1865 Lime Kiln Rd

TOWN FREDERICK

SUBDIVISION

SECTION

LOT

WELL LOG

Not required for driven wells

STATE THE KIND OF FORMATIONS PENETRATED, THEIR
COLOR, DEPTH, THICKNESS AND IF WATER BEARINGDESCRIPTION (Use
additional sheets if needed)

FEET

FROM TO

check
if water
bearing

Overburden

0 4'

mud

4' 37'

GRAY ROCK

38' 500'

Hit water @

105'

GROUTING RECORD

WELL HAS BEEN GROUTED
(Circle Appropriate Box)YES NO
Y N

TYPE OF GROUTING MATERIAL (Circle one)

CEMENT CM

BENTONITE CLAY BC

NO. OF BAGS 18

NO. OF POUNDS 1202

GALLONS OF WATER 108

DEPTH OF GROUT SEAL (to nearest foot)

from 48 TOP 52 ft. to 54 BOTTOM 58 ft.

(enter 0 if from surface)

CASING RECORD

casing
types
insert
appropriate
code
below

ST

STEEL

CO

CONCRETE

PL

PLASTIC

OT

OTHER

MAIN
CASING
TYPENominal diameter
top (main) casing
(nearest inch)Total depth
of main casing
(nearest foot)

ST

6

52

OTHER CASING (if used)

diameter

depth (feet)

inch

from to

screen type
or open hole

SCREEN RECORD

(insert
appropriate
code
below)

ST

STEEL

BR

BRASS

HO

OPEN

PL

PLASTIC

OT

OTHER

C 2 DEPTH (nearest ft.)

1 8 9 11 15 17 21

2 23 24 26 30 32 36

3 38 39 41 45 47 51

4 49 50 51 55 57 61

5 63 64 66 70 72 76

6 74 75 76 80 82 86

7 84 85 86 90 92 96

8 94 95 96 100 102 106

9 104 105 106 110 112 116

10 114 115 116 120 122 126

11 124 125 126 130 132 136

12 134 135 136 140 142 146

13 144 145 146 150 152 156

14 154 155 156 160 162 166

15 164 165 166 170 172 176

16 174 175 176 180 182 186

17 184 185 186 190 192 196

18 194 195 196 200 202 206

19 204 205 206 210 212 216

20 214 215 216 220 222 226

21 224 225 226 230 232 236

22 234 235 236 240 242 246

23 244 245 246 250 252 256

24 254 255 256 260 262 266

25 264 265 266 270 272 276

26 274 275 276 280 282 286

27 284 285 286 290 292 296

28 294 295 296 300 302 306

29 304 305 306 310 312 316

30 314 315 316 320 322 326

31 324 325 326 330 332 336

32 334 335 336 340 342 346

33 344 345 346 350 352 356

34 354 355 356 360 362 366

35 364 365 366 370 372 376

36 374 375 376 380 382 386

37 384 385 386 390 392 396

38 394 395 396 400 402 406

39 404 405 406 410 412 416

40 414 415 416 420 422 426

41 424 425 426 430 432 436

42 434 435 436 440 442 446

43 444 445 446 450 452 456

44 454 455 456 460 462 466

45 464 465 466 470 472 476

46 474 475 476 480 482 486

47 484 485 486 490 492 496

48 494 495 496 500 502 506

49 504 505 506 510 512 516

50 514 515 516 520 522 526

51 524 525 526 530 532 536

52 534 535 536 540 542 546

53 544 545 546 550 552 556

54 554 555 556 560 562 566

55 564 565 566 570 572 576

56 574 575 576 580 582 586

57 584 585 586 590 592 596

58 594 595 596 600 602 606

59 604 605 606 610 612 616

60 614 615 616 620 622 626

61 624 625 626 630 632 636

62 634 635 636 640 642 646

63 644 645 646 650 652 656

64 654 655 656 660 662 666

65 664 665 666 670 672 676

66 674 675 676 680 682 686

67 684 685 686 690 692 696

68 694 695 696 700 702 706

69 704 705 706 710 712 716

70 714 715 716 720 722 726

71 724 725 726 730 732 736

72 734 735 736 740 742 746

73 744 745 746 750 752 756

74 754 755 756 760 762 766

75 764 765 766 770 772 776

76 774 775 776 780 782 786

77 784 785 786 790 792 796

78 794 795 796 800 802 806

79 804 805 806 810 812 816

80 814 815 816 820 822 826

81 824 825 826 830 832 836

82 834 835 836 840 842 846

83 844 845 846 850 852 856

84 854 855 856 860 862 866

85 864 865 866 870 872 876

86 874 875 876 880 882 886

87 884 885 886 890 892 896

88 894 895 896 900 902 906

89 904 905 906 910 912 916

90 914 915 916 920 922 926

91 924 925 926 930 932 936

92 934 935 936 940 942 946

93 944 945 946 950 952 956

94 954 955 956 960 962 966

95 964 965 966 970 972 976

96 974 975 976 980 982 986

97 984 985 986 990 992 996

98 994 995 996 1000 1002 1006

99 1004 1005 1006 1010 1012 1016

100 1014 1015 1016 1020 1022 1026

101 1024 1025 1026 1030 1032 1036

102 1034 1035 1036 1040 1042 1046

103 1044 1045 1046 1050 1052 1056

104 1054 1055 1056 1060 1062 1066

105 1064 1065 1066 1070 1072 1076

106 1074 1075 1076 1080 1082 1086

107 1084 1085 1086 1090 1092 1096

108 1094 1095 1096 1100 1102 1106

109 1104 1105 1106 1110 1112 1116

110 1114 1115 1116 1120 1122 1126

111 1124 1125 1126 1130 1132 1136

112 1134 1135 1136 1140 1142 1146

113 1144 1145 1146 1150 1152 1156

114 1154 1155 1156 1160 1162 1166

115 1164 1165 1166 1170 1172 1176

116 1174 1175 1176 1180 1182 1186

117 1184 1185 1186 1190 1192 1196

118 1194 1195 1196 1200 1202 1206

119 1204 1205 1206 1210 1212 1216

120 1214 1215 1216 1220 1222 1226

121 1224 1225 1226 1230 1232 1236

122 1234 1235 1236 1240 1242 1246

123 1244 1245 1246 1250 1252 1256

124 1254 1255 1256 1260 1262 1266

125 1264 1265 1266 1270 1272 1276

126 1274 1275 1276 1280 1282 1286

127 1284 1285 1286 1290 1292 1296

128 1294 1295 1296 1300 1302 1306

129 1304 1305 1306 1310 1312 1316

130 1314 1315 1316 1320 1322 1326

131 1324 1325 1326 1330 1332 1336

132 1334 1335 1336 1340 1342 1346

133 1344 1345 1346 1350 1352 1356

134 1354 1355 1356 1360 1362 1366

135 1364 1365 1366 1370 1372 1376

136 1374 1375 1376 1380 1382 1386

137 1384 1385 1386 1390 1392 1396

138 1394 1395 1396 1400 1402 1406

139 1404 1405 1406 1410 1412 1416

140 1414 1415 1416 1420 1422 1426

141 1424 1425 1426 1430 1432 1436

142 1434 1435 1436 1440 1442 1446

143 1444 1445 1446 1450 1452 1456

144 1454 1455 1456 1460 1462 1466

145 1464 1465 1466 1470 1472 1476

146 1474 1475 1476 1480 1482 1486

147 1484 1485 1486 1490 1492 1496

148 1494 1495 1496 1500 1502 1506

149 1504 1505 1506 1510 1512 1516

150 1514 1515 1516 1520 1522 1526

151 1524 1525 1526 1530 1532 1536

152 1534 1535 1536 1540 1542 1546

153 1544 1545 1546 1550 1552 1556

154 1554 1555 1556 1560 1562 1566

155 1564 1565 1566 1570 1572 1576

156 1574 1575 1576 1580 1582 1586

157 1584 1585 1586 1590 1592 1596

158 1594 1595 1596 1600 1602 1606

159 1604 1605 1606 1610

| | | | |
|---|--------------------------------|--|---|
| B 1 <u>25859</u> <small>1 2 3 6</small> | SEQUENCE NO. (MDE USE ONLY) | STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL <u>558571-1</u> please type | STATE PERMIT NUMBER <u>H0-15-0243</u> <small>fill in this form completely</small> |
| Date Received (APA) <u>04/01/16</u> <small>8 MM DD YY 13</small> OWNER INFORMATION <u>Green Leaf Builders</u> <small>15 Last Name Owner First Name 34</small> <u>1601 Jackson Street</u> <small>36 Street or RFD 55</small> <u>Baltimore MD 21230</u> <small>57 Town 70 State 72 Zip 76</small> | | B 3 LOCATION OF WELL <u>Howard</u> <small>8 COUNTY 21</small> <u>Fulton</u> <small>23 SUBDIVISION 42</small> <small>SECTION 44 46 LOT 48 50</small> <small>52 NEAREST TOWN 71</small> | |
| DRILLER INFORMATION <u>Sandy B. Cochran M SD120</u> <small>Driller's Name 76 License No. 81</small> <u>G. Edgar HARR SONS CORP.</u> <small>Firm Name</small> <u>12047 Falls Rd. Cockeysville</u> <small>Address</small> <u>Sandy B Cochran 4/15/16</u> <small>Signature Date</small> | | B 4 SOURCES OF DRILLING WATER 1. <u>well</u> 2. 3. 11865 Lime Kiln Rd <small>11 STREET ADDRESS 30</small> ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX) <div style="text-align: center;"> <input checked="" type="checkbox"/> NORTH <input type="checkbox"/> WEST <input type="checkbox"/> EAST <input type="checkbox"/> SOUTH </div> <u>200</u> <small>34 DISTANCE FROM ROAD 37</small> ENTER FT OR MI <u>FT</u> <small>38 39</small> TAX MAP: <u>46</u> BLK: <u>218</u> PARCEL <u>14785</u> | |
| B 2 WELL INFORMATION APPROX. PUMPING RATE <u>5</u> <small>(GAL. PER MIN.) 8 12</small> AVERAGE DAILY QUANTITY NEEDED <u>500</u> <small>(GAL. PER DAY) 14 20</small> | | NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL <u>Howard</u> <u>(13)</u> <u>A556571</u> <small>COUNTY NAME COUNTY NO.</small> STATE SIGNATURE _____ INSERT S → <u>41</u> <small>DATE ISSUED</small> <u>4/22/16</u> <u>John A. Wolf</u> <u>4/22/17</u> <small>43 MM DD YY 48 CO SIGNATURE EXP. DATE</small> | |
| USE FOR WATER (CIRCLE APPROPRIATE BOX) <input checked="" type="radio"/> DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION <input type="radio"/> FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION) <input type="radio"/> INDUSTRIAL, COMMERCIAL, DEWATERING <input type="radio"/> PUBLIC WATER SUPPLY WELL <input type="radio"/> TEST, OBSERVATION, MONITORING <input type="radio"/> OPEN LOOP GEOTHERMAL <input type="radio"/> CLOSED LOOP GEOTHERMAL | | APPROXIMATE DEPTH OF WELL <u>300</u> FEET <small>24 28</small> APPROXIMATE DIAMETER OF WELL <u>6</u> INCH <small>NEAREST INCH</small> | |
| METHOD OF DRILLING (circle one) BORED (or Augered) <input checked="" type="radio"/> JETTED <input type="radio"/> Jettied & DRIVEN AIR-ROTARY <input checked="" type="radio"/> AIR-PERCUSSION <input type="radio"/> ROTARY (Hydraulic Rotary) CABLE <input checked="" type="radio"/> REVERSE-ROTARY <input type="radio"/> DRIVE-POINT other _____ | | PROPOSED LOCATION OF WELL ON LOT SHOW PERMANENT STRUCTURES SUCH AS BUILDINGS, SEPTIC SYSTEM, ROADS AND/OR LANDMARKS AND INDICATE NOT LESS THAN TWO DISTANCE MEASUREMENTS TO WELL | |
| REPLACEMENT OR DEEPEMED WELLS (CIRCLE APPROPRIATE BOX) <input type="radio"/> THIS WELL WILL NOT REPLACE AN EXISTING WELL <input checked="" type="radio"/> THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED <input type="radio"/> THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY-CONTACT LOCAL APPROVING AUTHORITY FOR POLICY ON STANDBY WELLS <input type="radio"/> THIS WELL WILL DEEPEM AN EXISTING WELL PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEMED (IF AVAILABLE) _____ | | Not to be filled in by driller (MDE OR COUNTY USE ONLY) APPROP. PERMIT NUMBER _____ <u>G</u> _____ PERMIT No. <u>H0-15-0243</u> <small>70 71 72 73 74 75 76 77 78 79</small> | |
| SPECIAL CONDITIONS <u>see attached memo</u> <small>NOTE: APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED.</small> | | | |

CARROLL WATER SYSTEMS

60 AILERON COURT, SUITE #3

WESTMINSTER, MD 21157

410-876-5100

HOWARD COUNTY YIELD TEST REPORT

Date Test Performed: 05-17-2016

Permit Number: HO-15-0243

Address: 11865 Lime Kiln Rod

Subdivision:

Owner Name: Green Leaf Builders

Election District:

Well Depth: 500 Ft

Static Water Level: 6 Ft

| Time | Water Level | PSI Existing Pump | Pumping Rate Seconds to fill 1 gallon bucket | Calculated Flow-Gallons Per Minute |
|------|-------------|----------------------|--|--|
| 1145 | 6 ft | 68 psi | 3 sec | 20.00 |
| 1200 | 144 | 48 | 4 | 15.00 |
| 1215 | 286 | 25 | 4 | 15.00 |
| 1230 | 308 | 65 | 36 | 1.67 |
| 1245 | 308 | 65 | 36 | 1.67 |
| 1300 | 308 | 65 | 36 | 1.67 |
| 1315 | 312 | 68 | 52 | 1.15 |
| 1330 | 312 | 68 | 52 | 1.15 |
| 1345 | 312 | 68 | 52 | 1.15 |
| 1400 | 312 | 68 | 52 | 1.15 |
| 1415 | 312 | 68 | 52 | 1.15 |
| 1430 | 312 | 68 | 52 | 1.15 |
| 1445 | 312 | 68 | 52 | 1.15 |
| 1500 | 312 | 68 | 52 | 1.15 |
| 1515 | 312 | 68 | 52 | 1.15 |
| 1530 | 312 | 68 | 52 | 1.15 |
| 1545 | 312 | 68 | 52 | 1.15 |
| 1600 | 312 | 68 | 52 | 1.15 |
| 1615 | 312 | 68 | 52 | 1.15 |
| 1630 | 312 | 68 | 52 | 1.15 |
| 1645 | 312 | 68 | 52 | 1.15 |
| 1700 | 312 | 68 | 52 | 1.15 |
| 1715 | 312 | 68 | 52 | 1.15 |
| 1730 | 312 | 68 | 52 | 1.15 |
| 1745 | 312 | 68 | 52 | 1.15 |
| 1800 | 312 | 68 | 52 | 1.15 |
| 1815 | 312 | 68 | 52 | 1.15 |
| 1830 | 312 | 68 | 52 | 1.15 |
| 1845 | 312 | 68 | 52 | 1.15 |

WATER WELL ABANDONMENT-SEALING REPORT FORM

SUBMIT COPIES OF COMPLETED FORM TO:

- * COUNTY ENVIRONMENTAL AGENCY (contact MDE, WMA if address needed)
- * WELL OWNER
- * MDE, WATER MANAGEMENT ADMINISTRATION, WELL PROGRAM

DATE WELL ABANDONED: 7-28-16 (month/day/year)

* PERMIT NUMBER OF ABANDONED WELL (if any)

* PERMIT NUMBER OF REPLACEMENT WELL:

* PERSON ABANDONING WELL: Sandy B. Cochran WELL DRILLER'S LICENSE NUMBER: 120

CIRCLE: MWD / MSD / MGD

* OWNER'S NAME: Greenleaf Builders

* WELL LOCATION:

COUNTY: Howard

NEAREST TOWN:

TAX MAP BLOCK PARCEL

SUBDIVISION:

SECTION: LOT:

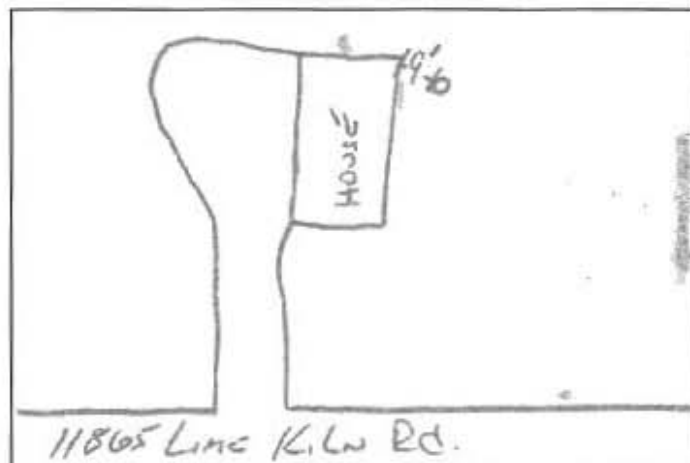
STREET ADDRESS: 11865 Lime Kiln Road

LATITUDE 3 9.150680

LONGITUDE 7 6.925471

Sandy B. Cochran
MSD 120

SITE LOCATION MAP



* TYPE OF WELL BEING ABANDONED:

☒ DRILLED ☐ JETTED
☐ BORED ☐ HAND DUG
☐ OTHER (specify)

* USE CODE: DOMESTIC

☐ IRRIGATION ☐ MUNICIPAL/PUBLIC
☐ TEST/OBSERVATION ☐ INDUSTRIAL
☐ ☐ GEOTHERMAL

* TYPE OF CASING:

☒ STEEL ☐ PLASTIC
☐ CONCRETE ☐ OTHER (specify)

SIZE OF CASING: 6 INCHES IN DIAMETER

DEPTH OF WELL: 100 FEET DEEP

WAS ANY CASING REMOVED? YES ☒ NO

If yes, length removed, in feet:

WAS CASING RIPPED OR PERFORATED? YES ☒ NO

LOG OF SEALING MATERIAL

| MATERIAL | FEET | |
|-------------------------|------|----|
| | FROM | TO |
| Crushed Stone | 100 | 50 |
| Portland type II Cement | 50 | 0 |
| VOLUME OF MATERIAL USED | | |
| 4 Bags Cement | | |

WATER WELL ABANDONMENT-SEALING REPORT FORM

SUBMIT COPIES OF COMPLETED FORM TO:

- * COUNTY ENVIRONMENTAL AGENCY (contact MDE, WMA if address needed)
- * WELL OWNER
- * MDE, WATER MANAGEMENT ADMINISTRATION, WELL PROGRAM

OK
1/29/18 SC

DATE WELL ABANDONED: 7-28-14 (month/day/year)

* PERMIT NUMBER OF ABANDONED WELL (if any) _____

* PERMIT NUMBER OF REPLACEMENT WELL: _____

* PERSON ABANDONING WELL: Sandy B. Cochran WELL DRILLER'S LICENSE NUMBER: 120

CIRCLE: MWD / MSD / MGD

* OWNER'S NAME: Greenleaf Builders

* WELL LOCATION:

COUNTY: Howard

NEAREST TOWN: _____

TAX MAP _____ BLOCK _____ PARCEL _____

SUBDIVISION: _____

SECTION: _____ LOT: _____

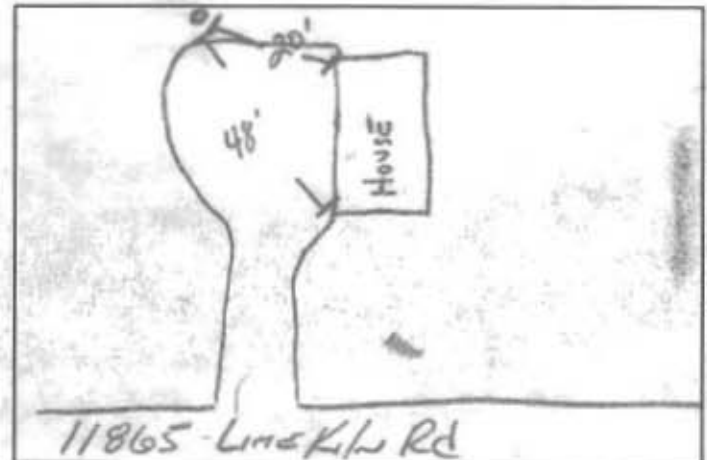
STREET ADDRESS: 11865 Lime Kiln Road

LATITUDE 3 9.150911

LONGITUDE 7 6.925411

Sandy B. Cochran
MSD 120

SITE LOCATION MAP



* TYPE OF WELL BEING ABANDONED:

☒ DRILLED ☐ JETTED
☐ BORED ☐ HAND DUG
☐ OTHER (specify) _____

* USE CODE: DOMESTIC

☐ IRRIGATION ☐ MUNICIPAL/PUBLIC
☐ TEST/OBSERVATION ☐ INDUSTRIAL
☐ ☐ GEOTHERMAL

* TYPE OF CASING:

☒ STEEL ☐ PLASTIC
☐ CONCRETE ☐ OTHER (specify) _____

SIZE OF CASING: 6 INCHES IN DIAMETER

DEPTH OF WELL: 400 FEET DEEP

WAS ANY CASING REMOVED? ☒ YES ☐ NO

If yes, length removed, in feet: 1 1/2 ft

WAS CASING RIPPED OR PERFORATED? ☐ YES ☒ NO

LOG OF SEALING MATERIAL

| MATERIAL | FEET | |
|-------------------------|------|----|
| | FROM | TO |
| Crushed stone | 400 | 50 |
| Portland Type II Cement | 50 | 0 |
| VOLUME OF MATERIAL USED | | |
| 9 Bags Cement | | |

WATER WELL ABANDONMENT-SEALING REPORT FORM

SUBMIT COPIES OF COMPLETED FORM TO:

- * COUNTY ENVIRONMENTAL AGENCY (contact MDE, WMA if address needed)
- * WELL OWNER
- * MDE, WATER MANAGEMENT ADMINISTRATION, WELL PROGRAM

DATE WELL ABANDONED: 5/17/10 (month/day/year)

* PERMIT NUMBER OF ABANDONED WELL (if any) _____

* PERMIT NUMBER OF REPLACEMENT WELL: _____

* PERSON ABANDONING WELL: Sandy B. Cochran WELL DRILLER'S LICENSE NUMBER: 120

CIRCLE: MWD / MSD / MGD

* OWNER'S NAME: Green Leaf Builders

* WELL LOCATION:

COUNTY: Howard

NEAREST TOWN: Fulton

TAX MAP _____ BLOCK _____ PARCEL _____

SUBDIVISION: _____

SECTION: _____ LOT: _____

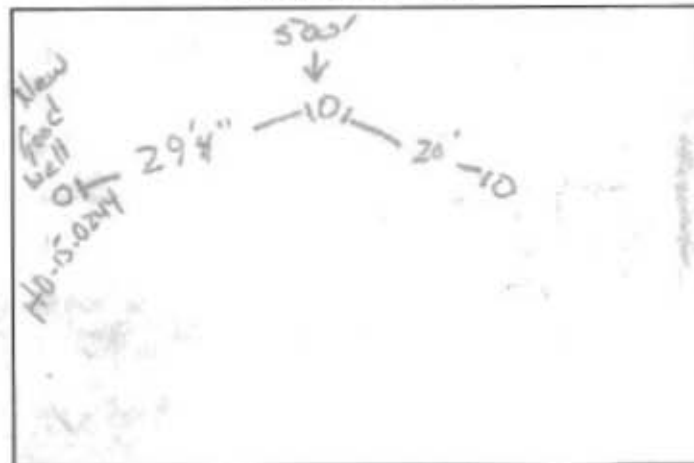
STREET ADDRESS: 11865 Lime Kiln Rd

LATITUDE 39.160540

LONGITUDE 76.925514

Sandy Cochran
MSD 120

SITE LOCATION MAP



* TYPE OF WELL BEING ABANDONED:

☒ DRILLED ☐ JETTED
☐ BORED ☐ HAND DUG
☐ OTHER (specify) _____

* USE CODE: DOMESTIC

☐ IRRIGATION ☐ MUNICIPAL/PUBLIC
☐ TEST/OBSERVATION ☐ INDUSTRIAL
☐ ☐ GEOTHERMAL

* TYPE OF CASING:

☐ STEEL ☐ PLASTIC
☐ CONCRETE ☐ OTHER (specify)
NO CASING

SIZE OF CASING: 6 INCHES IN DIAMETER

DEPTH OF WELL: 500 FEET DEEP

WAS ANY CASING REMOVED? ☐ YES ☒ NO

If yes, length removed, in feet: _____

WAS CASING RIPPED OR PERFORATED? ☐ YES ☒ NO

LOG OF SEALING MATERIAL

| MATERIAL | FEET | |
|-------------------------|------|----|
| | FROM | TO |
| Rock Cutting | 500 | 45 |
| Portland Type I Cement | 45 | 0 |
| VOLUME OF MATERIAL USED | | |
| 10 Bags | | |

MARYLAND DEPARTMENT OF THE ENVIRONMENT, WATER MANAGEMENT ADMINISTRATION
1800 Washington Blvd., Baltimore, Maryland 21230 (410) 537-3784

WATER WELL ABANDONMENT-SEALING REPORT FORM

SUBMIT COPIES OF COMPLETED FORM TO:

- * COUNTY ENVIRONMENTAL AGENCY (contact MDE, WMA if address needed)
- * WELL OWNER
- * MDE, WATER MANAGEMENT ADMINISTRATION, WELL PROGRAM

OK
1/30/16 SC

DATE WELL ABANDONED: 5/17/16 (month/day/year)

* PERMIT NUMBER OF ABANDONED WELL (if any) _____

* PERMIT NUMBER OF REPLACEMENT WELL: _____

* PERSON ABANDONING WELL: Sandy B Cochran WELL DRILLER'S LICENSE NUMBER: 120

CIRCLE: MWD / MSD / MGD

* OWNER'S NAME: Green Leaf Builders

* WELL LOCATION:

COUNTY: Howard

NEAREST TOWN: Fulton

TAX MAP _____ BLOCK _____ PARCEL _____

SUBDIVISION: _____

SECTION: _____ LOT: _____

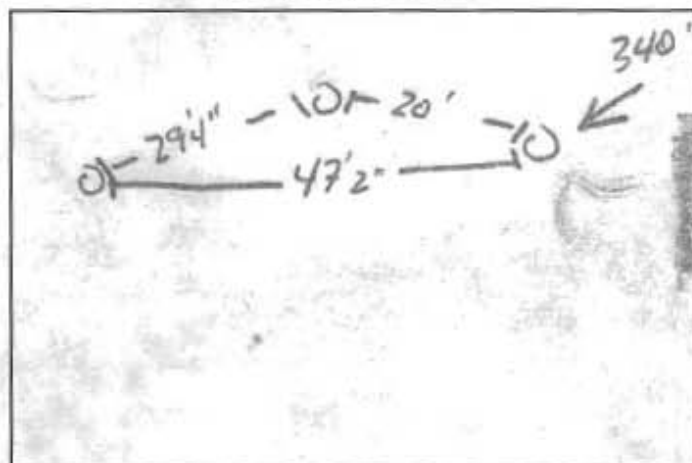
STREET ADDRESS: 11865 Lime Kiln Rd

LATITUDE 39.150544

LONGITUDE 76.925517

Sandy Cochran
MOD 120

SITE LOCATION MAP



* TYPE OF WELL BEING ABANDONED:

☒ DRILLED ☐ JETTED
☐ BORED ☐ HAND DUG
☐ OTHER (specify) _____

* USE CODE: DOMESTIC

☐ IRRIGATION ☐ MUNICIPAL/PUBLIC
☐ TEST/OBSERVATION ☐ INDUSTRIAL
☐ _____ ☐ GEOTHERMAL

* TYPE OF CASING:

☒ STEEL ☐ PLASTIC
☐ CONCRETE ☐ OTHER (specify) _____

SIZE OF CASING: 6 INCHES IN DIAMETER

DEPTH OF WELL: 340 FEET DEEP

WAS ANY CASING REMOVED? ☒ YES ☐ NO

If yes, length removed, in feet: 2

WAS CASING RIPPED OR PERFORATED? ☐ YES ☒ NO

LOG OF SEALING MATERIAL

| MATERIAL | FEET | |
|-------------------------|------|----|
| | FROM | TO |
| Rock Cutting | 340 | 45 |
| Portland Type I Cement | 45 | 0 |
| VOLUME OF MATERIAL USED | | |
| 13 Bags | | |

WILLIAM AND MARTHA REED
11865 LIME KILN ROAD
TAX MAP 46, GRID 2, PARCEL 147
4929/691

Well
P. +
To be Abandoned

To be
Abandoned

APPROX.
LOCATION EX.
WELL

PROPOSED
WELL AREA

well bore approved
staked by
Shanabrook & Lane
-Kmo

FUTURE
WELL

DO NOT REMOVE THIS TAG
DEPARTMENT OF THE ENVIRONMENT
WELL PERMIT NUMBER

H0-15-0243

INFORMATION: GIVE NUMBER AND WRITE
1800 WASHINGTON BLVD
BALTIMORE MARYLAND 21230

Wolf, Kevin

From: Wolf, Kevin
Sent: Monday, January 22, 2018 10:43 AM
To: hrbuilder@comcast.net
Subject: 11859 Lime Kiln Road
Attachments: 20180122105101021.pdf

Steve,

I am in review of the above property file for an Interim Certificate of Potability (ICOP). The attached water tests are inconclusive for the parameters of Turbidity. The Maximum Containment Level (MCL) for Turbidity is 10NTU's. The water test results indicated a level of 46.6 NTU's. Given that all other enforceable parameters were passing, we must sample again for turbidity, but on this test it must **un-treated** and we need to include testing for Iron, Manganese and Total Dissolved Solids (TDS). According COMAR 26.04.04.16 E. (b) states Every well shall be developed in order to obtain the full yield of the well and water quality that meets...: *Has a turbidity of less than 10 NTU's as determined by methods designated in 40 CFR 141.74(a)(1), except if the turbidity is due to the oxidation of dissolved iron or manganese naturally occurring in the water.*

I see that you have a treatment device in place. For convenience of time, you may test for Turbidity, Iron, Manganese and TDS before (raw) treatment and after (post) treatment. Please forward me the results once they come in. Let me know if you have any questions.

Thanks,

Kevin M. Wolf, LEHS, REHS/RS
Groundwater Mgmt. Sec. Supervisor
Well & Septic Program
Bureau of Environmental Health
8930 Stanford Blvd.
Columbia, MD 21045
(o) 410-313-2645
(f) 410-313-2648



Howard County
Health Department

kwolf@howardcountymd.gov

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1-800-978-5100

ECOWATER



HEALTH DEPARTMENT

ENVIRONMENTAL HEALTH

PTIC PROGRAM

1 FAX: (410)313-2648



- ★ WATER TREATMENT ★ WELL PUMPS ★
- ★ PRESSURE TANKS ★ WATER HEATERS ★
- ★ WATER TESTING ★

Well Pump, Pitless Adapter, and Supply Piping

NOTE: The installer is responsible for requesting an inspection prior to 9 am on the day of the desired inspection. No work is to be covered until approved by the Health Department. All installations must comply with the National Standard Plumbing Code (NSPC, as amended locally) and COMAR 26.04.04 (MD Well Construction Regulations). Submission of a complete form is required prior to Use and Occupancy approval.

Company Name:

Carroll Water

Telephone #:

410-876-5100

Address:

66 Allen Road
St. 3 Westminister
MD 21157

(Must circle one) Licensed Plumber

Licensed Well Driller

Licensed Well Pump Installer

License # and name of individual responsible for the field installation:

Name (Print):

Ron Smith

License#

PI0074

*A licensed individual must perform the actual installation. Apprentices must be under the supervision of a licensed journeyman or master plumber, pump installer or well driller. Licenses may be subjected to field verification. Unlicensed individuals may be reported to the appropriate licensing agency.

Name of Property Owner:

Telephone #:

Subdivision:

Lot #:

Well Tag #: HO-15-0243 ✓

Site Address:

11865 Lime Kiln Rd
Fulton MD 20759

Submersible Pump Data

Make: Bell & Gossett
Model #: B5P4M510221-02
Pump Capacity: 50 GPM
Well Yield: 50 GPM
Depth of well encountered at time of pump installation: 500 (feet)

Pitless Adapter

Make: Campbell
Model #: PA800LF
Depth: 45" (36" min)
NSF/WSC approved: ✓

Well Cap and Electric Conduit

Two piece watertight cap: ✓
Screened, vented well cap: ✓
Cap secured to casing: ✓
Conduit min 18" B.G.: ✓
Conduit secured to well cap: ✓

If pump capacity exceeds well yield, a low water cut off switch is required by NSPC 1990 Section 17.8.4

Torque arrestors, Cable guards, or other acceptable method used- Must circle one

Safety rope, if used, attached to brass rope adapter or other acceptable method inside of well casing ✓

Piping to house

Type:

PSI: 200 (160 psi min)

Depth of supply line: ✓ (36" min)

House Connection

PVC sleeve to undisturbed soil at wall penetration: ✓

Length of sleeve (5' minimum from foundation): ✓

Sleeve sealed properly: ✓ Silicone

The water supply line is required to be at least ten feet from the septic tank, pump chamber, sewage piping, distribution box, drainfields, and sewage reserve area. If this cannot be accomplished, contact this office for approval prior to installation.

Signature of company representative responsible for installation

date

7/7/16

For Health Department Use Only - Not to be completed by Installer

Date Insp. Requested:

7/7/16

Date Insp. Approved:

7/7/16

Inspector:

RW

Inspection Data: Pitless adapter watertight & water supply line at least 36" below grade

Two piece cap installed and attached to casing securely

Elec. conduit extends at least 18" below grade/attached to cap properly

Safety rope not outside of well cap/casing

Correct well tag attached properly and casing 8" above finished grade

Water supply line sleeved adequately at house connection

Adequate grout observed below pitless adapter

RW

Ray-Wenger@yahoo.com

Heather

Hdory @ carroll water.com




Bureau of Environmental Health

8930 Stanford Blvd, Columbia, MD 21045
Main: 410-313-2640 | Fax: 410-313-2648
TDD 410-313-2323 | Toll Free 1-866-313-6300
www.hchealth.org
Facebook: www.facebook.com/hocohealth
Twitter: HowardCoHealthDep

Maura J. Rossman, M.D., Health Officer

MEMORANDUM

TO: G. Edgar Harr Sons Corp.
Attn: Sandy Cockran, MSD 120

FROM: Kevin M. Wolf, L.E.H.S., REHS/RS, Supervisor 
Groundwater Mgmt. Sec.
Well & Septic Program

DATE: April 21, 2016

RE: **11865 & 11859 Lime Kiln Road – Well Permits
Special Condition**

The following comments apply to the above referenced Well Permit Applications. Please read through and complete as needed.

In order to preserve the quality of ground drinking water, a special condition has been set for the above referenced wells. This condition will require the driller to seal off upper strata by placing a minimum of **50 feet** of steel casing OR **10 feet** into competent bedrock (whichever comes first). For example, if you hit a water-bearing fracture or bedrock at 70 feet, then there should be at least 72 feet of casing or enough casing to get below that fracture. **Any deviations to this condition are to be prior approved by the Health Department.**

Both of these wells will also require sampling at the time of the yield test. Sampling will include but not limited to, Volatile Organic Compounds (VOC's), Total Dissolved Solids (TDS), Chlorides, and Sodium. When calling in the yield and grout on a pre-scheduled day, please make a note that a certified water testing lab and/or the Health Department must be present in order to collect the recommended samples. Please allow 24hrs notification when drilling commences and when the yield/grouts take place.

If you have any questions regarding the above mentioned information, please feel free to contact me at 410-313-2645 or email kwolf@howardcountymd.gov.

KMW

Cc: Stephen Forney, Green Leaf Builders, hrbuilder@comcast.net
file

>>

>> -----Original Message-----

>> From: Stephen Forney [mailto:hrbuilder@comcast.net]

>> Sent: Thursday, January 28, 2016 2:04 PM

>> To: Williams, Jeffrey

>> Subject: Re: Lime kiln Road

>>

>> Mr. Williams, if we could meet I would greatly appreciate it, thank you very much for your time. Stephen Forney. Just let me know what time works for you.

>>

>> Sent from my iPhone

>>

>>> On Jan 28, 2016, at 12:05 PM, Williams, Jeffrey <jewilliams@howardcountymd.gov> wrote:

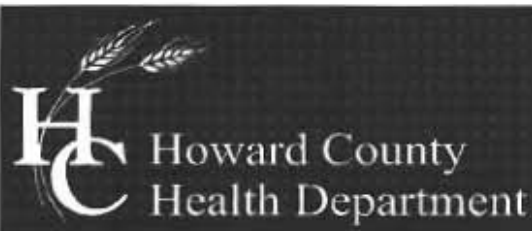
>>>

>>> I spoke with Robert about the issue. Let me give you my thoughts and you can see if we still need to meet to discuss anything further.

>>>

>>> He informed me that the neighbor on Hunterbrooke has refused to allow the well relocation. If that well doesn't get moved, here are the options for your two properties:

>>> - The sewage area on 11855 cannot be approved on a perc cert as it is up



Bureau of Environmental Health

7178 Columbia Gateway Drive, Columbia, MD 21046-2147

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Maura J. Rossman, M.D., Health Officer

July 8, 2016

Homeowner: William & Martha Reed
11865 Lime Kiln Rd
Fulton, MD 20759

RE: Replacement Well
11865 Lime Kiln Rd
Well Permit # HO-15-0243

Dear Homeowner:

According to our records, your replacement well has been connected to the dwelling. We request that you contact the Community Hygiene Program at (410) 313-1773 to schedule initial water sampling for the above referenced replacement well, as required by the Maryland Well Construction Regulation (COMAR 26.04.04). This sampling includes testing for bacteria, nitrates, turbidity, and sand. There is currently no charge for the sampling and it is to your benefit to have it tested. Sampling of the new well should be collected from the primary indoor drinking tap, but if suitable scheduling is not possible, the sample may be taken from an outside tap to complete your sampling obligation. However, the potential for unsuccessful sample results increases when samples are collected from taps exposed to the outside environment. If sampling has already been performed by an outside lab, please help us by forwarding the results of the samples to our office.

The old well (No Tag Number) located near the driveway must be properly sealed and abandoned by a MD Licensed Well Driller per *COMAR 26.04.04.34*. Documentation is to be submitted by the driller to all appointed authorities that this task has been completed. If you'd like to retain the well located near the driveway to run in series with the new well or retain it as an irrigation well a formal written request must be submitted to this office for review. Please note that a variance to allow this well to be downgradient of the sewage disposal area on 11859 Lime Kiln Rd has not been approved. Should you request to retain this well, the Health Department would subsequently notify the owner that the sewage disposal area may not be used unless you choose to properly abandon and seal this well.

During the installation of the well line for the replacement well, a pit well was located on the west side of the garage. This well must be properly sealed and abandoned by a MD Licensed Well Driller per *COMAR 26.04.04.34*. Documentation is to be submitted by the driller to all appointed authorities that this task has been completed.

Please provide the above referenced documentation for the old well abandonment within 30 days of the receipt of this letter. If you have any further questions, you can call me at 410-313-1781. Otherwise, call Community Hygiene at 410-313-1773 to schedule or arrange for them to collect the required water samples.

Sincerely,

Ryan Rappaport, LEHS
Well & Septic Program

Cc: Community Hygiene Program
Carroll Water Systems, Sandy Cochran MSD 120
File

Fwd: Final Answer

From : Steve Forney <stephen.forney@gmail.com>

Fri, Jan 29, 2016 10:29 AM

Subject : Fwd: Final Answer**To :** Stephen Forney <hrbuilder@comcast.net>

Please verify if they spoke with anyone. I will be happy to reach out to Mr. Atwell once we are able to find out.

Thanks - Steve

His response is below.

----- Original message -----

From: Andrew Atwell

Date: 01/27/2016 12:02 AM (GMT-05:00)

To: Steve Forney

Subject: Final Answer

I visited the health department with Mr. Reed last week. When I asked why the well hasn't been fouled in these past decades, they said there is good vertical column soil quality toward that corner, where the drain field ends. It was very informative, but the greater issue was not changed. So I will have to decline your offer.

They did inform me that the septic for the existing house could be redone to run more westerly, then southern as it is now toward my property line. I would suggest if taking whatever funds for allocated for well drilling and using them for redoing the septic. I realize to the letter of the law, you are in no way obligated to. Be if the impetus for this whole effort was to be more neighborly, that seems like the best compromise to start off on a good foot.

READ
PLEASE

Green Leaf
Builders LLC

December 22, 2015

Bureau of Environmental Health, Howard County MD
8930 Stanford Blvd.
Columbia, MD 21045

Re: Replacement Well -8020 Hunterbrooke Lane. Fulton, MD 20759

To whom it may concern;

This letter is to serve notice that we are requesting to drill a replacement well at the property listed above 8020 Hunterbrooke Lane. This replacement well will have to meet today's standards per the Howard County Health Department. We intend to drill the replacement well, install a new pump and pressure tank, all necessary permits and inspections, any necessary wiring, also grading and seeding of the disturbed areas. There will be no cost to the current residents for this proposed work. All costs to be taken care of by Surjit Singh, the property owner of 11859 and 11855 Lime Kiln Rd. Fulton MD, 20759. By signing this letter you are acknowledging receipt and notice of the proposal.

Thank you,

Stephen Forney
Green Leaf Builders LLC
443-250-5483

Surjit Singh 12-24-15

Surjit Singh/Date

[Signature]

Witness

SURJIT SINGH

Print Name

Stephen Forney

Print Name

Atwell 8020 Hunterbrooke Ln

Witness

Print Name

Print Name

Green Leaf
Builders LLC

December 22, 2015

Bureau of Environmental Health, Howard County MD
8930 Stanford Blvd.
Columbia, MD 21045

Re: Replacement Well - 11865 Lime Kiln Rd. Fulton, MD 20759

To whom it may concern;

This letter is to serve notice that we are requesting to drill a replacement well at the property listed above 11865 Lime Kiln Rd. This replacement well will have to meet today's standards per the Howard County Health Department. We intend drill the replacement well, install a new pump and pressure tank, all necessary permits and inspections, any necessary wiring, also grading and seeding of the disturbed areas. There will be no cost to the current residents for this proposed work. All costs to be taken care of by Surjit Singh, the property owner of 11859 and 11855 Lime Kiln Rd. Fulton MD, 20759. By signing this letter you are acknowledging receipt and notice of the proposal.

Thank you,

Stephen Forney
Green Leaf Builders LLC
443-250-5483

Surjit Singh 12-24-15
Surjit Singh/Date

Witness

SURJIT SINGH
Print Name

Stephen Forney
Print Name

Resident 11865

Witness

Print Name

Print Name



Bureau of Environmental Health

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Maura J. Rossman, M.D., Health Officer

June 26, 2017

Surjit Singh and Kamaljit Kaur, Owners
2634 Raptor Drive, Odenton, MD 21113

RE: 11855 Lime Kiln Road, nuisance condition

Dear Mr. Singh and Ms. Kaur,

During a site inspection on June 21, myself and another Environmental Health Specialist noticed a condition on the property at 11855 Lime Kiln Road (Parcel 182) that requires immediate abatement. The pit remains where a well had been abandoned and it is filling with water. The pit should have been properly abandoned at the time that the well was abandoned. As it was not abandoned, the pit has become a breeding pool for mosquitos. This condition presents a public health nuisance that must be eliminated.

The pit cannot simply be filled with soil to eliminate the condition. At least one wall of the pit must be demolished to below the level of the three pit walls that remain under the back porch. By demolishing a pit wall to the described depth, any precipitation that falls onto the pit area can drain into the soil around the pit. After demolishing a pit wall, the pit should be filled with clean earth materials.

Contact me immediately upon receiving this letter. I need to know what your timeline is for draining the pit and filling it with clean earth materials, thereby eliminating the public health nuisance that exists at this time. You may contact me by phone, 410-313-2691, or by email (rbricker@howardcountymd.gov) .

Respectfully,

Robert Bricker, REHS/R.S., L.E.H.S.

Environmental Sanitarian II

Bureau of Environmental Health, Well and Septic Program

Howard County Health Department

8930 Stanford Boulevard

Columbia, MD 21045

Copy: File

SURJIT SINGH AND
KAMALJIT KAUR
11855 LIME KILN ROAD
TAX MAP 46, GRID 1, PARCEL 183
15902/152

EX. HOUSE TO BE
REMOVED. EX. WELL
MAY BE IN HOUSE AND
IS REQUIRED TO BE
SEALED AND
ABANDONED

SUR
KA
11855
TAX MAP 46
1

LIME KILN ROAD

N 85°34'46" W 45.78'

EX. WELL
HO-15-0244

APPROX. LOCATION
EX. TRENCHES
INSTALLED 1988
P33832

EX. HSE
#11859
T.B.R.

EX. HSE
#11855

EX. PITWELL
-- SEALED

EX. SEPTIC TANK

LIMITS OF FIELD-RUN
TOPOGRAPHY

PROX.
LOCATION EX.
ABANDONED
WELL

DENSE BAMBOO

DENSE BAMBOO

REMOVED T.B.R.

Rejected
LP tank
location

APPROX. LOCATION EX.
DRILLED WELL IN PIT

LIMITS OF FIELD-RUN
TOPOGRAPHY

APPROX. LOCATION
EX. TRENCH
INSTALLED 1990
K57460

THOMAS W. ATWELL
8030 HUNTERBROOKE LANE
TAX MAP 46, GRID 2, PARCEL 201
741578

FUTURE
WELL

GqB

FUTURE
WELL

11865

FILE INQUIRY NOTES

~~11854~~ Lime Kiln Rd.

| DATE | RESULTS OF REVIEW FOR FILE |
|---------|---|
| 5/11/16 | Carroll Water on site - company purchased Harr Drilling + all Harr employees now work at Carroll. I spoke with James Hamilton (JSD 142). Getting ready to abandon 2 dry holes - machine ^(grout pump) currently having problems. (SC) |

11865 Lime Kiln Rd.
Well documents