

0410 06-434606

EMERGENCY/TEMP NO. IF ANY

B 1 **3041**

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND  
APPLICATION FOR PERMIT TO DRILL WELL

STATE PERMIT NUMBER  
**HO - 95 - 1754**  
fill in this form completely

5 30958 please type

Date Received (APA)

OWNER INFORMATION

8 MM DD YY 13  
**Howard County Md**  
15 Last Name Owner First Name 34  
**8950 Rt 108 Brown Plaza**  
36 Street or RFD 55  
**Columbia Md 21045**  
57 Town 70 State 72 Zip 76

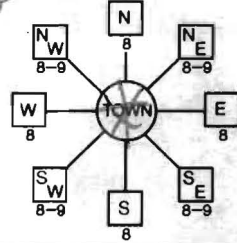
LOCATION OF WELL

B 3  
8 COUNTY **Howard** 21  
23 SUBDIVISION **Quilford Gardens** 42  
SECTION 44 46 LOT 48 50  
**Columbia**  
52 NEAREST TOWN 71  
MILES FROM TOWN (enter 0 if in town) **0** 73 M I 76 77 78

DRILLER INFORMATION

**Adam SENTRY M S D 2008**  
Driller's Name 76 License No. 81  
**Allied Environmental Services**  
Firm Name  
**PO Box 1242, Mullersville Md 21108**  
Address  
**Adam SENTRY** 4/3/09  
Signature Date

DIRECTION OF WELL FROM TOWN (CIRCLE BOX)



B 4  
1 2  
7303 **Oakland Mills Rd** 30  
11 NEAR WHAT ROAD  
ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)  
34 **50+** 37  
DISTANCE FROM ROAD FT  
ENTER FT OR MI 38 39  
TAX MAP: **42** BLK: **11** PARCEL **361**

B 2 WELL INFORMATION  
1 2  
APPROX. PUMPING RATE (GAL. PER MIN.) 8 12  
AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) 14 20

USE FOR WATER (CIRCLE APPROPRIATE BOX)

- D DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION
  - F FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION)
  - 22  I INDUSTRIAL, COMMERCIAL, DEWATERING
  - P PUBLIC WATER SUPPLY WELL
  - T TEST, OBSERVATION, MONITORING
  - G GEO-THERMAL **2 Closed Loops**
- Conductivity*  
*Settling*

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL

**Howard** 13  
COUNTY NAME COUNTY NO.  
STATE SIGNATURE INSERT S  
DATE ISSUED **4/16/2009** **Brian Baker** 4/16/2010  
43 MM DD YY 48 CO SIGNATURE EXP. DATE  
NORTH GRID **487** 000 EAST GRID **848** 000  
50 55 57 63

APPROXIMATE DEPTH OF WELL **350** FEET  
24 28

APPROXIMATE DIAMETER OF WELL **2** NEAREST INCH

METHOD OF DRILLING (circle one)

- BORED (or Augered) JETTED Jetted & DRIVEN
- 30 AIR-ROTary **AIR-PERcussion** ROTARY (Hydraulic Rotary)
- 37 CABLE REVERSE-ROTary DRIVE-POINT
- other

REPLACEMENT OR DEEPEMED WELLS (CIRCLE APPROPRIATE BOX)

- N THIS WELL WILL NOT REPLACE AN EXISTING WELL
  - Y THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED
  - 39  S THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY-CONTACT LOCAL APPROVING AUTHORITY FOR POLICY ON STANDBY WELLS
  - D THIS WELL WILL DEEPEN AN EXISTING WELL
- PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEMED (IF AVAILABLE) 41 52

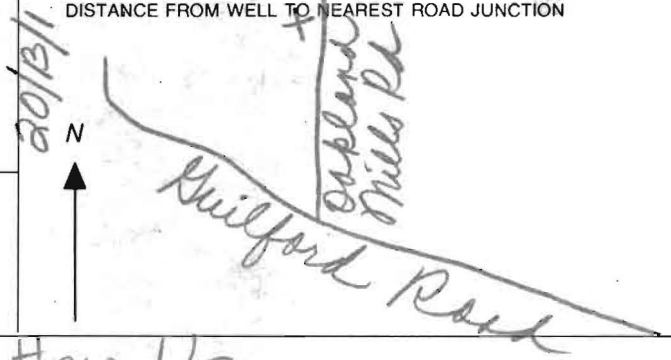
SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X

SOURCES OF DRILLING WATER  
1. **Driller Well**  
2.  
3.

WRITE THE BOX NUMBER FROM THE MAP HERE

E **8407**  
**4807**  
N  
000  
000

DRAW A SKETCH BELOW SHOWING LOCATION OF WELL IN RELATION TO NEARBY TOWNS AND ROADS AND GIVE DISTANCE FROM WELL TO NEAREST ROAD JUNCTION



Not to be filled in by driller (MDE OR COUNTY USE ONLY)

APPROP. PERMIT NUMBER **G**  
PERMIT No. **HO - 95 - 1754**  
70 71 72 73 74 75 76 77 78 79

SPECIAL CONDITIONS **Grout From Bottom Up**



P.O. Box 1242  
Millersville, MD 21108  
p) 410-789-2711  
f) 410-789-2712  
www.alliedwells.com

Date: 4/20/2009

To: Brian

From: Adam Santry

Number of Pages: 3 Including Cover Sheet

As requested, attached is the cross-section of the bore and grouting information. Call if you need additional information.

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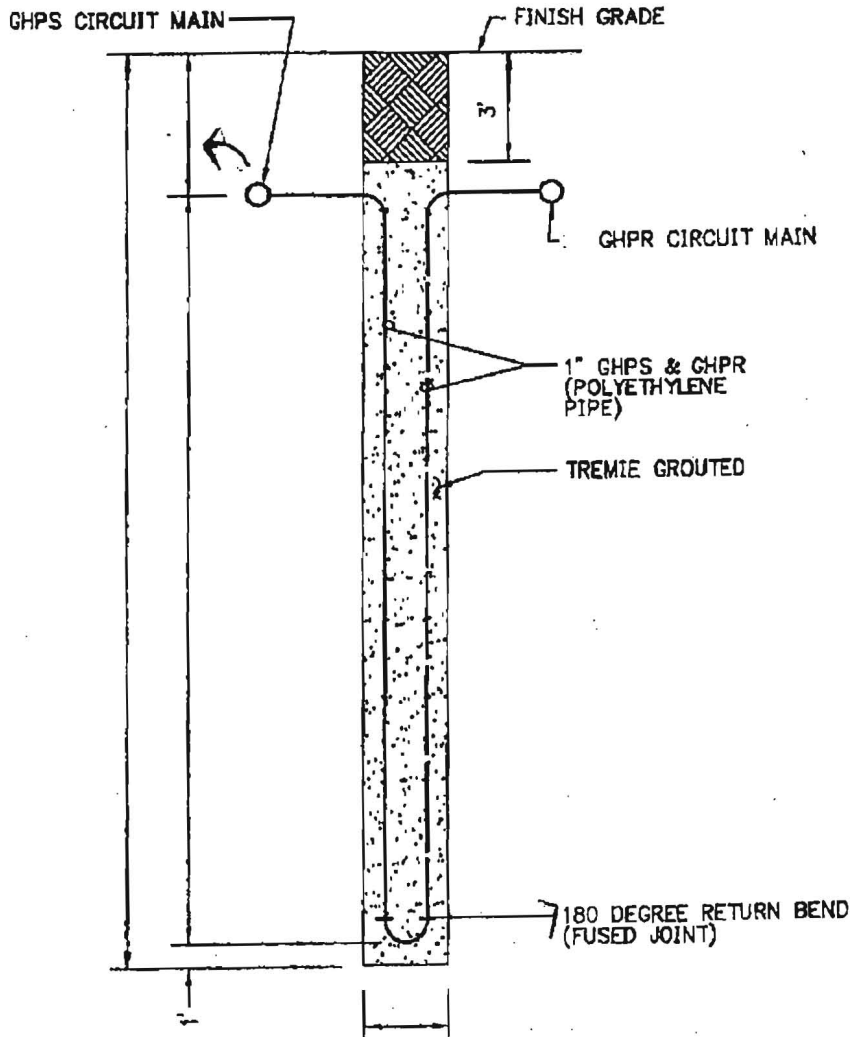
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DETAIL (1 / MD.1)

TYPICAL GHPS/GHPR CIRCUIT MAINS BELOW GRADE  
NOT TO SCALE



DETAIL (2 / MD.1)

TYPICAL VERTICAL BOREHOLE  
NOT TO SCALE

Grouted with bentonite clay from bottom to surface

## Grouting Calculator

Enter Hole diameter, inches   
 Enter Casing OD, inches   
 Enter Depth, ft

**Annular Volume, gallons 286**

**AQUAGUARD™**

Sacks 10

Water, gallons 252

**QUICK-GROUT®**

Sacks 11

Water, gallons 264



**BENSEAL®/EZ-MUD® Slurry**

BENSEAL, sacks 9

EZ-MUD, gallons 0.7

Water, gallons 270

**EZ-SEAL™**

15% Solids, Sacks 8

Water, gallons 264

20% Solids, Sacks 11

Water, gallons 264

23% Solids, Sacks 13

Water, gallons 260

**HOLEPLUG®**

Sacks 55

**BENSEAL®**

Sacks 55

HOLEPLUG® and BENSEAL® are designed to be poured or tremied into place dry.

Amounts assume gauge hole. Actual application may take 10% to 25% additional product.