

**C 1** **19393** SEQUENCE NO. (MDE USE ONLY)

**STATE OF MARYLAND**  
**WELL COMPLETION REPORT**  
 FILL IN THIS FORM COMPLETELY  
 PLEASE TYPE

THIS REPORT MUST BE SUBMITTED WITHIN  
 45 DAYS AFTER WELL IS COMPLETED.  
 COUNTY NUMBER

ST/CO USE ONLY  
 DATE RECEIVED  
 MM 12 DD 16 YY 13

DATE WELL COMPLETED  
 MM 11 DD 22 YY 13  
 Depth of Well  
 22 400 26  
 (TO NEAREST FOOT)

PERMIT NO.  
 FROM "PERMIT TO DRILL WELL"  
HD-95-2607

OWNER L. Edward  
 WELL SITE ADDRESS 13270 S. Stryker Ct TOWN Highland MD  
 SUBDIVISION \_\_\_\_\_ SECTION \_\_\_\_\_ LOT 11

**WELL LOG**  
 Not required for driven wells

STATE THE KIND OF FORMATIONS PENETRATED, THEIR COLOR, DEPTH, THICKNESS AND IF WATER BEARING

DESCRIPTION (Use additional sheets if needed)	FEET		check if water bearing
	FROM	TO	
Topsoil	0	1	
Brn Soil	1	20	
Red Clay	20	30	
Red Soil-Sandstone	30	50	
Weathered Rock	50	60	✓
Grey Rock	6	240	
Hard Grey Rock	240	310	
Grey Blk Rock	310	400	

**GROUTING RECORD** yes no  
 WELL HAS BEEN GROUTED    
 (Circle Appropriate Box)  
 TYPE OF GROUTING MATERIAL (Circle one)  
 CEMENT  BENTONITE CLAY   
 NO. OF BAGS 44 NO. OF POUNDS 2500  
 GALLONS OF WATER 1100  
 DEPTH OF GROUT SEAL (to nearest foot)  
 from 0 ft. to 400 ft.  
 48 TOP 52 54 BOTTOM 58  
 (enter 0 if from surface)

**CASING RECORD**  
 casing types insert appropriate code below  
 ST STEEL  CO CONCRETE  
 PL PLASTIC  OT OTHER  
 MAIN CASING TYPE Nominal diameter top (main) casing (nearest inch) Total depth of main casing (nearest foot)  
 60 61 63 64 66 70

**OTHER CASING (if used)**  
 diameter inch depth (feet) from to  
 E A C H C A S I N G

**SCREEN RECORD**  
 screen type or open hole insert appropriate code below  
 ST STEEL  BR BRASS  HO OPEN HOLE  
 PL PLASTIC  OT OTHER

**C 2** DEPTH (nearest ft.)  
 1 2  
 E A C H S R E E N  
 8 9 11 15 17 21  
 23 24 26 30 32 36  
 38 39 41 45 47 51  
 SLOT SIZE 1 2 3  
 DIAMETER OF SCREEN (NEAREST INCH)  
 56 60  
 from to

GRAVEL PACK IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 68  
 MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER)  
 T (E.R.O.S.) W Q  
 70 72 74 75 76  
 TELESCOPE CASING LOG INDICATOR OTHER DATA

**C 3** **PUMPING TEST**

HOURS PUMPED (nearest hour) 8  
 PUMPING RATE (gal. per min.) 11  
 METHOD USED TO MEASURE PUMPING RATE \_\_\_\_\_  
 WATER LEVEL (distance from land surface)  
 BEFORE PUMPING 77 ft.  
 WHEN PUMPING 22 ft.  
 TYPE OF PUMP USED (for test)  
 A air  P piston  T turbine  
 C centrifugal  R rotary  O other (describe below)  
 J jet  S submersible

**PUMP INSTALLED**  
 DRILLER INSTALLED PUMP (CIRCLE) (YES or NO) YES  NO   
 IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS.  
 TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) IN BOX 29  
 CAPACITY: GALLONS PER MINUTE (to nearest gallon) 31  
 PUMP HORSE POWER 37  
 PUMP COLUMN LENGTH (nearest ft.) 43  
 CASING HEIGHT (circle appropriate box and enter casing height)  
 + above ) LAND SURFACE (nearest foot)  
 - below )

LATITUDE 39.19245  
 LONGITUDE 76.97222  
 (DEFAULT COORD. WGS 84)  
 NOTES:  
 #2 39.19245  
 76.97225  
 front

NUMBER OF UNSUCCESSFUL WELLS: \_\_\_\_\_  
 WELL HYDROFRACTURED yes  no   
 CIRCLE APPROPRIATE LETTER  
 A A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED  
 E ELECTRIC LOG OBTAINED  
 P TEST WELL CONVERTED TO PRODUCTION WELL  
 I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN ACCORDANCE WITH COMAR 26.04.04 "WELL CONSTRUCTION" AND IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE ABOVE CAPTIONED PERMIT, AND THAT THE INFORMATION PRESENTED HEREIN IS ACCURATE AND COMPLETE TO THE BEST OF MY KNOWLEDGE.  
 DRILLERS LIC. NO. 1 M WD 553  
 DRILLERS SIGNATURE  
 LIC. NO. 1 WRD 097  
 SITE SUPERVISOR (sign. of driller or journeyman responsible for sitework if different from permittee)

Tax - 05 - 384532

EMERGENCY/TEMP NO. IF ANY

B 1 26054

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL please type

STATE PERMIT NUMBER

HO - 95 - 2607 fill in this form completely

545182

Date Received (APA)

11 05 13

OWNER INFORMATION

Li Edward Last Name Owner First Name 13270 Styer Court Street or RFD Highland MD 20777 Town State Zip

B 3

LOCATION OF WELL

Howard 8 COUNTY 21 Allouth Farms Est 23 SUBDIVISION SECTION 44 46 LOT 48 50 Highland 52 NEAREST TOWN 71

DRILLER INFORMATION

C. John Hess MWD 553 Driller's Name License No. Allied Environmental Services Firm Name Do Box 129 Annapolis Junction, MD, 20701 Address John Hess 11/30/13 Signature Date

B 4

SOURCES OF DRILLING WATER

- 1. Public

13270 S Styer Ct 11 STREET ADDRESS 30 ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX) NORTH WEST SOUTH EAST DISTANCE FROM ROAD 34 40 37 ENTER FT OR MI 38 39 TAX MAP: 0034 BLK: 0015 PARCEL 0374

B 2

WELL INFORMATION

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) I INDUSTRIAL, COMMERCIAL, DEWATERING P PUBLIC WATER SUPPLY WELL T TEST, OBSERVATION, MONITORING O OPEN LOOP GEOTHERMAL C CLOSED LOOP GEOTHERMAL 2 loops

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL

Howard 13 COUNTY NAME COUNTY NO. STATE SIGNATURE INSERT S 41 DATE ISSUED 11/14/2013 CO SIGNATURE 11/14/14 EXP. DATE

APPROXIMATE DEPTH OF WELL 400 FEET

APPROXIMATE DIAMETER OF WELL 6" NEAREST INCH

METHOD OF DRILLING (circle one)

BORED (or Augered) JETTED Jetted & DRIVEN AIR-ROTary AIR-Percussion ROTARY (Hydraulic Rotary) 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 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

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

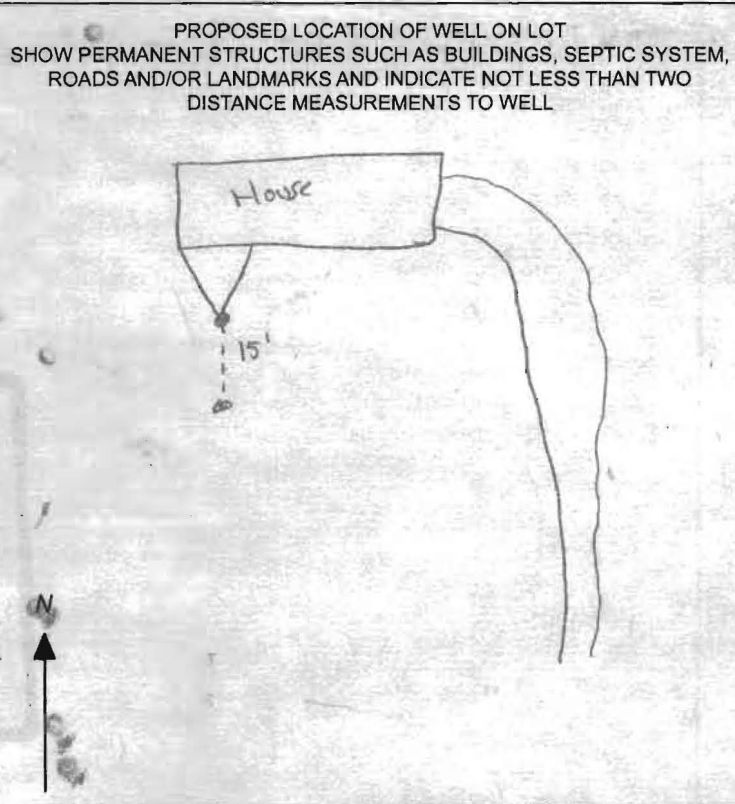
APPROX. PERMIT NUMBER G

PERMIT No. HO - 95 - 2607

SPECIAL CONDITIONS

NOTE APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED

Wells must be grouted from bottom to top



Ground Loop



GRADE

EACH BORE HOLE (TYP.)

**RECEIVED**

NOV 14 2013

HOWARD COUNTY HEALTH DEPT.  
COMMUNITY HYGIENE PROGRAM

HORIZONTAL BURY  
DEPTH 4 FT

FOR CONT.  
SEE PLANS

HORIZONTAL  
PIPING

GROUT ENTIRE ANNUAL  
SPACE AND VERTICAL  
U-TUBE WITH (BENTANITE)  
GROUT.

BORE DEPTH

TAPE

5 TO 10 FOOT SECTION OF  
REBAR TO GUIDE TUBE  
INTO BORE DURING  
INSTALLATION

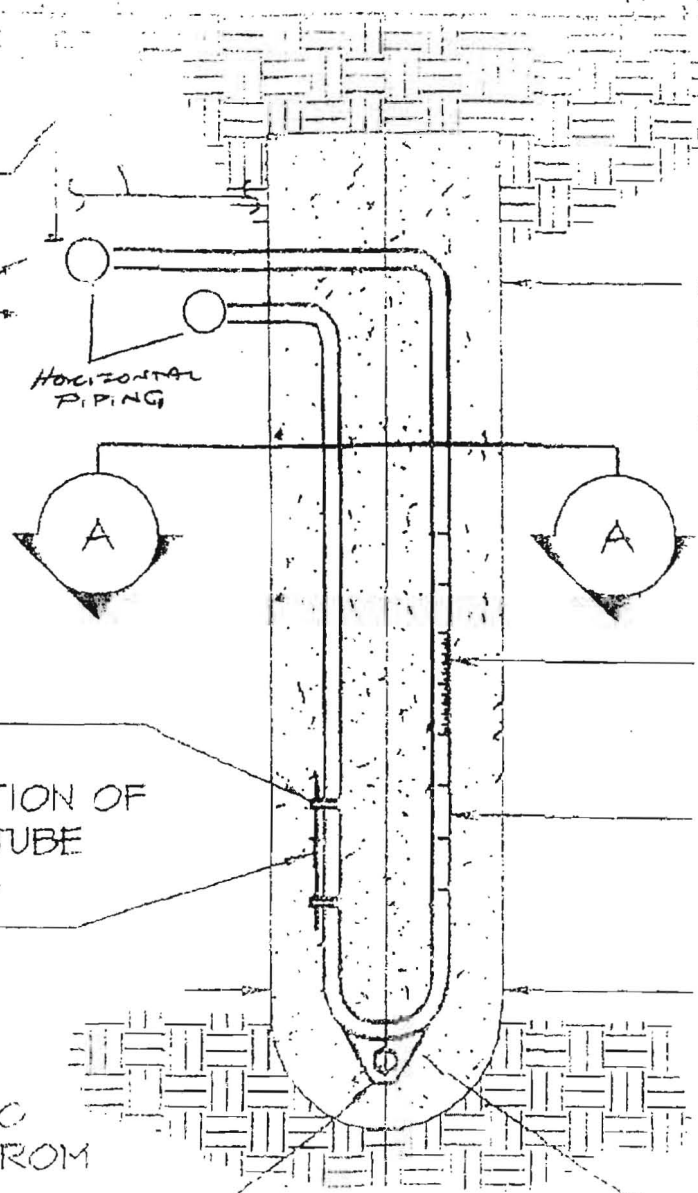
DEPTH MARKINGS IN FEET TO  
INDICATE DEPTH OF INSERTION

TYPICAL VERTICAL U TUBE  
1.5 INCHES

TYPICAL BORE DIAMETER  
6.0 INCHES

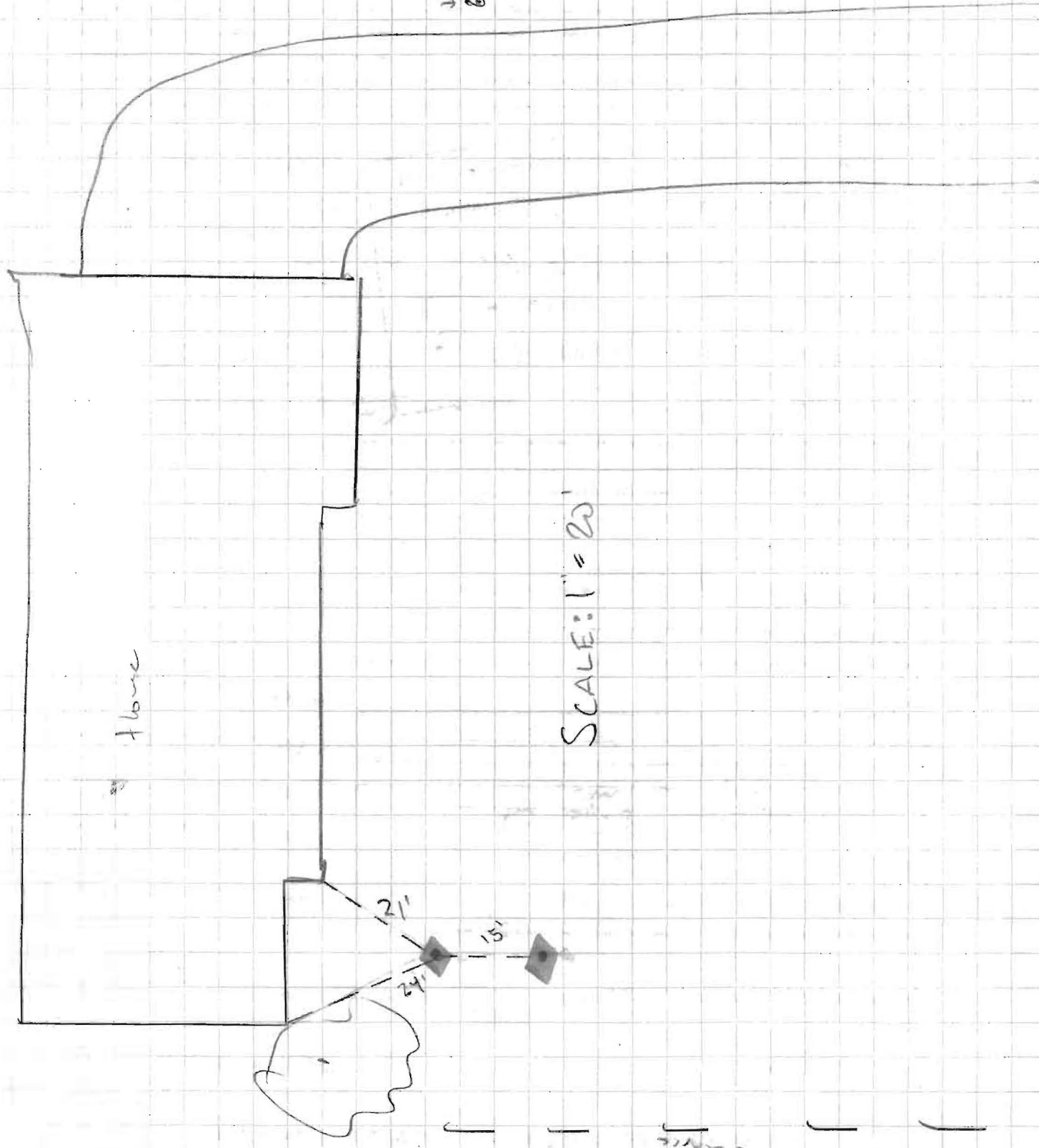
TYPICAL SOCKET U-BEND

ANCHOR FITTING TO  
PREVENT U-TUBE FROM  
SURFACING AFTER  
INSTALLATION



15270 Styer Ct  
Hightstown, MD

↑↑  
Electric



this work

SCALE: 1" = 20'

House

Electric

24'

21'

15'



**Bureau of Environmental Health**

7178 Columbia Gateway Drive, Columbia, MD 21046-2147

Main: 410-313-2640 | Fax: 410-313-2648

TDD 410-313-2323 | Toll Free 1-866-313-6300

[www.hchealth.org](http://www.hchealth.org)

Facebook: [www.facebook.com/hocohealth](https://www.facebook.com/hocohealth)


Twitter: [HowardCoHealthDep](https://twitter.com/HowardCoHealthDep)

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

---

**MEMORANDUM**

TO: C. John Hess, MWD 553  
Allied Environmental Services

FROM: Ryan Rappaport, *L.E.H.S.*   
Well & Septic Program

CC: Jeff Williams, Program Supervisor  
Well & Septic Program

RE: Well Permit Application, 13270 Styer Court

DATE: November 14, 2013

---

The Health Department is in receipt of a well permit application for the above listed address. It has been reviewed and is currently on hold. The following requirements are needed in order to issue the permit.

1. A revised well exhibit on an 8 ½" by 11" paper with a 1" to 30' to 1" = 100' scaled drawing of the property showing additional information including the property lines, the existing septic components and septic reserve area.
2. A cross-sectional diagram of the proposed geothermal well construction including a statement of the intended grout mix.

CC: File