

C1 20741

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND WELL COMPLETION REPORT

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

1 2 3 4 5 6 (THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)

COUNTY NUMBER

ST/CO USE ONLY DATE Received

DATE WELL COMPLETED

Depth of Well 22 290 26 (TO NEAREST FOOT)

PERMIT NO. FROM "PERMIT TO DRILL WELL" 28 29 30 31 32 33 34 35 36 37

OWNER: Harbanis, Brenda; WELL SITE ADDRESS: 8963 High Ridge Rd; TOWN: Elkton City MD

WELL LOG Not required for driven wells

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

Table with columns: DESCRIPTION, FEET (FROM, TO), check if water bearing. Includes entries for Top soil/sand, Brn Rock, and Soft Gray Rock.

GROUTING RECORD

WELL HAS BEEN GROUTED (Y/N); TYPE OF GROUTING MATERIAL (Cement, Bentonite Clay); NO. OF BAGS; GALLONS OF WATER; DEPTH OF GROUT SEAL

CASING RECORD

MAIN CASING TYPE; Nominal diameter top (main) casing; Total depth of main casing

OTHER CASING (if used) diameter inch; depth (feet) from to

SCREEN RECORD: screen type or open hole; insert appropriate code below

PUMPING TEST

HOURS PUMPED; PUMPING RATE; METHOD USED TO MEASURE PUMPING RATE; WATER LEVEL; BEFORE PUMPING; WHEN PUMPING; TYPE OF PUMP USED

NUMBER OF UNSUCCESSFUL WELLS; WELL HYDROFRACTURED

CIRCLE APPROPRIATE LETTER: A (Abandoned), E (Electric Log), P (Production Well)

I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN ACCORDANCE WITH COMAR 26.04.04

DRILLERS LIC. NO. MWD 553; DRILLERS SIGNATURE; LIC. NO. AW D 942

SITE SUPERVISOR (sign. of driller or journeyman responsible for sitework)

DEPTH (nearest ft.) table with columns 1-21; SLOT SIZE; DIAMETER OF SCREEN

GRAVEL PACK IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 68

MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER); TELESCOPE CASING; LOG INDICATOR; OTHER DATA

PUMP INSTALLED; DRILLER INSTALLED PUMP; TYPE OF PUMP INSTALLED; CAPACITY: GALLONS PER MINUTE; PUMP HORSE POWER; PUMP COLUMN LENGTH; CASING HEIGHT

LATITUDE 39.29500; LONGITUDE 76.80328; (DEFAULT COORD. WGS 84)

NOTES: front; 39.29499; 76.80230

Tax 02-25279

B 1 26056

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL

STATE PERMIT NUMBER

HO-95-2609

545188 please type

fill in this form completely

Date Received (APA) 11/13/13

OWNER INFORMATION

8 MM DD YY 13
15 Last Name Hurbanis Owner Brenda First Name 34
36 8403 High Ridge Rd. Street or RFD 55
57 Ellicott City MD 21043 Town 70 State 72 Zip 76

LOCATION OF WELL

Howard 8 COUNTY 21
Ivy Hill 23 SUBDIVISION 42
SECTION 44 46 LOT 48 50
Ellicott City 52 NEAREST TOWN 71

DRILLER INFORMATION

C. John Hess Driller's Name 76 MWD 553 License No. 81
Allieco Environmental Services Firm Name
P.O. Box 129 Annapolis Junction, MD 20701 Address
C. John Hess Signature 12/30/13 Date

SOURCES OF DRILLING WATER

8403 High Ridge Rd. 11 STREET ADDRESS 30
1. Public
2.
3.
ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)
NORTH N
WEST W 32 EAST E
SOUTH S
34 55 37
DISTANCE FROM ROAD
ENTER FT OR MI 38 39
TAX MAP: 0018 BLK: 0013 PARCEL 0013

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 12/5/2013 R-AT 12/5/13
43 MM DD YY 48 CO SIGNATURE EXP. DATE

APPROXIMATE DEPTH OF WELL 290 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)

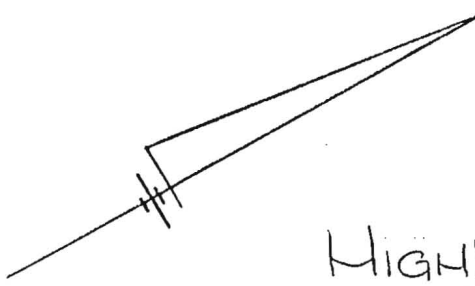
- N THIS WELL WILL NOT REPLACE AN EXISTING WELL
Y THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED
S THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY-CONTACT LOCAL APPROVING AUTHORITY FOR POLICY ON STANDBY WELLS
D THIS WELL WILL DEEPEMED AN EXISTING WELL
PERMIT NUMBER OF WELL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

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



Not to be filled in by driller (MDE OR COUNTY USE ONLY)
APPROP. PERMIT NUMBER G
PERMIT No. HO-95-2609

SPECIAL CONDITIONS well's must be grouted from bottom to top.



HIGHRIDGE ROAD Mac Paving

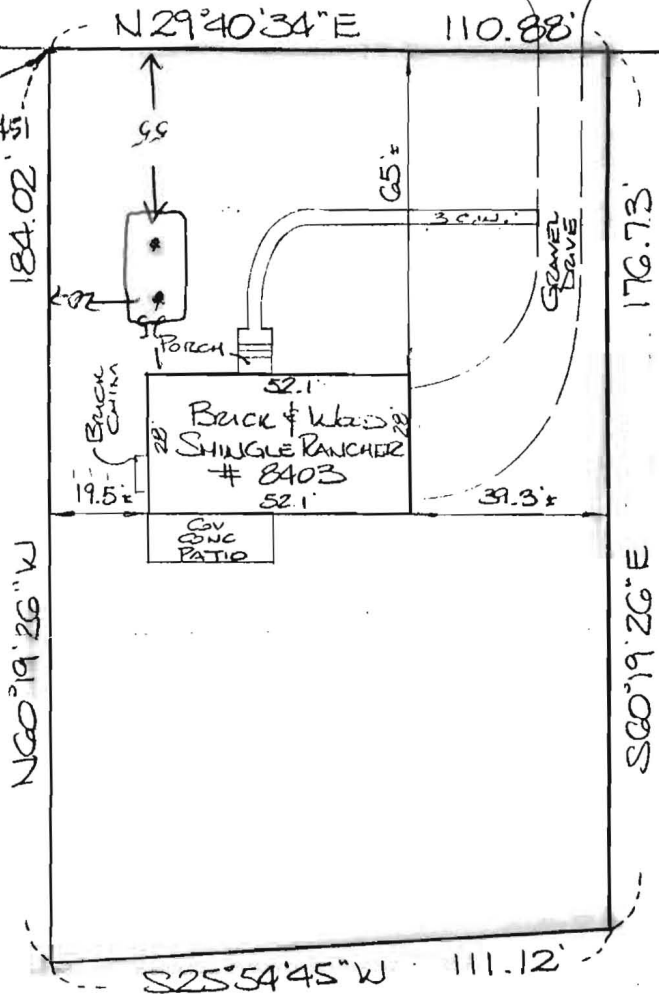
EDGE Mac

1/4
#10
#3
#2

Bay Point
Liber 1511, Folio 451

Well Sites
OK RP
12/5/13

Lot 1 - Section 1
"IVY HILL"



Lill

THIS IS TO CERTIFY THAT
THE LOT SHOWN HEREON
IS NOT IN A FLOOD PLAIN.

THIS IS TO CERTIFY That The Improvements Indicated
Hereon Are Located As Shown. This Is Not A Property
Line Survey And Should Not Be Used As Such.

HICKS ENGINEERING COMPANY, INC. ENGINEERS • SURVEYORS • PLANNERS 200 EAST JOPPA ROAD - SUITE 402 TOWSON, MARYLAND 21204 TELEPHONE: 301/494-0001	LOCATION CERTIFICATION: #8403 HIGHRIDGE ROAD HOWARD COUNTY LIBER 1511, FOLIO 451.		
	DATE: 3/10/88	SCALE: 1"=30'	FILE: 5353

HOWARD COUNTY GROUTING PROCEDURE

Boreholes will be grouted from the bottom to the top via a tremie pipe and positive displacement pump. Bentonite grout, known as Quik-Grout will be used according to the manufacturer's specifications to achieve a consistency of at least 20% solids (24 gallons potable water/50 lb. sack of grout) and a permeability no more than $2.5 \text{ E}(-08) \text{ cm/sec}$. Grouting will be completed immediately after installing the geothermal loop and no later than twenty-four (24) hours after installing the geothermal loop. Open boreholes/annular space will be protected as necessary to prevent the entry of surface water or pollutants.