

C1 22803

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND WELL COMPLETION REPORT

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

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

FILL IN THIS FORM COMPLETELY PLEASE TYPE

COUNTY NUMBER

ST/CO USE ONLY DATE Received MM DD YY 08 08 13

DATE WELL COMPLETED MM DD YY 06 30 13

Depth of Well 22 370 (TO NEAREST FOOT)

26 2/15/2015 O.K. [Signature]

PERMIT NO. FROM "PERMIT TO DRILL WELL" HO-93-2534

OWNER MARGOLIS Steve WELL SITE ADDRESS 6749 Cortina Drive TOWN Highland SUBDIVISION SECTION LOT

WELL LOG table with columns: DESCRIPTION, FEET (FROM, TO), check if water bearing. Includes entries for Soil, Clay, Brown Shale, and Med Gray Rock.

GROUTING RECORD section including WELL HAS BEEN GROUTED (Y), TYPE OF GROUTING MATERIAL (Cement, Bentonite Clay), NO. OF BAGS, NO. OF POUNDS, GALLONS OF WATER, DEPTH OF GROUT SEAL.

CASING RECORD section including MAIN CASING TYPE (Steel, Concrete, Plastic, Other), Nominal diameter, Total depth.

OTHER CASING (if used) section including diameter, depth.

SCREEN RECORD section including screen type (Steel, Brass, Plastic, Open Hole, Other), DEPTH (nearest ft.), SLOT SIZE, DIAMETER OF SCREEN.

PUMPING TEST section including HOURS PUMPED, PUMPING RATE, METHOD USED TO MEASURE PUMPING RATE, WATER LEVEL, TYPE OF PUMP USED.

PUMP INSTALLED section including DRILLER INSTALLED PUMP, TYPE OF PUMP INSTALLED, CAPACITY, PUMP HORSE POWER, PUMP COLUMN LENGTH, CASING HEIGHT.

WELL HYDROFRACTURED (Y), CIRCLE APPROPRIATE LETTER (A, E, P), I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN ACCORDANCE WITH COMAR 26.04.04.

DEPTH (nearest ft.) table with columns for depth ranges (8-11, 15-17, 21-23, etc.)

DRILLERS LIC. NO. M D 355, DRILLERS SIGNATURE, LIC. NO. AW D 924, SITE SUPERVISOR responsible for sitework if different from permittee.

GRAVEL PACK IF WELL DRILLED WAS FLOWING WELL, MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER), TELESCOPE CASING, LOG INDICATOR, OTHER DATA.

LATITUDE 39.18535, LONGITUDE 76.98851, (DEFAULT COORD. WGS 84), NOTES: Front House diagram.

B 1 18655 SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL please type 545038

STATE PERMIT NUMBER Ho-95-2534 fill in this form completely

Date Received (APA) 05/14/13 OWNER INFORMATION Margolis Steve 6749 Cortina Drive Highland MD 20777

B 3 LOCATION OF WELL Howard 8 COUNTY Deer Track 23 SUBDIVISION SECTION 44 46 LOT 12 48 50 Highland 52 NEAREST TOWN

DRILLER INFORMATION Michael Barlow MWD 355 Barlow Well Drilling 522 Underwood Lane 2014 5/13/13

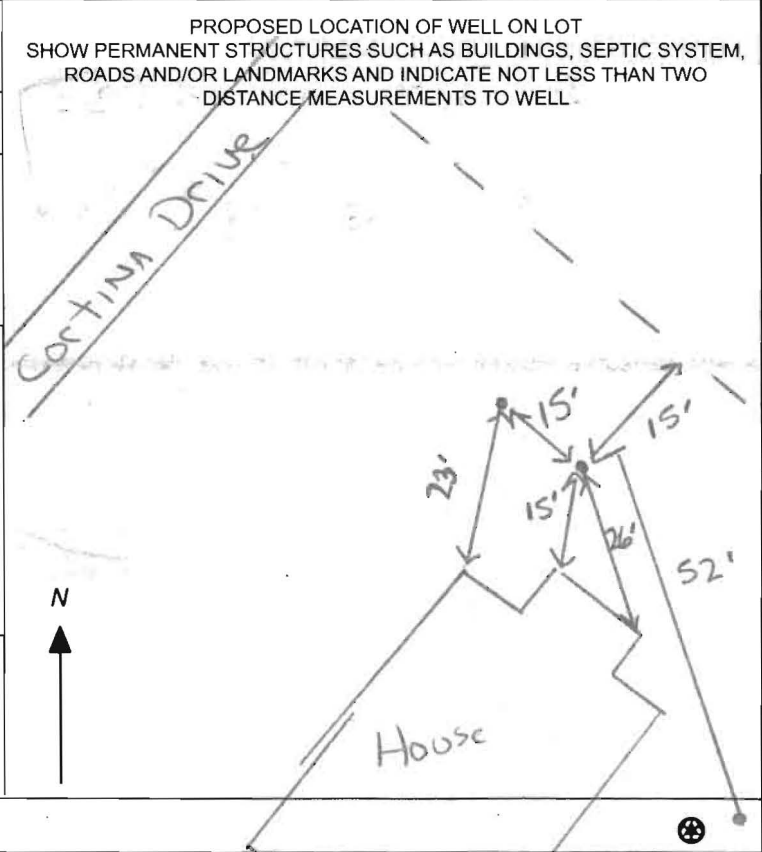
B 4 SOURCES OF DRILLING WATER 1. Well 6749 Cortina Drive 11 STREET ADDRESS 30 ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX) 34 125 37 DISTANCE FROM ROAD ENTER FT OR MI: 38 39 TAX MAP: 34 BLK: 19 PARCEL: 129

B 2 WELL INFORMATION APPROX. PUMPING RATE (GAL. PER MIN.) 0 8 12 AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) 0 14 20

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL Howard 13 A49007 COUNTY NAME COUNTY NO. STATE SIGNATURE DATE ISSUED 5/30/2013 CO SIGNATURE EXP. DATE 5/30/2014

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 Bores x 370'

APPROXIMATE DEPTH OF WELL 370 FEET APPROXIMATE DIAMETER OF WELL 6 INCH



METHOD OF DRILLING (circle one) BORED (or Augered) JETTED Jettted & DRIVEN AIR-ROTary AIR-PERCussion ROTARY (Hydraulic Rotary) CABLE REVerse-ROTary DRive-POINT other

REPLACEMENT OR DEEPEINED 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 DEEPEIN AN EXISTING WELL PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEINED (IF AVAILABLE) 41 52

Not to be filled in by driller (MDE OR COUNTY USE ONLY) APPROP. PERMIT NUMBER G PERMIT No. Ho-95-2534

SPECIAL CONDITIONS NOTE APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED-

**MICHAEL BARLOW WELL DRILLING  
522 UNDERWOOD LANE  
BEL AIR, MD 21014  
410-838-6910**

Howard County Health Department  
7178 Columbia Gateway Drive  
Columbia, MD 21046  
Fax: 410-313-2648

January 2, 2013

Re: 6749 Cortina Drive, Highland, MD

Dear Department of Environment:

Please note unless otherwise specified all geothermal bores installed by our company will be installed as follows:

Grout: Bentonite Grout 20% solids minimum  
Manufacture(s): Baroid or Wyo-Ben  
Will be grouted from the bottom to the top with grout material

Piping: Polyethylene SDR 11 160 PSI as recommended per IGSHPA  
Manufacture: EnDot or Charter Plastics or equal, Size 1" or 1 1/4"  
IGSHPA Certification Number 12687

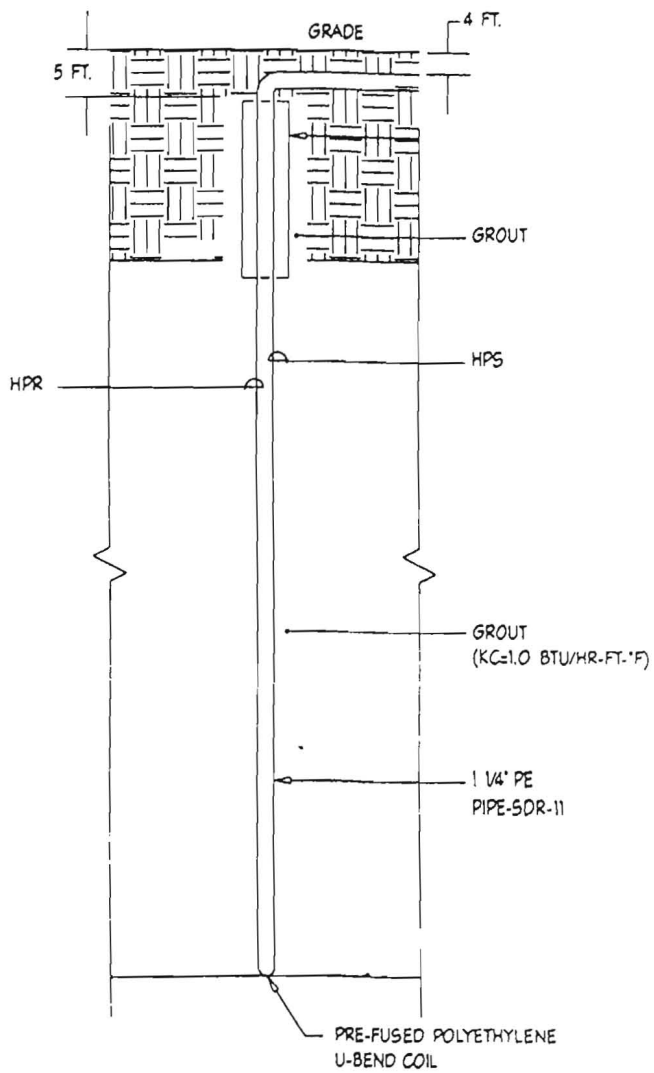
Also attached is a cross section diagram of the bore hole.

We would appreciate your help in getting this permit released as soon as possible so that we can expedite this project. If you have any questions, please do not hesitate to contact me.

Sincerely,



Michael Barlow



4 TYPICAL BORE HOLE DETAIL  
 M1.00 NOT TO SCALE