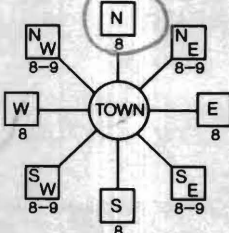



B 1 <div style="border: 1px solid black; padding: 2px; display: inline-block;">4632</div>	SEQUENCE NO. (MDE USE ONLY)	STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL please type	STATE PERMIT NUMBER <div style="font-size: 1.5em; font-family: cursive;">H0-95-1967</div> <div style="font-size: 0.8em;">70 fill in this form completely 79</div>
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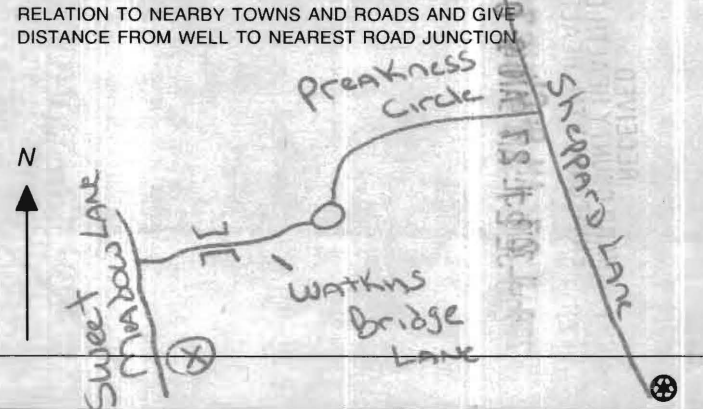
Date Received (APA) <div style="border: 1px solid black; padding: 2px; display: inline-block;">8 MM DD YY 13</div> <div style="border: 1px solid black; padding: 2px; display: inline-block;">Arnold Jim</div> <div style="border: 1px solid black; padding: 2px; display: inline-block;">3196 River Valley Chase</div> <div style="border: 1px solid black; padding: 2px; display: inline-block;">West Friendship MD 21794</div>	B 3 LOCATION OF WELL <div style="border: 1px solid black; padding: 2px; display: inline-block;">Howard</div> <div style="border: 1px solid black; padding: 2px; display: inline-block;">Walnut Grove</div> <div style="border: 1px solid black; padding: 2px; display: inline-block;">69</div> <div style="border: 1px solid black; padding: 2px; display: inline-block;">Clarksville</div>
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OWNER INFORMATION Driller's Name: Michael Barlow MWD 355 Firm Name: Barlow Well Drilling Address: 522 Underwood Lane 21014 Signature: [Signature] Date: 7-20-10	DRILLER INFORMATION DIRECTION OF WELL FROM TOWN (CIRCLE BOX) 
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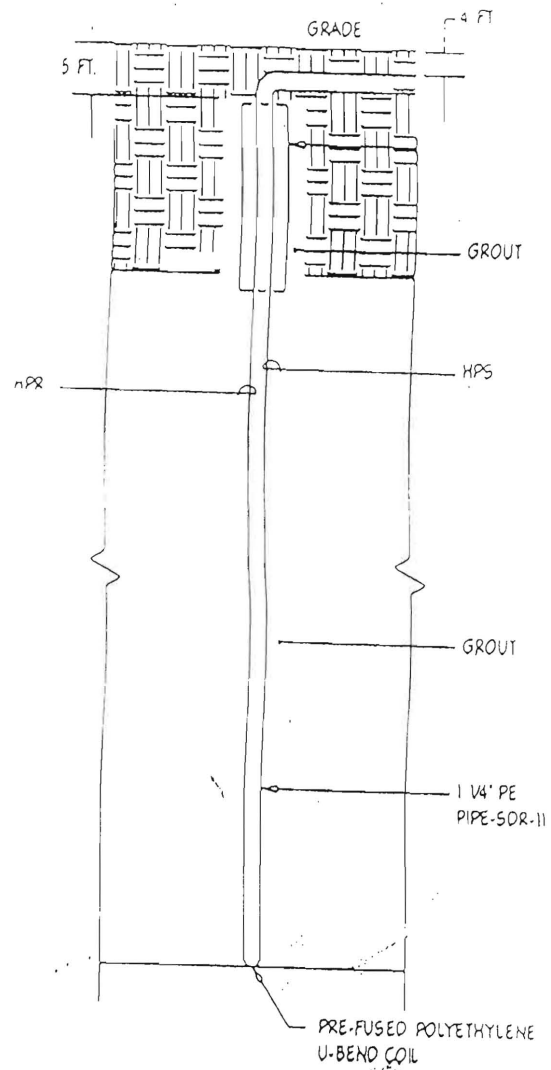
WELL INFORMATION APPROX. PUMPING RATE (GAL. PER MIN.) AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY)	ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)  DISTANCE FROM ROAD ENTER FT OR MI TAX MAP: 28 BLK: 18 PARCEL: 74
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USE FOR WATER (CIRCLE APPROPRIATE BOX) <input type="checkbox"/> DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION <input type="checkbox"/> FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION) <input type="checkbox"/> INDUSTRIAL, COMMERCIAL, DEWATERING <input type="checkbox"/> PUBLIC WATER SUPPLY WELL <input type="checkbox"/> TEST, OBSERVATION, MONITORING <input checked="" type="checkbox"/> GEO-THERMAL 6 bores x 350'	NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL <div style="border: 1px solid black; padding: 2px; display: inline-block;">Howard (13) A517422</div> COUNTY NAME: Howard COUNTY NO.: 13 STATE SIGNATURE: Brian Baker DATE ISSUED: 8/10/2010 CO SIGNATURE: [Signature] EXP. DATE: 8/10/2011 NORTH GRID: 510 EAST GRID: 812
---	---

APPROXIMATE DEPTH OF WELL 350 FEET APPROXIMATE DIAMETER OF WELL 6 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:	SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X SOURCES OF DRILLING WATER 1. 2. 3. WRITE THE BOX NUMBER FROM THE MAP HERE E 8102 N 500
---	--

REPLACEMENT OR DEEPEMED WELLS (CIRCLE APPROPRIATE BOX) <input checked="" type="checkbox"/> THIS WELL WILL NOT REPLACE AN EXISTING WELL <input type="checkbox"/> THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED <input type="checkbox"/> THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY-CONTACT LOCAL APPROVING AUTHORITY FOR POLICY ON STANDBY WELLS <input type="checkbox"/> THIS WELL WILL DEEPEN AN EXISTING WELL PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEMED (IF AVAILABLE) 41 52	DRAW A SKETCH BELOW SHOWING LOCATION OF WELL IN RELATION TO NEARBY TOWNS AND ROADS AND GIVE DISTANCE FROM WELL TO NEAREST ROAD JUNCTION 
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Not to be filled in by driller (MDE OR COUNTY USE ONLY) APPROP. PERMIT NUMBER PERMIT No. H0-95-1967	SPECIAL CONDITIONS NOTE - APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED Keep Boreholes 10' From Property Lines
--	--



4 TYPICAL BORE HOLE DETAIL
H1.00 NOT TO SCALE



**Providing Quality Systems for Over 20 Years
Commercial & Residential Water Well Drilling
Test Borings & Consulting • Geothermal Drilling & Systems
NGWA & IGSHPA Certified**

July 20, 2010

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

Re: Sweet Meadow Lane, Lot 69

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,

A handwritten signature in black ink, appearing to read 'Michael Barlow', written over a horizontal line.

Michael Barlow