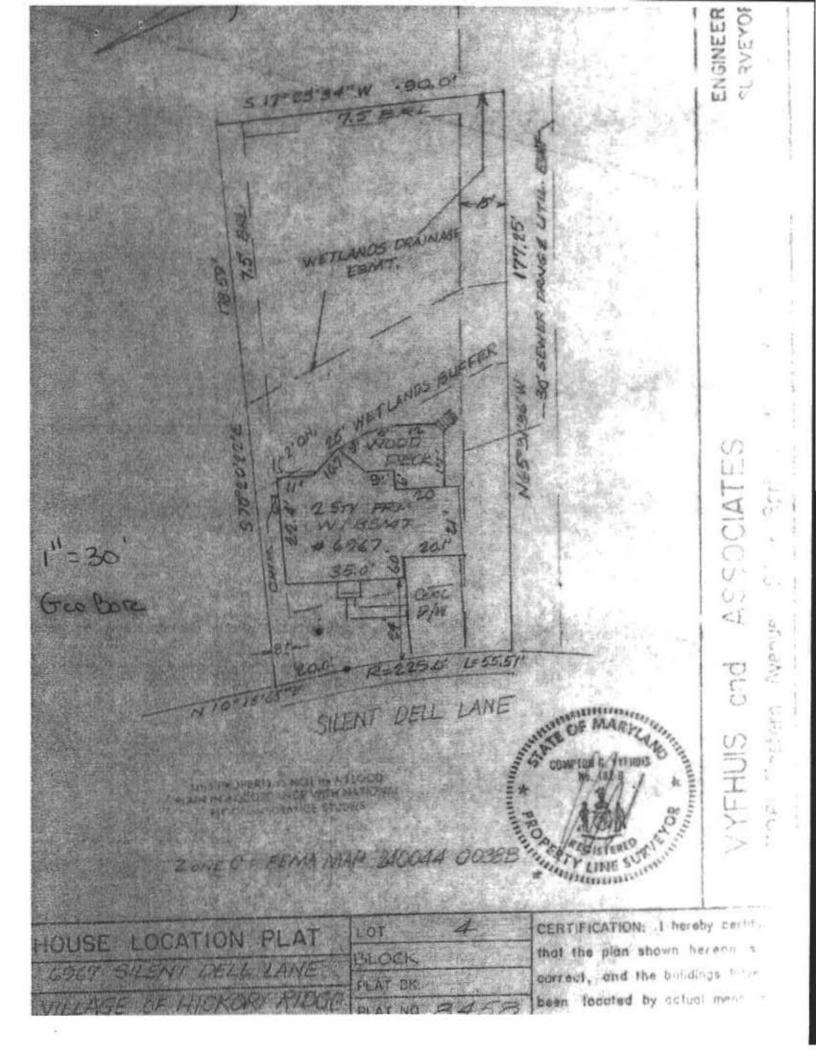
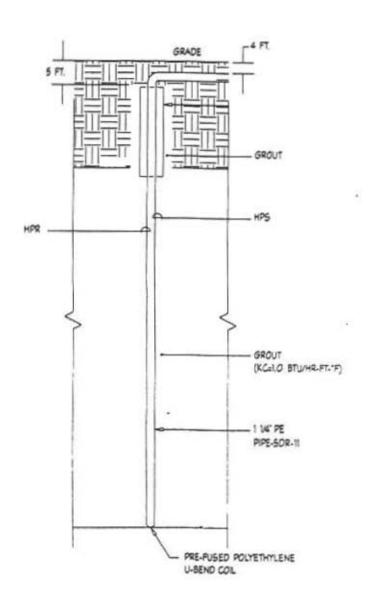
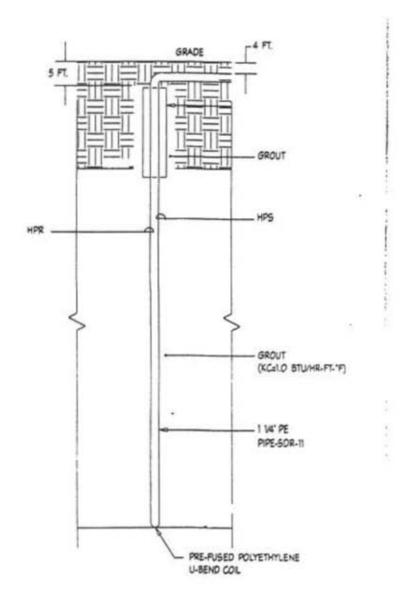
THIS NUMBER IS TO BE PIN COLS. 3-6 ON ALL CARL	(M UNCHED	DE USE	and the state of t	STATE OF MARYLAND WELL COMPLETION REPORT FILL IN THIS FORM COMPLETELY PLEASE TYPE	THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED. COUNTY NUMBER PERMIT NO. FROM "PERMIT TO DRILL WELL" 28 29 30 31 32 33 34 35 36 37	
ST/CO USE ONLY DATE Received MM DD DD YM 8 15		E WELL	COMPL S 1	Depth of Well 22 150 26 (TO NEAREST FOOT) 26 0 1		
OWNER	Just Harri	67	67 CKOP	Silent Dell Strange Town C Bidge SECTION	alumbia LOT 4	
WELL LOG Not required for driven wells				WELL HAS BEEN GROUTED (Circle Appropriate Box)	C 3	
STATE THE KIND OF FORMATIONS PENETRATED, THEIR COLOR, DEPTH, THICKNESS AND IF WATER BEARING CHECK IT WATER BEARING				CEMENT CM BENTONITE CLAY	HOURS PUMPED (nearest hour)	
additional sheets if needed)	FROM	10	bearing	NO. OF BAGS 46 30 NO. OF POUNDS 15450	PUMPING RATE (gal. per min.)	
DOIL	0	9	1013	DEPTH OF GROUT SEAL (to nearest foot)	METHOD USED TO MEASURE PUMPING RATE	
Keo Clay	6	21		from 48 TOP 52 ft. to 54 BOTTOM 58 ft. (enter 0 if from surface)	WATER LEVEL (distance from land surface)	
brown	-		Circles	casing CASING RECORD	BEFORE PUMPING 17 20 ft.	
Shale	21	50		insert appropriate code below PLASTIC OTHER	WHEN PUMPING 22 25 ft. TYPE OF PUMP USED (for test)	
MED HAD	1	ANSAR:	9691	MAIN Nominal diameter Total depth CASING top (main) casing of main casing	A air P piston T turbine	
GRAJ ROCK	50	480		TYPE (nearest inch)f (nearest foot)	C centrifugal R rotary O (describ	
	18.5			60 61 65 54 66 70 E OTHER CASING (if used)	J jet S submersible	
				diameter depth (feet) inch from to	PUMP INSTALLED DRILLER INSTALLED PUMP YES NO	
					(CIRCLE) (YES or NO) IF DRILLER INSTALLS PUMP, THIS SECTION	
		- 1	X	screen type SCREEN RECORD	MUST BE COMPLETED FOR ALL WELLS. TYPE OF PUMP INSTALLED	
	38			or open hole ST BR HO	PLACE (A,C,J,P,R,S,T,O) IN BOX 29. CAPACITY:	
			gas.	appropriate code below BRONZE PL OT	GALLONS PER MINUTE (to nearest gallon) 31 35	
La Sanda Lanna	-	ec.	100	PLASTIC OTHER	PUMP HORSE POWER 37 4	
NUMBER OF UNSUCCESSFUL WELLS:				DEPTH (nearest ft.)	PUMP COLUMN LENGTH (nearest ft.)	
WELL HYDROFRACTURED	1	Yes	(N)	E 1 8 9 11 15 17 21	CASING HEIGHT (circle appropriate box and enter casing height)	
CIRCLE APPROPRIATE LETTER A A WELL WAS ABANDONED AND SEALED				H ² 23 24 26 30 32 36	49 LAND SURFACE	
E ELECTRIC LOG OBTAINED				C 3 R 38 39 41 45 47 51	below (nearest foot)	
P TEST WELL CONVERTED TO PRODUCTION WELL THEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN				E SLOT SIZE 1 2 3	LATITUDE 39. 18127	
ACCORDANCE WITH COMAR 26 OF IN CONFORMANCE WITH ALL CONCAPTIONED PERMIT, AND THAT HEREIN IS ACCURATE AND COKNOWLEDGE.	NOTIONS ST	CONSTRUCT TATED IN T IMATION PI	TION" AND HE ABOVE RESENTED	DIAMETER	(DEFAULT COORD, WGS 84) NOTES:	
DRILLERS LIE NO. MUD 355				GRAVEL PACK # WELL DRILLED WAS FLOWING WELL	SK 21 16.7	
DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION) LIC. NO. 104 D 924				INSERT F IN BOX 68 68 MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER)	A Hase	
LIC. NO. 1	100	74	+,	T (E.R.O.S.) W Q	F Le	
SITE SUPERVISOR (sign. of driller or journeyman responsible for silework if different from permittee)				70 72 74 75 76 TELESCOPE LOG 74 75 76 CASING MOICATOR OTHER DATA		
MDEWMAPER.071	137		100	COLINITY	1	

B 1 18656 SEQUENCE NO. (MDE USE ONLY)	APPLICATION FOR	OF MARYLAND PERMIT TO DRILL WELL ease type	HO-95-2533 fill in this form completely
Date Received (APA) B MM DO VY 13 15 Last Name Owner 15 Control Owner 15 Control Owner 16 Control Owner 17 Town 70 State 18 DRILLER INFORMATION	First Name 34 11 CANE 55 21044 72 Zip 76	8 COUNTY 23 SUBDIVISION SECTION 44 46 52 NEAREST TOWN	21
Driller's Name Bactors Well Drill N Firm Name Socious Well Drill N Firm Name Socious Well Drill N Firm Name Socious Well Drill N Address Signature B 2 WELL INFORMATION APPROX. PUMPING RATE (GAL PER MIN.) AVERAGE DAILY QUANTITY NEEDED (GAL PER DAY) 14	76 License No. 81	B 4 SOURCES OF DRILLING WATER 1. VC \ 2. 3.	ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX) 34 20 37 SOUTH DISTANCE FROM ROAD ENTER FT OR MI 38 39 TAX MAP: 41 BLK: PARCEL 101
USE FOR WATER (CIRCLE A D DOMESTIC POTABLE SUPPLY & RESID IRRIGATION) F FARMING (LIVESTOCK WATERING & AI IRRIGATION) 1 INDUSTRIAL, COMMERCIAL, DEWATER P PUBLIC WATER SUPPLY WELL T TEST, OBSERVATION, MONITORING O OPEN LOOP GEOTHERMAL C CLOSED LOOP GEOTHERMAL	ENTIAL GRICULTURAL		Bran Bahr 5/30 2014 CO SIGNATURE DESCRIPTION CO SIGNATURE DESCRIPTION CO SIGNATURE CO SIGNATURE DESCRIPTION A 1 2014 EXP DATE
APPROXIMATE DEPTH OF WELL APPROXIMATE DIAMETER OF WELL METHOD OF DRILLING BORED (or Augered) JETTED AIR-ROTary AIR-PERcussion 7 CABLE Other	NEARE INCH G (circle one) Jetted & DRIVEN ROTARY (Hydraulic Rotary) DRive-POINT	SHOW PERMANENT STRU ROADS AND/OR LAND	SED LOCATION OF WELL ON LOT JCTURES SUCH AS BUILDINGS, SEPTIC SYSTEM, DMARKS AND INDICATE NOT LESS THAN TWO ICE MEASUREMENTS TO WELL
REPLACEMENT OR DEEF (CIRCLE APPROPRIATION OF CORRECT OF	TING WELL TWILL BE WILL BE USED VING AUTHORITY WELL OR DEEPENED 52	Driver	House House
SPECIAL CONDITIONS HOTE. APPROVING AUTHORITIES BHOULD USE SEPARATE SHEET IF NEEDED	12 13 14 15 16 17 18 19		•











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

Howard County Health Department 7178 Columbia Gateway Drive

May 13, 2013

Columbia, MD 21046 Fax: 410-313-2648

Re: 6967 Silent Dell Lane, Columbia

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

C Michael