

DRILLER: REMOVE COPY AND RETAIN FOR YOUR RECORDS. RETURN COUNTY COPY TO COUNTY ENVIRONMENTAL AGENCY. SUBMIT COPY TO OWNER. RETURN ALL OTHER PARTS TO DEPARTMENT OF ENVIRONMENT, 2500 BROENING HIGHWAY, BALTIMORE, MARYLAND 21224.

C1 4965	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.
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37	DATE WELL COMPLETED MM DD YY 10 15 09		PERMIT NO. FROM "PERMIT TO DRILL WELL" 10 - 95 - 1820
ST/CO USE ONLY DATE Received MM DD YY 8 13	Depth of Well 22 225 26 (TO NEAREST FOOT)		COUNTY NUMBER
OWNER last name first name 5510 East Park Rd		TOWN Columbia	
STREET OR RFD		SECTION	LOT
SUBDIVISION			

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	
Dirt	0	30	
Med Tan	30	45	
Hard Gray	45	161	
Med Gray	14	225	
X2 C2			

GROUTING RECORD		yes <input checked="" type="checkbox"/> Y	no <input type="checkbox"/> N
WELL HAS BEEN GROUTED (Circle Appropriate Box)			
TYPE OF GROUTING MATERIAL (Circle one)			
CEMENT <input checked="" type="checkbox"/> CM		BENTONITE CLAY <input checked="" type="checkbox"/> BC	
NO. OF BAGS 45 46 11		NO. OF POUNDS 45 46 570	
GALLONS OF WATER 275			
DEPTH OF GROUT SEAL (to nearest foot)			
from 48 TOP 52 ft. to 54 BOTTOM 58 ft. (enter 0 if from surface)			
CASING RECORD			
casing types insert appropriate code below	<input checked="" type="checkbox"/> ST	<input type="checkbox"/> CO	
	STEEL	CONCRETE	
	<input checked="" type="checkbox"/> PL	<input type="checkbox"/> OT	
	PLASTIC	OTHER	
MAIN CASING TYPE		Nominal diameter top (main) casing (nearest inch)!	Total depth of main casing (nearest foot)
		60 61	63 64 66 70

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

SCREEN RECORD	
screen type or open hole	<input checked="" type="checkbox"/> ST <input type="checkbox"/> BR <input type="checkbox"/> HO
	STEEL BRASS OPEN HOLE
	<input checked="" type="checkbox"/> PL <input type="checkbox"/> OT
	PLASTIC OTHER

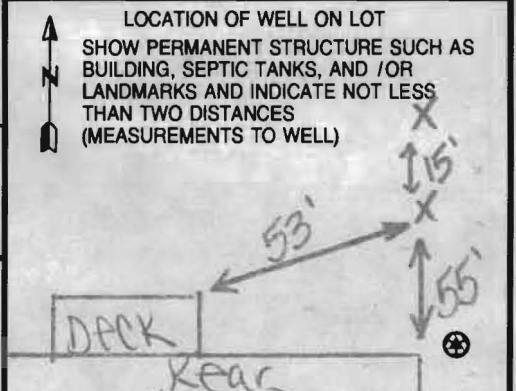
C2	DEPTH (nearest ft.)
1	2
1	8 9 11 15 17 21
2	23 24 26 30 32 36
3	38 39 41 45 47 51
SLOT SIZE 1 _____ 2 _____ 3 _____	
DIAMETER OF SCREEN (NEAREST INCH)	
56 60	
from to	

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

MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER)	
T (E.R.O.S.)	W Q
70	72
74	75 76

C3	PUMPING TEST	
HOURS PUMPED (nearest hour) 8 9		
PUMPING RATE (gal. per min.) 11 15		
METHOD USED TO MEASURE PUMPING RATE		
WATER LEVEL (distance from land surface)		
BEFORE PUMPING 17 20 ft.		
WHEN PUMPING 22 25 ft.		
TYPE OF PUMP USED (for test)		
<input checked="" type="checkbox"/> A air	<input type="checkbox"/> P piston	<input type="checkbox"/> T turbine
<input checked="" type="checkbox"/> C centrifugal	<input type="checkbox"/> R rotary	<input type="checkbox"/> O other (describe below)
<input type="checkbox"/> J jet	<input type="checkbox"/> 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	29
CAPACITY: GALLONS PER MINUTE (to nearest gallon)	31 35
PUMP HORSE POWER	37 41
PUMP COLUMN LENGTH (nearest ft.)	43 47
CASING HEIGHT (circle appropriate box and enter casing height)	LAND SURFACE
<input checked="" type="checkbox"/> + above	(nearest foot)
<input type="checkbox"/> - below	50 51



NUMBER OF UNSUCCESSFUL WELLS: 0
WELL HYDROFRACTURED <input checked="" type="checkbox"/> Y <input type="checkbox"/> N
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. MW D 355
DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION)
LIC. NO. MW D 553
SITE SUPERVISOR (sign. of driller or journeyman)

B 1 2163
1 2 3 6

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND
APPLICATION FOR PERMIT TO DRILL WELL
531928 please type

STATE PERMIT NUMBER

140-95-1820
70 fill in this form completely 79

Date Received (APA)

OWNER INFORMATION

8 MM DD YY 13
Clair, Tim
15 Last Name Owner First Name 34
5540 Eagleback Row
36 Street or RFD 55
Columbia, Md 21045
57 Town 70 State 72 Zip 76

B 3

LOCATION OF WELL

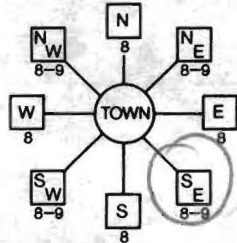
8 COUNTY Howard 21
23 SUBDIVISION 2P 42
SECTION 44 46 LOT 48 50
Columbia
52 NEAREST TOWN 71
MILES FROM TOWN (enter 0 if in town) 10 M 73 76 77 78

DRILLER INFORMATION

Driller's Name Michael Barlow M W D 355
76 License No. 81
Firm Name Barlow Well Drilling Service
Address 522 Underwood Ln, Bel Air, Md
Signature [Signature] Date 9-18-09

B 4

DIRECTION OF WELL FROM TOWN (CIRCLE BOX)



5540 Eagleback Row
11 NEAR WHAT ROAD 30
ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)
NORTH
WEST EAST
SOUTH
34 150 37
DISTANCE FROM ROAD
ENTER FT OR MI 38 39
TAX MAP: 30 BLK: 24 PARCEL 289

B 2

WELL INFORMATION

APPROX. PUMPING RATE (GAL. PER MIN.) 0
8 12
AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) 000
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
- G GEO-THERMAL 2x225'

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL

Howard COUNTY NAME COUNTY NO. 13
STATE SIGNATURE _____ INSERT S → 41
DATE ISSUED 10/2/09 Kim Wall 10/2/09
43 MM DD YY 48 CO SIGNATURE EXP. DATE
NORTH GRID 555 0 0 0 EAST GRID 0852 0 0 0
50 55 57 63

APPROXIMATE DEPTH OF WELL 225 FEET
24 28

APPROXIMATE DIAMETER OF WELL 6 NEAREST INCH

METHOD OF DRILLING (circle one)

- BORED (or Augered) JETTED Jetted & DRIVEN
- 30 AIR-ROTary AIR-PERCussion ROTARY (Hydraulic Rotary)
- 37 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
 - 39 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. 140-95-1820
70 71 72 73 74 75 76 77 78 79

SPECIAL CONDITIONS

NOTE - APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED

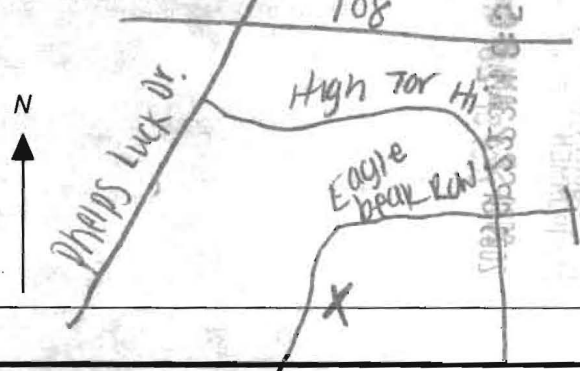
SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X

- SOURCES OF DRILLING WATER
- 1.
 - 2.
 - 3.

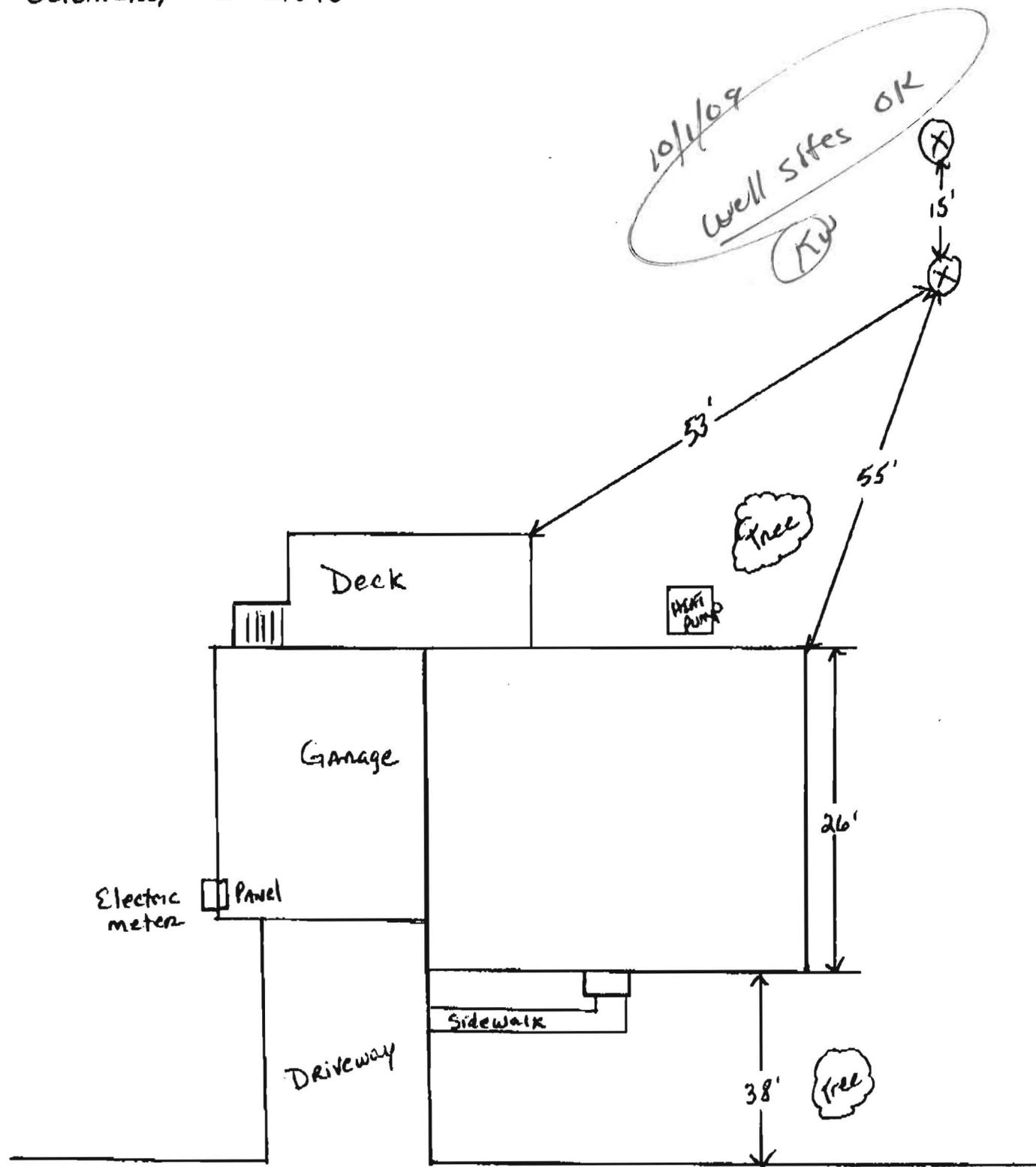
WRITE THE BOX NUMBER FROM THE MAP HERE

E 8502
N 6505
000
000

DRAW A SKETCH BELOW SHOWING LOCATION OF WELL IN RELATION TO NEARBY TOWNS AND ROADS AND GIVE DISTANCE FROM WELL TO NEAREST ROAD JUNCTION



Tim & Ginny Clair
5540 Eaglebeak Row
Columbia, MD 21045



5540 Eaglebeak Row



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

September 18, 2009

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

Re: Mr. Tim Clair
5540 Eaglebeak Row
Columbia, Maryland 21045

Dear Department of Environment:

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

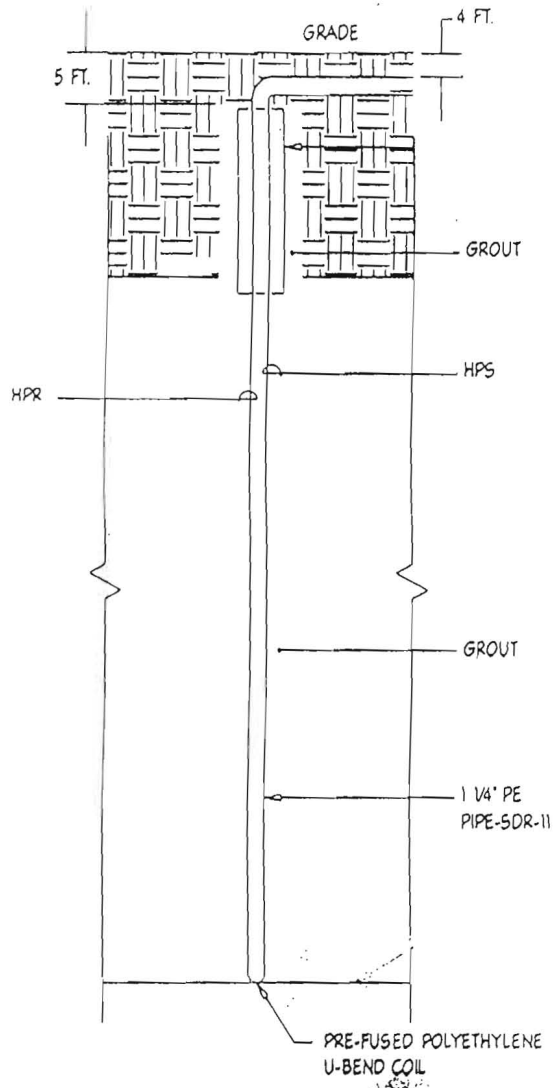
- Grout: Bentonite Grout 20% solids minimum
Manufacture(s): Baroid or Wyo-Ben
Will be grouted from the bottom to the top with grout material
- Piping: Polyethylene SDR 11 160 PSI as recommended per IGSHPA
Manufacture: EnDot or Charter Plastics or equal, Size 1" or 1 ¼"
IGSHPA Certification Number 12687

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