



# HOWARD COUNTY HEALTH DEPARTMENT

33229

DATE  
5 / 6 / 10

1115

Received  
From

Kenneth P. Westrick

PHONE #

☐ CASH  
☒ CHECK

NO.

2593

For

geo. thermal well Lot 6  
12006 Triadelphia Rd.

one hundred sixty -

Dollars

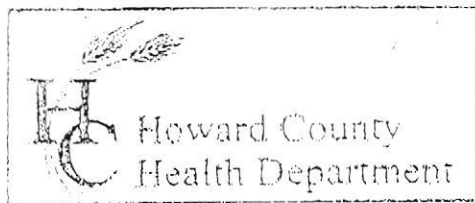
\$

160.00

Received By

1115m18

B 1	4618	SEQUENCE NO. (MDE USE ONLY)	STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL	STATE PERMIT NUMBER <u>140-95-1904</u> <small>fill in this form completely</small>
1 2 3 6			533229 please type	
Date Received (APA) 8 MM DD YY 13		OWNER INFORMATION		
		11330		
15 Last Name		Owner		34 First Name
36		Street or RFD		55
57		Town	70 State	72 Zip 76
DRILLER INFORMATION				
Driller's Name		M D		81 License No.
Firm Name				
Address				
Signature				
Date				
B 2		WELL INFORMATION		
1 2		APPROX. PUMPING RATE (GAL. PER MIN.)		
		8 12		
AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY)		14 20		
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				
NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL				
COUNTY NAME <u>Howard</u> COUNTY NO. <u>13</u> STATE SIGNATURE _____ INSERT S → DATE ISSUED <u>5/11/10</u> CO SIGNATURE <u>140-95-1904</u> EXP. DATE <u>5/11/11</u> NORTH GRID <u>527</u> 000 EAST GRID <u>0816</u> 000 50 55 57 63				
APPROXIMATE DEPTH OF WELL <u>300-450</u> FEET APPROXIMATE DIAMETER OF WELL <u>6</u> INCH METHOD OF DRILLING (circle one) BORED (or Augered) <u>AIR-ROTary</u> JETTED <u>ROTARY (Hydraulic Rotary)</u> Jetted & DRIVEN CABLE <u>REVERSE-ROTary</u> DRIVE-POINT other _____				
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				
Not to be filled in by driller (MDE OR COUNTY USE ONLY) APPROP. PERMIT NUMBER _____ G _____ PERMIT No. <u>140-95-1904</u> 70 71 72 73 74 75 76 77 78 79				
SPECIAL CONDITIONS <u>Well started by owner. Driller is Responsible for location and maintaining all setbacks.</u> NOTE - APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED				



3525 H Ellicott Mills Drive, Ellicott City, MD 21043  
(410) 313-2640 Fax (410) 313-2648  
TDD (410) 313-2323 Toll Free 1-866-313-6300  
website: www.hchealth.org

Penny E. Borenstein, M.D., M.P.H., Health Officer

### TO ALL INTERESTED PARTIES

When submitting a well permit application for a proposed well for new construction, please indicate one of the following:

- ☐ The well site has been staked by OWNER,  
(professional land surveyor or company employing professional land surveyors)  
on 5-5-10 (date) and does not require a site inspection.
- ☐ The well driller, builder or property owner will call the Health Department to schedule a time to meet in the field to verify the proposed well site location.

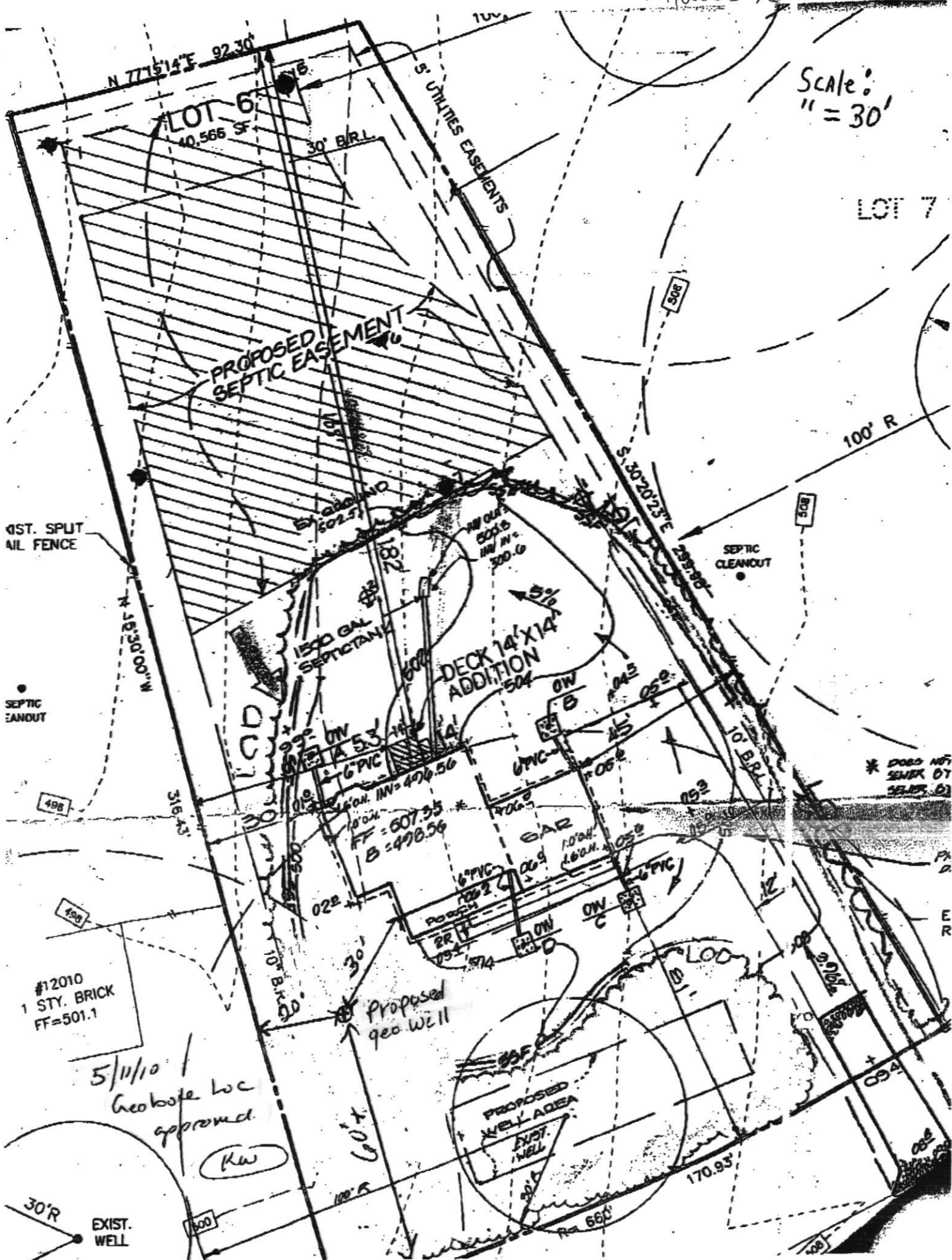
This sheet, along with two copies of an acceptable well site plan, must be attached to the green well permit application.

Revised 6/10/03

Ken Westrick  
12006 TRIA delphia Rd

618 M 6-11

Scale:  
" = 30'



\* DOES NOT  
SEWER BY  
SEWER 63

#12010  
1 STY. BRICK  
FF=501.1

5/11/10  
Geobase loc  
approved.

Kw

30' R  
EXIST. WELL

M10006576



# RIGHT-J BUILDING ANALYSIS REPORT

## Entire House

Comfort Air, Inc.

Job: February 10, 2010

49 Venture Way, Suite 9, Sykesville, MD 21784 Phone: 410-549-6700 Fax: 410-549-8725

### Project Information

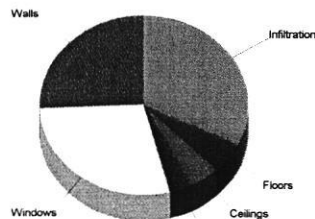
For: Ken Westrick  
12006 Tridelphia Road, Ellicott City, MD

### Design Information

	Htg	Clg	Infiltration	Simplified
Outside db (°F)	4	97		
Inside db (°F)	70	75		Best
Design TD (°F)	66	22		2
Daily range	-	M		
Inside humidity (%)	-	50		
Moisture difference (gr/lb)	-	51		
			Method	
			Construction quality	
			Fireplaces	

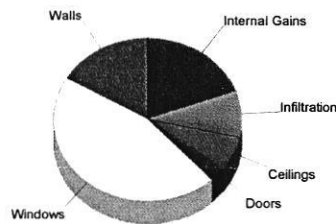
### Heating

Component	Btuh/ft²	Btuh	% of load
Walls	3.4	10912	25.6
Windows	36.4	12095	28.4
Doors	38.9	1558	3.7
Ceilings	1.5	1947	4.6
Floors	1.6	2355	5.5
Infiltration	36.9	13740	32.2
Ducts		0	0.0
<b>Total</b>		<b>42608</b>	<b>100.0</b>



### Cooling

Component	Btuh/ft²	Btuh	% of load
Walls	1.0	3333	16.6
Windows	27.2	9046	45.1
Doors	15.1	604	3.0
Ceilings	1.1	1357	6.8
Floors	0.0	0	0.0
Infiltration	4.9	1832	9.1
Ducts		0	0.0
Internal gains		3900	19.4
<b>Total</b>		<b>20072</b>	<b>100.0</b>



Cooling at 79 % SHR = 2.3 ton

Cooling at 70 % SHR = 2.6 ton

Cooling air flow = 695 cfm/ton

Cooling at 400 cfm/ton = 4.0 ton

Overall U-Value = 0.069 Btuh/ft²-°F

WARNING: window to floor area ratio = 8.8% - less than 10%.



wrightsoft

Right-Suite Residential™ 5.0.66 RSR29109

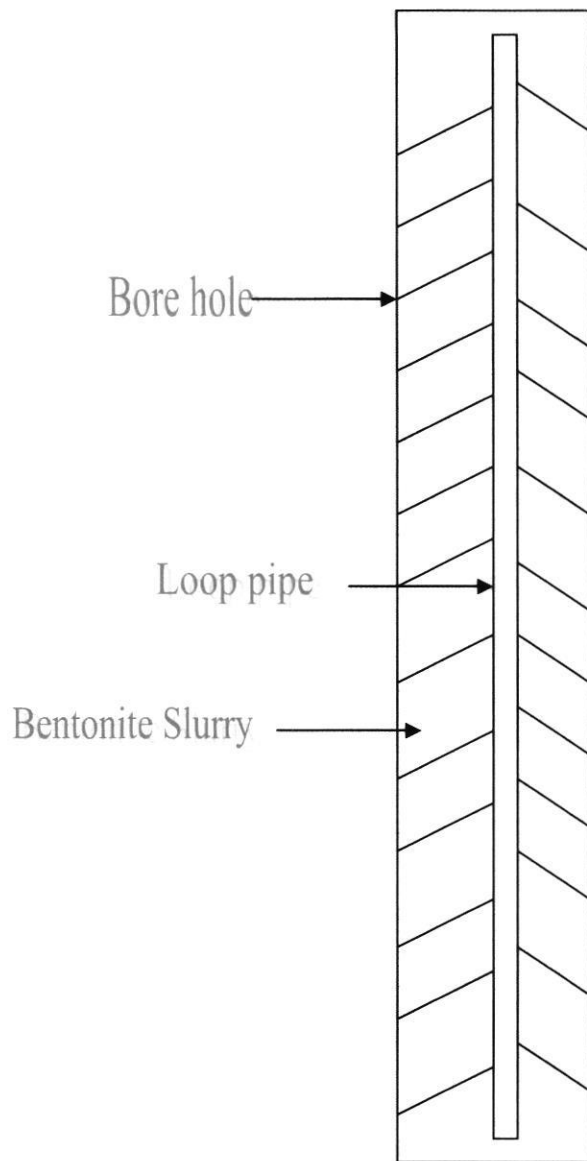
C:\Documents and Settings\User\My Documents\Wrightsoft HVAC\Westrick, Ken Whole house.rsr

2010-Jun-09 10:32:06

Page 1

# GEOHERMAL WELL DESIGN

L. FRANKLIN EASTERDAY, INC



Owner Ken Westrick

Location 12006 Trudolph Rd

Number of wells 1

Depth 450 Loop Size 1 1/4"

Grout Material-----Bentonite Slurry from bottom to G.L.

01:0 H-6-M-00