



HOWARD COUNTY HEALTH DEPARTMENT

38058

DATE
9 / 10 / 12

W538058

Received
From

PHONE #

Long Green Energy, Inc.
410 409-2260

☐ CASH
☒ CHECK

NO.

1364

For

Well Permit - 12430 Triadco
Rd.

One hundred sixty $\frac{xx}{1}$ =

Dollars

\$

160.00

Received By

J King

C 1 14227 SEQUENCE NO. (MDE USE ONLY) STATE OF MARYLAND WELL COMPLETION REPORT THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED. COUNTY NUMBER DATE RECEIVED DATE WELL COMPLETED Depth of Well PERMIT NO. FROM "PERMIT TO DRILL WELL" OWNER WELL SITE ADDRESS SUBDIVISION SECTION TOWN LOT

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 FROM TO check if water bearing Reddish Brown Sandy silt 0' 5' Brown Sandy silt of Rock Frags 5' 58' Weathered Rock 58' 143' Fracture of large Volcanic H2O 143' 150' Weathered Rock 150' 200' Earthed

GROUTING RECORD YES NO Y N WELL HAS BEEN GROUTED (Circle Appropriate Box) TYPE OF GROUTING MATERIAL (Circle one) CEMENT CM BENTONITE CLAY BC NO. OF BAGS 10 NO. OF POUNDS 300 GALLONS OF WATER 200 DEPTH OF GROUT SEAL (to nearest foot) from 0' ft. to 200' ft. (enter 0 if from surface) CASING RECORD casing types insert appropriate code below MAIN CASING TYPE Nominal diameter top (main) casing (nearest inch) Total depth of main casing (nearest foot) OTHER CASING (if used) diameter inch depth (feet) from to SCREEN RECORD screen type or open hole insert appropriate code below ST BR HO STEEL BRASS OPEN HOLE PL BRONZE HOLE OTHER PLASTIC OTHER

C 3 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) A air P piston T turbine C centrifugal R rotary O other (describe below) J jet S submersible

NUMBER OF UNSUCCESSFUL WELLS: WELL HYDROFRACTURED YES NO Y 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. MWD 580 DRILLERS SIGNATURE LIC. NO. D SITE SUPERVISOR (sign. of driller or journeyman responsible for sitework if different from permittee)

C 2 DEPTH (nearest ft.) 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 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 SLOT SIZE 1 2 3 DIAMETER OF SCREEN (NEAREST INCH) from to GRAVEL PACK IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 68 MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER) T (E.R.O.S.) W Q TELESCOPE CASING LOG INDICATOR OTHER DATA

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. 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) + above - below LAND SURFACE (nearest foot) 50 51 LATITUDE 39.280166 LONGITUDE 76.943516 (DEFAULT COORD. WGS 84) NOTES: Hase 43' Drilling

C114226

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.

COUNTY
NUMBER

ST/CO USE ONLY
DATE Received
MM 10 DD 31 YY 12

DATE WELL COMPLETED
MM 10 DD 19 YY 12

Depth of Well
22 200' 26
(TO NEAREST FOOT)

PERMIT NO.
FROM "PERMIT TO DRILL WELL"
11/15/12
OK
110 - 95 - 2379

OWNER
WELL SITE ADDRESS
SUBDIVISION

Forrest
12430 Triadelphia Rd.
Triadelphia Crows

John
TOWN
Ellicott City

SECTION
LOT 7

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	
	FROM	TO
Reddish Brown Sandy silt	0'	5'
Brown Sandy silt w/ Black Frags	5'	58'
Weathered Rock	58'	143'
Fracture w/ large volumes of H2O	143'	150'
Weathered Rock	150'	200'
Geothermal		

GROUTING RECORD

yes no
Y N
44 44

WELL HAS BEEN GROUTED
(Circle Appropriate Box)

TYPE OF GROUTING MATERIAL (Circle one)
CEMENT CM BENTONITE CLAY BC

NO. OF BAGS 45 46 10 NO. OF POUNDS 45 46 500

GALLONS OF WATER 200

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

ST CO
STEEL CONCRETE

PL 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

OTHER CASING (if used)

EACH CASING

diameter inch depth (feet) from to

SCREEN RECORD

screen type or open hole

ST BR HO
STEEL BRASS OPEN HOLE

PL OT
PLASTIC OTHER

DEPTH (nearest ft.)

1 2

E 8 9 11 15 17 21

A 23 24 26 30 32 36

C 38 39 41 45 47 51

S 56 60 68

R

E

N

SLOT SIZE 1 2 3

DIAMETER OF SCREEN (NEAREST INCH)

from to

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)

A air P piston T turbine

C centrifugal R rotary O other (describe below)

J jet S submersible

PUMP INSTALLED

DRILLER INSTALLED PUMP 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.

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)

+ above LAND SURFACE (nearest foot)

- below

NUMBER OF UNSUCCESSFUL WELLS:

WELL HYDROFRACTURED yes no
Y 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. 1 M 580

DRILLERS SIGNATURE

(MUST MATCH SIGNATURE ON APPLICATION)

LIC. NO. 1 D

SITE SUPERVISOR (sign. of driller or journeyman responsible for sitework if different from permittee)

C2

DEPTH (nearest ft.)

E 8 9 11 15 17 21

A 23 24 26 30 32 36

C 38 39 41 45 47 51

S 56 60 68

R

E

N

SLOT SIZE 1 2 3

DIAMETER OF SCREEN (NEAREST INCH)

from to

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

MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER)

T (E.R.O.S.) W Q

70 72 74 75 76

TELESCOPE CASING LOG INDICATOR OTHER DATA

LATITUDE 39.280133

LONGITUDE 76.943583

(DEFAULT COORD. WGS 84)

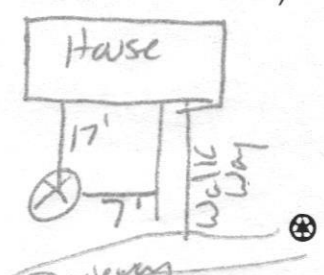
NOTES:

House

31'

25'

Driveway

C1 14225		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 6 (THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)						COUNTY NUMBER	
ST/CO USE ONLY DATE Received MM 10 DD 31 YY 12		DATE WELL COMPLETED MM 10 DD 19 YY 12		Depth of Well 22 200' 26 (TO NEAREST FOOT)		PERMIT NO. FROM "PERMIT TO DRILL WELL" HO - 95 - 2379	
OWNER <u>Forrest</u>		TOWN <u>21110011 City</u>		SECTION <u>7</u>		LOT <u>7</u>	
WELL SITE ADDRESS <u>19430 Triadelphia Rd.</u>		SUBDIVISION <u>Triadelphia Woods</u>					
WELL LOG Not required for driven wells		GROUTING RECORD WELL HAS BEEN GROUTED (Circle Appropriate Box) yes <input checked="" type="radio"/> Y no <input type="radio"/> N TYPE OF GROUTING MATERIAL (Circle one) CEMENT <input checked="" type="radio"/> CM BENTONITE CLAY <input checked="" type="radio"/> BC NO. OF BAGS <u>10</u> NO. OF POUNDS <u>300</u> GALLONS OF WATER <u>200</u> DEPTH OF GROUT SEAL (to nearest foot) from <u>0</u> ft. to <u>200</u> ft. (enter 0 if from surface)		C3 1 2 PUMPING TEST HOURS PUMPED (nearest hour) <u>8</u> <u>9</u> PUMPING RATE (gal. per min.) <u>11</u> <u>15</u> METHOD USED TO MEASURE PUMPING RATE WATER LEVEL (distance from land surface) BEFORE PUMPING <u>17</u> <u>20</u> ft. WHEN PUMPING <u>22</u> <u>25</u> ft. TYPE OF PUMP USED (for test) <input checked="" type="radio"/> A air <input type="radio"/> P piston <input type="radio"/> T turbine <input checked="" type="radio"/> C centrifugal <input type="radio"/> R rotary <input type="radio"/> O other (describe below) <input type="radio"/> J jet <input type="radio"/> S submersible			
STATE THE KIND OF FORMATIONS PENETRATED, THEIR COLOR, DEPTH, THICKNESS AND IF WATER BEARING		CASING RECORD casing types insert appropriate code below <input checked="" type="radio"/> ST STEEL <input checked="" type="radio"/> CO CONCRETE <input checked="" type="radio"/> PL PLASTIC <input type="radio"/> OT OTHER MAIN CASING TYPE Nominal diameter top (main) casing (nearest inch) <u>60</u> <u>61</u> <u>63</u> <u>64</u> <u>66</u> <u>70</u> Total depth of main casing (nearest foot) <u>200</u> OTHER CASING (if used) diameter inch <u> </u> <u> </u> <u> </u> <u> </u> <u> </u> <u> </u> depth (feet) from <u> </u> to <u> </u>		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 CAPACITY: GALLONS PER MINUTE (to nearest gallon) <u>31</u> <u>35</u> PUMP HORSE POWER <u>37</u> <u>41</u> PUMP COLUMN LENGTH (nearest ft.) <u>43</u> <u>47</u> CASING HEIGHT (circle appropriate box and enter casing height) <input checked="" type="radio"/> + above <u>49</u> <input type="radio"/> - below <u>49</u> LAND SURFACE (nearest foot) <u>50</u> <u>51</u>			
DESCRIPTION (Use additional sheets if needed)		FEET FROM TO <u>Reddish Brown Sandy silt</u> <u>0'</u> <u>5'</u> <u>Light Brown Sandy silt/ Pale floss</u> <u>5'</u> <u>62'</u> <u>Weathered Rock</u> <u>62'</u> <u>180'</u> <u>Fracture w/ Large Volumes H2O</u> <u>180'</u> <u>185'</u> <u>Weathered Rock</u> <u>185'</u> <u>200'</u> <u>Geothermal</u>		C2 1 2 DEPTH (nearest ft.) E 1 8 9 11 15 17 21 A 2 23 24 26 30 32 36 C 3 38 39 41 45 47 51 R E E N SLOT SIZE 1 <u> </u> 2 <u> </u> 3 <u> </u> DIAMETER OF SCREEN (NEAREST INCH) <u>56</u> <u>60</u> from <u> </u> to <u> </u>		LATITUDE <u>39.280150</u> LONGITUDE <u>76.944016</u> (DEFAULT COORD. WGS 84) NOTES: 	
NUMBER OF UNSUCCESSFUL WELLS: <u> </u>		WELL HYDROFRACTURED yes <input checked="" type="radio"/> Y no <input type="radio"/> 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		MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER) T (E.R.O.S.) W Q 70 72 74 75 76 TELESCOPE CASING LOG INDICATOR OTHER DATA	
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. <u>MWD 580</u>		DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION)		LIC. NO. <u>D</u>	
SITE SUPERVISOR (sign. of driller or journeyman responsible for sitework if different from permittee)							

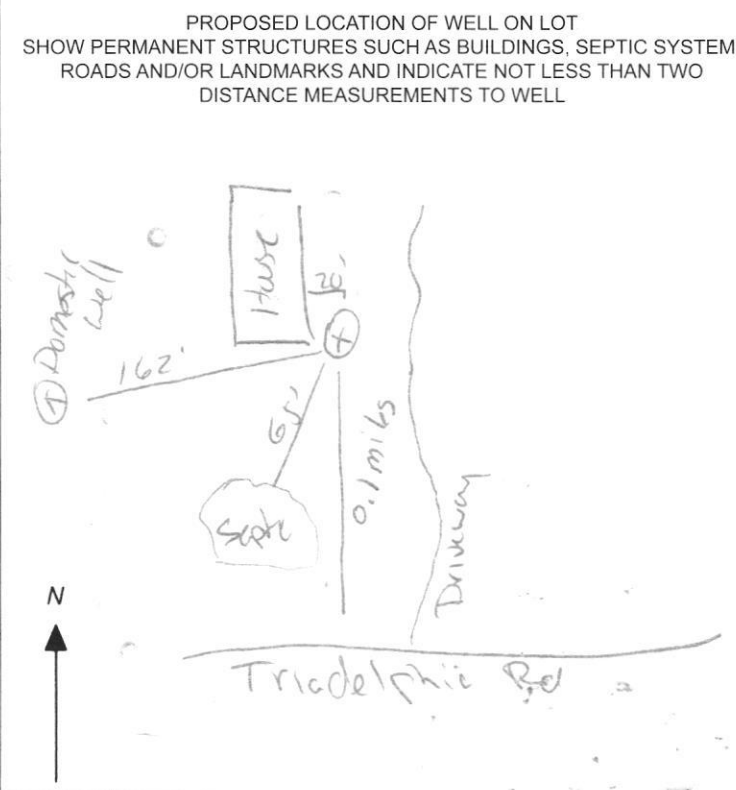
COUNTY

B 1	10617	SEQUENCE NO. (MDE USE ONLY)	STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL 538058 please type	STATE PERMIT NUMBER 40-95-2379 fill in this form completely	
Date Received (APA) 8/10/12 8 MM DD YY 13		OWNER INFORMATION			
15 Last Name Forrest		Owner John		34 First Name	
36 12430 Triadelphia Rd.		Street or RFD		55	
57 Ellicott City		70 MD		76 Zip 21042	
DRILLER INFORMATION					
Driller's Name Edward Gross		MW D 580		81 License No.	
Firm Name Long Green Drilling		410-409-2260			
Address 2109 Emmorton Park Rd #107 Ellicott City, MD		21048			
Signature [Signature]		Date 9/14/12			
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 type="checkbox"/> OPEN LOOP GEOTHERMAL					
<input checked="" type="checkbox"/> CLOSED LOOP GEOTHERMAL		2 x 400'			
APPROXIMATE DEPTH OF WELL		400' FEET			
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)					
<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					
39 <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 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					
PERMIT No. 40-95-2379					
SPECIAL CONDITIONS SEE ATTACHED MEMOS					

B 3		LOCATION OF WELL	
8 COUNTY		21	
23 SUBDIVISION		42	
SECTION		LOT	
44 46		48 50	
52 NEAREST TOWN		71	

B 4		SOURCES OF DRILLING WATER	
1. Public		11 STREET ADDRESS	
2.		30	
3.		ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)	
		NORTH W 32 E SOUTH	
		34 0.1 37	
		DISTANCE FROM ROAD	
		ENTER FT OR MI 38 39	
		TAX MAP: 22 BLK: 6 PARCEL 528	

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL	
Howard (13) A33331	
COUNTY NAME	COUNTY NO.
STATE SIGNATURE	INSERT S → 41
DATE ISSUED	EXP. DATE
43 MM DD YY 48	CO SIGNATURE 9/14/12



M12001120

++ wrightsoft Load Short Form **Entire House**

Job:
 Date: Jun 11, 2012
 By: MERLE COX

Project Information

For: JOHN FORREST
 12430 TRIADELPHIA RD, ELLICOTT CITY, MD 21042
 Phone: 443-794-1815

Design Information

	Htg	Clg	Infiltration	Simplified
Outside db (°F)	13	98	Method	Average
Inside db (°F)	70	75	Construction quality	0
Design TD (°F)	57	23	Fireplaces	
Daily range	-	M		
Inside humidity (%)	50	50		
Moisture difference (gr/lb)	46	51		

HEATING EQUIPMENT

Make Generic
 Trade
 Model EER 20.0, COP 3.97
 ARI ref no.
 Efficiency 3.6 COP
 Heating input 0 Btuh
 Heating output 0 Btuh
 Temperature rise 0 °F
 Actual air flow 2404 cfm
 Air flow factor 0.036 cfm/Btuh
 Static pressure 0 in H2O
 Space thermostat

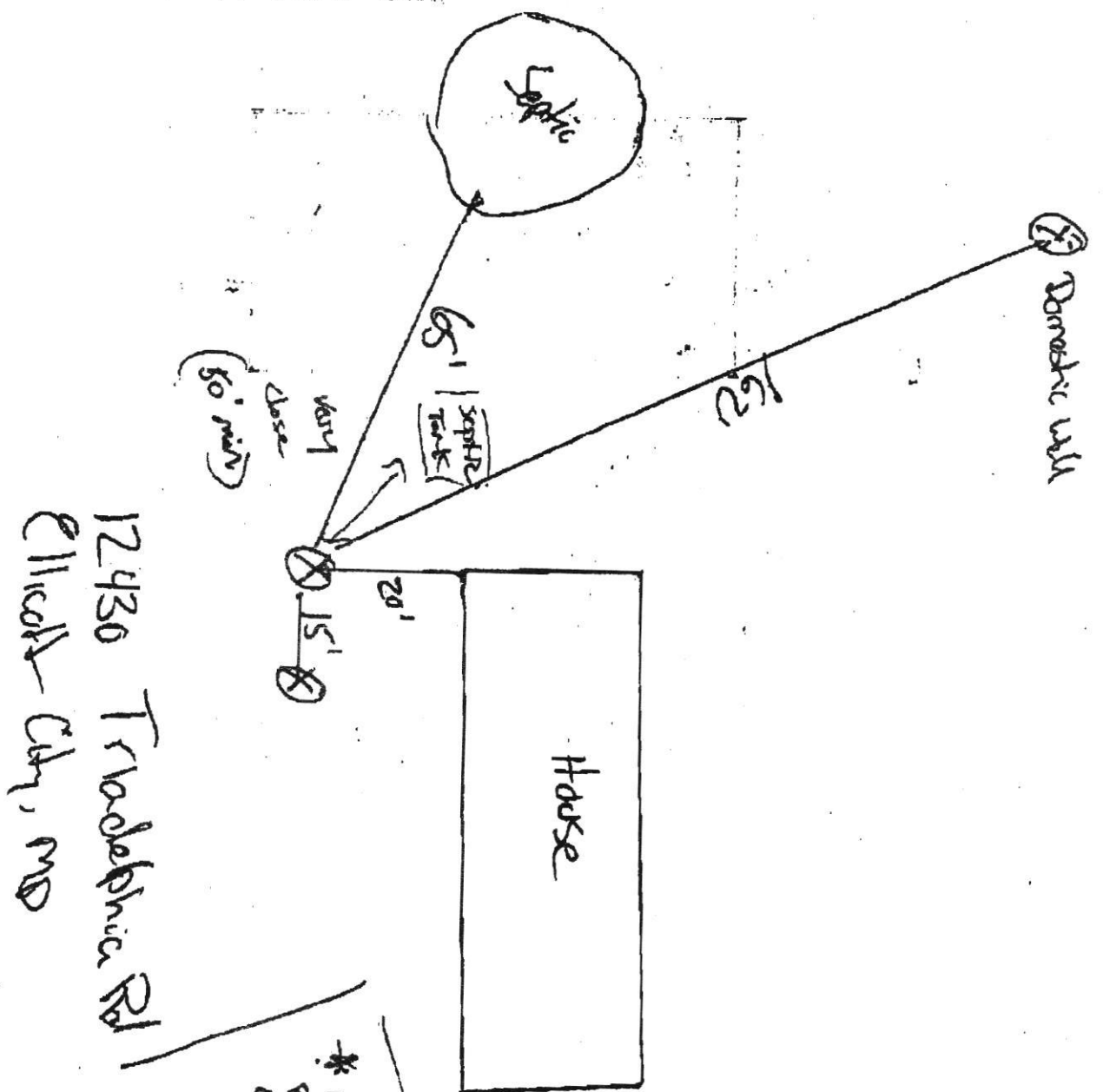
COOLING EQUIPMENT

Make Generic
 Trade
 Cond EER 20.0, COP 3.97
 Coil
 ARI ref no.
 Efficiency 18.86 EER
 Sensible cooling 0 Btuh
 Latent cooling 0 Btuh
 Total cooling 0 Btuh
 Actual air flow 2404 cfm
 Air flow factor 0.045 cfm/Btuh
 Static pressure 0 in H2O
 Load sensible heat ratio 0.93

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
BASEMENT	2064	10464	1586	376	71
1ST FLOOR	2064	31900	37114	1146	1661
ENTRY	90	5385	2664	194	119
BED 1	345	10904	7155	392	320
BED 2	224	8234	5182	296	232
Entire House	d 4787	66887	53700	2404	2404
Other equip loads		0	0		
Equip. @ 1.03 RSM			55203		
Latent cooling			4196		
TOTALS	4787	66887	59399	2404	2404

Bold/italic values have been manually overridden

Printout certified by ACCA to meet all requirements of Manual J 8th Ed.



12430 Tradebliss Rd
Ellicott City, MD

* MUST STAY 50' MIN REMOVED
FROM EXISTING SEPTIC TANK
COMPONENTS (i.e. DRAIN FIELD)