

# ENERGY SAVINGS, COST SAVINGS, YEARS TO PAYBACK ANALYSIS

INSULATION, SUPER INSULATION, SOLAR HOT AIR COLLECTOR, GROUND SOURCE HEAT PUMP

Mar-13

2013

140,000 BTU PER GALLON OF OIL GROSS  
 112,000 BTU PER GALLON OF OIL NET 80% EFFICIENCY  
**78,400,000 TOTAL NET BTU PER YR PROVIDED BY OIL HEAT**

700 GALLONS YR  
 \$ 4.00 PER GALLON  
 \$ 2,800 MO OIL COST

7000 DD

	ROOF	CRAWL SP WALLS WALLS	DOORS AND WINDOWS 20% GROSS	INFILTRATION AND COMBUSTION 10% OF GROSS	FLOOR R5 (DD ADJ FOR 45 DEGREE TEMP OF CRAWLSPACE)
HRS DAY	30	15	25		5
	24	24	24		24
BTU PER SF	5,600	11200	6720		11200
TOTAL SF	1,600	2,880	320		1,600
SUB TOTAL HEAT LOSS	8,960,000	32,256,000	2,150,400	11,760,000.0	7,840,000.0
<b>TOTAL HEAT LOSS</b>	<b>80,886,400</b>				

WHICH AMAZINGLY IS VERY CLOSE TO ACTUAL NET BTU HEATING SYSTEM IS PROVIDING!