Home Energy Rating Certificate

Property

HERS

Registry ID:

Bob Stringman 24201 178th Street Spirit Lake, IA 51360 Rating Type: Confirmed Rating Date: 5-15-2016

309891743

Rating Number:

Jim Johnson

Certified Energy Rater:

0001

HERS Index: 41

General Information

Conditioned Area 6110 sq. ft. House Type Single-family detached Conditioned Volume Conditioned basement 76655 cubic ft. Foundation

Bedrooms

Mechanical Systems Features

Heating: Fuel-fired air distribution, Natural gas, 96.1 AFUE.

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Fuel-fired hydronic distribution, Natural gas, 95.0 % EFF. Heating:

Duct Leakage to Outside 101.00 CFM25.

> Ventilation System Balanced: ERV, 131 cfm, 63.0 watts.

Programmable Thermostat Heat=Yes: Cool=Yes

Building Shell Features

Ceiling Flat NA Slab R-25.0 Edge, R-10.0 Under R-45.0 Sealed Attic R-35.0 Exposed Floor Vaulted Ceiling Window Type U-Value: 0.300, SHGC: 0.140 NA Above Grade Walls R-24.0 Infiltration Rate Htg: 1246 Clg: 1246 CFM50 Foundation Walls R-25.0 Method Blower door test

Lights and Appliance Features

Percent Interior Lighting	100.00	Range/Oven Fuel	Natural gas	
Percent Garage Lighting	100.00	Clothes Dryer Fuel	Natural gas	
Refrigerator (kWh/yr)	691	Clothes Dryer EF	2.67	
Dishwasher Energy Factor	0.46	Ceiling Fan (cfm/Watt)	0.00	

Estimated Annual Energy Cost					
Use	MMBtu	Cost	Percent		
Heating	48.4	\$391	23%		
Cooling	8.7	\$77	5%		
Hot Water	6.1	\$142	8%		
Lights/Appliances	43.6	\$823	48%		
Photovoltaics	-0.0	\$-0	-0%		
Service Charges		\$282	16%		
Total	106.8	\$1716	100%		

Criteria

This home meets or exceeds the minimum criteria for the following:

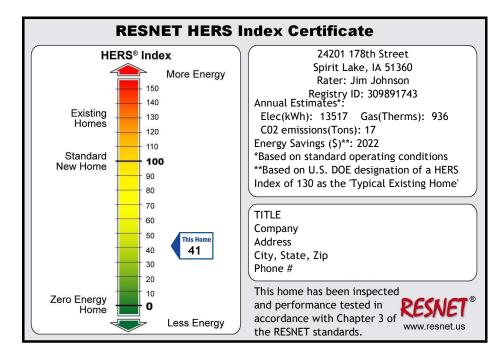
TITLE

Company

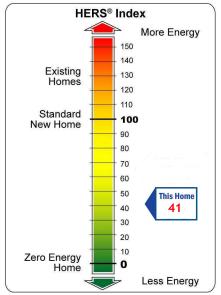
Address

City, State, Zip Phone #

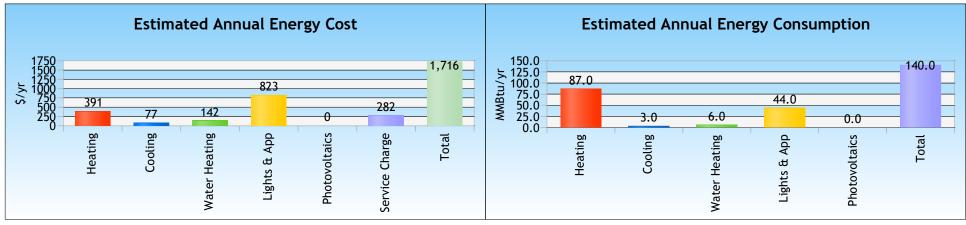
Fax #



HERS PERFORMANCE



ENERGY RATING CERTIFICATE



Address 24201 178th Street Annual Estimates* TITLE Spirit Lake, IA 51360 Electric(kWh): 13517 Company House Type Single-family detached Natural gas(Therms): 936 Address Cond. Area 6110 sq. ft. C02 emissions(Tons): 17 Certified Rater Jim Johnson Annual Savings**: \$2022 Rating No. 0001 Rater ID 6527377 July 13, 2016 309891743 Issue Date Registry ID Certification Verified * Based on standard operating conditions Rating Date 5-15-2016

** Based on a HERS 130 Index Home

REM/Rate - Residential Energy Analysis and Rating Software v14.6.3.1