

Home Energy Rating Certificate

14223 Ridgmont Dr
 Urbandale, IA 50323



5 Stars Plus
 Verified Condition

Uniform Energy Rating System

1 Star	1 Star Plus	2 Stars	2 Stars Plus	3 Stars	3 Stars Plus	4 Stars	4 Stars Plus	5 Stars	5 Stars Plus
500-401	400-301	300-251	250-201	200-151	150-101	100-91	90-86	85-71	70 or Less

HERS Index: 41

General Information

Conditioned Area: 6297 sq. ft. House Type: Single-family detached
 Conditioned Volume: 63928 cubic ft. Foundation: Conditioned basement
 Bedrooms: 3

Mechanical Systems Features

Ground-source heat pump: Electric, Htg: 4.0 COP, Cfg: 24.9 EER, w/DSH.
 Ground-source heat pump: Electric, Htg: 4.0 COP, Cfg: 27.0 EER.
 Water Heating: Conventional, Electric, 0.91 EF, 50.0 Gal.
 Duct Leakage to Outside: 28.00 CFM.
 Ventilation System: Balanced: ERV, 162 cfm, 182.0 watts.
 Programmable Thermostat: Heating: Yes Cooling: Yes

Building Shell Features

Ceiling Flat: NA Exposed Floor: R-30
 Vaulted Ceiling: R-38 Window Type: .29 .34
 Above Grade Walls: R-22 Infiltration:
 Foundation Walls: R-22.0 Rate: Htg: 1091 Cfg: 1091 CFM50
 Slab: R-10.0 Edge, R-10.0 Under Method: Blower door test

Lights and Appliance Features

Percent Fluorescent Pin-Based: 10.00 Clothes Dryer Fuel: Electric
 Percent Fluorescent CFL: 0.00 Range/Oven Fuel: Electric
 Refrigerator (kWh/yr): 775.00 Ceiling Fan (cfm/Watt): 0.00
 Dishwasher Energy Factor: 0.46

The Home Energy Rating Standard Disclosure for this home is available from the rating provider.

REM/Rate - Residential Energy Analysis and Rating Software v12.85

This information does not constitute any warranty of energy cost or savings.
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Rating Number: 2452511

Certified Energy Rater: Erin R Wiggins

Rating Date: 11/18/10

Rating Ordered For: Taylor, Jim & Joanne

Estimated Annual Energy Cost

Use	MMBtu	Cost	Percent
Verified Condition			
Heating	16.8	\$211	12%
Cooling	4.7	\$106	6%
Hot Water	11.8	\$187	11%
Lights/Appliances	70.0	\$1168	66%
Photovoltaics	-0.0	-\$0	-0%
Service Charges		\$102	6%
Total		\$1774	100%

This home meets or exceeds the minimum

criteria for all of the following:

- EPA ENERGY STAR Home
- ASHRAE Standard 90.2 - 1992
- 1998 International Energy Conservation Code
- 2000 International Energy Conservation Code
- 2001 International Energy Conservation Code
- 2003 International Energy Conservation Code
- 2004 International Energy Conservation Code
- 2006 International Energy Conservation Code
- 2009 International Energy Conservation Code
- 1992 CABO Model Energy Code
- 1993 CABO Model Energy Code

Energy & Environmental

Rating Alliance

PO Box 1264
 Manhattan, KS 66505
 877-537-2425
 785-537-2440
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FUEL SUMMARY - HERS

Date:	November 29, 2010	Rating No.:	2452511
Building Name:	70313 (WO)	Rating Org.:	Cenergy LLC
Owner's Name:	Taylor, Jim & Joanne	Phone No.:	515-710-9710
Property:	14223 Ridgemont Dr	Rater's Name:	Erin R Wiggins
Address:	Urbandale, IA 50323	Rater's No.:	EERA 245
Builder's Name:	Taylor, Jim & Joanne		
Weather Site:	Des Moines, IA	Rating Type:	Verified Condition
File Name:	2452511 14223 Ridgemont Dr Urbandale Taylor, J	Rating Date:	11/18/10

	REFERENCE	70313 (WO)	DIFF	% DIFF
Annual Energy Cost (\$/yr)				
Electric	\$ 2833	\$ 1666	\$ 1167	41.2%
Annual End-Use Cost (\$/yr)				
Heating	\$ 1203	\$ 204	\$ 999	83.0%
Cooling	\$ 407	\$ 105	\$ 302	74.2%
Water Heating	\$ 216	\$ 188	\$ 28	13.0%
Lights & Appliances	\$ 1007	\$ 1170	\$ -162	-16.1%
Photovoltaics	\$ -0	\$ -0	\$	
Service Charges	\$ 102	\$ 102	\$	
Total	\$ 2935	\$ 1768	\$ 1167	39.8%
Annual End-Use Consumption				
Heating (kWh)	34703	4757	29946	86.3%
Cooling (kWh)	5303	1357	3946	74.4%
Water Heating (kWh)	4159	3476	683	16.4%
Lights & Appliances (kWh)	19285	20513	-1228	-6.4%
Annual Energy Demands (kW)				
Heating	27.3	12.1	15.1	55.5%
Cooling	4.9	1.9	3.0	61.2%
Water Heating (Winter Peak)	0.8	0.8	0.0	1.9%
Water Heating (Summer Peak)	0.6	0.4	0.2	33.8%
Lights & Appliances (Winter Peak)	1.8	1.9	-0.1	-5.2%
Lights & Appliances (Summer Peak)	3.4	3.6	-0.2	-6.2%
Total Winter Peak	29.9	14.8	15.1	50.4%
Total Summer Peak	8.9	5.9	3.0	33.7%

Utility Rates:

Electricity: Mid American All Ele

REM/Rate - Residential Energy Analysis and Rating Software v12.85

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ENERGY STAR Qualified Homes Thermal Bypass Inspection Checklist

Home Address: 14223 Ridgmont Dr		City: Urbandale		State: IA	
Thermal Bypass	Inspection Guidelines	Corrections Needed	Builder Verified	Rater Verified	N/A
1. Overall Air Barrier and Thermal Barrier Alignment	Requirements: Insulation shall be installed in full contact with sealed interior and exterior air barrier except for alternate to interior air barrier under item no. 2 (Walls Adjoining Exterior Walls or Unconditioned Spaces)				
	All Climate Zones:				
	1.1 Overall Alignment Throughout Home	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	1.2 Garage Band Joist Air Barrier (at bays adjoining conditioned space)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	1.3 Attic Eave Baffles Where Vents/Leakage Exist	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Only at Climate Zones 4 and Higher:				
	1.4 Slab-edge Insulation (A maximum of 25% of the slab edge may be uninsulated in Climate Zones 4 and 5.)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Best Practices Encouraged, Not Req'd:				
1.5 Air Barrier At All Band Joists (Climate Zones 4 and higher)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
1.6 Minimize Thermal Bridging (e.g., OVE framing, SIPs, ICFs)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2. Walls Adjoining Exterior Walls or Unconditioned Spaces	Requirements: • Fully insulated wall aligned with air barrier at both interior and exterior, OR • Alternate for Climate Zones 1 thru 3 , sealed exterior air barrier aligned with RESNET Grade 1 insulation fully supported • Continuous top and bottom plates or sealed blocking				
	2.1 Wall Behind Shower/Tub	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	2.2 Wall Behind Fireplace	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	2.3 Insulated Attic Slopes/Walls	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	2.4 Attic Knee Walls	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	2.5 Skylight Shaft Walls	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	2.6 Wall Adjoining Porch Roof	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	2.7 Staircase Walls	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	2.8 Double Walls	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Floors between Conditioned and Exterior Spaces	Requirements: • Air barrier is installed at any exposed insulation edges • Insulation is installed to maintain permanent contact w/ sub-floor above • Optional until July 1, 2008 , insulation is installed to maintain permanent contact with air barrier below				
	3.1 Insulated Floor Above Garage	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	3.2 Cantilevered Floor	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Shafts	Requirements: Openings to unconditioned space are fully sealed with solid blocking or flashing and any remaining gaps are sealed with caulk or foam (provide fire-rated collars and caulking where required)				
	4.1 Duct Shaft	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	4.2 Piping Shaft/Penetrations	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	4.3 Flue Shaft	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Attic/Ceiling Interface	Requirements: • All attic penetrations and dropped ceilings include a full interior air barrier aligned with insulation with any gaps fully sealed with caulk, foam or tape • Movable insulation fits snugly in opening and air barrier is fully gasketed				
	5.1 Attic Access Panel (fully gasketed and insulated)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	5.2 Attic Drop-down Stair (fully gasketed and insulated)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	5.3 Dropped Ceiling/Soffit (full air barrier aligned with insulation)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	5.4 Recessed Lighting Fixtures (ICAT labeled and sealed to drywall)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	5.5 Whole-house Fan (insulated cover gasketed to the opening)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6. Common Walls Between Dwelling Units	Requirements: Gap btwn drywall shaft wall (common wall) and structural framing btwn units is sealed at all exterior boundary conditions				
	6.1 Common Wall Between Dwelling Units	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Rater Inspection Date: 8/5/2010
 Home Energy Rating Provider: Energy & Environmental Ratings Alliance
 Home Energy Rater Company: Cenergy, LLC

Builder Inspection Date: _____
 Builder Company Name: _____
 Builder Division Name: _____

Home Energy Rater Signature:

Evan R. Wiggins

Builder Employee Signature: _____



2010 HERS RATING FIELD VERIFICATION

NEW HOME INFORMATION

New home street address 14223 Ridgemont Dr
 City Urbandale State IA Zip 50323
 MidAmerican Energy account number _____
 Name on MidAmerican account Taylor, Jim & Joanne
 Contact Jim Taylor
 Daytime phone # 515-978-4631 Evening phone # 515-978-4631
 Construction start date 8/5/10 Construction completion date 11/18/10
 Natural air changes per hour .075 HERS rating completed by CENERGY, LLC
 HERS score 40

BUILDER INFORMATION

Name Taylor, Jim & Joanne
 Builder ID# / Federal ID# (if this is first house built in program) 0
 Contact Jim Taylor
 Phone 515-978-4631
 Address 4003 162nd St
 City Urbandale State IA Zip 50323
 Person or company receiving the incentive Taylor, Jim & Joanne
 Mailing address of incentive recipient 4003 162nd St
 If incentive is to be paid to other than the builder, builder's signature required _____
 Builder's signature _____ Date _____

NATURAL GAS FURNACE, AIR-TO-AIR HEAT PUMP, GROUND-SOURCE HEAT PUMP

Manufacturer CLIMATE MASTER BTU _____ 38
 Model # TTV049AGC00ARKS* EFF 4.0 GAMA _____
 Serial # M11436811
 Manufacturer _____ BTU _____
 Model # _____ EFF _____ GAMA _____
 Serial # _____

CENTRAL AIR CONDITIONER

Manufacturer _____
 Model # _____
 Serial # _____
 Indoor coil manufacturer _____
 Indoor coil model # _____
 ARI _____ SEER _____
 Manufacturer _____
 Model # _____
 Serial # _____
 Indoor coil manufacturer _____
 Indoor coil model # _____
 ARI _____ SEER _____

WATER HEATER

Manufacturer 0
 Model # 82V52-2*
 Serial # RH0910208471
 Size (gal) 50
 EFF 0.91
 GAMA _____
 Manufacturer _____
 Model # 82V52-2*
 Serial # RH0910228455
 Size (gal) 50
 EFF 0.91
 GAMA _____

APPLIANCES (MUST BE ENERGY STAR® rated)

EQUIPMENT MANUFACTURER	MODEL NO.	SERIAL NO.	INSTALLED OF UNIT	COST	INSTALLATION DATE
SUB ZERO - FRIDGE	601R/S	P1667483			
DW	G863SCVI	24/53701658			

Important! In order to qualify for a clothes washer rebate, customer also must have either a:

1. Water heater fueled by MidAmerican natural gas or electricity, or
2. Dryer using heat fueled by MidAmerican natural gas or electricity.

My water heater uses: MidAmerican natural gas ✓ MidAmerican electricity other

My dryer uses: MidAmerican natural gas ✓ MidAmerican electricity other

Must attach receipts for **ENERGY STAR** rated appliances.

COMPACT FLUORESCENT FIXTURES (HARD-WIRED)

FIXTURE TYPE	LAMP WATTAGE	QUANTITY
Single lamp		
Double lamp		
Three lamp		
Four lamp		

Mail to: MidAmerican Energy Company
 EnergyAdvantage Programs
 P. O. Box 7232
 Des Moines, IA 50309-7232

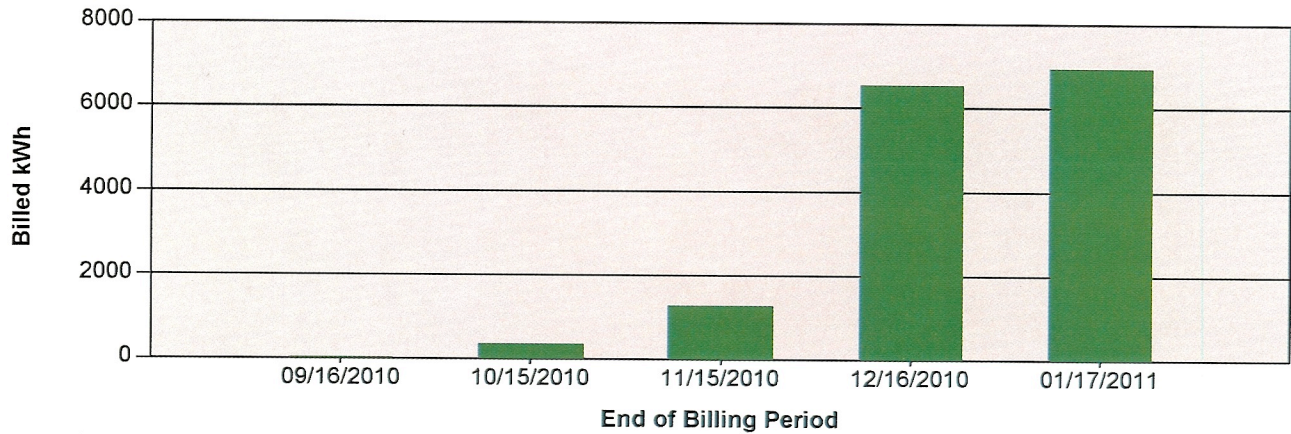
or fax: 515-244-8825

Questions? 800-894-9599

Account Name: JAMES F TAYLOR
Account Number: 37631-26088
Service Address: 14223 RIDGEMONT DR
 URBANDALE, IA 50323

Meter Number: S98820369
Service Type: Electric
Metering Information: KWH
 1 Phase
 Self Contained
 Secondary

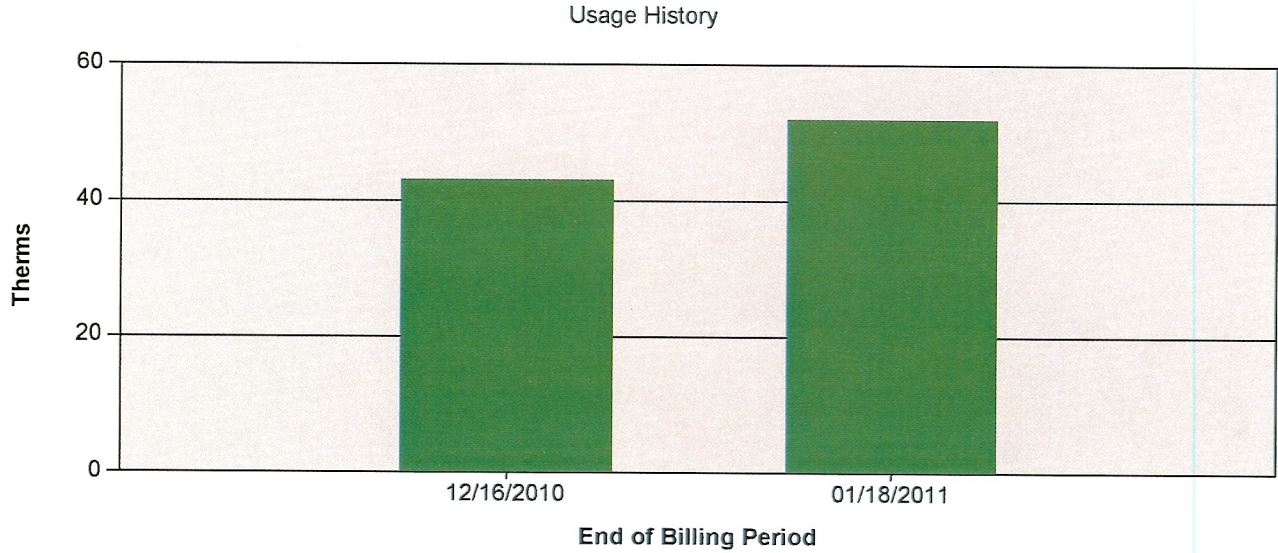
Usage History



End of Billing Period (mm-dd-yyyy)	Days	Rate	Read Type	Billed kWh	Actual kW	Taxes	Franchise Fees	Amount Billed	Average Temperature
01/17/2011	32	RES	Actual	6,950	0	\$0.00	\$0.00	271.11	21
12/16/2010	31	RES	Actual	6,545	0	\$0.00	\$0.00	258.04	29
11/15/2010	31	RES	Actual	1,282	0	\$0.00	\$0.00	88.26	51
10/15/2010	29	RES	Actual	348	0	\$0.00	\$0.00	33.09	62
09/16/2010	3	RES	Actual	4	0	\$0.00	\$0.00	1.19	72

Account Name: JAMES F TAYLOR
Account Number: 37631-26088
Service Address: 14223 RIDGEMONT DR
 URBANDALE, IA 50323

Meter Number: AY0961577
Service Type: Gas
Metering Information: Gas Regular



End of Billing Period (mm-dd-yyyy)	Days	Rate	Read Type	Therms	Taxes	Franchise Fees	Amount Billed	Average Temperature
01/18/2011	33	SVF-R	Actual	52	\$0.00	\$0.00	51.45	21
12/16/2010	31	SVF-R	Actual	43	\$0.00	\$0.00	43.63	29

