



ACTION REPORT

Date:	December 29, 2008	Rating No.:	122908-111-026
Building Name:		Rating Org.:	All-Phase Environmental Consul
Owner's Name:	Scott Homes, LTD.	Phone No.:	719-545-0375
Property:	1109 Ptarmigan	Rater's Name:	Brandice N. Eslinger
Address:	Woodland Park, CO 80863	Rater's No.:	111
Builder's Name:	Scott Homes, LTD.		
Weather Site:	Woodland Park, CO	Rating Type:	Confirmed Rating
File Name:	1109Ptarmigan80863F.blg	Rating Date:	12/18/08

The following table identifies and ranks energy use and cost by building component. A maximum of six components are shown. Current mechanical equipment is assumed for this analysis. To determine the impact of varying the equipment efficiency, change the equipment specified in the building file and perform the energy calculations again.

ANNUAL ENERGY PROFILE

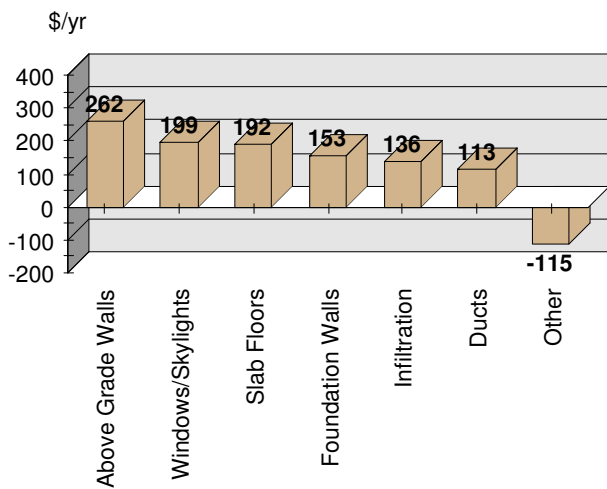
Energy End-Use	Component	Consumption (MMBtu/yr)		Cost (\$/yr)
HEATING	Above Grade Walls	29.6	\$	262
	Windows/Skylights	22.4	\$	199
	Slab Floors	21.7	\$	192
	Foundation Walls	17.2	\$	153
	Infiltration	15.4	\$	136
	Ducts	12.7	\$	113
	Other	-13.0	\$	-115
	Total	106.1	\$	940
WATER HEATING	Water Heater	24.5	\$	210
LIGHTS & APPLIANCES	Lights & Appliances	43.0	\$	1146



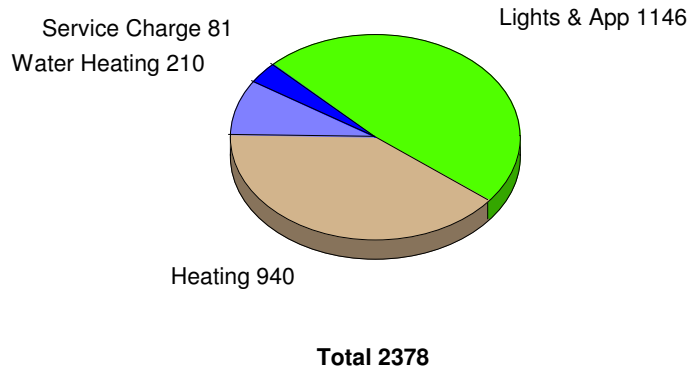
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Heating Cost (\$/yr)



Annual Energy Cost (\$/yr)





AIR LEAKAGE REPORT

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Whole House Infiltration	Blower door test	
	<i>Heating</i>	<i>Cooling</i>
Natural ACH:	0.10	0.08
ACH @ 50 Pascals:	1.56	1.56
CFM @ 25 Pascals:	663	663
CFM @ 50 Pascals:	1040	1040
Eff. Leakage Area:	57.1	57.1
Specific Leakage Area:	0.00011	0.00011
ELA/100 sf shell:	0.82	0.82

Total Duct Leakage to Outside	
CFM @ 25 Pascals:	N/A
CFM25 / CFMfan:	N/A
CFM25 / CFA:	N/A
CFM per Std 152:	N/A
CFM per Std 152 / CFA:	N/A
CFM @ 50 Pascals:	N/A
Eff. Leakage Area:	N/A
Thermal Efficiency:	88.00

Ventilation	
Mechanical:	Balanced
Sensible Recovery Eff. (%):	87.0
Total Recovery Eff. (%):	87.0
Rate (cfm):	270
Hours/Day:	24.0
Fan Watts:	180.0
Cooling Ventilation:	Natural Ventilation

ASHRAE 62.2 - 2003 Ventilation Requirements

For this home to comply with ASHRAE Standard 62.2 - 2003 Ventilation and Acceptable Indoor Air Quality in Low-Rise Residential Buildings, a minimum of 66 cfm of mechanical ventilation must be provided continuously, 24 hours per day. Alternatively, an intermittently operating mechanical ventilation system may be used if the ventilation rate is adjusted accordingly. For example, a 131 cfm mechanical ventilation system would need to operate 12 hours per day, as long as the system operates to provide required average ventilation once each hour.

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ENERGY COST AND FEATURE REPORT

Date: December 29, 2008 Rating No.: 122908-111-026
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1109Ptarmigan80863F

ANNUAL ENERGY COSTS

Table with 3 columns: Category, Unit, and Value. Rows include Heating (\$ 940), Cooling (\$ 0), Water Heating (\$ 210), Lights & Appliances (\$ 1146), Photovoltaics (\$ -0), Service Charges (\$ 81), Total (\$ 2378), and Average Monthly (\$ 198).

ENERGY FEATURES

Ceiling w/Attic: R38,BFG16",8-16* U=0.020
Vaulted Ceiling: R38,FG,12-16,C G1* U=0.028
Above Grade Walls: R23,BF,6-16 G1* U=0.055
Foundation Walls (Cond): R-13 Draped, G1* R=13.0
Found. Walls (Uncond): None
Doors: R6 Fiberglass Insul. U=0.144
Windows: U:0.35, SHGC:0.31* U=0.350
Frame Floors: None
Slab Floors: Uninsulated U=0.365
Infiltration: Htg: 1040 Clg: 1040 CFM50
Infiltr. Measure: Blower door test
Mechanical Ventilation: Balanced: ERV, 270 cfm, 180.0 watts.
Interior Mass: None
Mech Equip List: Heating: Fuel-fired air distribution, 102.1 kBtuh, 93.5 AFUE.
Water Heating: Conventional, Gas, 0.58 EF.

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ENERGY COST AND FEATURE REPORT

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Programmable Thermostat:	Heat=Yes; Cool=No
Ducts:	Uninsulated Conditioned basement
Duct Leakage:	RESNET/HERS default
Lights/Appliances:	Defaults
Active Solar:	None
Photovoltaics:	None
Sunspace:	No

Notes: Where feature level varies in home, the dominant value is shown.



EMISSIONS REPORT

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Total Emissions (lbs/year)

1109Ptarmigan80863F

Type of Emissions

Carbon Dioxide (CO2)	41477.5
Sulfur Dioxide (SO2)	35.2
Nitrogen Oxides (NOx)	58.6

Emissions By End-Use (lbs/year)

1109Ptarmigan80863F

Carbon Dioxide (CO2)

Heating	13541.4
Cooling	0.0
Water Heating	2942.2
Lights & Appliances	24993.9
Photovoltaics	0.0

Sulfur Dioxide (SO2)

Heating	1.4
Cooling	0.0
Water Heating	0.0
Lights & Appliances	33.7
Photovoltaics	0.0

Nitrogen Oxide (NOx)

Heating	17.2
Cooling	0.0
Water Heating	3.7
Lights & Appliances	37.8
Photovoltaics	0.0



2005 EPACT ENERGY EFFICIENT HOME TAX CREDIT

Date: December 29, 2008 Rating No.: 122908-111-026
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Weather Site: Woodland Park, CO Rating Type: Confirmed Rating
File Name: 1109Ptarmigan80863F.blg Rating Date: 12/18/08

Normalized, Modified End-Use Loads (MMBtu/year)

Table with 3 columns: 2004 IECC, 50% Target, As Designed. Rows: Heating (60.8, 58.0), Cooling (2.4, 2.0), Total (63.2, 60.0)

Envelope Loads (MMBtu/year)

Table with 3 columns: 2004 IECC, 90% Target, As Designed. Rows: Heating (109.5, 83.0), Cooling (4.2, 2.5), Total (113.7, 85.5)

This home MEETS the requirements for the residential energy efficiency tax credits under Section 1332, Credit for Construction of New Energy Efficient Homes, of the Energy Policy Act of 2005.

As demonstrated above, this dwelling unit has a projected level of annual heating and cooling energy consumption that is at least 50% below the annual level of heating cooling energy consumption of a reference dwelling in the same climate zone, and the building envelope components improvements alone account for at least 10% of those savings.

Building Features

Ceiling Flat: R-49 Slab: R-0.0 Edge, R-0.0 Under
Vaulted Ceiling: R-38 Duct: Uninsulated
Above Grade Walls: R-24, R-18 Window: U-Value = 0.350, SHGC = 0.310
Foundation Walls: R-13.0 Heating: Fuel-fired air distribution, Natural gas, 93.5 AFUE.
Exposed Floor: NA Cooling N/A

Under penalties of perjury, I declare that I have examined this certification, including accompanying documents, and to the best of my knowledge and belief, the facts presented in support of this certification are true, correct, and complete.

Name: Brandice N. Eslinger Signature:
Company: All-Phase Environmental Consul Date: December 29, 2008
Address: , ,

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ENERGY STAR HOME REPORT

Date: December 29, 2008 Rating No.: 122908-111-026
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Builder's Name: Scott Homes, LTD.
Weather Site: Woodland Park, CO Rating Type: Confirmed Rating
File Name: 1109Ptarmigan80863F.blg Rating Date: 12/18/08

Normalized, Modified End-Use Loads (MMBtu/year)

Table with 3 columns: Category, ENERGY STAR, As Designed. Rows include Heating (103.4 vs 58.0), Cooling (4.0 vs 2.0), Water heating (12.1 vs 15.5), Lighting & Appliances (34.3 vs 43.0), Total (153.8 vs 118.5), and HERS Index (85 vs 65).

ENERGY STAR Mandatory Requirements

Form with checkboxes for Thermal Bypass Inspection Checklist, Ductwork Requirements, ENERGY STAR Products, and ENERGY STAR Scoring Exceptions. All are checked.

* Thermal Bypass Checklist and ENERGY STAR Products are not checked in REM/Rate at this time.

This home MEETS OR EXCEEDS the energy efficiency requirements for designation as an EPA ENERGY STAR Qualified Home.

Pollution Prevented

Table with 2 columns: Type of Emissions, Reduction (lb/year). Rows include Carbon Dioxide (CO2) 10916.4, Sulfur Dioxide (SO2) 0.0, Nitrogen Oxides (NOx) 13.6.

Energy Cost Savings (\$/year)

Table with 2 columns: Category, Savings (\$/year). Rows include Heating (\$839), Cooling (\$24), Water Heating (\$-11), Lights & Appliances (\$-69), Total (\$784).

The energy savings and pollution prevented are calculated by comparing the Rated Home to the Reference Home as defined in the "Mortgage Industry National Home Energy Rating Systems Standards" as promulgated by the Residential Energy Services Network (RESNET).

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Home Energy Rating Certificate

1109 Ptarmigan
Woodland Park, CO 80863



**5 Stars Plus
Confirmed Rating**

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

Energy Efficient

HERS Index: **65**

General Information

Conditioned Area:	3560 sq. ft.	HouseType:	Single-family detached
Conditioned Volume:	40000 cubic ft.	Foundation:	Conditioned basement
Bedrooms:	3		

Mechanical Systems Features

Heating:	Fuel-fired air distribution, Natural gas, 93.5 AFUE.
Water Heating:	Conventional, Natural gas, 0.58 EF, 50.0 Gal.

Duct Leakage to Outside:	RESNET/HERS default
Ventilation System:	Balanced: ERV, 270 cfm, 180.0 watts.
Programmable Thermostat:	Heating: Yes Cooling: No

Building Shell Features

Ceiling Flat:	R-49	Exposed Floor:	NA
Vaulted Ceiling:	R-38	Window Type:	U:0.35, SHGC:0.31*
Above Grade Walls:	R-24, R-18	Infiltration:	
Foundation Walls:	R-13.0	Rate:	Htg: 1040 Clg: 1040 CFM50
Slab:	R-0.0 Edge, R-0.0 Under	Method:	Blower door test

Lights and Appliance Features

Percent Fluorescent Pin-Based:	10.00	Clothes Dryer Fuel:	Electric
Percent Fluorescent CFL:	20.00	Range/Oven Fuel:	Electric
Refrigerator (kWh/yr):	640.00	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.

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Rating Number: 122908-111-026

Certified Energy Rater: Brandice N. Eslinger

Rating Date: 12/18/08

Rating Ordered For: Scott Homes, LTD.

Estimated Annual Energy Cost

Use	Confirmed Rating		
	MMBtu	Cost	Percent
Heating	102.6	\$910	39%
Cooling	0	\$0	0%
Hot Water	24.5	\$210	9%
Lights/Appliances	43.0	\$1146	49%
Photovoltaics	-0.0	\$-0	-0%
Service Charges		\$81	3%
Total		\$2348	100%

**This home meets or exceeds the minimum
criteria for all of the following:**

- EPA Energy Star Home
- 2003 International Energy Conservation Code
- 2004 International Energy Conservation Code
- 2006 International Energy Conservation Code

E-Star Colorado

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Lakewood, CO 80401
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