



### Project overview:

This green home built by SAGE Builders and designed by architect Scott W. Bartholomew received the gold level Energy Star/Healthy Built Home certification. In addition to exceptional green technology, the home has many examples of fine craftsmanship.

### Site Development:

The home is sited on 3 acres of native grasses. Care was taken to limit damage to a large stately oak tree that the house faces. The house faces south and captures the warmth of the sun along with the view of the pasture.

### Energy Efficiency/ Renewable Energy:

An efficient wood burning masonry heater was installed as a back-up heat source. The stove also includes a bake oven. This home features a geothermal heat pump that has separate thermostats for the main floor and second floor. The geothermal heat pump utilizes the constant temperature from the ground to cool the house. In addition, the house features evacuated solar tubes for hot water collection. Compact fluorescent lighting is used throughout the home. The house is wired and ready for a future PV solar system. Icynene insulation was used to create a tight envelope.

### Water Efficiency:

A 3500 gallon underground rainwater collection tank was installed with spigots around the house. Low flow fixtures were installed as well as dual flush toilets.

### Indoor Environmental Quality:

A hepa energy recovery ventilator was installed for fresh air intake. All indoor paints were zero VOC. The custom woodwork was finished with Earthpaint finishes. The materials used were all carefully selected to promote healthy indoor air quality. The cabinetry utilized formaldehyde free plywood.

### Resource and Material Use:

Cherry and walnut trees were harvested from the home site and used for trim. All the exterior trim and siding is prefinished which allows for better quality control and results in a better finish.