



Beam Engine

Home Station: Sun Valley, NV
Owner(s): William Cody
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Engine:

Track: 7.5" gauge
Builder: Bill Conner of Shelbyville, TN, 2001
Bore & Stroke: 2 inch x 2.75 inches
Drive Ratio: 20% Overdrive
Drive Diameter: 4.375 inches
Weight: 430 pounds

Boiler/Firing:

Type: Vertical Fire Tube (does not require any outside input to fire up)
Size: 12-inch dia. x 18 inches high;
10-inch dia. x 5-inch firebox
Tubes: 306 tubes, 3/8-inch dia.
Firing: Single 5.5-inch dia. propane burner with six rosette burners on the top, and two rows of holes around the edge. Has a pilot light so the main burner can be shut off if needed and re-lit by just opening the fuel valve.
Operating Pressure: 120 psi
Boiler Feed: Beam pump and a hand pump on riding car.
13 gallons of water and 12 gallons of propane are carried

Special Features:

- Routinely run on a track where the main line is at 4.5%
 - Compressed air brakes on engine and riding car
 - Working sander
 - There are two trucks under this engine and all wheels are driven by chains.
- Note** - the chains are not loose to allow for turning; there are constant speed universal joints built into each truck to allow for turns

I have hauled eleven preschool children, eleven adults and myself around the SVLS track with no problems. With beams working up and down while I run, it's quite an attention-getter!

