





Tank Bottom



Tank top





Rim completed. All holes welded closed. Pipe is 5" diameter 11.5" long. Rim is 14"



Fitting tank together. using a rope gasket to seal tank.



Ready to weld all thread to hold tank together..



Top lid with pressure relief.



Gasifier completed. Waiting to make charcoal.



Ready to start the gasifier. Put in the charcoal up and to the nossels. This blower is on the intake of the air supply. It is a 285 CFM blower but we have a variable speed controller on the motor.



The first flame from the gasifier as this was the first test ever did on this unit after we built it. You can see some orange in the flame looking through to the trees in the back ground. This flame is about 3 to 3-1/2 feet coming from a 3" pipe. A 1 gallon can is used to stop cross winds. This flame is very hot at this point.





This is I believe smoke coming off the gaskets around the lid of the unit. This is a little pressure in the top and it is bleeding off around the pressure valve spring at the top. You can see some tar slipping up through there around the all thread.



Full view of the gasifier operation. No steam or smoke anywhere else. The flex pipe is also pulsing at this point. Found this to be normal as I was a bit worried about it. Blower is on very low speed.



Another shot of the flame from the test burner.