

Test Procedure:

Various loadings were tried to obtain maximum down bore pressures. The best results were obtained with IMR 4320 powder, Remington Core and Primer with a 300 gr Bullet. Loads were developed for 5 grain intervals starting with a 30 gr load and ending with a 60 gr load.

For the two initial guns, ten rounds were loaded for each interval, five being shot to verify pressure and five being shot in the rifle. For the second set of guns, five rounds were loaded for each interval and shot in the rifle.

The remaining rifles were all shot with loads starting at 45 gr and finishing at 60 gr.

The sight holes were drilled by the model shop, the web thickness picked were .010, .015, .020 and .025. The first two rifles had a web thickness of .010. After these rifles failed to blow out at the web the next two were drilled deeper, both rifles blew out the web. The remaining rifles were then drilled out to .010 or less.

After all the rifles had been shot each barrel was cut at the sight hole and the actual web thickness obtained.