

TEST #3

November 15, 1971

CALIBER 270 130 GRAIN GUN DAMAGE TEST

Three new Caliber 270 guns were purchased and fired once using 270 Brass case, 130 grain PSPCL bullet, 9 $\frac{1}{4}$ primer and 52.6 grains 4198 powder. The results were as follows:

The Savage Model 110-D Ser. #A766997 bolt action, showed no external damage. The bolt resisted all efforts to open it and inspect the cartridge case. It must be assumed that the ring of metal surrounding the bolt face expanded and/or the lug set back thereby locking the bolt closed.

The Winchester Model 70 bolt action Ser. #G1023634, also showed no external damage or any signs of gas leakage on the receiver. The bolt was forcibly opened with a mallet. Upon removal of the bolt gas discoloration of the lug area was observed. This gas apparently came from the primer location. This could not be verified because the rear of the cartridge case expanded and was jammed into the bolt face recess locking case and bolt together. The cartridge case was not removed from the bolt. 83

The third gun fired was a Browning gas operated automatic, Ser. #51973 Model 70. After firing one round of the test ammunition the breech bolt was observed to be slightly opened. It could not be determined if this was due to slight unlocking of the rotary lug system or due to lug setback. It is apparent that the bolt was never opened by the automatic cycle.

The bolt was then forcibly rotated and the action opened with a mallet. The bolt face area visible showed evidence of a propellant gas leak. The case also showed considerable deformation jamming it into the breech bolt face recess.

WIL06535