Mer, Lee Blomer Box 186 - S Albert Vest Virgisia

July 5: 1962

## Dest Mr. Shorter:

and not at liberty to make externents about the qualificial our competitors' produces. However, all of the presently available products competing with the M//50 hits been tested. We are continually costing but action rifles of other makes us well as our own. Teste are also being made on other types of action.

You are in error when you say that the Mark V Westlerby has larger shear area on the locking larger than the Remington M/700. By direct scale measurement the Westherby Mark V .300W Magaum has a shear area on the large of 0.366 square inches. The same scale measurement of a M/700 shows a shear area of the 12/168 that larger by about 202. These differences are of small consequence since both feedgas have a large factor of safety if made of good alloy steel containing sheat .4 carbon, then heat treated to give an elastic limit of about 150,000 psi.

Failure of the lug area occurs as a combination of sheer and compression. It is unlikely that either of the rifles in question would fail during firing in this manner. Pailure occurs when the cartridge case sparts to flow at the head due to excessive pressure and gas escapes around the bolt head. The large forces exarted by the high pressure gases on the larger areas of the receiver and bolt are the real causes of failure. What usually happens, if the gas does escape, is that the receiver is blown spart.

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