To: Jim Snedeker
From: Edward Ford
Subject: August Monthly Report

Shotgun Product Improvement - New Cantilever Design

Impact tests were performed on two Remington cantilever scope mounts and one Mossberg cantilever scope mount. The tests were used to determine which process, welding or brazing, offers similar strength characteristics as the Mossberg. The tests showed that the brazed joint had equivalent impact strength characteristics as the Mossberg and over ten times the impact strength then the welded joint.

A high speed video of a M/870 with this new cantilever scope mount was taken to see if the scope mount would stay attached to the barrel during a blowup. The scope mount did stay attached, however the scope mounting rings fractured allowing the scope to fly rearward towards the shooter. David Findlay will add additional clearance to the scope mount to eliminate any forces on the scope and scope rings during a blowup.

Centerfire Product Improvement - New Crown

A new crown similar to the mountain rifle crown was added to the standard barrel and magnum barrel contours and a new "dish" crown was added to the varmint barrel contour. The drawings were transmitted on August 26, 1993.

Bolt Velocity Software

Currently developing a software program to use the Compaq Personal Computer to control the Tektronix 2520 Data Acquisition System to automate the bolt velocity test. The program is written in Visual Basic and uses "pull down" menus to input data. The program is approximately 90 percent complete with one subroutine remaining to be debugged.