

TEST AND MEASUREMENT LAB TEST RESULTS

REQUESTER: T. McCormack TESTER: DT & RH DATE: 9/12/88
REPORT NO.: 882442 WORK ORDER NO.: 018488
WRITTEN BY: D. Thomas
TEST TYPE: Developmental

FIREARM STAT'S : MODEL: 700 with experimental barrel CAL or GAUGE: .458
BARREL TYPE: _____ PROOFED: YES _____ NO _____

REASON FOR TEST :

To determine if the experimental barrel with a $\frac{1}{4}$ inch rib brazed into a slot over the chamber can survive a high Pressure strength Test.

EQUIPMENT REQUIRED :

- 1 experimental barrelled action
- reloading equipment
- Iron Lung
- Strain gage equipment

TEST PROCEDURE :

The barrel was plugged with 4-510gn, .458 in dia. bullets. A strain gage was applied in the chamber area to determine Peak Pressure. The gun was then installed in the iron lung and a high Pressure round was fired in it. The destructive round consisted of 80gn of Win 296 Powder and a 510gn soft Point bullet loaded in a win Case & Primer.

TEST RESULTS :

The barrel burst in the chamber area. The brass color in the cross sectional area of the slot shows that the failure started there.