## MEASUREMENT LAB TEST RESULTS

EQUESTOR: _R	l. Murphy	TESTER: P.	Conant	DATE:	04/23/85
EPORT NO.: _	851121	WORK ORDER N	O.: <u>C-5004-315</u>		
TEST TYPE: Developmental, New Design , Drop Test					
PIREARM STAT	C'S : MODEL: 700	CA	L or GAUGE:		
	BARREL TYPE:	<del></del>		40	

REASON FOR TEST: This test was initiated to find the acceleration a M/700 receiver sees on impact when it is dropped from heights of 1, 2, 3, and 4 feet onto the 90 durometer mat.

EQUIPMENT REQUIRED: M/700,243 WIN. rifle, serial no. B64o3926; 90 durometer mat; accelerometer no. pcb-303A025N-4780 with a sensitivity of 10.13 mV/g; charge amp; and scope.

TEST PROCEDURE: The rifle was dropped from heights of 1, 2, 3 and 4 feet a number of times. The waveforms were monitored to make sure that the measurements were consistent. Two waveforms at each height, typical of the observed waveforms, were stored and plotted. The table reflects the actual peak values observed at each drop. The graphs of the actual waveforms also accompany this report.