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Ilion, New York
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W. A. BEST

PILOT LINE TESTING OF MODEL 40-X

At your request ten (10) of the subject guns were with-
drawn from warehouse on 5-13-55 and subjected to test on this same
date.

Procedure

Measurements of head space, firing pin indent and trigger
pull were taken on all guns at zero rounds and at the completion of
the 1,000 rounds functional test. Also at every 5,000 cycles on
three guns in the dry cycle test.

All ten guns were fired three 40-shot groups, at zero
rounds with bedding screws not touching, and repeated at the completion
of the 1,000 rounds functional test, in the machine rest.

All ten guns were subjected to 1,000 rounds of live fire
testing using all long rifle ammunition, which included competitive
as well as Remington.

Three guns were then dry cycled 20,000 times with
measurements recorded.

The results are as follows:

Accuracy Test (Nu Match Lot #40X50GS)

Group size was measured inside to inside. In addition, each group was
passed or failed on the specification suggested by P.H. Burdett's
letter of April 29, 1955 and qualified by M.H. Walker.

Gun #		Zero Rounds			Failed or Passed	1,000 Rds. Functional Test			
		Group Size	1" Circle	1 1/2" Circle		Group Size	1" Circle	1 1/2" Circle	Failed or Passed
1081	1.	1.40"	88%	100%	P	1.4"	88%	100%	P
	2.	1.40"	88%	100%	P	1.2"	92%	100%	P
	3.	1.20"	93%	100%	P	1.45"	97%	97%	P
1037	1.	1.37"	90%	97%	P	.70"	100%	100%	P
	2.	1.00"	95%	100%	P	1.25"	90%	100%	P
	3.	1.10"	95%	100%	P	1.35"	97%	97%	P