

cc: S.M. Alvis  
 D.E. Miller  
 R.A. Williamson  
 H.J. Hackman  
 V.G. DeReus  
 W.E. Leek  
 R.L. St. John } In  
 Turn

Ilion, New York  
 April 15, 1958

W. A. BEST

MODEL 722 - 222 MAGNUM - PILOT LINE TEST

At your request ten of the above guns were selected on 4/11/58 and subjected to test.

Procedure

All ten guns were fired three 5-shot groups for accuracy on the 100 yd. range, using a 15-power scope mounted on the barrel and receiver.

Then all ten guns were fired 50 rounds each in field test.

Conclusions

Accuracy-wise, all guns passed the 2" gallery specs. measuring inside to inside. However, there are three conditions which could be corrected to help better the accuracy:

1. The bedding of the fore end on some guns is very poor.
2. Engagement of the sears in five guns appears to be too great.
3. Takedown screws were loose.

There was no significant change in point of impact.

Function

Function-wise, there were no malfunctions that occurred in field test. All rifles unloaded live ammunition satisfactorily. Three of the ten rifles had safeties that were hard to put in the position.

Accuracy

Gun No.	R - R of Hole		Point of Impact			
	Group Size					
414737	1)	2.8"	.1"	right	6.2"	high
	2)	1.3"	1.1"	left	6.2"	"
	3)	1.8"	.75"	"	6.9"	"
	Avg.	1.96"				

W. A. Best

-2-

April 15, 1958

Gun No.	Group Size	Point of Impact
2 415283	1) 1.8" 2) 3.0" 3) 1.65" Avg. 1.98"	1.7" right 3.2" high 1.9" " 2.6" " 1.9" " 3.0" "
3 414917	1) 2.8" 2) 1.5" 3) 1.6" Avg. 1.96"	2.3" left .5" high 2.8" " 1.2" " 2.0" " 1.2" "
4 414901	1) 1.6" 2) 1.55" 3) 1.75" Avg. 1.63"	1.1" right 1.1" low 1.9" " 1.2" " 1.9" " 1.1" "
5 414984	1) 2.3" 2) 2.8" 3) 2.0" Avg. 2.36"	.9" left 1.5" high .4" " 1.6" " .3" " 1.5" "
6 414872	1) 2.1" 2) 3.0" 3) 2.0" Avg. 2.3"	.5" Right 1.2" low 1.4" " 1.8" " 1.25" " 1.8" "
7 415339	1) 1.85" 2) 2.95" 3) 1.05" Avg. 1.76"	.3" right .6" high .1" " .2" " 0 " .2" "
8 414865	1) 2.1" 2) 1.65" 3) 1.5" Avg. 1.75"	1.75" right 2.85" high 1.95" " 2.75" " 1.75" " 2.45" "
9 398922	1) 1.5" 2) 2.15" 3) 1.2" Avg. 1.61"	.65" right 2.3" high .60" " 1.95" " .35" " 2.0" "

W. A. Best

-2-

April 15, 1958

<u>Gun No.</u>	<u>Group Size</u>	<u>Point of Impact</u>				
10	1)	1.65"	.35"	right	3.15"	high
415277	2)	1.35"	.3"		2.6"	
	3)	1.30"	.45"	"	2.9"	"
	AVG.	1.43"				

G. J. Theriault  
Supervisor - Testing Unit

CJT:T