

xc: J.W. Bower

REMINGTON ARMS COMPANY, INC.

INTER-DEPARTMENTAL CORRESPONDENCE

Remington



PETERS



"CONFINE YOUR LETTER TO ONE SUBJECT ONLY" _____

June 3, 1985

TO: W.L. Tomek
 FROM: R.S. Murphy

Preliminary Mountain Rifle Trial & Pilot Testing

Two Mountain Rifles in .280 caliber were supplied to Research for testing purposes. The stocks were not sanded or finished and did not have fore-end tips or grip caps. These rifles had been shot in the gallery for accuracy, endurance for 100 rounds, and shot three times more for accuracy. The results are as follows:

#B6688863 Group 1 - 1.5"
 100 round endurance
 Group 2 - 4.5"
 Group 3 - 3.5" (150 gr.)
 Group 4 - 3.0" (165 gr.)

#B6691589 Group 1 - 2.5"
 100 round endurance
 Group 2 - 5.0"
 Group 3 - 3.5" (150 gr.)
 Group 4 - 3.5" (165 gr.)

These rifles were shot in Research for accuracy also. Three 3-shot groups were averaged for each rifle as follows:

#B6688863 2.46" avg.

#B6691589 2.4" Avg.

These groups were not as good as I expected, however when the ammunition was qualified it didn't shoot very well either. To determine what this ammo lot will do in a standard M/700, two rifles have been withdrawn from the warehouse to be shot for accuracy. With this information we should be ready for the accuracy phase of the Trial & Pilot testing.

RSM:sps
 Attach.

RSI

338863

PATTERN # : 1

NUMBER OF SHOTS : 3

MAXIMUM X & Y : .301 -1.560

MINIMUM X & Y : 1.445 -1.270

CENTROID X & Y : -.653 .661

POA TO CENTROID RAD: .9292

MIN RADIUS : .9188

MEAN RADIUS : 1.0206

MAX RADIUS : 1.2348

HORIZONTAL SPREAD : 1.8610

VERTICAL SPREAD : 1.7150

EXTREME SPREAD : 1.9858

NUMBER IN ONE INCH CIRCLE = 0

NUMBER IN TWO INCH CIRCLE = 2

NUMBER IN THREE INCH CIRCLE = 3

PATTERN # : 2

NUMBER OF SHOTS : 3

MAXIMUM X & Y : 1.689 -.956

MINIMUM X & Y : 2.205 .021

CENTROID X & Y : .367 1.451

POA TO CENTROID RAD: 1.5015

MIN RADIUS : .7555

MEAN RADIUS : 1.3946

MAX RADIUS : 1.9610

HORIZONTAL SPREAD : 2.6450

VERTICAL SPREAD : 2.1840

EXTREME SPREAD : 3.3804

NUMBER IN ONE INCH CIRCLE = 0

NUMBER IN TWO INCH CIRCLE = 1

NUMBER IN THREE INCH CIRCLE = 2

PATTERN # : 3

NUMBER OF SHOTS : 3

MAXIMUM X & Y : .232 -.805

MINIMUM X & Y : 1.996 .036

CENTROID X & Y : -.301 .732

POA TO CENTROID RAD: .7912

MIN RADIUS : .7599

MEAN RADIUS : .9670

MAX RADIUS : 1.2647

HORIZONTAL SPREAD : 1.0370

VERTICAL SPREAD : 1.9600

EXTREME SPREAD : 2.0390

NUMBER IN ONE INCH CIRCLE = 0

NUMBER IN TWO INCH CIRCLE = 2

NUMBER IN THREE INCH CIRCLE = 3

865 7158?

PATTERN # : 1

NUMBER OF SHOTS : 3

MAXIMUM X & Y : .611 -1.427

MINIMUM X & Y : 2.836 1.018

CENTROID X & Y : -.597 1.631

POA TO CENTROID RAD: 1.7371

MIN RADIUS : .7205

MEAN RADIUS : 1.1761

MAX RADIUS : 1.4629

HORIZONTAL SPREAD : 2.0380

VERTICAL SPREAD : 1.8180

EXTREME SPREAD : 2.7164

NUMBER IN ONE INCH CIRCLE = 0

NUMBER IN TWO INCH CIRCLE = 1

NUMBER IN THREE INCH CIRCLE = 3

PATTERN # : 2

NUMBER OF SHOTS : 3

MAXIMUM X & Y : -.965 -2.426

MINIMUM X & Y : .285 -.792

CENTROID X & Y : -1.514 -.335

POA TO CENTROID RAD: 1.5509

MIN RADIUS : .7146

MEAN RADIUS : .7863

MAX RADIUS : .9261

HORIZONTAL SPREAD : 1.4610

VERTICAL SPREAD : 1.0770

EXTREME SPREAD : 1.4954

NUMBER IN ONE INCH CIRCLE = 0

NUMBER IN TWO INCH CIRCLE = 3

NUMBER IN THREE INCH CIRCLE = 3

PATTERN # : 3

NUMBER OF SHOTS : 3

MAXIMUM X & Y : -.137 -1.936

MINIMUM X & Y : 1.914 -.841

CENTROID X & Y : -1.022 .781

POA TO CENTROID RAD: 1.2860

MIN RADIUS : .4935

MEAN RADIUS : 1.2486

MAX RADIUS : 1.8145

HORIZONTAL SPREAD : 1.6990

VERTICAL SPREAD : 2.7550

EXTREME SPREAD : 3.2368

NUMBER IN ONE INCH CIRCLE = 1

NUMBER IN TWO INCH CIRCLE = 1

NUMBER IN THREE INCH CIRCLE = 2