REMINGTON ARMS COMPANY, INC.

INTER-DEPARTMENTAL CORRESPONDENCE

Remington.

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xc: W.H. Coleman, II/File
K.W. Soucy
G.J. Hill
J.R. Snedeker
R.S. Murphy
F.L. Supry
File

RESEARCH TEST AND MEASUREMENT REPORT

REPORT# 870211 JANUARY 30, 1987

MODEL 700 CLASSIC 338 WIN MAG TRIAL AND PILOT RIFLES VISUAL, ACCURACY AND FUNCTION

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER KINZER V. REMINGTON MODEL 700 CLASSIC 338 WIN MAG TRIAL AND PILOT EVALUATION

ABSTRACT:

Research and Development finds the Trial and Pilot Evaluation of the Model 700 Classic, 338 Win Mag caliber rifle, to be acceptable. The Trial and Pilot Evaluation consisted of Visual Inspection, Accuracy, and Function. The eight rifle sample was found to be within Remington Specifications for each phase of the Trial and Pilot Evaluation.

Prepared by:	F.L. SUPRY
Date Prepared:	1/30/87

proofread and cleared by:

J.R. SNEDEKER, Research Supervisor Test, Measurement & Mech. Analysis Lab

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W.H. COLEMAN, II New Products Research Lab Director

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER KINZER V. REMINGTON

-3-

REPORT# 870211

WORK ORDER# B-0504-000 DATE: JANUARY 30, 1987

TO: J.R. SNEDEKER

FROM: F.L. SUPRY

TITLE: ACCURACY AND FIELD FUNCTION: MODEL 700 CLASSIC 338 WIN MAG

ABSTRACT:

On January 21, 1987 a request was received to conduct a Visual, Accuracy and Function evaluation of the Model 700 Classic 338 WIN MAG caliber, Trial and Pilot rifles currently in the warehouse. Eight rifles were randomly selected from the warehouse.

SCOPE OF TEST:

To determine if the production run samples meet the Remington Specifications set by the Research Design Section.

TEST RESULTS:

The eight rifle Trial and Pilot Evaluation was found to be acceptable. The following results were obtained:

A. VISUAL:

a. The overall appearance of the rifles was very good.

B. ACCURACY:

a. Average group size = 2.43 inches center to center

C. FUNCTION:

a. No malfunctions occurred.

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TEST REPORT:

- 1. ACCURACY:
 - A. The Remington specification for group size is 3.5 inches, center to center.
 - B. Three (3) rifles were tested for 100 yard accuracy and the following results were established:

	GRC	AVERAGE		
	1	2	3	
Rifle# B6830009 -	1.65 in.	2.29 in.	2.69 in.	2.21 in.
Rifle# B6833596 -	2.65 in.	3.79 in.	1.81 in.	2.65 in.
Rifle# B6830876 -	2.64 in.	2.79 in.	1.88 in.	2.44 in.

- 2. FUNCTION:
 - A. Three rifles were subjected to a 30 round per rifle, Function Test and the following results were obtained:
 - a. No malfunctions occurred.

TEST PROCEDURE:

1. ACCURACY

A. The following three (3) rifles were used in the 100 yard accuracy test:

B6830009	B6833596	B6830876	
----------	----------	----------	--

- B. The accuracy was shot by the Custom Shop, at the R & D 100 yard range.
- C. Leupold base and rings were used in conjunction with a Redfield 12X (4-plex) scope.
- D. Winchester ammunition; index X3381, code 9WC61, 200 grain soft point, was used for the 100 yard accuracy test.
- E. Before shooting the 100 yard accuracy test, the bores on each rifle were brushed with Hoppe's No. 9 solvent and patched dry.

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TEST PROCEDURE: (continued)

- 1. ACCURACY (continued)
 - F. A total of three (3), five (5) shot groups were shot with each rifle. The rifles were cooled between each group, and one (1) "warmer" shot was fired before the next group was shot.
 - G. The patterns were analyzed for group size, and averages were calculated for each rifle.

2. VISUAL:

- A. The visual inspection committee consisted of G.Hill, J. Willoughby (P. E. & C.); F. Supry, and J. Selan (R. & D.).
- B. Five (5) rifles were selected, using random number tables, from a sample lot of eight rifles.
- C. The rifles used in the Visual Inspection were:

B6833465 B6830372 B6829175 B6833550 B6831373

D. Each rifle was wiped down with a clean white Coyne towel, and examined by each member of the Visual Inspection Committee. All comments were recorded, and are included in this report.

3. FUNCTION:

A. The following three rifles were selected for the Function Test:

B6830009 B6833596 B6830876

- B. The three rifles were subjected to the loading and firing of 30 rounds of Winchester ammunition (15 rounds of 200 grain, and 15 rounds of 225 grain). Fifteen rounds were fired; 5 at a slow feeding cycle speed, 5 at a medium feeding cycle speed, and 5 at a fast feeding cycle speed. The rifles were allowed to cool and then the procedure repeated with the remaining ammunition type.
- C. The following ammunition was used in the function test:

a. X3381 200 grain soft point b. X3382 225 grain soft point

VISUAL INSPECTION MODEL 700 CLASSIC 338 WIN MAG CALIBER

SERIAL NUMBER -----COMMENTS------B6833465 SMALL NICKS IN RIGHT SIDE OF BBL GROOVE - BURNISH MARK ON THE RECOIL PAD - SLIGHT TURN MARKS ON RIGHT SIDE OF BBL, UNDER THE FRONT SIGHT BASE. ROUGH FILL IN THE BOLT HANDLE SLOT - FLOOR PLATE SLIGHTLY B6830372 LOOSE - PITS ON THE BOLT PLUG. FIBER THREAD UNDER THE RECOIL PAD - SLIGHT MAR ON THE B6829175 SIGHT SCREW - INCOMPLETE POLISH ON THE FIRING PIN HEAD -FLOOR PLATE SLIGHTLY LOOSE. B6833550 SLIGHT BREAKOUT OF STOCK AT THE RAIL ON THE RIGHT SIDE OF THE RECEIVER - RECEIVER SEEMS TO SET TOO DEEP IN THE STOCK - FLOOR PLATE TAKEDOWN SCREW MARRED.

B6831373 NICK ON THE FLOOR PLATE - EXCESSIVE SANDING IN THE BOLT HANDLE SLOT AREA - FIBER THREAD UNDER RECOIL PAD.

IN GENERAL THESE WERE VERY GOOD LOOKING RIFLES. THE CHECKERING WAS CLEAR, AND THE WOOD AND METAL FINISHES WERE EXCELLENT. THE VISUAL INSPECTION COMMITTEE FINDS THE VISUAL INSPECTION OF THE MODEL 700 CLASSIC 338 WIN MAG TO BE ACCEPTABLE.

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER KINZER V. REMINGTON ففحاف بالمتعاد والمتعاليات

REMINGTON ARMS COMPANY, INC.

INTER-DEPARTMENTAL CORRESPONDENCE

Remington.

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xc: W.H. Coleman, II/File
K.W. Soucy
G.J. Hill
J.R. Snedeker
F.L. Supry
File

RESEARCH TEST AND MEASUREMENT REPORT

REPORT# 870641 MARCH 12, 1987

MODEL 700 LEFT HAND - TRIAL AND PILOT EVALUATION 243 WIN AND 308 WIN CALIBERS

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER KINZER V. REMINGTON

MODEL 700 LEFT HAND 243 WIN AND 308 WIN TRIAL AND PILOT EVALUATION

ABSTRACT:

Research and Development finds the Trial and Pilot Evaluation of the Model 700 left hand 243 win caliber, and the Model 700 left hand 308 win caliber rifles to be acceptable. The Trial and Pilot Evaluation consisted of Visual Inspection, Accuracy, and Function. The ten rifle sample (five rifles of each caliber) was found to be within-Remington specifications for each phase of the Trial and Pilot Evaluation.

> Prepared by: F Date prepared: 1

F.L. Supry 12 march 1987

proofread and cleared by:

J.R. Snedeker, Research Supervisor Test, Measurement & Mech. Analysis Lab

W.H. Coleman, II New Products Research Lab Director

WORK ORDER# 81411-905

REPORT# 870641

To: J.R. Snedeker

From: F.L. Supry

MODEL 700 LEFT HAND (243 WIN, AND 308 WIN) TRIAL AND PILOT EVALUATION

INTRODUCTION:

On March 5, 1987 a request was received to conduct a Visual, Accuracy, and Function Evaluation of the Model 700 left hand (243 Win and 308 Win caliber) Trial and Pilot rifles. Five rifles of each caliber were randomly selected from production.

SCOPE OF TEST:

To determine if the production run samples meet the Remington Specifications set by the Research Design Section.

TEST RESULTS:

The ten rifle Trial and Pilot Evaluation was found to be acceptable. The following results were obtained:

A. VISUAL:

a. The overall appearance of the rifles was good.

B. ACCURACY: (Average group size)

a. 243 Win = 1.972 inches. b. 308 Win = 1.749 inches.

C. FUNCTION:

a. No malfunctions occurred.

TEST REPORT:

- 1. VISUAL:
 - A. The visual inspection committee felt that the following two items need to be checked more thoroughly:

a. Finish peeling by the grip checkering.

b. Rear sight being raised off the ramp.

B. Data sheets containing the comments on each rifle inspected is included in the appendix of this report.

2. ACCURACY:

A. The Remington Specification for group size is as follows:

a. 243 Win caliber: 2.2 inches, center to center.

b. 308 Win caliber: 3.5 inches, center to center.

B. Three rifles of each caliber were tested for 100 yard accuracy and the following results were obtained.

			GROUP		AÝG
243 WIN CALIBER		1	2	3	
Rifle# B6850372	-	2.305	2.329	1.505	2.046
Rifle# B6849949	-	1.815	1.666	1.603	1.695
Rifle# B6849906	-	2.603	1.527	2.395	2.175

OVERALL GROUP SIZE AVERAGE = 1.972 INCHES

308 WIN CALIBER

Rifle#	B6851090		2.337	1.852	1.713	1.968
Rifle#	B6851007		1.497	2.266	1.188	1.650
Rifle#	B6851094	-	1.324	2.204	1.356	1.628

OVERALL GROUP SIZE AVERAGE = 1.749

3. FUNCTION:

A. Three rifles of each caliber were subjected to a 30 round per rifle, function test and the following results were obtained:

a. No malfunctions occurred.

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER KINZER V. REMINGTON

TEST PROCEDURE:

1. VISUAL:

- A. The visual inspection committee consisted of G. Hill, G. Barnes (P.E. & C.); J. Baggetta, C. Stephens, and F. Supry (R. & D.).
- B. All five rifles of each caliber were used in the visual inspection. The rifles were as follows:
 - a. 243 Win caliber: B6849906 B6849999 B6849949 B6849965 B6850372
 - b. 308 Win caliber: B6851094 B6851145 B6851007 B6850969 B6851090
- C. Each rifle was wiped down with a clean white Coyne towel, and examined by each member of the visual inspection committee. All comments were recorded, an are included in the appendix of this report.

2. ACCURACY:

- A. The following rifles were used in the 100 yard accuracy test:
 - a. 243 Win caliber: B6850372 B6849949 B6849906
 - b. 308 Win caliber: B6851090 B6851007 B6851094
- B. The accuracy was shot by C. Stephens, at the R&D 100 yard range located in building 52-1.
- C. Leupold base and rings were used in conjunction with a Redfield 12X (4-plex) scope.
- D. Remington ammunition; index R243W3, code W20LD0948, and index R308W3, code C13TC6305 was used for the 100 yard accuracy test.
- E. Before shooting the accuracy test, the bores on each rifle were brushed with Hoppe's No. 9 solvent and patched dry.
- F. A total of three, five shot groups were shot with each rifle. The rifles were cooled between each group, and one "warmer" shot was fired before the next group was shot.
- G. The targets were analyzed for group size and the averages calculated, using the HP 9000 computer and digitizing tablet.

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER KINZER V. REMINGTON

TEST PROCEDURE: (continued)

3. FUNCTION:

- A. The following rifles were selected for the function test:
 - a. 243 Win Caliber: B6849906 B6849999 B6849965
 - b. 308 Win caliber: B6851007 B6851145 B6850969
- B. Each of the rifles was subjected to the loading and firing of 30 rounds of Remington ammunition (15 rounds of 80 grain and 15 rounds of 100 grain for the 243 Win caliber rifles, and 15 rounds of 55 grain and 15 rounds of 180 grain for the 308 Win caliber rifles). Fifteen rounds were fired; 5 at a slow feeding cycle speed, 5 at a medium feeding cycle speed, and 5 at a fast feeding cycle speed. The rifles were allowed to cool, and then the procedure was repeated with the remaining ammunition type.
- C. The following ammunition was used in the function test:
 - a. R243W1 80 grain pointed soft point.
 - b. R243W3 100 grain pointed soft point.
 - c. R308W5 55 grain Win accelerator.
 - d. R308W2 180 grain soft point.

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APPENDIX

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER KINZER V. REMINGTON

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WORK ORDER# 81411-905

VISUAL INSPECTION MODEL 700 LEFT HAND 243 WIN AND 308 WIN CALIBERS

243 WIN CALIBER:

SERIAL NUMBER ------ COMMENTS ------

B6849906 FINISH PEELING AT GRIP CHECKERING. BRIGHT MARK ON THE BARREL. SMALL PIMPLES IN THE FINISH NEAR THE STUD, AT THE FORE END TIP.

B6849999 SMALL CHIP ON GRIP CAP. SMALL PIMPLES IN THE FINISH, ON THE RIGHT SIDE OF THE STOCK NEAR THE TRIGGER' GUARD. SLIGHT CRACK IN THE BOLT HANDLE SLOT, AND SANDING BREAKTHROUGH IN THE SAME AREA.

B6849949 REAR SIGHT RAISED OFF THE SLIDE. MAR ON THE TRIGGER GUARD. BLEED OUT ON THE CROSS PIN. SLIGHT DING IN THE STOCK, LEFT SIDE NEAR FORE END TIP.

B6849965 GAP BOTH SIDES OF THE BUTT PLATE. SCRATCH LEFT SIDE OF STOCK BY THE RECEIVER.

B6850372 FINISH PEELING RIGHT SIDE OF STOCK NEAR THE CHECKERING.

308 WIN CALIBER:

B6851094 SLIGHT DING ON THE FLOOR PLATE, RIGHT SIDE.

B6851145 MAR ON THE FLOOR PLATE, LEFT SIDE. TWO SLIGHT DINGS ON THE BUTT PLATE. BUTT PLATE INSERT NOT FLUSH.

B6851007 FINISH RUN NEAR THE CHECKERING. SPACE UNDER FORE END TIP.

B6850969 DENT ON THE TOP OF THE STOCK, NEAR THE REAR SWIVEL. TWO SLIGHT DINGS ON THE RIGHT SIDE OF THE TRIGGER GUARD. REAR SIGHT RAISED OFF OF RAMP.

B6851090 SLIGHT DING, LEFT SIDE OF STOCK, NEAR THE BOLT HANDLE SLOT. EXCESSIVE WOOD MARGIN AT THE SAFETY SLOT. BOLT HANDLE SLOT IS ROUGH.

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CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER KINZER V. REMINGTON Ç,

xc: W.H. Coleman, II/File
K.W. Soucy
G.J. Hill
J.R. Snedeker
F.L. Supry
File

RESEARCH TEST AND MEASUREMENT REPORT

REPORT# 870641 MARCH 12, 1987

MODEL 700 LEFT HAND - TRIAL AND PILOT EVALUATION 243 WIN AND 308 WIN CALIBERS

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER KINZER V. REMINGTON MODEL 700 LEFT HAND 243 WIN AND 308 WIN TRIAL AND PILOT EVALUATION

ABSTRACT:

Research and Development finds the Trial and Pilot Evaluation of the Model 700 left hand 243 win caliber, and the Model 700 left hand 308 win caliber rifles to be acceptable. The Trial and Pilot Evaluation consisted of Visual Inspection, Accuracy, and Function. The ten rifle sample (five rifles of each caliber) was found to be within Remington specifications for each phase of the Trial and Pilot Evaluation.

> Prepared by: Date prepared:

F.L. Supry 12 march 1987

proofread and cleared by:

J.R. Snedeker, Research Supervisor Test, Measurement & Mech. Analysis Lab

W.H. Coleman, II New Products Research Lab Director Report No. 870641

RESEARCH TEST & MEASUREMENT LAB WORK REQUEST

	ARE	A OF TESTING
	Safety Related	Litigation
	Competitive Evaluation	ation Warehouse Audit
Pre-Pilot	New Design	Cost Reduction
Pilot	Design Change	Stake
Production Acceptance	Plant Assistance	L Other TEP
FIREARM STAT'S	REPORT REQ'D.	
MODEL: 700 Left Han		DATE REQUESTED: 3/5/87
CAL or GAGE: 243 \$ 308	FORMAL X	DATE NEEDED BY:
BARREL TYPE:	TEST RESULTS	REQUESTED BY: 6 J Hill
PROOFED: YES X NO	ONLY	WORK ORDER NO:
Strength Test Ammuni Function Test Environs Accuracy Test Custome		B V Other USUAL
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5 of each caliber

NOTE: NO firearms or parts will be tested in the Labs unless they are accompanied by a Work Request, and both are delivered to the Labs by the designer or engineer. All Work Requests are to be filled out in detail. No Exceptions.

TEST COMPLETED BY:
REPORT DATE:

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER KINZER V. REMINGTON

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REMINGTON ARMS COMPANY, INC.

INTER-DEPARTMENTAL CORRESPONDENCE

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xc: W.H. Coleman, II/File K.W. Soucy G.J. Hill J.R. Snedeker J.F. Matousek, Jr F.L. Supry File

RESEARCH TEST AND MEASUREMENT REPORT

REPORT# 871112 APRIL 29, 1987

MODEL 700 FS TRIAL AND PILOT EVALUATION

308 WIN CALIBER

MODEL 700 FS 308 WIN CALIBER - TRIAL AND PILOT EVALUATION

ABSTRACT:

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Research and Development finds the Trial and Pilot Evaluation of the Model 700 FS 308 win caliber rifles to be acceptable. The Trial and Pilot Evaluation consisted of Visual Inspection, Accuracy, and Function. The eight rifle sample (four rifles with gray stocks and four rifles with camo stocks) was found to be within Remington specifications for each phase of the Trial and Pilot Evaluation.

> Prepared by: Date prepared:

F.L. Supry 29 April 1987

proofread and cleared by:

J.R. Snedeker, Research Supervisor Test, Measurement & Mech. Analysis Lab

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W.H. Coleman, II) New Products Research Lab Director

WORK ORDER# 81389-914

REPORT# 871112

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To: J.R. Snedeker

From: F.L. Supry

MODEL 700 FS 308 WIN CALIBER - TRIAL AND PILOT EVALUATION

INTRODUCTION:

On April 21, 1987 a request was received to conduct a Visual, Accuracy, and Function Evaluation of the Model 700 FS 308 Win caliber, Trial and Pilot rifles. Eight rifles, four of each stock option, were randomly selected from production.

SCOPE OF TEST:

To determine if the production run samples meet the Remington Specifications set by the Research Design Section.

TEST RESULTS:

The eight rifle Trial and Pilot Evaluation was found to be acceptable. The following results were obtained:

A. VISUAL:

a. The overall appearance of the rifles was good.

B. ACCURACY: (Average group size)

a. 308 Win (Gray) = 1.857 inches. b. 308 Win (Camo) = 1.832 inches.

C. FUNCTION:

a. No malfunctions occurred.

WORK ORDER# 81389-914

REPORT# 871112

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TEST REPORT:

1. VISUAL:

A. The visual inspection committee felt that the following three items need to be checked more thoroughly:

a. "F" stamp upsetting the receiver, near the bolt handle slot.

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- b. The Proof Stamp was light.
- c. The swivels were off center.
- B. Data sheets containing the comments on each rifle inspected is included in the appendix of this report.

2. ACCURACY:

A. The Remington Specification for group size is as follows:

a. 308 Win caliber: 3.5 inches, center to center.

B. Two rifles of each stock option were tested for 100 yard accuracy and the following results were obtained.

			GROUP		AVG
Gray Stock		1	2	3	
Rifle# B6848853	_	1.738	1.409	1.444	1.530
Rifle# B6848285	-	2.542	2.382	1.626	2.183

OVERALL GROUP SIZE AVERAGE = 1.857 INCHES

Camo Stock

Rifle# B6849758 - 1.813 1.606 2.421 1.947 Rifle# B6848296 - 1.359 1.804 1.986 1.716

OVERALL GROUP SIZE AVERAGE = 1.832

3. FUNCTION:

A. The rifles were subjected to a 30 round per rifle, function test and the following results were obtained:

a. No malfunctions occurred.

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER KINZER V. REMINGTON

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TEST PROCEDURE:

1. VISUAL:

- A. The visual inspection committee consisted of G. Hill, G. Barnes, P. Johnson, R. Long (P.E. & C.); R. Howe, and F. Supry (R. & D.).
- B. All four rifles of each stock option were used in the visual inspection. The rifles were as follows:
 - a. Gray Stock: B6848853 B6848285 B6849351 B6849316
 - b. Camo Stock: B6849330 B6849758 B6848296 B6849254
- C. Each rifle was wiped down with a clean white Coyne towel, and examined by each member of the visual inspection committee. All comments were recorded, an are included in the appendix of this report.

2. ACCURACY:

- A. The following rifles were used in the 100 yard accuracy test:
 - a. Gray Stock: B6848285 B6848853
 - b. Camo Stock: B6848296 B6849758
- B. The accuracy was shot by C. Stephens, at the R&D 100 yard range located in building 52-1.
- C. Leupold base and rings were used in conjunction with a Redfield 12X (4-plex) scope.
- D. Remington ammunition; index R308W3, code C13TC6305 was used for the 100 yard accuracy test.
- E. Before shooting the accuracy test, the bores on each rifle were brushed with Hoppe's No. 9 solvent and patched dry.
- F. A total of three, five shot groups were shot with each rifle. The rifles were cooled between each group, and one "warmer" shot was fired before the next group was shot.
- G. The targets were analyzed for group size and the averages calculated, using the HP 9000 computer and digitizing tablet.

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TEST PROCEDURE: (continued)

3. FUNCTION:

A. All four rifles of each stock option were used in the function test. The rifles were as follows:

a. Gray Stock: B6848853 B6848285 B6849351 B6849316

b. Camo Stock: B6849330 B6849758 B6848296 B6849254

- B. Each of the rifles was subjected to the loading and firing of 30 rounds of Remington 308 Win caliber ammunition (15 rounds of 55 grain and 15 rounds of 180 grain). Fifteen rounds were fired; 5 at a slow feeding cycle speed, 5 at a medium feeding cycle speed, and 5 at a fast feeding cycle speed. The rifles were allowed to cool, and then the procedure was repeated with the remaining ammunition type.
- C. The following ammunition was used in the function test:
 - a. R308W5 55 grain Win accelerator.
 - b. R308W2 180 grain soft point.

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WORK ORDER# 81389-914

APPENDIX

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER KINZER V. REMINGTON

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VISUAL INSPECTION MODEL 700 FS 308 WIN CALIBERS

Gray Stock:

SERIAL NUMBER	COMMENTS
B6848853	MISMATCH ON THE TRIGGER GUARD. POOR COLOR ON THE BOLT. LIGHT PROOF MARK.
B6848285	POOR COLOR ON THE BOLT. LIGHT PROOF MARK.
B6849351	LIGHT PROOF MARK. GOUGE IN THE SAFETY SLOT.
	MAR ON THE TRIGGER GUARD. LIGHT PROOF MARK.
Camo Stock:	
B6849330	SLIGHT BLEMISH OVER SERIAL NUMBER. LIGHT PROOF MARK. REAR SWIVEL OFF CENTER. BRIGHT MAR ON THE BOLT PLUG.
B6849758	LIGHT PROOF MARK. REAR SWIVEL OFF CENTER. BRIGHT MAR ON THE BOLT PLUG.

B6848296 LIGHT PROOF MARK. BRIGHT MAR ON THE BOLT PLUG.

B6849254 LIGHT PROOF MARK. BRIGHT MAR ON THE BOLT PLUG.

GENERAL COMMENTS:

THE BRIGHT MAR ON THE BOLT PLUGS WAS CAUSED BY THE "F" STAMP ON THE RECEIVER BEING STAMPED CLOSE TO THE EDGE, UPSETTING THE SLOT.

THE STYLE OF BARREL FINISH CONTRIBUTES TO THE PROOF MARK BEING LIGHT.

THE SWIVELS ARE PUT IN SLIGHTLY OFF CENTER BY THE VENDOR.

REMINGTON ARMS COMPANY, INC.

INTER-DEPARTMENTAL CORRESPONDENCE

Remington.

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RD-69-8

DETERS OUPOND

"CONFINE YOUR LETTER TO ONE SUBJECT ONLY"_____

xc: W.H. Coleman, II/File K.W. Soucy G.J. Hill T.C. Douglas J.R. Snedeker J.F. Matousek, Jr. F.L. Supry File

RESEARCH TEST AND MEASUREMENT REPORT

REPORT# 871383 MAY 28, 1987

MODEL 700 "POLICE" 223 REM CALIBER BOLT ACTION RIFLES

TRIAL AND PILOT EVALUATION

MODEL 700 "POLICE" 223 REM CALIBER - TRIAL AND PILOT EVALUATION

ABSTRACT:

Research and Development finds the Trial and Pilot Evaluation of the Model 700 "Police" 223 Rem caliber rifles to be acceptable. The Trial and Pilot Evaluation consisted of Accuracy, and Function. The five rifle sample was found to be within Remington specifications for each phase of the Trial and Pilot Evaluation.

> Prepared by: Date prepared:

F.L. Supry 28 May 1987

proofread and cleared by:

J.R. Snedeker, Research Supervisor Test, Measurement & Mech. Analysis Lab

W.H. Coleman, II New Products Research Lab Director

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER KINZER V. REMINGTON

WORK ORDER# 82034-905

REPORT# 871383

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To: J.R. Snedeker

From: F.L. Supry

MODEL 700 "POLICE" 223 REM CALIBER - TRIAL AND PILOT EVALUATION

INTRODUCTION:

On May 18, 1987 a request was received to conduct an Accuracy, and Function Evaluation of the Model 700 "Police" 223 Rem caliber, Trial and Pilot rifles. Five rifles were randomly selected from production.

SCOPE OF TEST:

To determine if the production run samples meet the Remington Specifications set by the Research Design Section.

TEST RESULTS:

The five rifle Trial and Pilot Evaluation was found to be acceptable. The following results were obtained:

A. ACCURACY: (Average group size)

С. н.

a. 223 Rem = 1.009 inches.

C. FUNCTION:

a. No malfunctions occurred.

WORK ORDER# 82034-905

REPORT# 871383

TEST REPORT

1. ACCURACY:

A. The Remington Specification for group size is as follows:

a. 223 Rem caliber: 1.5 inches, center to center.

B. Three rifles tested for 100 yard accuracy and the following results were obtained.

				GROUP		AVG
			1	2	3	
Rifle#	B6853162	-	0.795	1.144	0.911	0.950
Rifle#	B6853148	-	1.571	0.881	1.465	1.304
Rifle #	B6853242	-	1.089	0.560	0.672	0.774

OVERALL GROUP SIZE AVERAGE = 1.009 INCHES

- 3. FUNCTION:
 - A. The rifles were subjected to a 30 round per rifle, function test and the following results were obtained:
 - a. No malfunctions occurred.

. . .

TEST PROCEDURE:

- 1. ACCURACY:
 - A. The following rifles were used in the 100 yard accuracy test:

B6853162 B6853148 B6853242

- B. The accuracy was shot by J.E. Selan, at the R&D 100 yard range located in building 52-1.
- C. Leupold base and rings were used in conjunction with a Redfield 12X (4-plex) scope.
- D. Remington ammunition; index R223R3 , code A06ID was used for the 100 yard accuracy test.

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER KINZER V. REMINGTON

, ,

WORK ORDER# 82034-905

TEST PROCEDURE: (continued)

- 1. ACCURACY: (continued)
 - E. Before shooting the accuracy test, the bores on each rifle were brushed with Hoppe's No. 9 solvent and patched dry.
 - F. A total of three, five shot groups were shot with each rifle. The rifles were cooled between each group, and one "warmer" shot was fired before the next group was shot.
 - G. The targets were analyzed for group size and the averages calculated, using the HP 9000 computer and digitizing tablet.

2. FUNCTION:

A. Three rifles were used in the function test. The rifles were as follows:

B6853162 B6853148 B6853242

- B. Each of the rifles was subjected to the loading and firing of 30 rounds of Remington 223 Rem caliber ammunition (15 rounds of 55 grain metal case, and 15 rounds of 55 grain pointed soft point). Fifteen rounds were fired; 5 at a slow feeding cycle speed, 5 at a medium feeding cycle speed, and 5 at a fast feeding cycle speed. The rifles were allowed to cool, and then the procedure was repeated with the remaining ammunition type.
- C. The following ammunition was used in the function test:

a.	R223R1 - 55 grain	pointed	soft	point.		
b.	R223R3	- 5	55	grain	metal	case.

REMINGTON ARMS COMPANY, INC.

INTER-DEPARTMENTAL CORRESPONDENCE

Remington.

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xc: W.H. Coleman, II/File K.W. Soucy G.J. Hill T.C. Douglas J.R. Snedeker J.F. Matousek, Jr. F.L. Supry

File

RESEARCH TEST AND MEASUREMENT REPORT

REPORT# 871383 MAY 28, 1987

MODEL 700 "POLICE" 223 REM CALIBER BOLT ACTION RIFLES

TRIAL AND PILOT EVALUATION

MODEL 700 "POLICE" 223 REM CALIBER - TRIAL AND PILOT EVALUATION

ABSTRACT:

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Research and Development finds the Trial and Pilot Evaluation of the Model 700 "Police" 223 Rem caliber rifles to be acceptable. The Trial and Pilot Evaluation consisted of Accuracy, and Function. The five rifle sample was found to be within Remington specifications for each phase of the Trial and Pilot Evaluation.

Prepared by:	F.L. Supry
Date prepared:	<u>F.L. Supry</u> 28 May 1987

proofread and cleared by:

J.R. Snedeker, Research Supervisor Test, Measurement & Mech. Analysis Lab

W.H. Coleman, II New Products Research Lab Director ٠

محمد بأم الشراك معظ فيدين

To: J.R. Snedeker

From: F.L. Supry

MODEL 700 "POLICE" 223 REM CALIBER - TRIAL AND PILOT EVALUATION

INTRODUCTION:

On May 18, 1987 a request was received to conduct an Accuracy, and Function Evaluation of the Model 700 "Police" 223 Rem caliber, Trial and Pilot rifles. Five rifles were randomly selected from production.

SCOPE OF TEST:

To determine if the production run samples meet the Remington Specifications set by the Research Design Section.

TEST RESULTS:

The five rifle Trial and Pilot Evaluation was found to be acceptable. The following results were obtained:

A. ACCURACY: (Average group size)

· .

a. 223 Rem = 1.009 inches.

C. FUNCTION:

a. No malfunctions occurred.

in a contr

TEST REPORT

1. ACCURACY:

A. The Remington Specification for group size is as follows:

a. 223 Rem caliber: 1.5 inches, center to center.

B. Three rifles tested for 100 yard accuracy and the following results were obtained.

			GROUP			AVG
			1	2	3	
Rifle#	B6853162	-	0.795	1.144	0.911	0.950
Rifle#	B6853148		1.571	0.881	1.465	1.304
Rifle#	B6853242	-	1.089	0.560	0.672	0.774

OVERALL GROUP SIZE AVERAGE = 1.009 INCHES

- 3. FUNCTION:
 - A. The rifles were subjected to a 30 round per rifle, function test and the following results were obtained:

a. No malfunctions occurred.

TEST PROCEDURE:

1. ACCURACY:

A. The following rifles were used in the 100 yard accuracy test:

B6853162 B6853148 B6853242

- B. The accuracy was shot by J.E. Selan, at the R&D 100 yard range located in building 52-1.
- C. Leupold base and rings were used in conjunction with a Redfield 12X (4-plex) scope.
- D. Remington ammunition; index R223R3 , code A06ID was used for the 100 yard accuracy test.

WORK ORDER# 82034-905

REPORT# 871383

TEST PROCEDURE: (continued)

- 1. ACCURACY: (continued)
 - E. Before shooting the accuracy test, the bores on each rifle were brushed with Hoppe's No. 9 solvent and patched dry.
 - F. A total of three, five shot groups were shot with each rifle. The rifles were cooled between each group, and one "warmer" shot was fired before the next group was shot.
 - G. The targets were analyzed for group size and the averages calculated, using the HP 9000 computer and digitizing tablet.

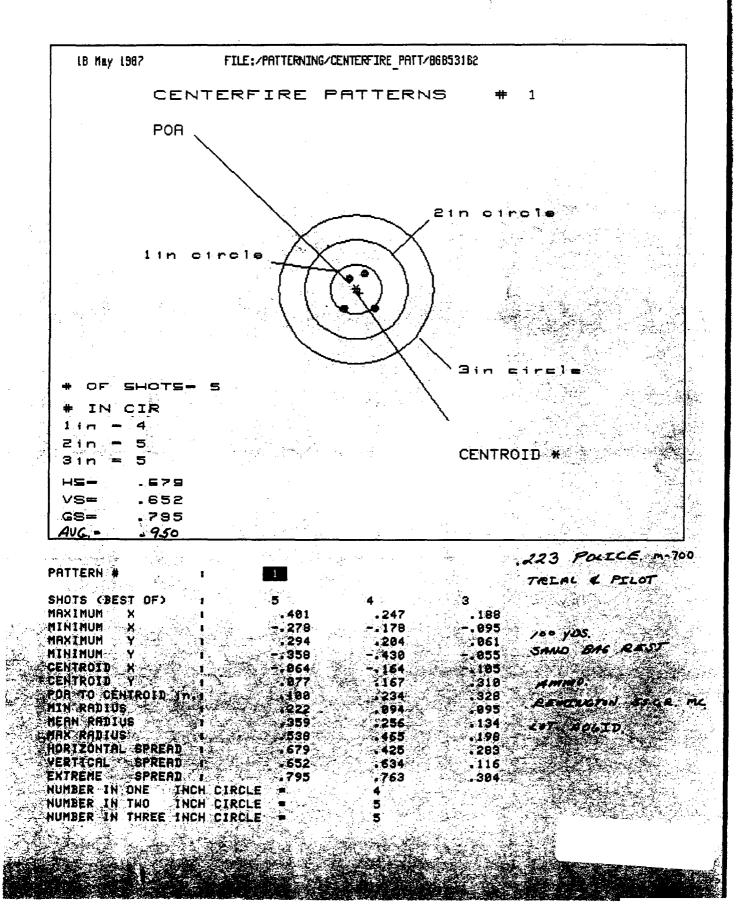
2. FUNCTION:

A. Three rifles were used in the function test. The rifles were as follows:

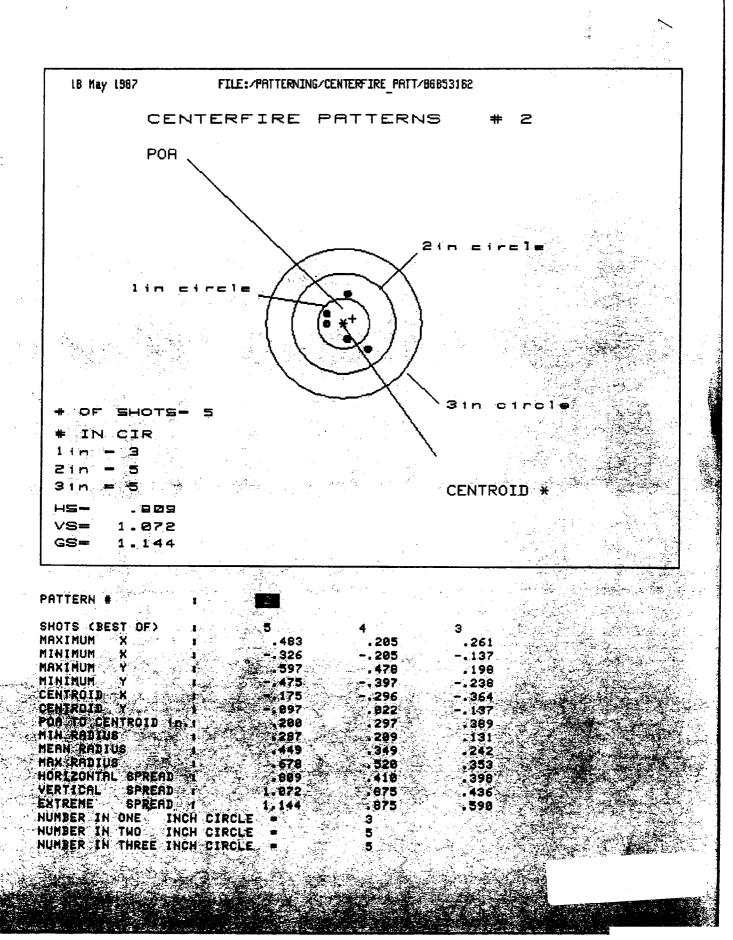
B6853162 B6853148 B6853242

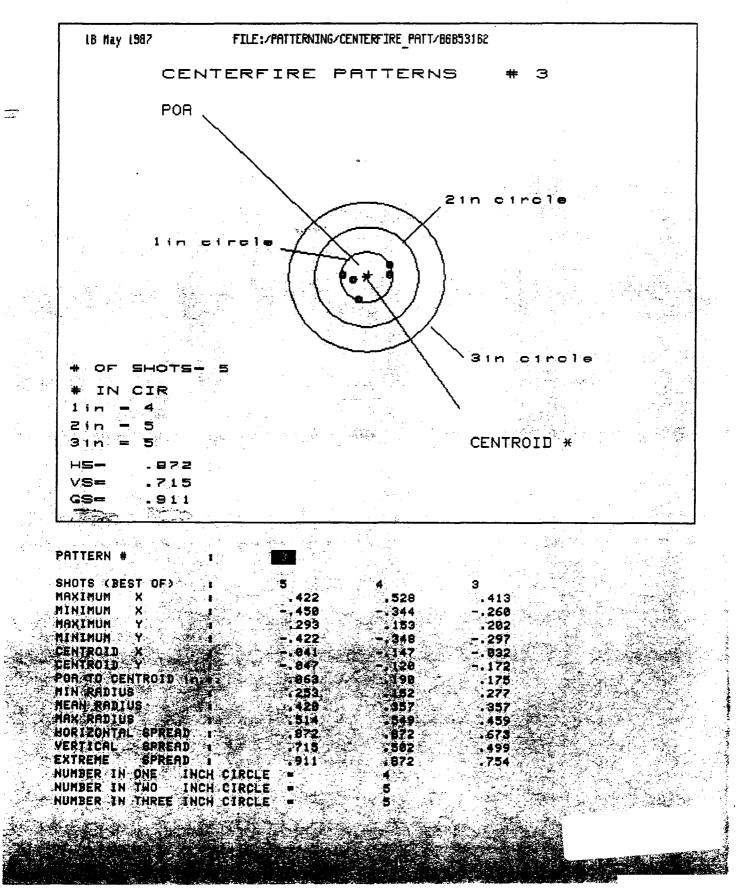
- B. Each of the rifles was subjected to the loading and firing of 30 rounds of Remington 223 Rem caliber ammunition (15 rounds of 55 grain metal case, and 15 rounds of 55 grain pointed soft point). Fifteen rounds were fired; 5 at a slow feeding cycle speed, 5 at a medium feeding cycle speed, and 5 at a fast feeding cycle speed. The rifles were allowed to cool, and then the procedure was repeated with the remaining ammunition type.
- C. The following ammunition was used in the function test:

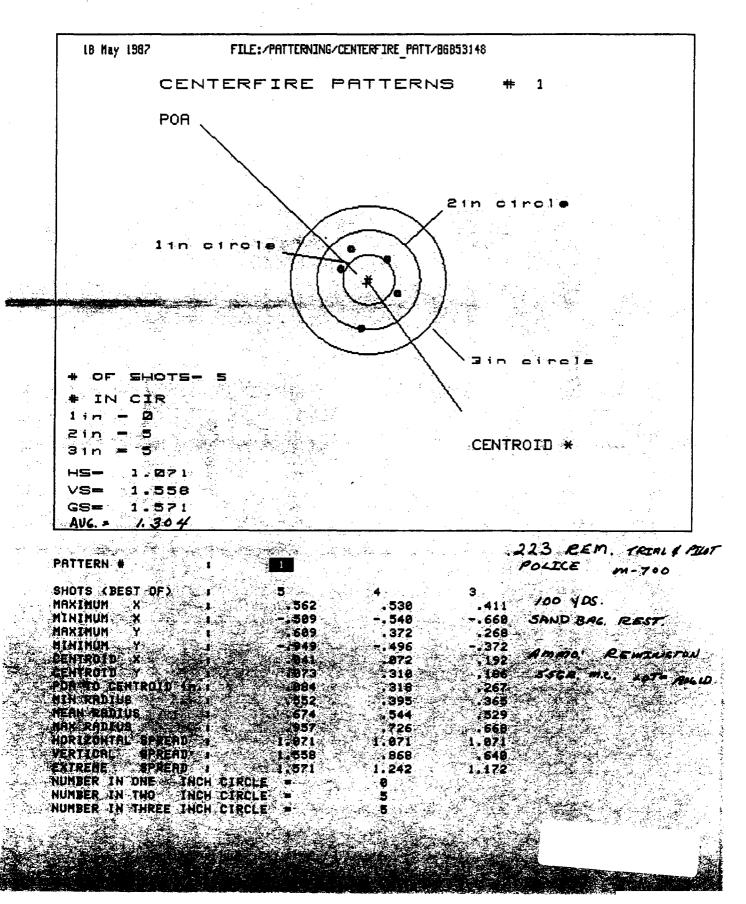
a. R223R1 - 55 grain pointed soft point. b. R223R3 - 55 grain metal case.



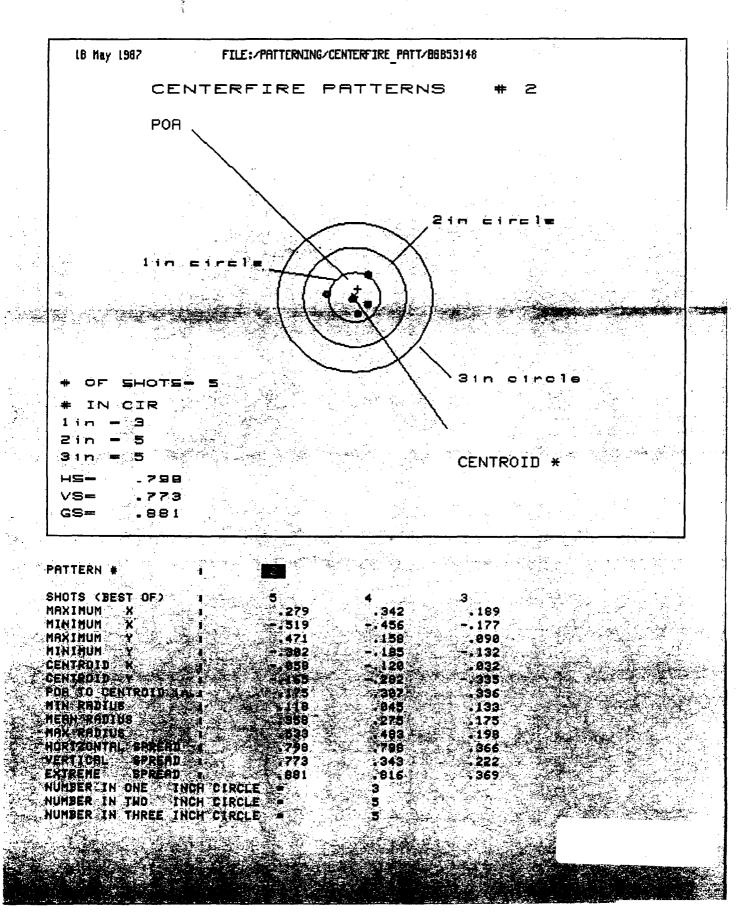
CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER KINZER V. REMINGTON

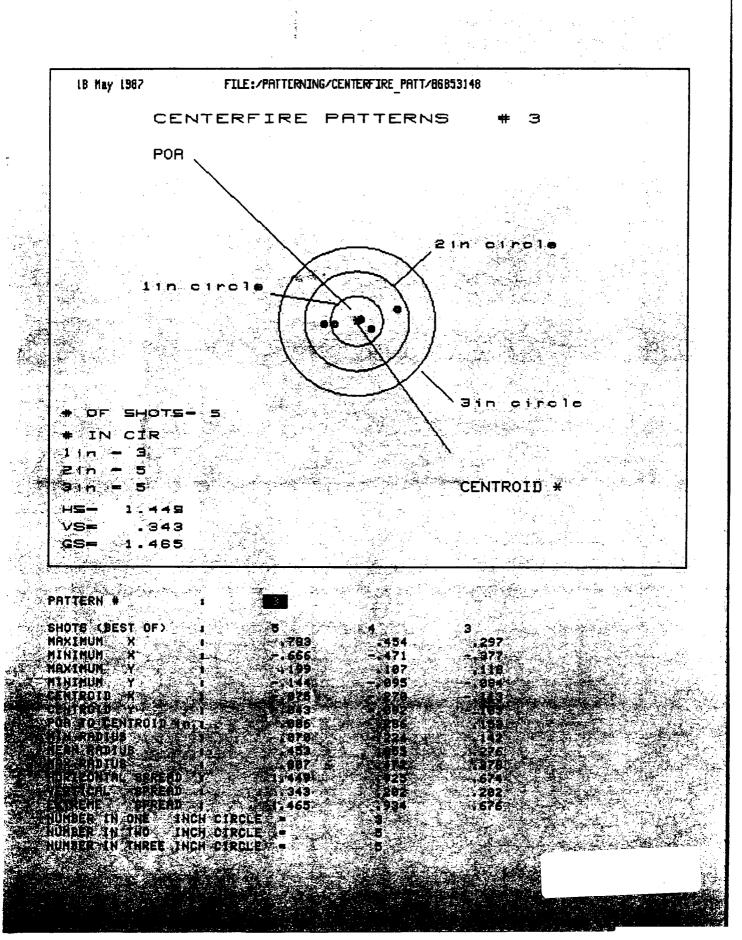


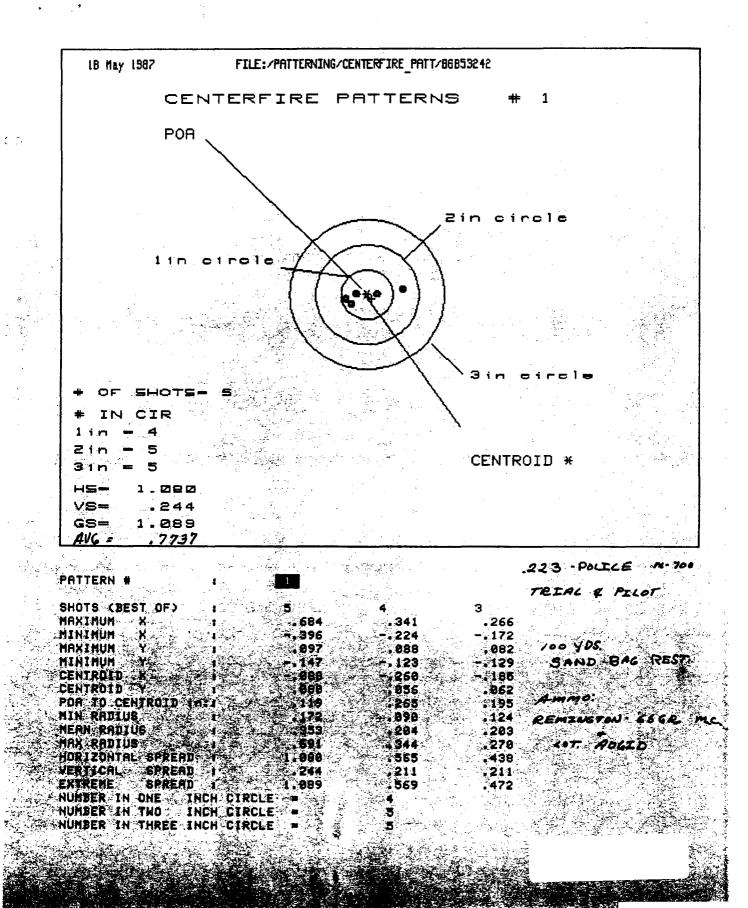


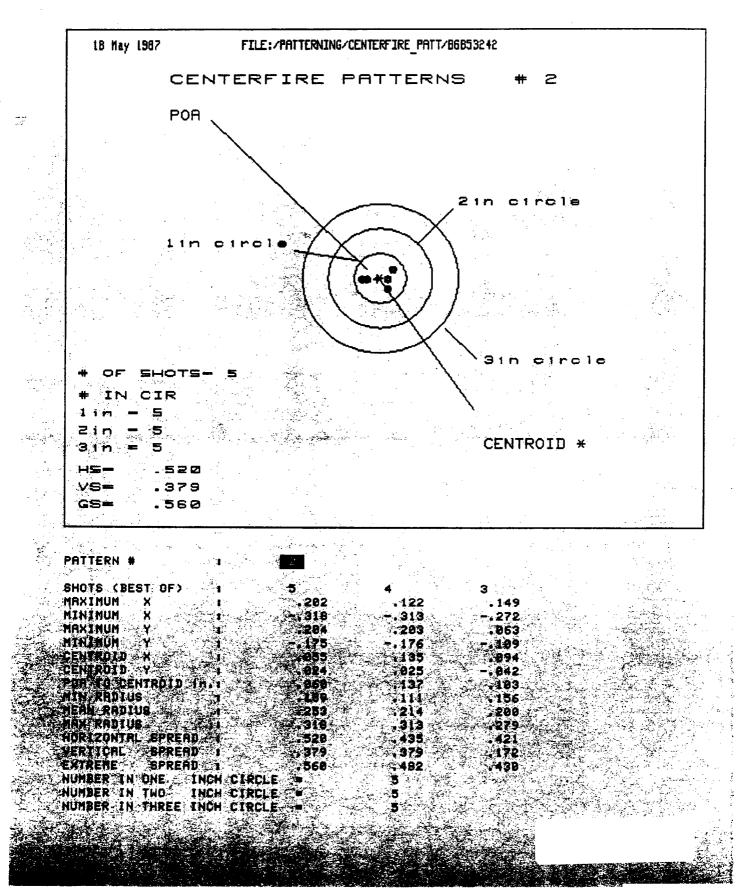


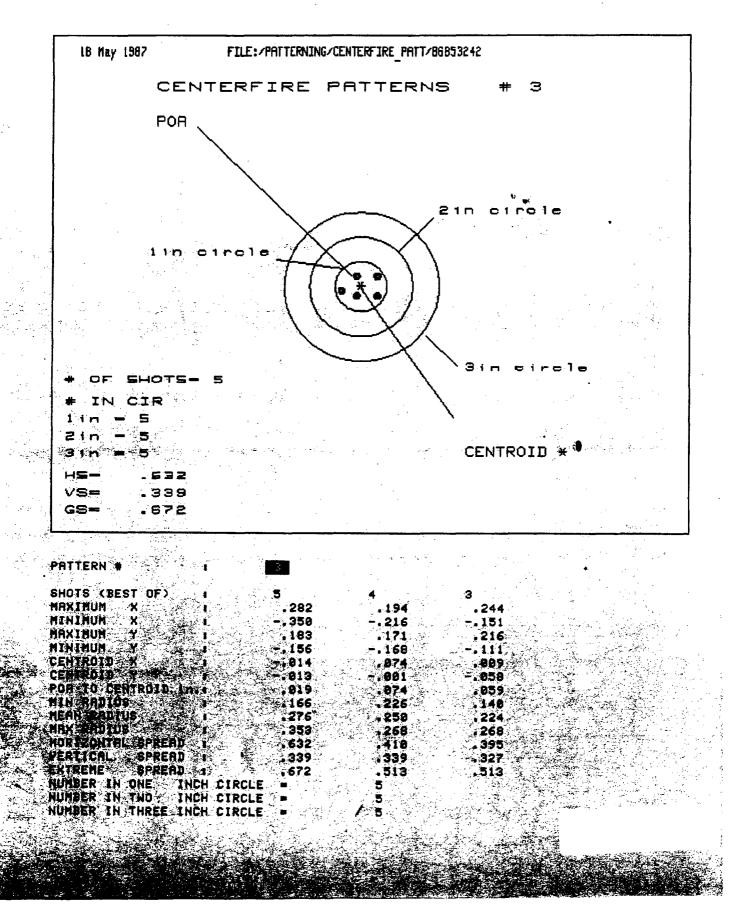
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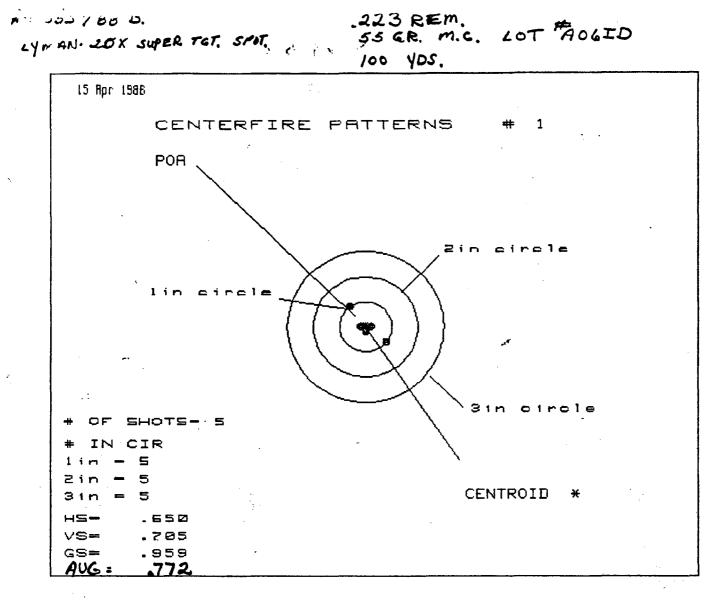








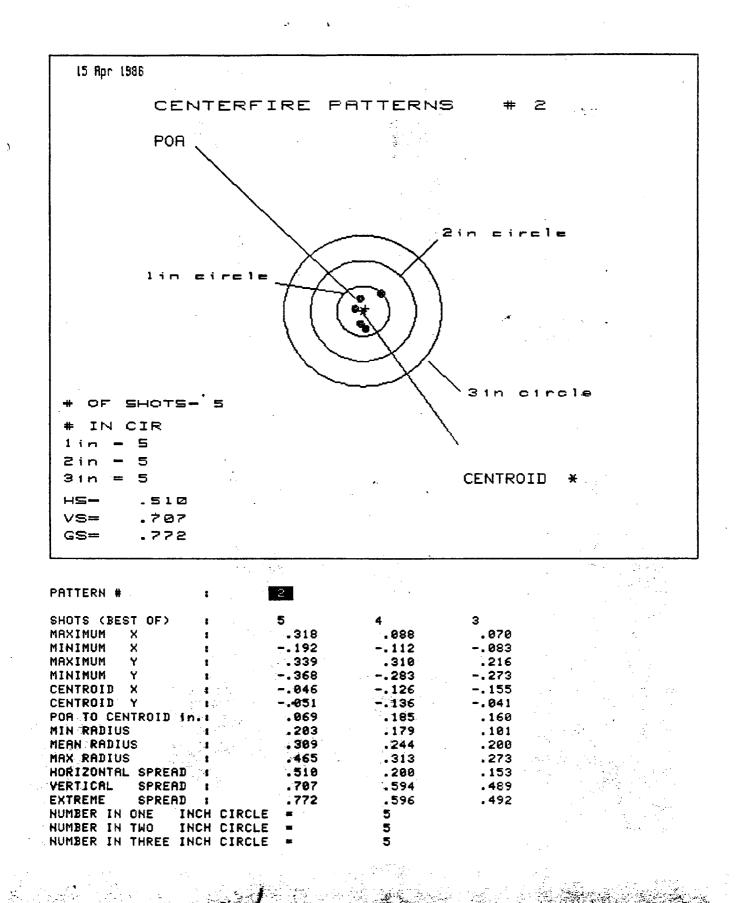


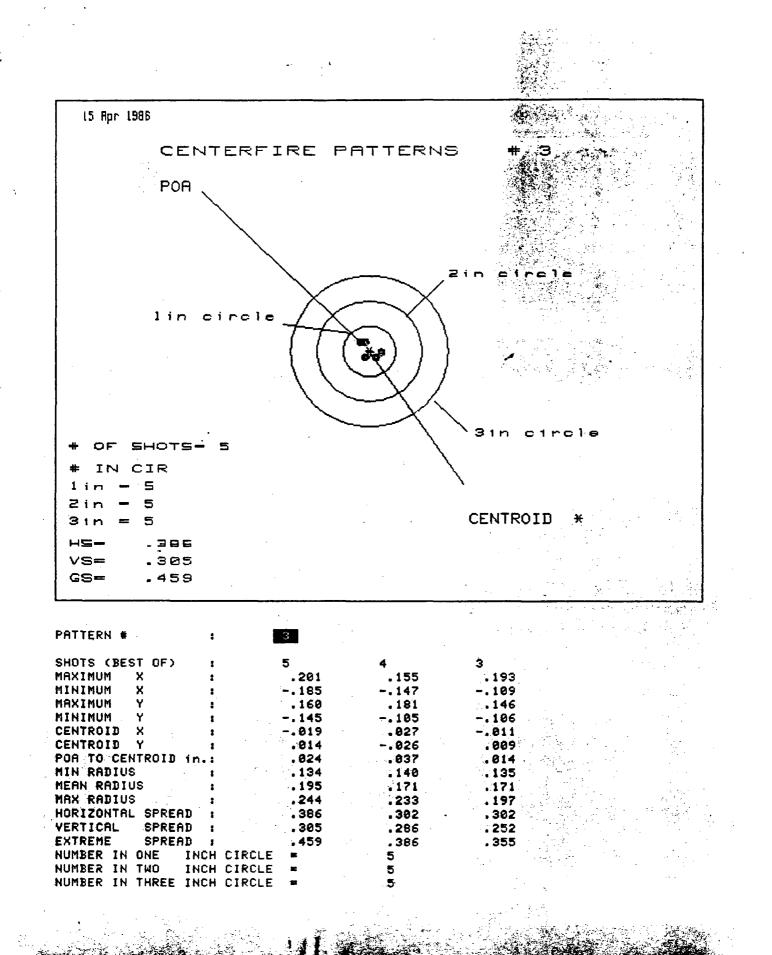


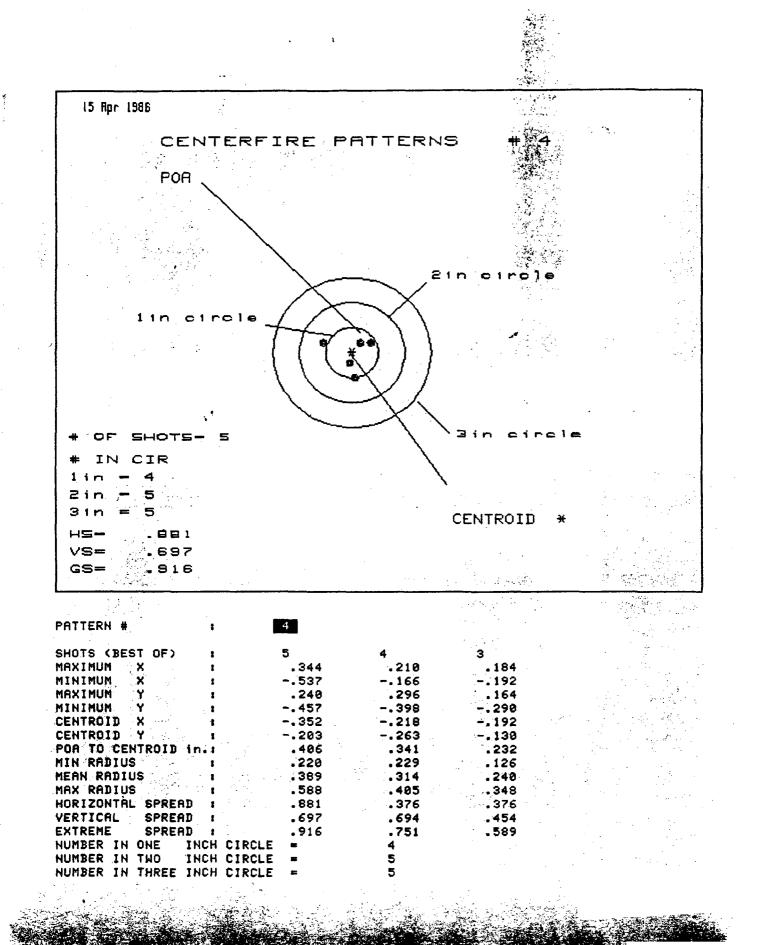
PATTERN #	
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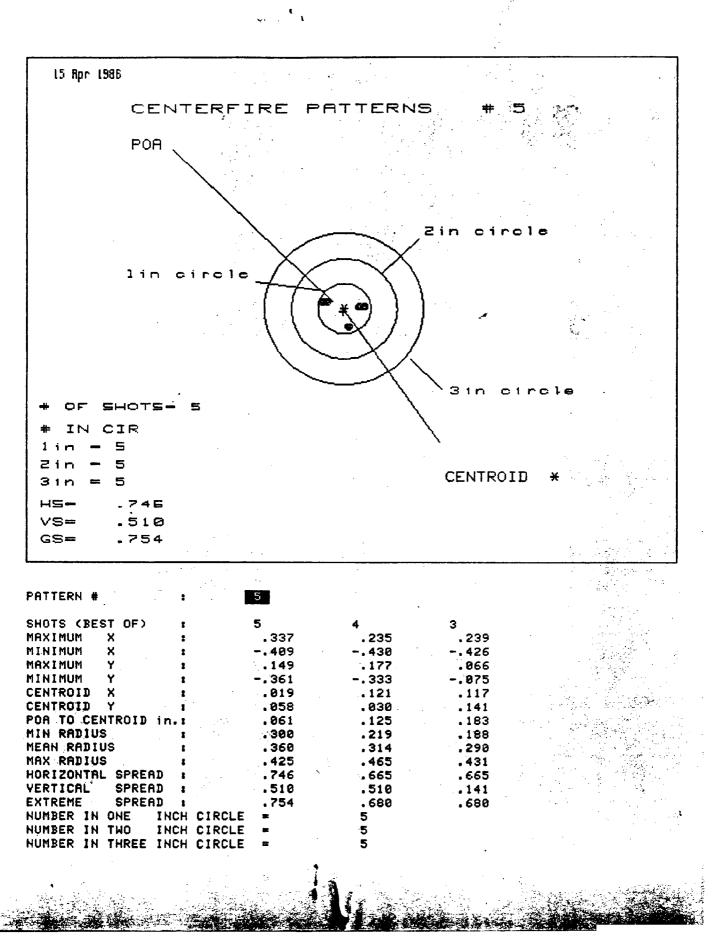
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SHOTS (BEST OF)	i	5	4	3		. · · ·
MAXIMUM X	:	.366	. 294	.124		
MINIMUM X	:	284	217	119		
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MINIMUM Y	:	304	204	067		,
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CENTROID Y	1	008	108	841		
POA TO CENTROID I	n. :	.009	.132	. 847		
MIN RADIUS	1	.098	.090	.067		
MEAN RADIUS	1	.263	. 199	.107		
MAX RADIUS	1	.492	.358	.129		•
HORIZONTAL SPREAD		.650	.512	.243		
VERTICAL SPREAD		.705	. 320	.116		
EXTREME SPREAD	:	.959	. 684	.245	· · · · · ·	
NUMBER IN ONE I	NCH CIRCLI	E =	5			
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NUMBER IN THREE I	NCH CIRCLI	E =	5			the second s
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Report No. 871383

RESEARCH TEST & MEASUREMENT LAB WORK REQUEST

	AREA OF TESTING			
Developmental		Safety Related	Litigation	
Design Acceptance		Competitive Evalua	ation Warehouse Audit	
Pre-Pilot		New Design	Cost Reduction	
Piloz		Design Change	Stake	-
Production Acceptance		Plant Assistance	Other	
FIREARM STAT'S. MODEL: <u>Police Swiper</u> CAL or GAGE: BARREL TYPE: PROOFED: YES V NO	REPOR FORMAL TEST RESULTS ONLY	<u>T REO'D.</u>	DATE REQUESTED: 5/18/87 DATE NEEDED BY: REQUESTED BY: 6J HILL WORK ORDER NO: 82034-905	-
	TEST	TYPE		
Strength Test Ammuniti Function Test Environme Accuracy Test Customer	on Test	Dry Cycle Te Measurement Endurance Te	ts Other	
EXPLAIN IN DETAIL THE REASON FOR T	HIS TEST:			
Trial and Pil - Ren		Accuracy &		
		М 700 "Росіс 223 REM	CE" Boll Action Rifles	•
- GUNS REQUIRED:				

NOTE: NO firearms or parts will be tested in the Labs unless they are accompanied by a Work Request, and both are delivered to the Labs by the designer or engineer. All Work Requests are . to be filled out in detail. No Exceptions.

DATE COMPLETED:	5/18/87
TEST COMPLETED BY:	JES
REPORT DATE:	5/28/87

R 223R3 - 557. MG R223R1 - 5591 PSP

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REMINGTON ARMS COMPANY, INC.

INTER-DEPARTMENTAL CORRESPONDENCE

Remington.

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xc: W.H. Coleman, II/File K.W. Soucy G.J. Hill T.C. Douglas J.R. Snedeker J.F. Matousek, Jr. F.L. Supry File

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RESEARCH TEST AND MEASUREMENT REPORT

REPORT# 871531 JUNE 10, 1987

MODEL 700 RS TRIAL AND PILOT EVALUATION

270 WIN CALIBER

- - -

MODEL 700 - 270 WIN CALIBER - TRIAL AND PILOT EVALUATION

ABSTRACT:

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Research and Development finds the Trial and Pilot Evaluation of the Model 700, 270 win caliber rifles to be acceptable. The Trial and Pilot Evaluation consisted of Visual Inspection, Accuracy, and Function. The eight rifle sample was found to be within Remington specifications for each phase of the Trial and Pilot Evaluation.

> Prepared by: Date prepared:

F.L. Supry 10 June 1987

proofread and cleared by:

J.R. Snedeker, Research Supervisor Test, Measurement & Mech. Analysis Lab

W.H. Coleman, II New Products Research Lab Director

Jun

WORK ORDER# 82034-905

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REPORT# 871531

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To: J.R. Snedeker

From: F.L. Supry

MODEL 700 RS - 270 WIN CALIBER - TRIAL AND PILOT EVALUATION

INTRODUCTION:

On June 02, 1987 a request was received to conduct a Visual Inspection, Accuracy, and Function Evaluation of the Model 700 RS, 270 Win caliber, Trial and Pilot rifles. Eight rifles, four Camo and four Grey, were randomly selected from production.

SCOPE OF TEST:

To determine if the production run samples meet the Remington Specifications set by the Research Design Section.

TEST RESULTS:

The eight rifle Trial and Pilot Evaluation was found to be acceptable. The following results were obtained:

A. VISUAL INSPECTION:

a. The overall appearance of the rifles was acceptable.b. The pattern design of the Camo stocks was well liked.

B. ACCURACY: (Average group size)

a. 270 Win = 1.91 inches.

C. FUNCTION:

a. Three rifles fired 225 rounds each, with no malfunctions.b. One rifle had one stem high malfunction.c. The overall malfunction rate was 0.11%.

REPORT# 871531

TEST REPORT

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- 1. VISUAL INSPECTION:
 - A. The visual inspection committee made the following general comments:
 - a. They liked the pattern in the Camo stocks.

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- b. Several of the stocks showed a rough area at the top of the grip. More care is needed in transit.
- B. Data sheets containing the comments on each rifle inspected is included in the appendix of this report.

2. ACCURACY:

A. The Remington Specification for group size is as follows:

a. 270 Win caliber: 3.5 inches, center to center.

B. Four rifles tested for 100 yard accuracy and the following results were obtained.

	•		GROUP		AVG
		1	2	3	
Rifle# B6	865078 -	1.435	1.648	2.199	1.761
Rifle# B6	864276 -	1.668	2.420	1.584	1.891
Rifle# B6	862889 -	1.951	1.838	2.422	2.070
Rifle# B6	865545 -	2.169	1.856	1.750	1.925

OVERALL GROUP SIZE AVERAGE = 1.91 INCHES

3. FUNCTION:

A. Four of the rifles were subjected to a 225 round per rifle, field function test and the following results were obtained:

a. One stem chamber malfunction occurred.

WORK ORDER# 82034-905

REPORT# 871382

TEST PROCEDURE:

1. VISUAL:

- A. The visual inspection committee consisted of J. Piseck, G. Barnes (P.E. & C.); C. Stephens, and F. Supry (R. & D.).
- B. Six rifles, three Camo and three Grey, were used in the visual inspection. The rifles were as follows:
 - a. Camo: B6865679 B6864928 B6864900

- b. Grey: B6866020 B6865078 B6862889
- C. Each rifle was wiped down with a clean white Coyne towel, and examined by each member of the visual inspection committee. All comments were recorded, an are included in the appendix of this report.

2. ACCURACY:

A. The following rifles were used in the 100 yard accuracy test:

B6865078 B6864276 B6862889 B6865545

- B. The accuracy was shot by C.J. Stephens, at the R&D 100 yard range located in building 52-1.
- C. Leupold base and rings were used in conjunction with a Redfield 12X (4-plex) scope.
- D. Remington ammunition; index R270W4, 150 grain soft point, code E23F B6007 was used for the 100 yard accuracy test.
- E. Before shooting the accuracy test, the bores on each rifle were brushed with Hoppe's No. 9 solvent and patched dry.
- F. A total of three, five shot groups were shot with each rifle. The rifles were cooled between each group, and one "warmer" shot was fired before the next group was shot.
- G. The targets were analyzed for group size and the averages calculated, using the HP 9000 computer and digitizing tablet.

REPORT# 871382

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TEST PROCEDURE: (continued)

- 3. FIELD FUNCTION:
 - A. Four rifles were used in the function test. The rifles were as follows:

B6865078 B6864276 B6862889 B6865545

- B. Each of the rifles was subjected to the loading and firing of 225 rounds of Remington and competitive ammunition, in a Field Function test conducted at the Ilion Fish and Game Club. Fifteen rounds were fired; 5 at a slow feeding cycle speed, 5 at a medium feeding cycle speed, and 5 at a fast feeding cycle speed. The rifles were allowed to cool, and then the procedure was repeated with each remaining ammunition type.
- C. The following ammunition was used in the function test:

R270W1	270A	X2701	16902
R270W2	270B	X2703	16903
R270W3	270C	X2704	IVI 270
R270W4	270E	X2705	

APPENDIX

WORK ORDER# 82034-905

REPORT# 871382

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VISUAL INSPECTION SUMMARY

CAMO STOCKS:

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SERIAL NUMBER -	. COMMENTS .
B6865679	SLIGHT OPENING BETWEEN FLOOR PLATE AND STOCK
B6864928	SCUFF MARK AT BARREL BRACKET BULGE SCUFF MARK AT THE FORE-END TIP SCUFF MARK AT THE GRIP CAP MISMATCH AT THE TOE
B6864900	SLIGHT DISCOLOR AT THE BUTT PAD MAR AT THE TOP OF THE RECEIVER (BEFORE BLASTING

GREY STOCKS:

B6866020 SLIGHT OPENING BETWEEN FLOOR PLATE AND STOCK MAR ON THE TANG SCUFF MARK ON THE TOP OF THE GRIP AREA GAP AT THE TOE OF THE BUTT PLATE

- B6865078 OPENING AT THE REAR OF THE TRIGGER GUARD SCUFF MARK ON THE TOP OF THE GRIP AREA
- B6862889 ROUGH CHEEK PIECE MINIMUM OVER-TRAVEL ON THE SAFETY MAR BY THE GRIP CAP

GENERAL COMMENTS"

THE COMMITTEE LIKED THE PATTERN DESIGN OF THE CAMO STOCKS.

MORE CARE NEEDS TO BE TAKEN, IN TRANSIT, TO KEEP FROM MARRING THE TOP OF THE GRIP AREA.

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REMINGTON ARMS COMPANY, INC.

INTER-DEPARTMENTAL CORRESPONDENCE

Remington.

PETERS

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xc: W.H. Coleman, II/File K.W. Soucy D.J. Anderson G.J. Hill T.C. Douglas J.R. Snedeker J.F. Matousek, Jr. F.L. Supry File

RESEARCH TEST AND MEASUREMENT REPORT

REPORT# 872151 AUGUST 06, 1987

MODEL XP-100 35 REM CALIBER TRIAL AND PILOT EVALUATION

MODEL XP-100 35 REM CALIBER TRIAL AND PILOT EVALUATION

ABSTRACT:

Research and Development finds the Trial and Pilot Evaluation of the Model XP-100 35 REM caliber to be acceptable.

The pistols tested were randomly selected, after being put in the warehouse. The pistols were examined, as received, by Research Technicians, and then subjected to the 100 yard (off hand bench rest) accuracy test. The barrels with the maximum and minimum extreme spread were removed from the stocks and shot one five shot group each, using the Gallery accuracy device.

Prepared by: F.L. Supry Date Prepared: 08/06/87

proofread and cleared by:

J.R. SNEDEKER, Research Supervisor Test, Measurement & Mech. Analysis Lab

W.H. COLEMAN, II New Products Research Lab Director

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Work Order# 111411-001800

MODEL XP-100 35 REM CALIBER TRIAL AND PILOT EVALUATION

TO: J.R. Snedeker FROM: F.L. Supry

INTRODUCTION:

In July 1987, a request to conduct a Trial and Pilot Evaluation of the Model XP-100 35 REM caliber pistol was received by the Test Lab. The evaluation would use four pistols, withdrawn from the warehouse, and consist of Visual Inspection and 100 yard accuracy.

SCOPE OF THE TEST:

To determine if the production run sample would meet the Remington Specifications set by the Research Design Section.

TEST RESULTS:

The Model XP-100, chambered in the 35 REM caliber, was found to be acceptable in all phases of the Trial and Pilot Evaluation.

Work Order# 111411-001800

Report# 872151

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MODEL XP-100 35 REM CALIBER TRIAL AND PILOT EVALUATION

REPORT TEXT:

1. VISUAL INSPECTION:

A. There were no major items in the appearance of the pistols.

B. The pistols used in the Visual Inspection were:

B7520239 B7520092 B7520550 B7520284

C. Comments on each pistol are located in the appendix.

2. ACCURACY:

The Remington standard for the XP-100, chambered in the 35 REM caliber is an extreme group size of: 3.5 inches for a 5 shot group.

A. The pistols used in the accuracy test were:

B7520239 B7520092 B7520550 B7520284

B. The following averages were established:

a. Group Size:	BENCH REST 2.82 inches	ACCURACY DEVICE 2.49 inches
b. Horizontal Spread:	2.24 inches	2.16 inches
c. Vertical Spread:	1.73 inches	2.15 inches

C. Accuracy results per individual pistol are located in the appendix of this report.

MODEL XP-100 35 REM CALIBER TRIAL AND FILOT EVALUATION

TEST PROCEDURE:

1. VISUAL INSPECTION:

- A. The visual inspection was done by F.L. Supry and C.J. Stephens.
- B. All 4 of the pistols were examined.
- C. Each pistol was wiped down with a clean white Coyne towel, and examined. All comments were recorded.

2. ACCURACY:

- A. The off hand (bench rest) accuracy was shot by C.J. Stephens, at the R&D 100 yard range.
- B. Weaver bases and rings were used, in conjunction with a Redfield 12X scope.
- C. Remington ammunition, index R35R1, code E27 C6005L, 150 grain pointed soft point, was used for the 100 yard accuracy test.
- D. Before shooting the 100 yard accuracy test, the bores on each pistol were brushed with Hoppe's No. 9 solvent and patched dry.
- E. A total of three, five shot groups, were shot with each pistol. The pistols were cooled between each group, and one "warmer" shot was fired before the next group was shot.
- F. The accuracy device accuracy was shot by R. Sterling, at the Gallery 100 yard range.
- G. The stocks were removed from two of the pistols, and one five shot group was shot with each pistol.
- H. The patterns were analyzed for group size, horizontal spread, and vertical spread, using the HP 9000 computer and digitizing tablet.

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MODEL XP-100 35 REM CALIBER TRIAL AND PILOT EVALUATION

APPENDIX

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Work Order# 111411-001800

MODEL XP-100 35 REM CALIBER TRIAL AND PILOT EVALUATION

VISUAL INSPECTION:

GENERAL COMMENTS:

The appearance of the Model XP-100 35 REM caliber sample was very good.

COMMENTS PER INDIVIDUAL PISTOL:

- B7520239 Glue marks: left side of the stock by fore-end tip. right side of stock by diamond.
- B7520092 Scratch on left panel, above the trigger guard. Scratch on right panel, in front of the diamond.
- B7520284 Bottom of pistol grip rough, at the seam. Light proof stamp.

B7520550 Small pits on the right panel of the stock.

Work Order# 111411-001800

Report# 872151

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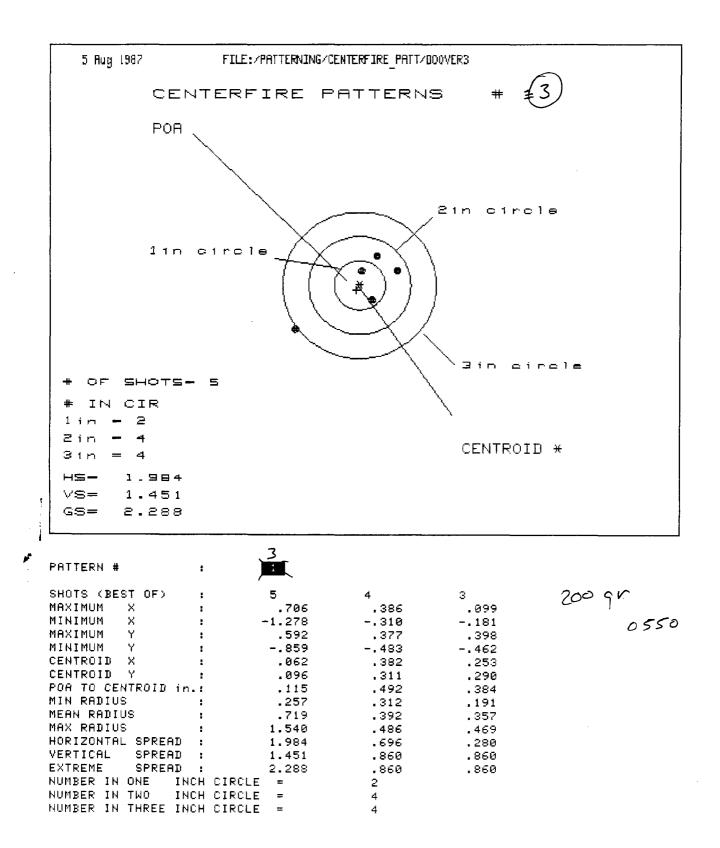
MODEL XP-100 35 REM CALIBER TRIAL AND PILOT EVALUATION

ACCURACY RESULTS - EXTREME SPREAD

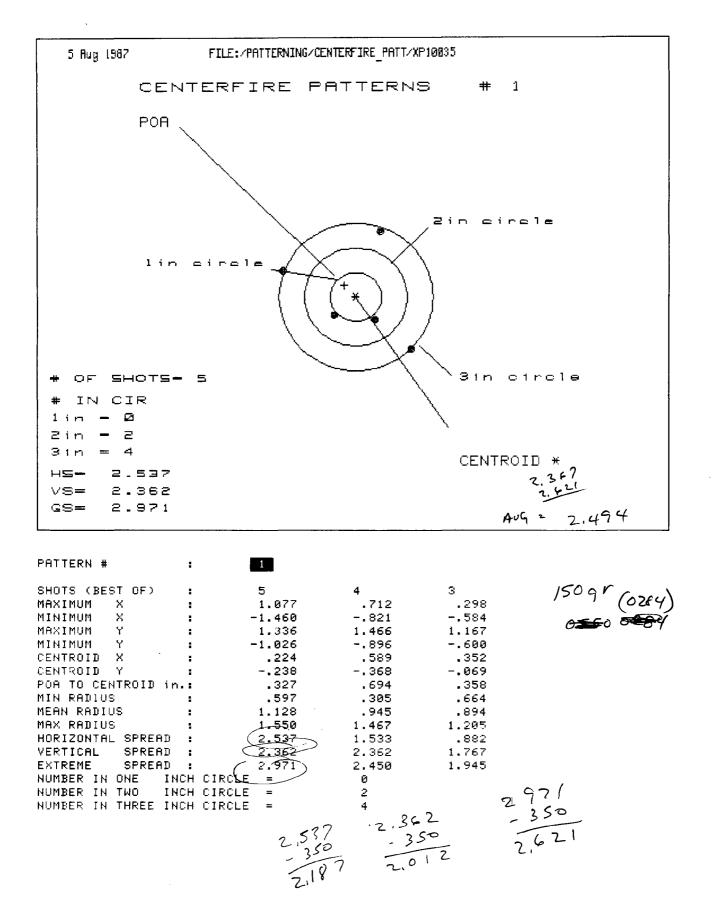
SERIAL NUMBER	<u>GROUP#</u>	BENCH REST (inches)	ACCURACY DEVICE (inches)
в7520092	1	3.07	NA
	2	2.70	NA
	3	2.81	NA
B7520284	1	3.00	2.49
	2	2.98	NA
	3	2.74	NA
B7520239	1	2.52	NA
	2	2.20	NA
	3	4.09	NA
в7520550	1	2.27	2.37
	2	2.05	NA
	3	3.36	NA

NOTE:

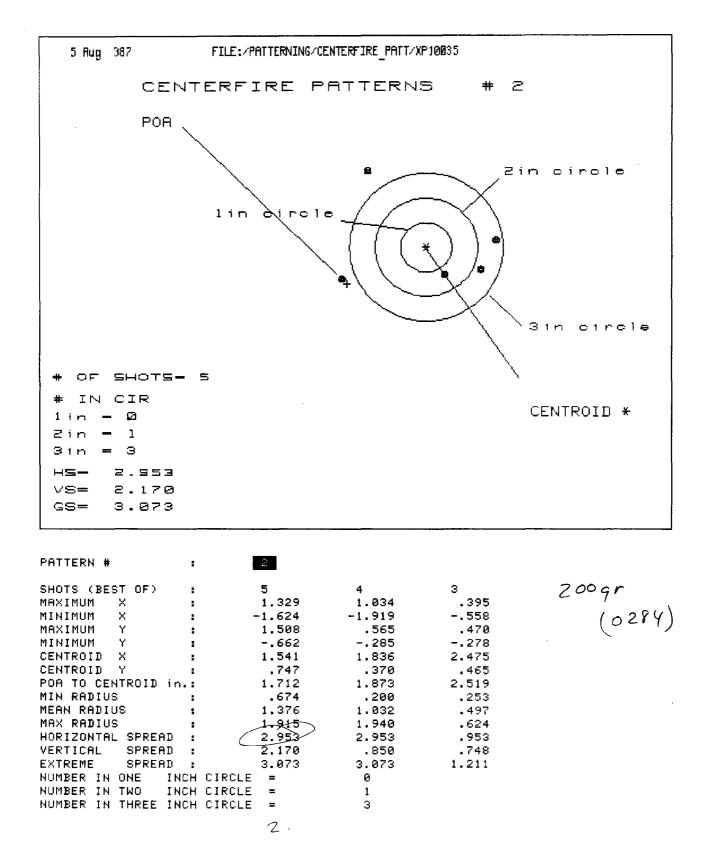
THE ACCURACY DEVICE WAS USED TO VERIFY THE BARRELS WITH THE MINIMUM AND MAXIMUM EXTREME SPREAD, FROM THE OFF HAND BENCH REST SHOOTING.



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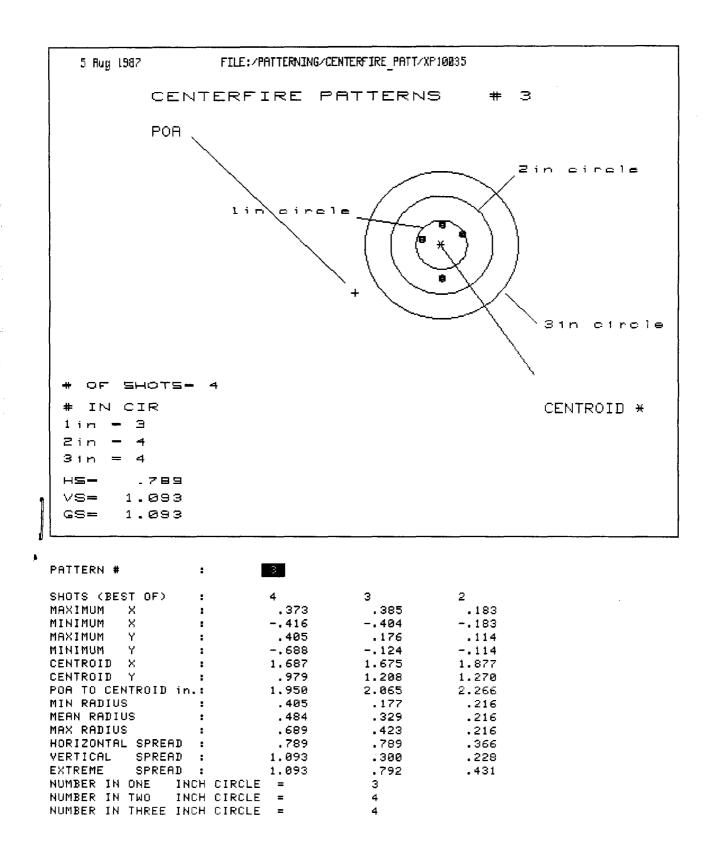
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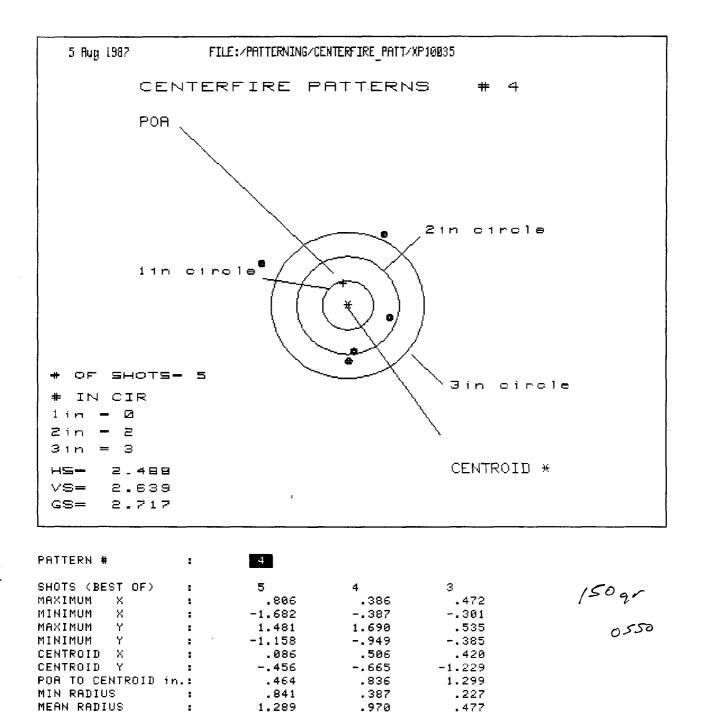
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CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER KINZER V. REMINGTON



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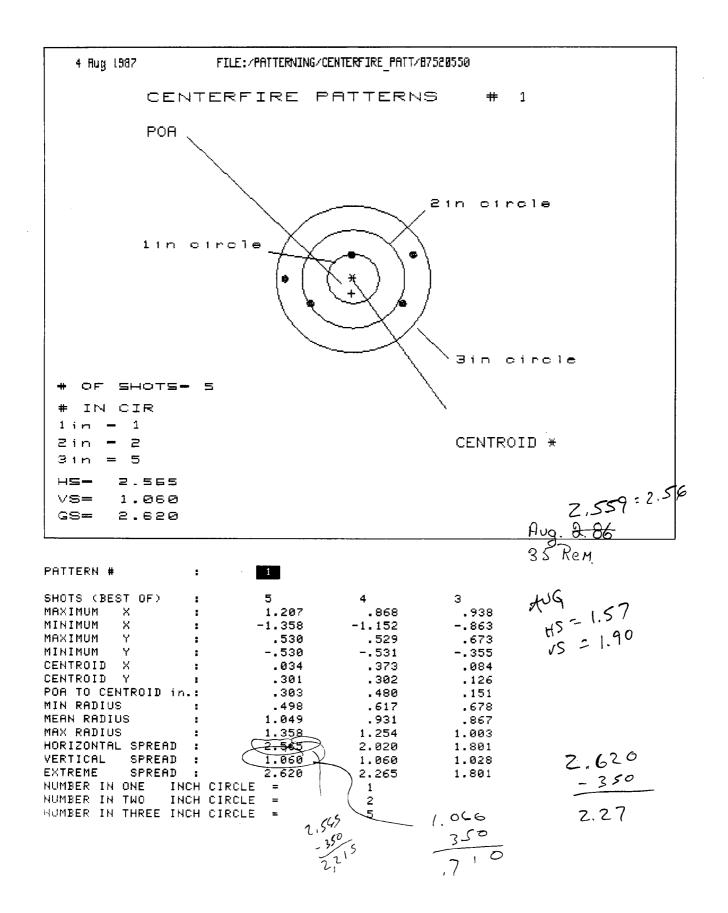
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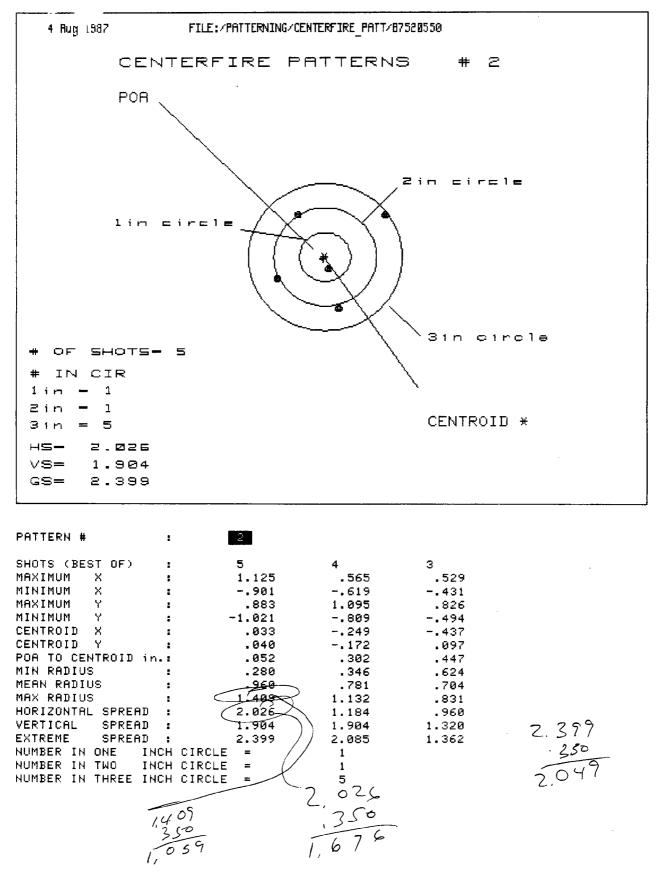
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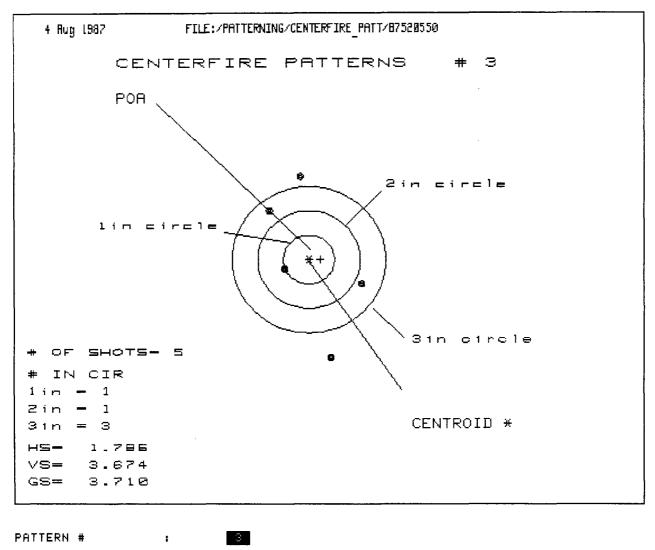
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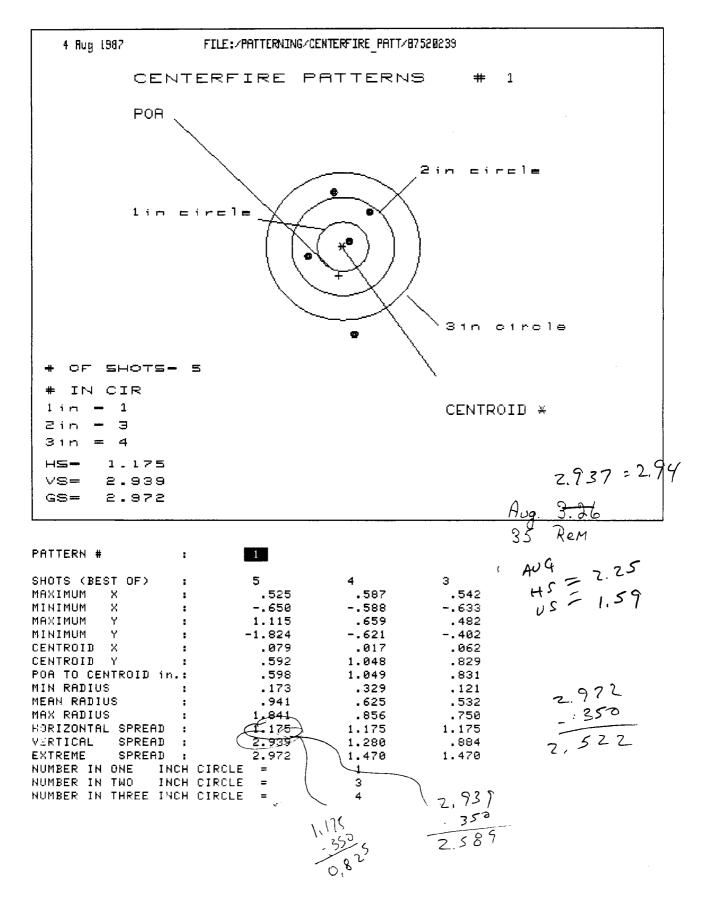


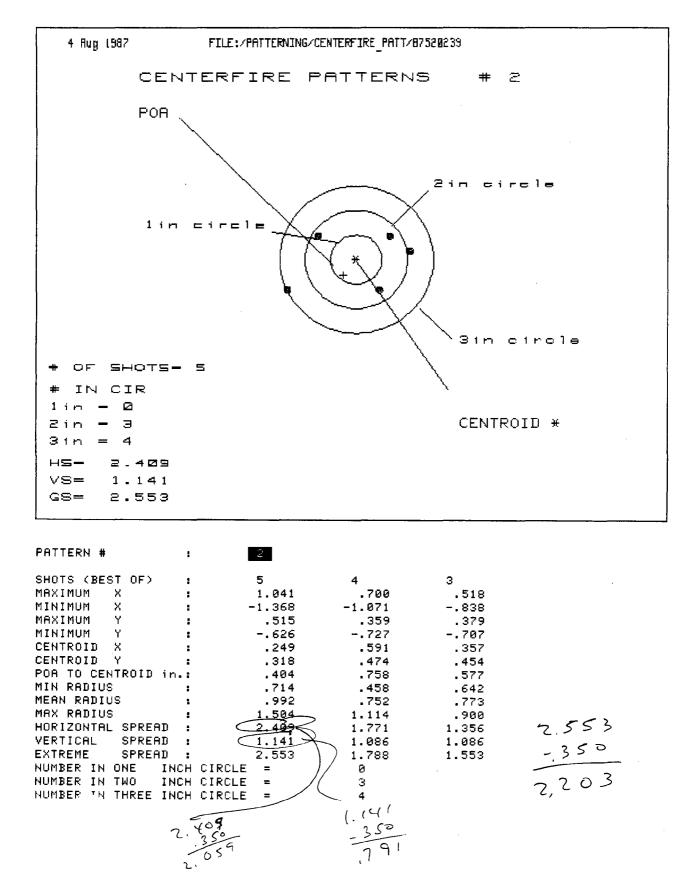


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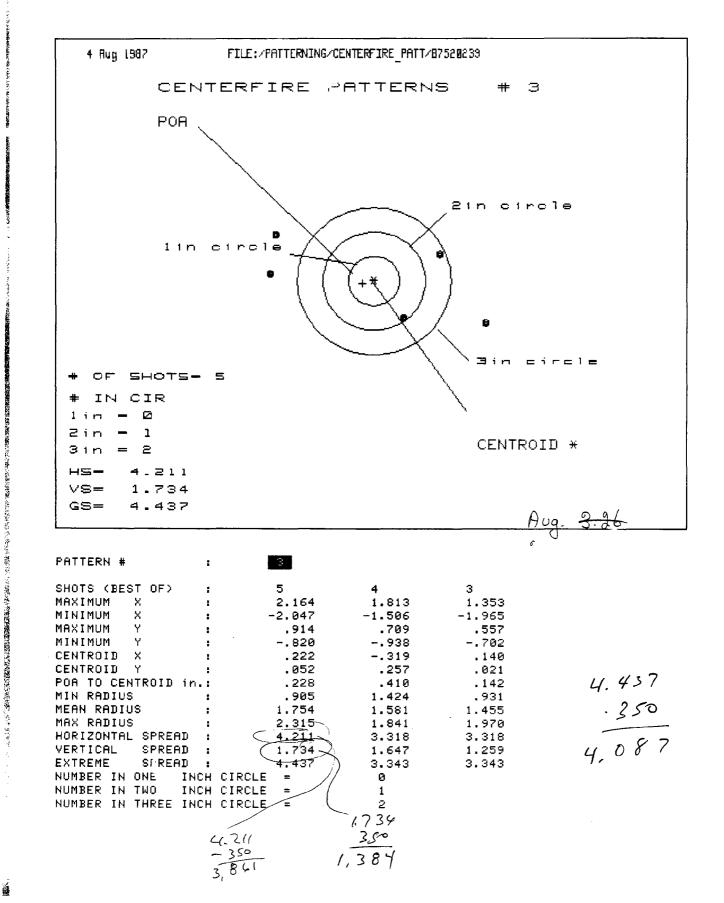
CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER KINZER V. REMINGTON





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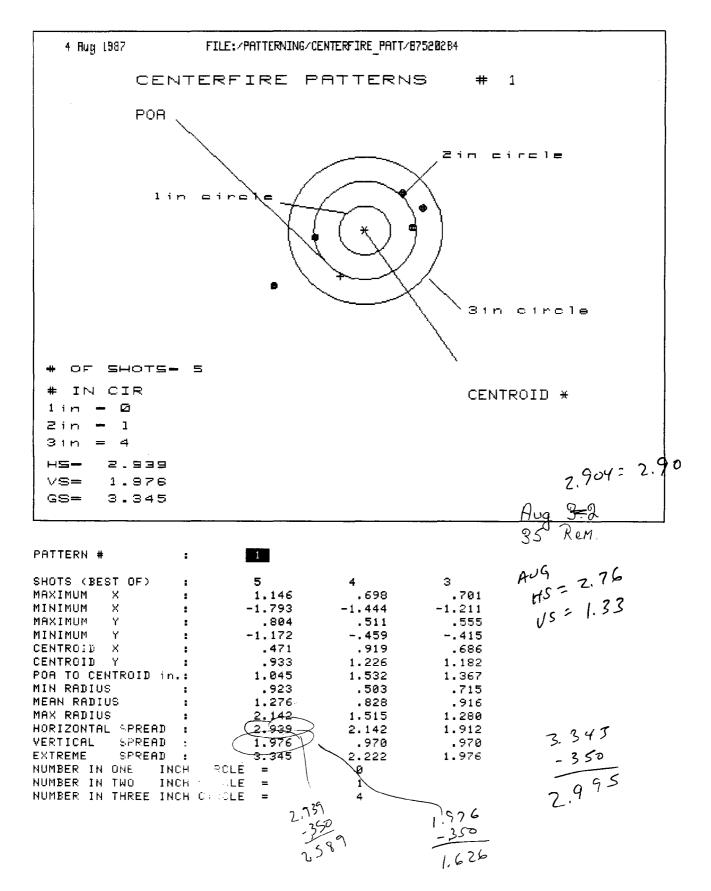
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CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER **KINZER V. REMINGTON**

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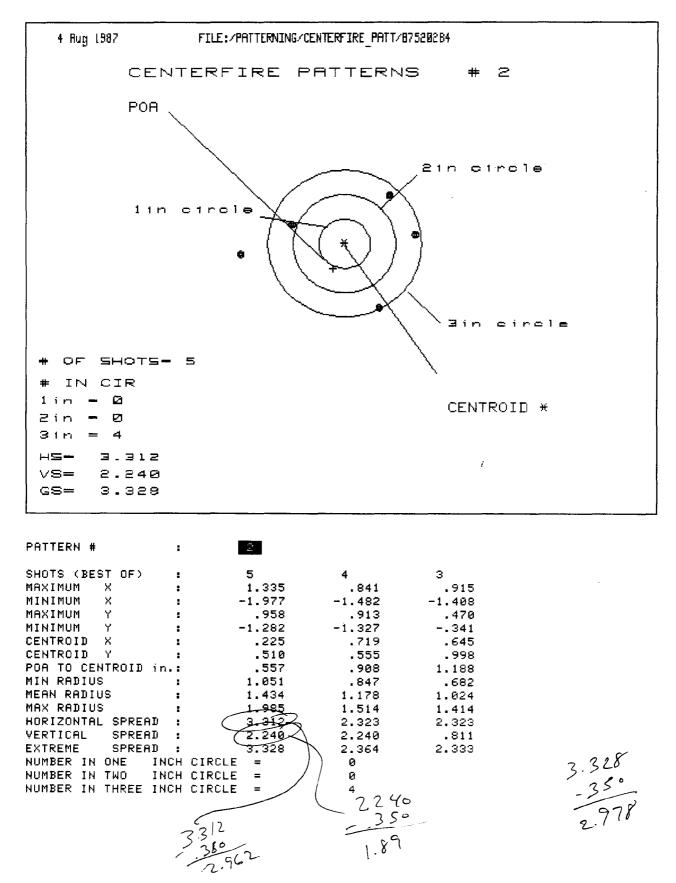
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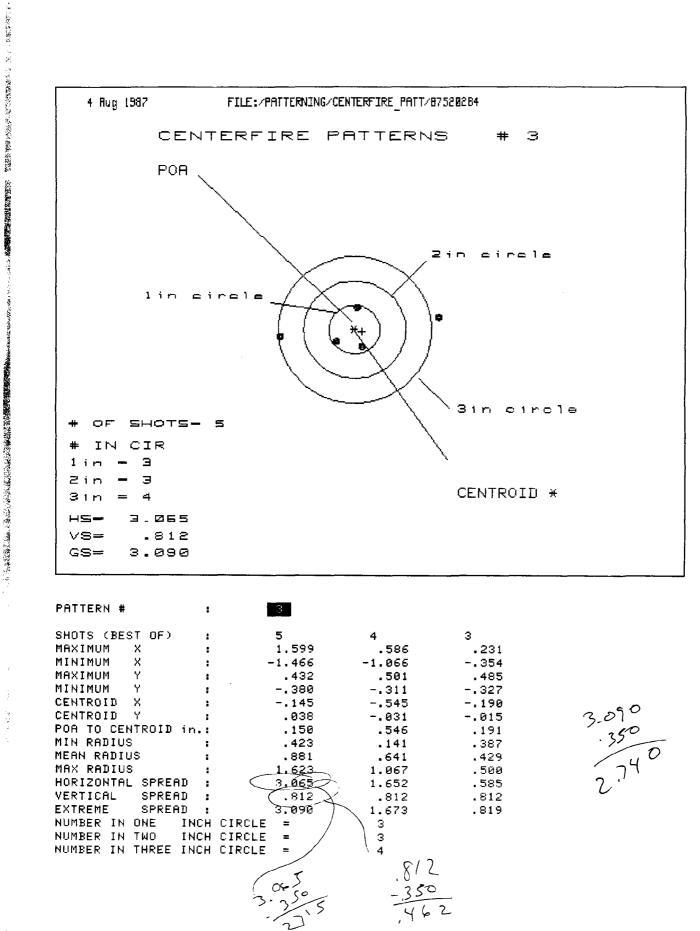


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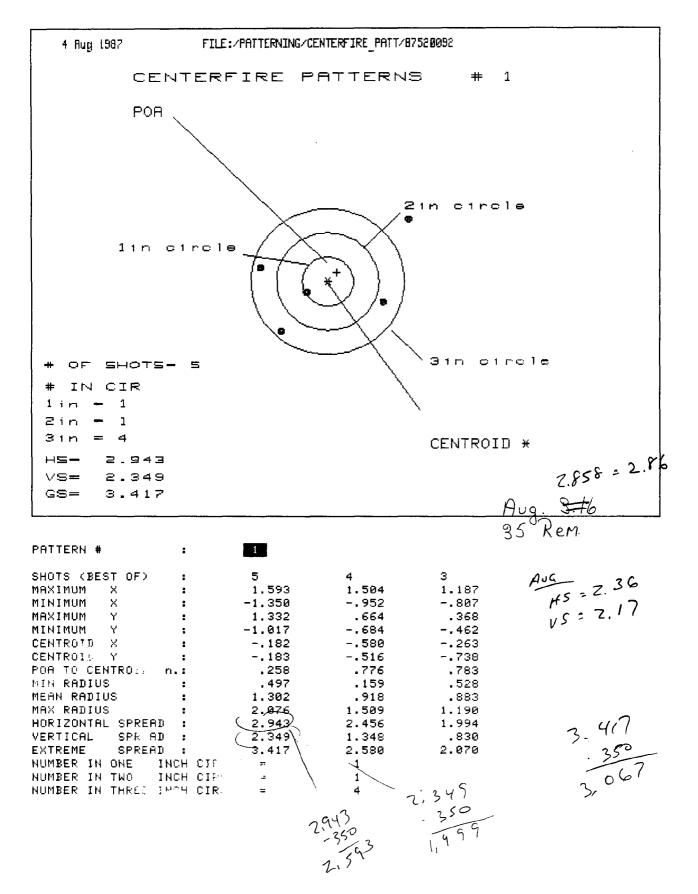
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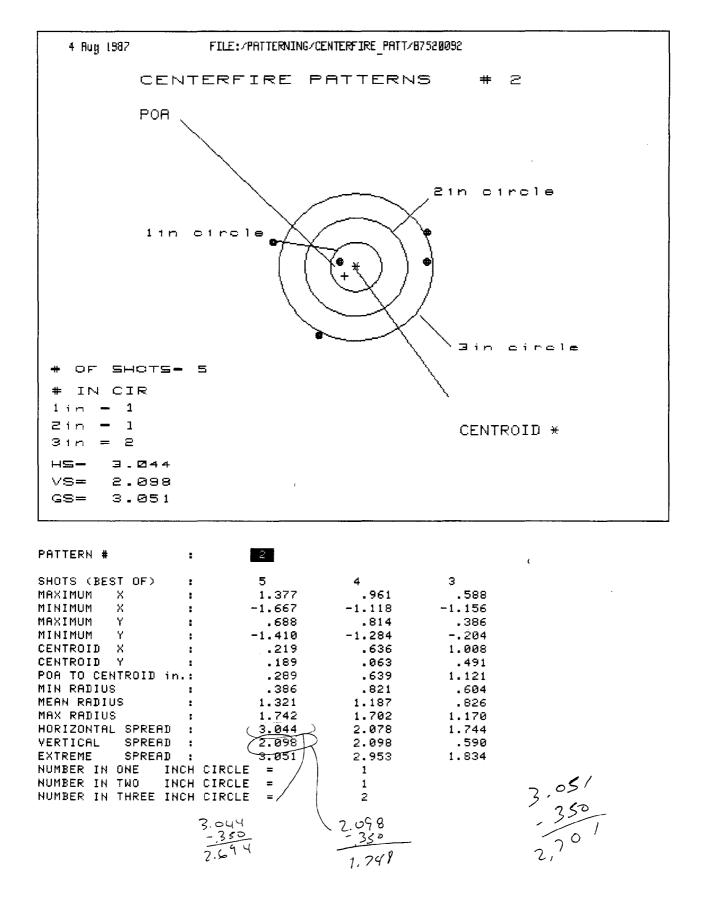


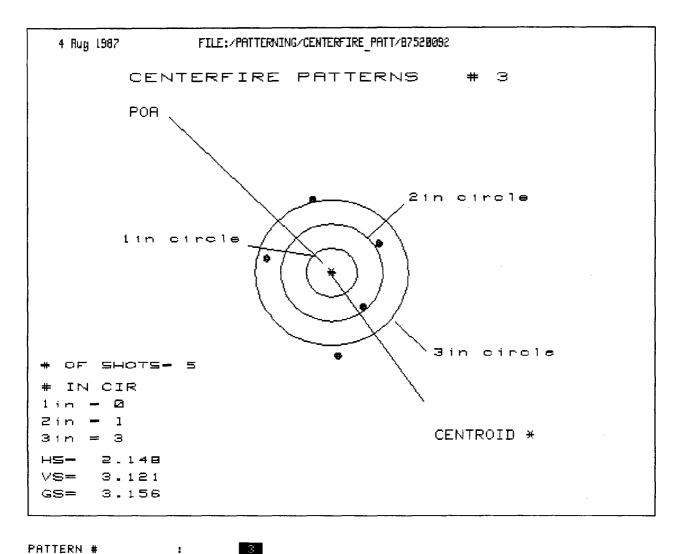
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CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER KINZER V. REMINGTON

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PATTERN

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CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER KINZER V. REMINGTON

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RD-49-8

REMINGTON ARMS COMPANY, INC.

INTER-DEPARTMENTAL CORRESPONDENCE

Remington.

PETERS

"CONFINE YOUR LETTER TO ONE SUBJECT ONLY"_____

xc: W.H. Coleman, II/File K.W. Soucy D.J. Anderson G.J. Hill T.C. Douglas J.R. Snedeker J.F. Matousek, Jr. F.L. Supry File

RESEARCH TEST AND MEASUREMENT REPORT

REPORT# 872151 AUGUST 06, 1987

MODEL XP-100 35 REM CALIBER TRIAL AND PILOT EVALUATION

MODEL XP-100 35 REM CALIBER TRIAL AND PILOT EVALUATION

ABSTRACT:

Research and Development finds the Trial and Pilot Evaluation of the Model XP-100 35 REM caliber to be acceptable.

The pistols tested were randomly selected, after being put in the warehouse. The pistols were examined, as received, by Research Technicians, and then subjected to the 100 yard (off hand bench rest) accuracy test. The barrels with the maximum and minimum extreme spread were removed from the stocks and shot one five shot group each, using the Gallery accuracy device.

Prepared by: <u>F.L. Supry</u> Date Prepared: <u>08/06/87</u>

proofread and cleared by:

J.R. SNEDEKER, Research Supervisor Test, Measurement & Mech. Analysis Lab

W.H. COLEMAN, II New Products Research Lab Director

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MODEL XP-100 35 REM CALIBER TRIAL AND PILOT EVALUATION

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TO: J.R. Snedeker FROM: F.L. Supry

INTRODUCTION:

In July 1987, a request to conduct a Trial and Pilot Evaluation of the Model XP-100 35 REM caliber pistol was received by the Test Lab. The evaluation would use four pistols, withdrawn from the warehouse, and consist of Visual Inspection and 100 yard accuracy.

SCOPE OF THE TEST:

To determine if the production run sample would meet the Remington Specifications set by the Research Design Section.

TEST RESULTS:

The Model XP-100, chambered in the 35 REM caliber, was found to be acceptable in all phases of the Trial and Pilot Evaluation.

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Work Order# 111411-001800

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MODEL XP-100 35 REM CALIBER TRIAL AND PILOT EVALUATION

REPORT TEXT:

1. VISUAL INSPECTION:

A. There were no major items in the appearance of the pistols.

B. The pistols used in the Visual Inspection were:

B7520239 B7520092 B7520550 B7520284

C. Comments on each pistol are located in the appendix.

2. ACCURACY:

The Remington standard for the XP-100, chambered in the 35 REM caliber is an extreme group size of: 3.5 inches for a 5 shot group.

A. The pistols used in the accuracy test were:

B7520239 B7520092 B7520550 B7520284

B. The following averages were established:

a. Group Size:	BENCH REST 2.82 inches	ACCURACY DEVICE 2.49 inches
b. Horizontal Spread:	2.24 inches	2.16 inches
c. Vertical Spread:	1.73 inches	2.15 inches

C. Accuracy results per individual pistol are located in the appendix of this report.

Work Order# 111411-001800

Report# 872151

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MODEL XP-100 35 REM CALIBER TRIAL AND PILOT EVALUATION

TEST PROCEDURE:

1. VISUAL INSPECTION:

A. The visual inspection was done by F.L. Supry and C.J. Stephens.

- B. All 4 of the pistols were examined.
- C. Each pistol was wiped down with a clean white Coyne towel, and examined. All comments were recorded.

2. ACCURACY:

- A. The off hand (bench rest) accuracy was shot by C.J. Stephens, at the R&D 100 yard range.
- B. Weaver bases and rings were used, in conjunction with a Redfield 12X scope.
- C. Remington ammunition, index R35R1, code E27 C6005L, 150 grain pointed soft point, was used for the 100 yard accuracy test.
- D. Before shooting the 100 yard accuracy test, the bores on each pistol were brushed with Hoppe's No. 9 solvent and patched dry.
- E. A total of three, five shot groups, were shot with each pistol. The pistols were cooled between each group, and one "warmer" shot was fired before the next group was shot.
- F. The accuracy device accuracy was shot by R. Sterling, at the Gallery 100 yard range.
- G. The stocks were removed from two of the pistols, and one five shot group was shot with each pistol.
- H. The patterns were analyzed for group size, horizontal spread, and vertical spread, using the HP 9000 computer and digitizing tablet.

MODEL XP-100 35 REM CALIBER TRIAL AND PILOT EVALUATION

APPENDIX

A.

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MODEL XP-100 35 REM CALIBER TRIAL AND PILOT EVALUATION

VISUAL INSPECTION:

GENERAL COMMENTS:

The appearance of the Model XP-100 35 REM caliber sample was very good.

COMMENTS PER INDIVIDUAL PISTOL:

B7520239 Glue marks: left side of the stock by fore-end tip. right side of stock by diamond.

B7520092 Scratch on left panel, above the trigger guard. Scratch on right panel, in front of the diamond.

B7520284 Bottom of pistol grip rough, at the seam. Light proof stamp.

B7520550 Small pits on the right panel of the stock.

Work Order# 111411-001800

Report# 872151

MODEL XP-100 35 REM CALIBER TRIAL AND PILOT EVALUATION

ACCURACY RESULTS - EXTREME SPREAD

SERIAL NUMBER	<u>GROUP</u> #	BENCH REST (inches)	ACCURACY DEVICE (inches)
B7520092	1	3.07	NA
	2	2.70	NA
	3	2.81	NA
B7520284	1	3.00	2.49
	2	2.98	NA
	3	2.74	NA
B7520239	1	2.52	NA
	2	2.20	NA
	3	4.09	NA
B7520550	1	2.27	2.37
	2	2.05	NA
	3	3.36	NA

NOTE:

THE ACCURACY DEVICE WAS USED TO VERIFY THE BARRELS WITH THE MINIMUM AND MAXIMUM EXTREME SPREAD, FROM THE OFF HAND BENCH REST SHOOTING.

RD-69-8

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REMINGTON ARMS COMPANY, INC.

INTER-DEPARTMENTAL CORRESPONDENCE

Remington.

PETERS

"CONFINE YOUR LETTER TO ONE SUBJECT ONLY"_____

xc: W.H. Coleman, II/File K.W. Soucy D.J. Anderson G.J. Hill T.C. Douglas J.R. Snedeker J.F. Matousek, Jr. F.L. Supry File

RESEARCH TEST AND MEASUREMENT REPORT

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> Prepared by: <u>F.L. Supry</u> Date Prepared: 08/06/87

proofread and cleared by:

J.R. SNEDEKER, Research Supervisor Test, Measurement & Mech. Analysis Lab

W.H. COLEMAN, II New Products Research Lab Director

Work Order# 111411-001800

MODEL XP-100 35 REM CALIBER TRIAL AND PILOT EVALUATION

TO: J.R. Snedeker FROM: F.L. Supry

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Work Order# 111411-001800

MODEL XP-100 35 REM CALIBER TRIAL AND PILOT EVALUATION

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BENCH REST 2.82 inches	ACCURACY DEVICE
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1.73 inches	2.15 inches
	2.82 inches 2.24 inches

C. Accuracy results per individual pistol are located in the appendix of this report.

MODEL XP-100 35 REM CALIBER TRIAL AND PILOT EVALUATION

TEST PROCEDURE:

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Work Order# 111411-001800

MODEL XP-100 35 REM CALIBER TRIAL AND PILOT EVALUATION

APPENDIX

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Work Order# 111411-001800

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Work Order# 111411-001800

Report# 872151

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MODEL XP-100 35 REM CALIBER TRIAL AND PILOT EVALUATION

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NOTE:

THE ACCURACY DEVICE WAS USED TO VERIFY THE BARRELS WITH THE MINIMUM AND MAXIMUM EXTREME SPREAD, FROM THE OFF HAND BENCH REST SHOOTING.

Report No. 88.3401 15-6 4 5 **RESEARCH TEST & MEASUREMENT LAB WORK REQUEST** AREA OF TESTING L evelopmental Safety Related Litigation **Competitive Evaluation** Warehouse Audit Design Acceptance Cost Reduction New Design Pre-Pilot Pilot **Design Change** Stake Other Sac Production Acceptance Plant Assistance FIREARM STAT'S. REPORT REQ'D. MODEL: XP-100 DATE REQUESTED: 12-2 FORMAL DATE NEEDED BY: 1-16-CAL. or GAGE: TEST KS Me REQUESTED BY: BARREL TYPE: RESULTS ONLY WORK ORDER NO: 48/15 PROOFED: YES X NO TEST TYPE Dry Cycle Test Photo/Video Strength Test Ammunition Test **Function Test** Environmental Test Measurements Other Accuracy Test Customer Complaint **Endurance Test** EXPLAIN IN DETAIL THE REASON FOR THIS TEST: These XP's were assembled in Production. in these three quit to Soo rds in a jack. the 200 gr. hellet weight. Every 100 rounds please production and comparator check land reco the quist to the sear engagement. The test is to verify that the washers installed to prevent movem work. NOTE: The lock washers will screw not work, sear engagement may change and GUNS REQUIRED: the gon may F3R or time on Closing. # B7525755 # B7525802 #A7525875 DATE COMPLETED: NOTE: NO firearms or parts will be tested in the Labs unless they are accompanied by a Work Request, and both are delivered to TEST COMPLETED BY: the Labs by the designer or engineer. All Work Requests are **REPORT DATE:** to be filled out in detail. No Exceptions.

TEST AND MEASUREMENT LAB - TEST REPORT

1.2

REQUESTER:R. MURPHYTESTER:C. STEPHENSDATE:9 DEC 88REPORTNO.:883401WORKORDER:481152WRITTEN BY:C.STEPHENSWORKORDER:481152

TEST TYPE: TEST RESULTS

FIREARM STAT'S:	MODEL:XP100	CAL OR GAGE:35 REM
· · · · · · · · · · · · · · · · · · ·	BARREL TYPE:	PROOFED:YES

REASON FOR TEST:

TO VERIFY THAT INSTALLING LOCKWASHERS ON THE ENGAGEMENT SCREW WILL PREVENT MOVEMENT OF THE SCREW.

EQUIPMENT REQUIRED: 3 XP100 IN 35 REM, SHOOTING ROOM, COMPARATOR, PERSONAL

TEST PROCEDURE:

EACH GUN WAS SHOT 500 RDS. AT 100 RD. INTERVALS EACH GUN WAS TAKEN TO PRODUCTION AND THE SEAR ENGAGEMENT AND OVER TRAVEL CHECKED.

TEST RESULTS:

THE RESULTS SHOW THAT TWO GUNS SHOWED MOVEMENT WITHIN TWO HUNDRED ROUNDS ON SEAR ENGAGEMENT. BOTH GUNS REMAINED WITHIN SPECS. ALL THREE GUNS SHOT THE LAST THREE HUNDRED ROUNDS WITH NO MOVEMENT

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER KINZER V. REMINGTON 小田橋 计运行

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REMINGTON ARMS COMPANY, INC.

INTER-DEPARTMENTAL CORRESPONDENCE

Remington.



"CONFINE YOUR LETTER TO ONE SUBJECT ONLY"_____

xc: W.H. Coleman, II/File K.W. Soucy

- D.J. Anderson
- G.J. Hill
- T.C. Douglas
- J.R. Snedeker
- J.F. Matousek, Jr.

- F.L. Supry
- File

RESEARCH TEST AND MEASUREMENT REPORT

REPORT# 872151 AUGUST 06, 1987

MODEL XP-100 35 REM CALIBER TRIAL AND PILOT EVALUATION

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MODEL XP-100 35 REM CALIBER TRIAL AND PILOT EVALUATION

ABSTRACT:

Research and Development finds the Trial and Pilot Evaluation of the Model XP-100 35 REM caliber to be acceptable.

The pistols tested were randomly selected, after being put in the warehouse. The pistols were examined, as received, by Research Technicians, and then subjected to the 100 yard (off hand bench rest) accuracy test. The barrels with the maximum and minimum extreme spread were removed from the stocks and shot one five shot group each, using the Gallery accuracy device.

> Prepared by: F.L. Supry Date Prepared: 08/06/87

proofread and cleared by:

J.R. SNEDEKER, Research Supervisor Test, Measurement & Mech. Analysis Lab

W.H. COLEMAN, II New Products Research Lab Director

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MODEL XP-100 35 REM CALIBER TRIAL AND FILOT EVALUATION

TO: J.R. Snedeker FROM: F.L. Supry

INTRODUCTION:

In July 1987, a request to conduct a Trial and Pilot Evaluation of the Model XP-100 35 REM caliber pistol was received by the Test Lab. The evaluation would use four pistols, withdrawn from the warehouse, and consist of Visual Inspection and 100 yard accuracy.

SCOPE OF THE TEST:

To determine if the production run sample would meet the Remington Specifications set by the Research Design Section.

TEST RESULTS:

The Model XP-100, chambered in the 35 REM caliber, was found to be acceptable in all phases of the Trial and Pilot Evaluation.

MODEL XP-100 35 REM CALIBER TRIAL AND PILOT EVALUATION

REPORT TEXT:

1. VISUAL INSPECTION:

A. There were no major items in the appearance of the pistols.

B. The pistols used in the Visual Inspection were:

B7520239 B7520092 B7520550 B7520284

C. Comments on each pistol are located in the appendix.

2. ACCURACY:

The Remington standard for the XP-100, chambered in the 35 REM caliber is an extreme group size of: 3.5 inches for a 5 shot group.

A. The pistols used in the accuracy test were:

B7520239 B7520092 B7520550 B7520284 B. The following averages were established:

a. Group Size:	BENCH REST 2.82 inches	ACCURACY DEVICE 2.49 inches
b. Horizontal Spread:	2.24 inches	2.16 inches
c. Vertical Spread:	1.73 inches	2.15 inches

C. Accuracy results per individual pistol are located in the appendix of this report.

Report# 872151

MODEL XP-100 35 REM CALIBER TRIAL AND PILOT EVALUATION

TEST PROCEDURE:

- 1. VISUAL INSPECTION:
 - A. The visual inspection was done by F.L. Supry and C.J. Stephens.
 - B. All 4 of the pistols were examined.
 - C. Each pistol was wiped down with a clean white Coyne towel, and examined. All comments were recorded.

2. ACCURACY:

- A. The off hand (bench rest) accuracy was shot by C.J. Stephens, at the R&D 100 yard range.
- B. Weaver bases and rings were used, in conjunction with a Redfield 12X scope.
- C. Remington ammunition, index R35R1, code E27 C6005L, 150 grain pointed soft point, was used for the 100 yard accuracy test.
- D. Before shooting the 100 yard accuracy test, the bores on each pistol were brushed with Hoppe's No. 9 solvent and patched dry.
- E. A total of three, five shot groups, were shot with each pistol. The pistols were cooled between each group, and one "warmer" shot was fired before the next group was shot.
- F. The accuracy device accuracy was shot by R. Sterling, at the Gallery 100 yard range.
- G. The stocks were removed from two of the pistols, and one five shot group was shot with each pistol.
- H. The patterns were analyzed for group size, horizontal spread, and vertical spread, using the HP 9000 computer and digitizing tablet.

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MODEL XP-100 35 REM CALIBER TRIAL AND PILOT EVALUATION

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APPENDIX

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MODEL XP-100 35 REM CALIBER TRIAL AND PILOT EVALUATION

VISUAL INSPECTION:

GENERAL COMMENTS:

The appearance of the Model XP-100 35 REM caliber sample was very good.

COMMENTS PER INDIVIDUAL PISTOL:

- B7520239 Glue marks: left side of the stock by fore-end tip. right side of stock by diamond.
- B7520092 Scratch on left panel, above the trigger guard. Scratch on right panel, in front of the diamond.
- B7520284 Bottom of pistol grip rough, at the seam. Light proof stamp.

B7520550 Small pits on the right panel of the stock.

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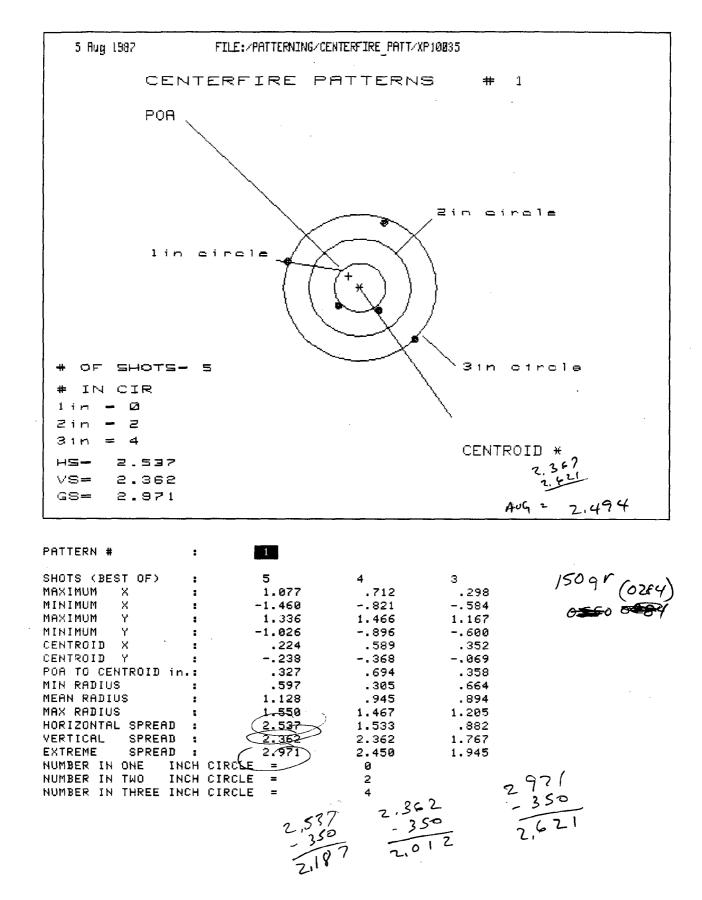
MODEL XP-100 35 REM CALIBER TRIAL AND PILOT EVALUATION

ACCURACY RESULTS - EXTREME SPREAD

SERIAL NUMBER	<u>GROUP#</u>	BENCH REST (inches)	ACCURACY DEVICE (inches)
В7520092	1	3.07	NA
	2	2.70	NA
	3	2.81	NA
B7520284	1	3.00	2.49
	2	2.98	NA
	3	2.74	NA
B7520239	1	2.52	NA
	2	2.20	NA
	3	4.09	NA
в7520550	1	2.27	2.37
	2	2.05	NA
	3	3.36	NA

NOTE:

THE ACCURACY DEVICE WAS USED TO VERIFY THE BARRELS WITH THE MINIMUM AND MAXIMUM EXTREME SPREAD, FROM THE OFF HAND BENCH REST SHOOTING.



5 Aug - 387 FILE:/PATTERNING/CENTERFIRE_PATT/XP10035 CENTERFIRE PATTERNS # \mathcal{Z} POR Zin circle ß lin Airele 3in circle OF SHOTS- 5 IN CIR CENTROID * Ø 1 i Zin 1 З 31n -2.953 HSH 2.170 VS=3.073 GS =2 PATTERN # : 2009r (0284) SHOTS (BEST OF) 5 ; 4 З 1.329 1.034 .395 MAXIMUM X . MINIMUM х -1.624 -1.919 ~.558 : .565 MAXIMUM Y : 1.508 .470 -,285 -.278 MINIMUM Y 1 -.662 CENTROID X 1.541 1.836 2.475 i .370 .465 CENTROID Y .747 1 POA TO CENTROID in.: 1.712 1.873 2.519 MIN RADIUS .674 .200 .253 1 MEAN RADIUS 1.376 1.032 .497 1-945 MAX RADIUS 1.940 .624 : 2,953 HORIZONTAL SPREAD 2.953 .953 . VERTICAL SPREAD 2.170 .850 .748 1 EXTREME SPREAD 3.073 3.073 1.211 : NUMBER IN ONE INCH CIRCLE 0 =

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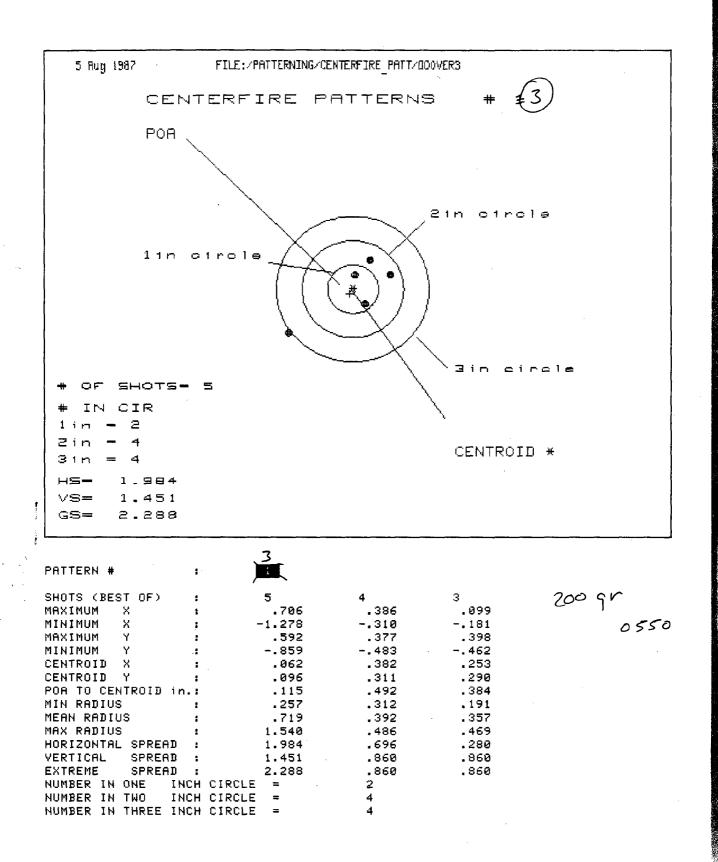
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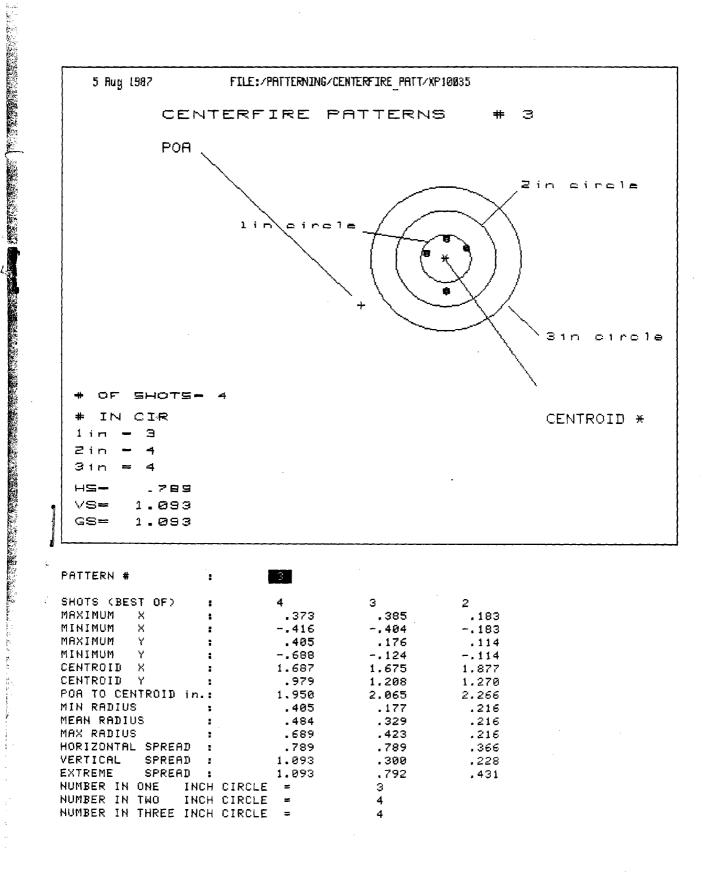
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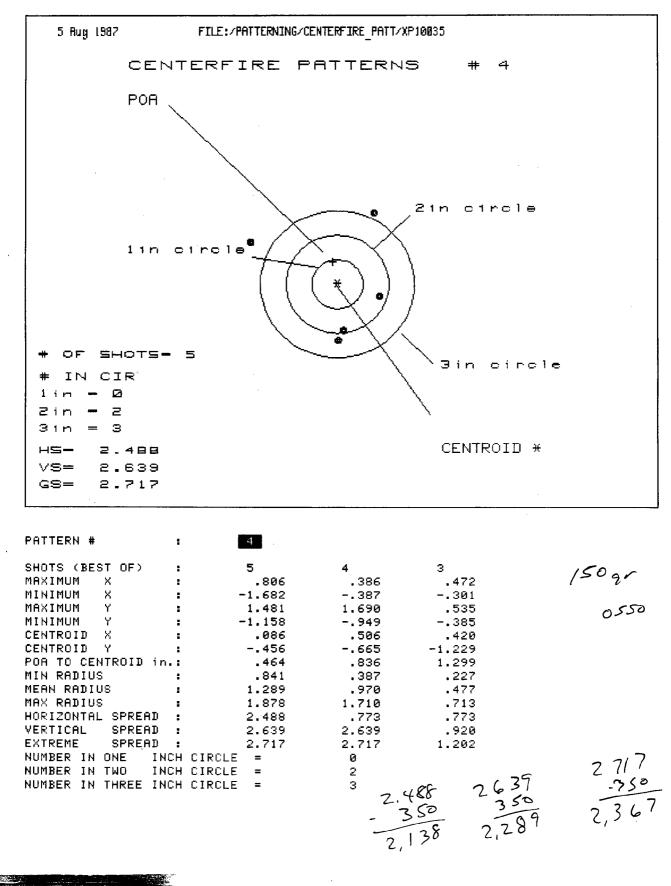
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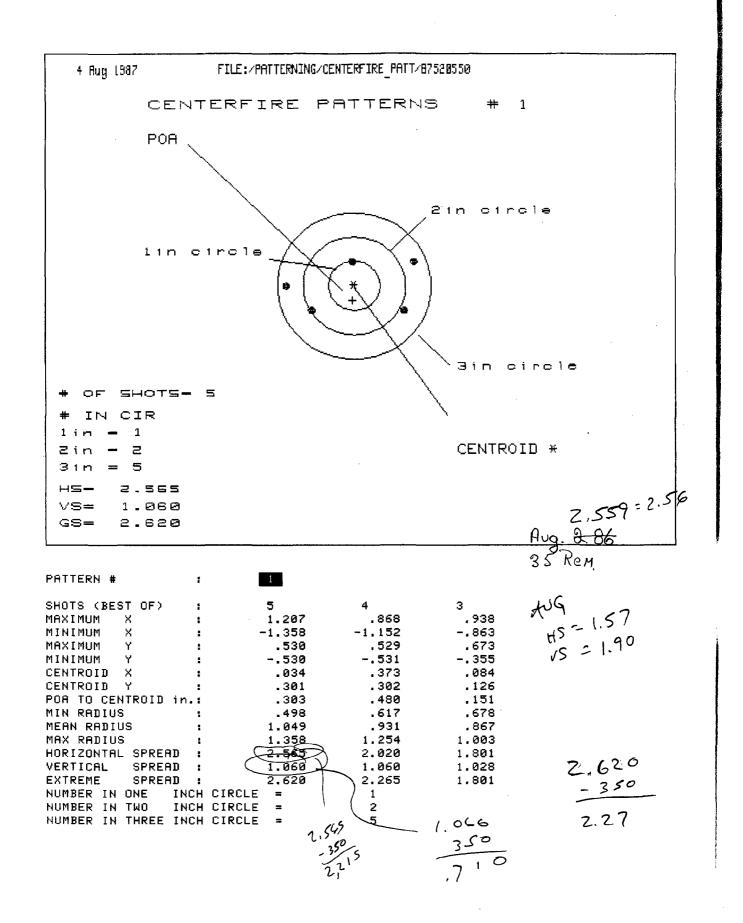
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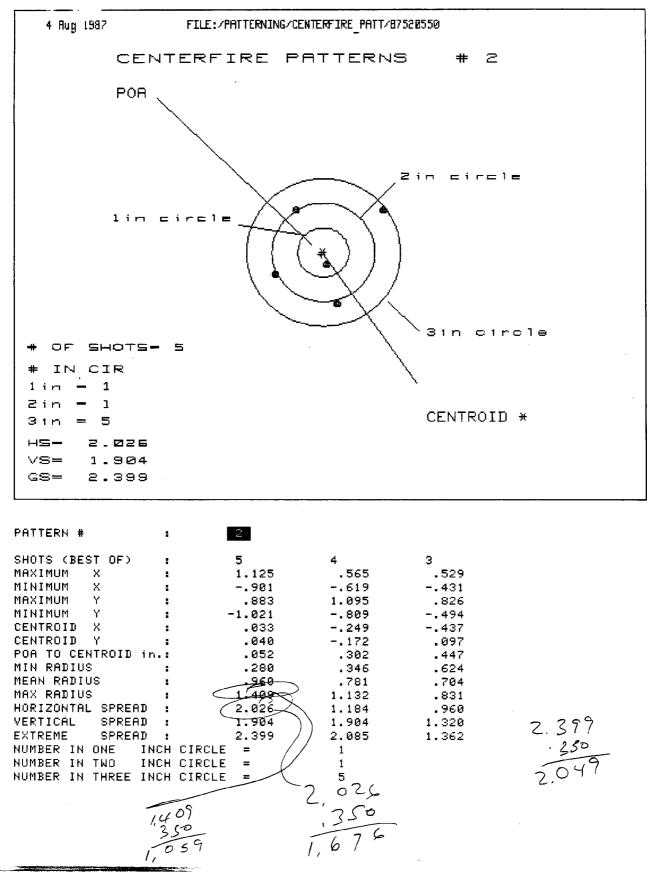
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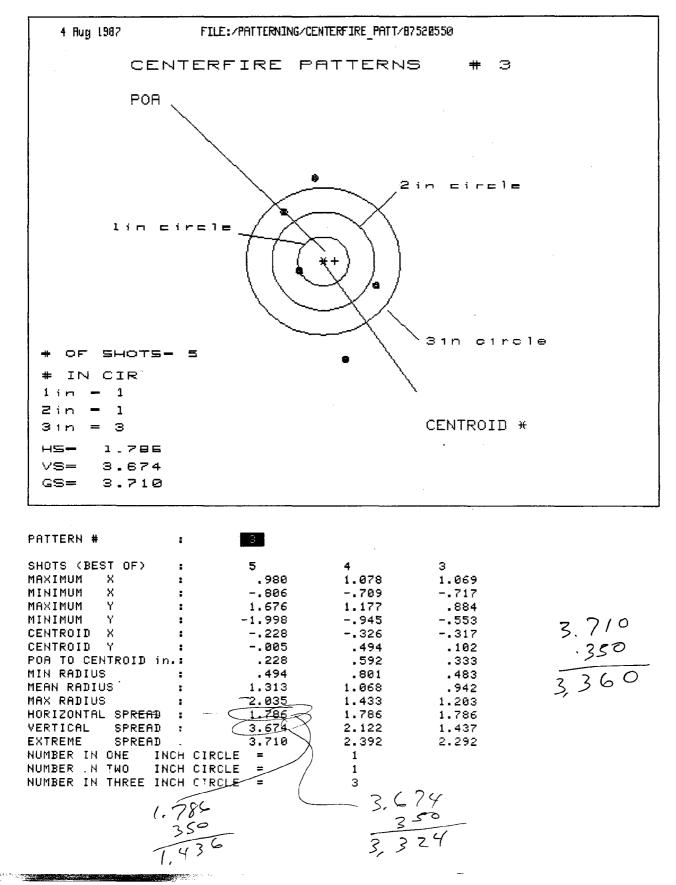
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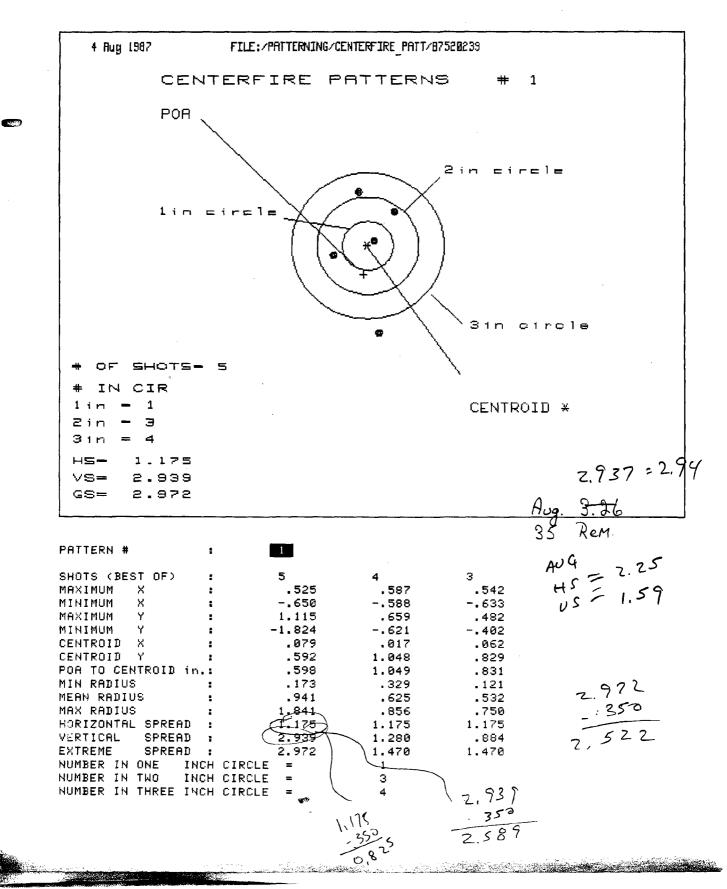
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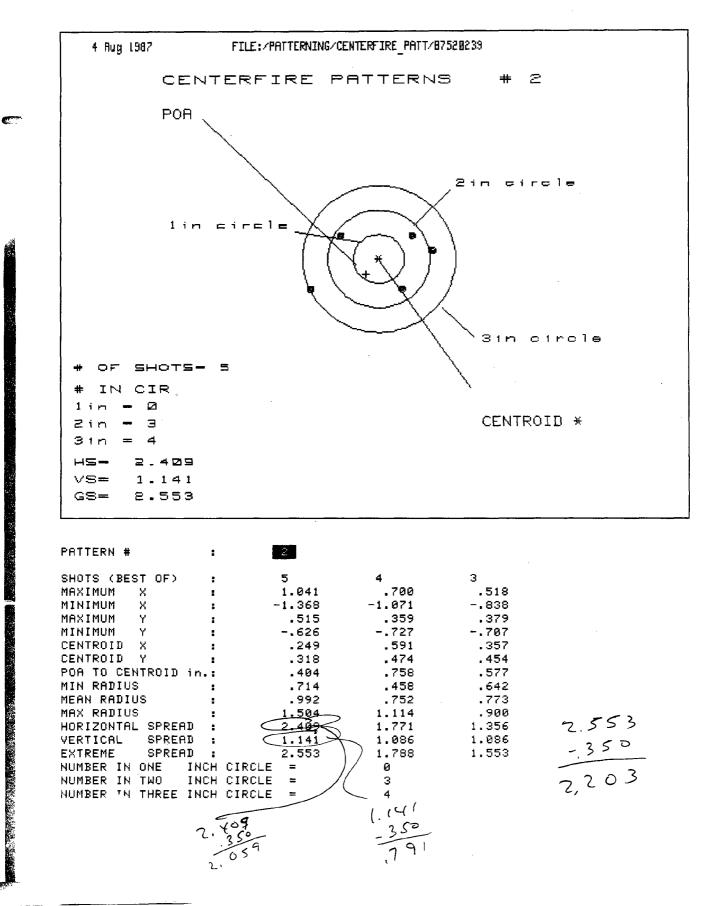








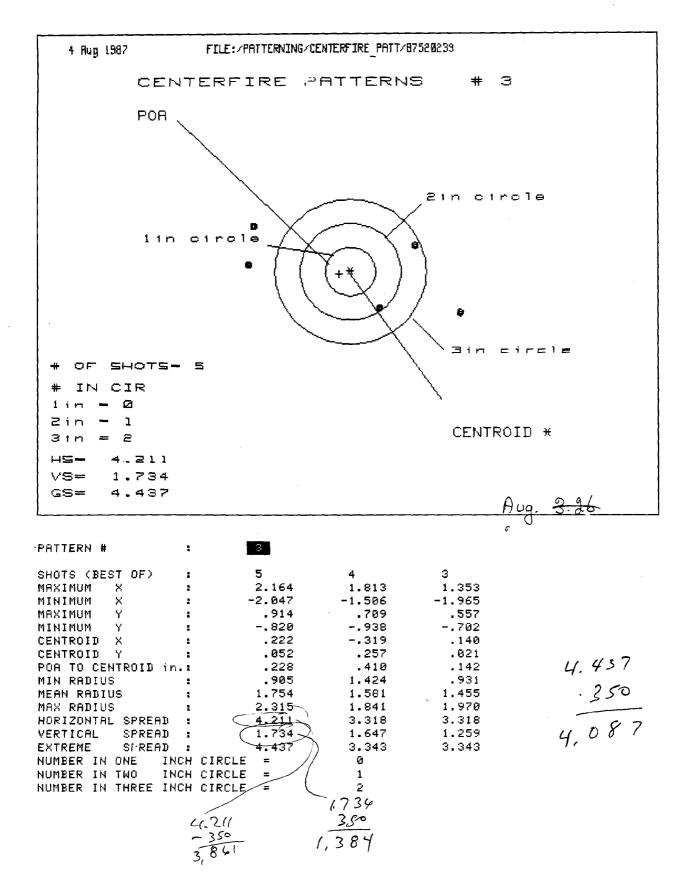




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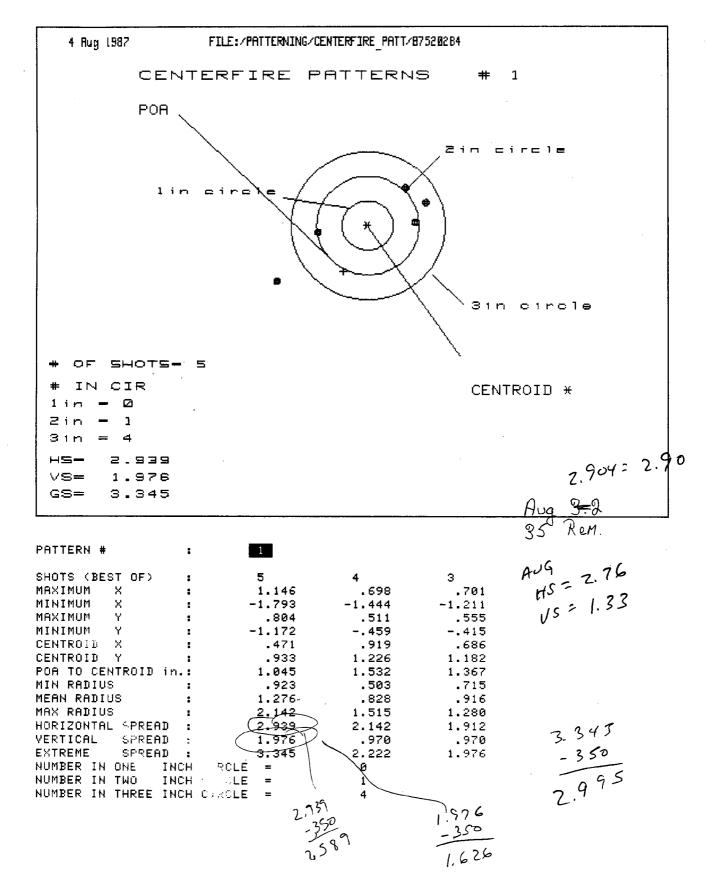
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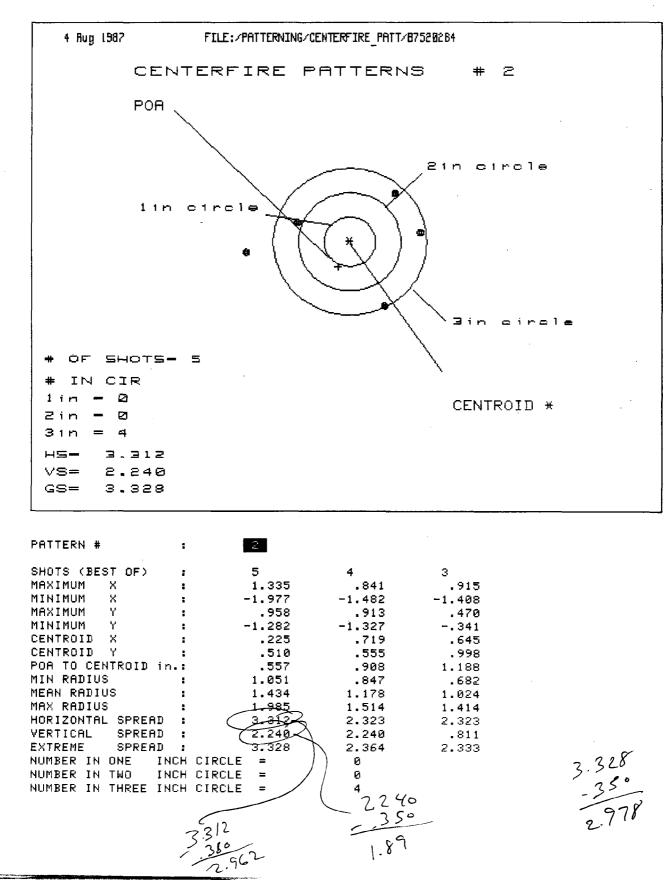
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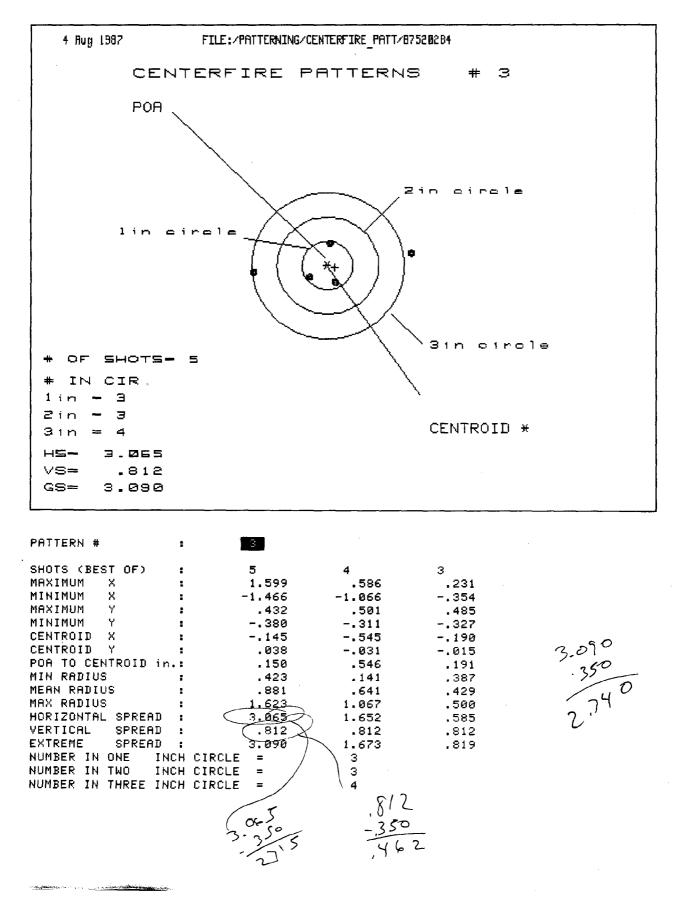
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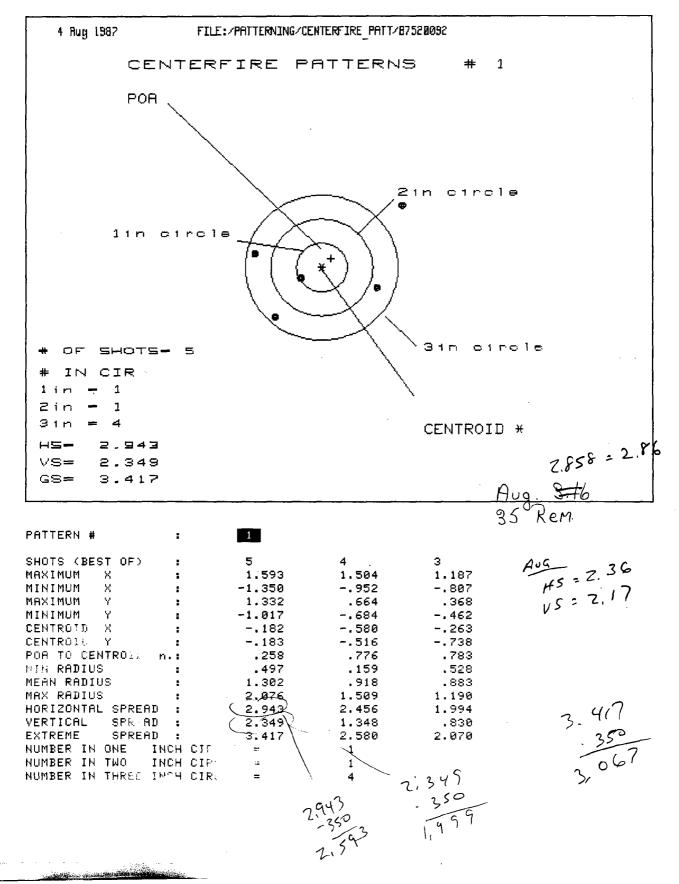




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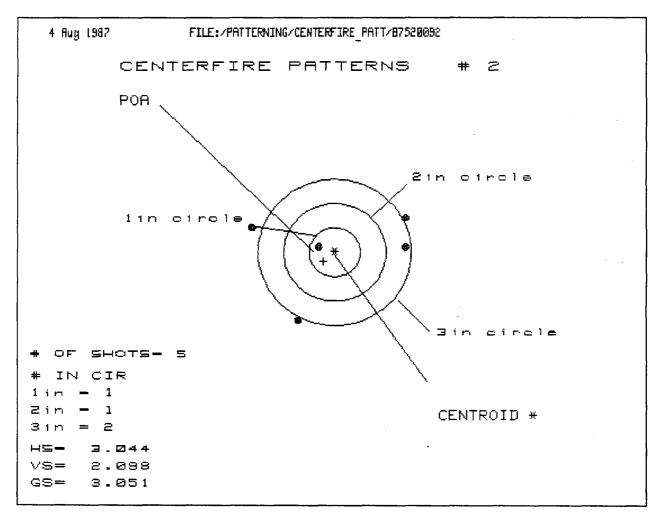


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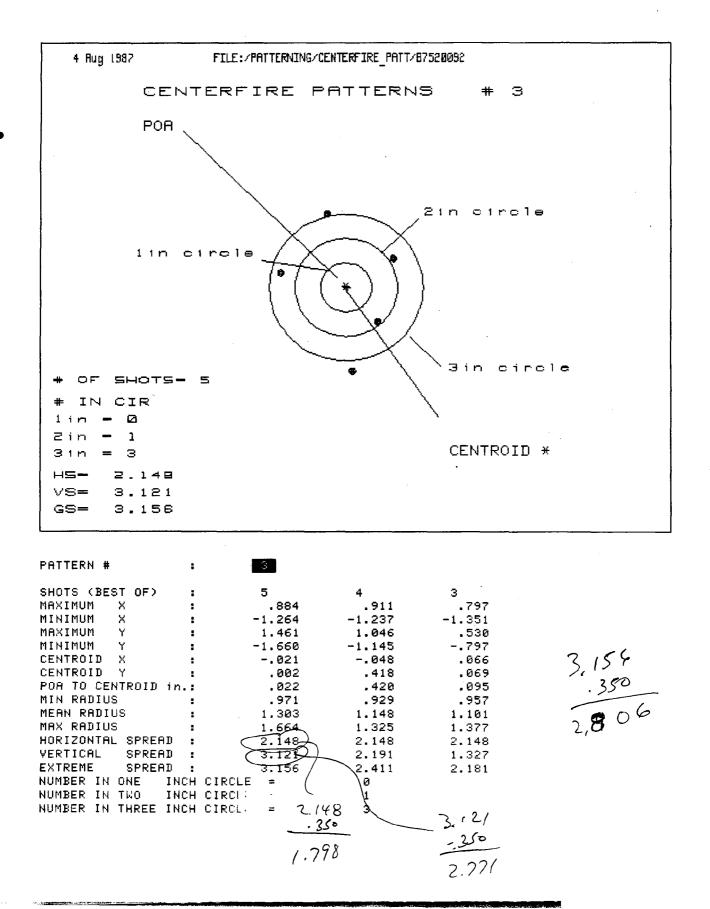
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PATTERN # : 2

SHOTS (BEST OF) :	5	4	3
MAXIMUM X :	1.377	.961	.588
MINIMUM X :	-1.667	-1.118	-1.156
MAXIMUM Y :	.688	.814	.386
MINIMUM Y :	-1.410	-1.284	204
CENTROID X :	.219	.636	1.008
CENTROID Y :	.189	.063	.491
POA TO CENTROID in.:	.289	.639	1.121
MIN RADIUS :	.386	.821	.604
MEAN RADIUS :	1.321	1.187	.826
MAX RADIUS :	1.742	1.702	1.170
HORIZONTAL SPREAD :	(3.044)	2.078	1.744
VERTICAL SPREAD :	2.098) 2.098	.590
EXTREME \$PREAD :	3.051	2.953	1.834
NUMBER IN ONE INCH	CIRCLE = /	1	
NUMBER IN TWO INCH	CIRCLE = /	1	
NUMBER IN THREE INCH	CIRCLE =/	2	
	3.044	2.098	
	-350	- 350	
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3.05/ -350 2.701



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