

xc: W.H. Coleman, II/File
T.C. Douglas
L.B. Bosquet
File

RESEARCH TEST AND MEASUREMENT REPORT

REPORT# 890721
W.O.# 486209
MARCH 16, 1989

MODEL 700 CLASSIC RIFLE 300 WEATHERBY CALIBER
TRIAL AND PILOT EVALUATION

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MODEL 700 CLASSIC RIFLE 300 WEATHERBY CALIBER
TRIAL AND PILOT EVALUATION

ABSTRACT:

Research and Development finds the Trial and Pilot Evaluation of the 300 Weatherby caliber, Model 700 Classic Rifles to be acceptable. The Trial and Pilot Evaluation consisted of Visual Inspection, Field Function and Accuracy. The 10 rifle sample, randomly selected from a 20 rifle sample, was found to be within Remington specifications for each phase of the Trial and Pilot Evaluation.

Prepared by: D.R. Thomas
Date Prepared: March 16, 1989

proofread and cleared by:

J.R. SNEDEKER
Staff Engineer

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

J.R. Snedeker 16 Mar '89
W.H. Coleman II 3/17/89

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TRIAL AND PILOT EVALUATION

TO: J.R. Snedeker
FROM: D.R. Thomas

INTRODUCTION:

On March 13, 1989 a request to conduct a Trial and Pilot Evaluation of the 300 Weatherby caliber, Model 700 Classic Rifles was received by the Test Lab. The evaluation used 10 rifles, randomly selected from a production rifle sample and consisted of Visual Inspection, Accuracy and Field Function.

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 production sample of the 300 Weatherby caliber, Model 700 Classic Rifles was found to be acceptable in all phases of the Trial and Pilot Evaluation. The results of each phase of testing were as follows:

VISUAL:

The overall appearance of the rifles was good.

ACCURACY:

The average group size was 1.85 inches.
Remington specification for accuracy is 3.5 inches.

FIELD FUNCTION:

All of the five rifles tested experienced no malfunctions.

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REPORT TEXT:

GENERAL:

The following ten rifles were randomly selected from the production sample for the Trial and Pilot Evaluation:

C6329053	C6347818	C6348495	C6348312	C6348343
C6341560	C6348385	C6348296	C6348311	C6347961

VISUAL INSPECTION:

The visual inspection committee finds the overall visual appearance of the Trial and Pilot sample to be acceptable.

All ten of the rifles were used in the Visual Inspection.

Comments on each rifle are located in the appendix.

FIELD FUNCTION:

Five of the rifles were fired 30 rounds each in a field function test conducted at the Ilion Fish and Game Club and the following results were established:

All five of the rifles experienced no malfunctions.

The following five rifles were used in the field function test:

C6348311	C6348296	C6341560	C6348385	C6347961
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ACCURACY:

The results showed that the 300 Weatherby caliber, Model 700 Classic Rifles tested met the Remington specification (3.5 inches) for group size.

The following five rifles were used in the accuracy test:

C6329053	C6347818	C6348495	C6348312	C6348343
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The average group size for the five rifles used in the accuracy test was 1.85 inches.

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

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TEST PROCEDURE:

VISUAL INSPECTION:

The visual inspection committee consisted of J.E. Selan, R. Howe, M. Paestella, and D.R. Thomas.

All ten rifles were examined.

Each rifle was wiped down with a clean white Coyne towel and examined by each committee member. All comments were recorded.

FIELD FUNCTION:

Five of the ten rifles were subjected to the loading and firing of 30 rounds in a field function test conducted at the Ilion Fish and Game Club. A round robin method of shooting, alternating shooters every ten rounds, was used throughout the field function testing.

Each of the five guns had ten rounds each of R300WB2, Weatherby 150gn. and Weatherby 180gn. ammunition shot through it.

ACCURACY:

Three, five shot groups were shot with each of the five rifles selected for 100 yard accuracy. The accuracy was shot by J.E. Selan in the Research and Development 100 yard range located in building 52-1A.

Remington ammunition code R300WB2 (220gn. SPCL) lot# K-16K B0623 was used for the accuracy testing.

Standard long action Leupold bases and rings were used in conjunction with a 20X Lyman All American scope.

The targets were analyzed for group size using the HP 9000 computer and digitizing tablet.

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APPENDIX

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TRIAL AND PILOT EVALUATION

VISUAL INSPECTION:

GENERAL COMMENTS:

The appearance of the 300 Weatherby caliber, Model 700 Classic Rifle sample was good.

There were no visual defects severe enough to reject the sample however, the following items were noted in the visual inspection:

COMMENTS PER INDIVIDUAL RIFLE:

C6329053	Finish run on stock
C6347818	Bright spot on barrel
C6348495	Recoil pad spacer chipped at toe
C6348312	Small dent in right panel of stock mar on the top of the bolt handle
C6348343	Chip-out at front swivel Bright spot on bolt plug
C6341560	Chip-out at rear swivel Small white spot in finish Floor plate mars stock when closed
C6348385	Wood torn in barrel channel Small dent in fore-end
C6348296	Poor wood repair in checkering Poor polish on bolt handle Bolt plug marred
C6348311	Small bright mar on barrel
C6347961	Three small mars on stock Bolt plug marred

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MODEL 700 CLASSIC RIFLE 300 WEATHERBY CALIBER
TRIAL AND PILOT EVALUATION100 YARD ACCURACY RESULTS
(Remington specification 3.5 inches)

<u>SERIAL NUMBER</u>	<u>GROUP 1</u> (in.)	<u>GROUP 2</u> (in.)	<u>GROUP 3</u> (in.)	<u>AVERAGE</u> (in.)
C6329053	2.13	1.85	1.65	1.88
C6347818	.83	2.11	2.88	1.94
C6348495	1.59	1.40	2.22	1.74
C6348312	1.31	2.50	1.92	1.91
C6348343	1.85	2.17	1.39	1.80

AVERAGE GROUP SIZE 1.85 inches