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RESEARCH TEST AND MEASUREMENT REPORT - Report No. 821572

1900 CLASSIC 087 ROBERTS TRAIL AND PILOT EVALUATION

Prepared by: J. Baggetta

Date Prepared: 10-25-82

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J.E. Hennings, / R.E. Nightingale,
Foreman-Test Lab / Foreman-Measurement Lab

Signature

Date

C.E. Ritchie,
Sr. Supervisor - Testing,
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Signature

Date

TEST & MEASUREMENT LAB REPORT

REPORT NUMBER: 821672
REPORT TITLE: M/700 CLASSIC 257 ROBERTS TRIAL AND PILOT EVALUATION
MODEL(S): 700 Classic
GAUGE OR CALIBER: 257 Roberts
DATE: 6-16-82
WORK ORDER NO.: 90090
PART NAME:
DESIGNER/ENGINEER: P. Nasypany

TEST TYPE:

1. PHOTO LAB
2. STRENGTH TEST - NO. OF GUNS TESTED _____
3. FUNCTION TEST - NO. OF GUNS TESTED 8
4. ACCURACY TEST - NO. OF GUNS TESTED 4
5. MEASUREMENTS - TYPE: Static - Preliminary
6. ENVIRONMENTAL TEST
7. AMMUNITION TESTING & EVALUATION - TYPE: _____
8. VISUAL EVALUATION - 8 OUT OF 40 GUN SAMPLE
9. ENDURANCE - NO. OF GUNS TESTED: 8
NO. OF ROUNDS PER GUN: 80
TOTAL ROUNDS FIRED IN TEST: 640
AMMO TYPE: MAGS. _____; TARGET: _____
RIM FIRE _____ CENTER FIRE X

October 25, 1982

TO: J. HENNINGS
FROM: J. BAGGETTA
REPORT TITLE: M/700 CLASSIC 257 ROBERTS TRIAL AND PILOT EVALUATION

ABSTRACT

On June 16, 1982, a request was received from P. Nasypany and J. Hill to conduct a Trial and Pilot Evaluation on the M/700 Classic 257 Roberts.

The Test consisted of:

- o Visual Inspection
- o Field Function (Feeding Evaluation)
- o Accuracy Test

SCOPE OF TEST

To evaluate the overall functional performance and visual appearance of the M/700 Classic 257 Roberts Rifle.

TEST RESULTS

Visual Inspection

The visual inspection on the eight sample rifles was rejected.

Field Function

Eight (8) rifles were fired 80 rds. each for a total of 640 yds. No malfunctions occurred on any of the rifles.

Accuracy

Four of the eight rifles used in the Field Function Test were accuracy tested. Three of the four rifles were within Remington Standards, which is 2.2" center to center for a 5 shot group. The remaining rifle was over the spec. because one of the three group sizes was 3.0", the average of the three groups was 2.31".

REPORT TEXT

1. The visual inspection on all eight (8) rifles was poor.
Some of the major defects were:

- (1) Bolt handle finish dull.
- (2) Marks on stocks.
- (3) Poor staining of stock at edges.
- (4) Uneven barrel inletting.

For more detailed information, See Appendix "A" Data Sheet No. 1.

2. No feeding problems or malfunctions occurred during the Field Function Test. Two brands of ammunition, Remington and Winchester were used in this test.
3. The accuracy results on three of the rifles were within Remington Standards. One rifle, Serial No. B6396760, experienced accuracy problems with the second group. The group size measured 3.0" which is .8" over spec. When this group was averaged in with the first and third groups, the mean was .11" over the spec. (Mean of the groups was 2.31" for this rifle.) For all accuracy information, refer to Appendix "A" Data Sheet No. 2.

TEST PROCEDURE

A. The Preliminary Measurements were: (Refer to Appendix "A" Data Sheet No. 3.)

Headspace
Trigger Pull
Safe On/Off

B. Visual Inspection

The visual inspection was conducted in the R. & D. Photo Room under normal room lighting. The personnel involved in the inspection were, J. Hennings, E. Ritchie, J. Brooks, P. Nasypany, M. Hardy, B. Warren, B. Joy and C. Powers.

C. Field Function Test

The test was conducted at the Ilion Fish and Game Club rifle range. The weather was warm and sunny. The rifles were air-cooled every 20 rounds (able to hold barrel in hand). Five (5) men were used to fire the rifles incorporating the round robin system. Two brands of ammunition were used:

Remington 117 Gr. SP.
Winchester 117 Gr. SP.
Winchester 100 Gr. ST.

Each man took 20 rounds of each ammo. type and fired 5 rds. at a time, varying the feed (5 rds. slow, 5 rds. medium, 5 rds. fast and 5 rds. various speeds).

D. The rifles used in Field Cycle Test were:

Remington M/700 Classic - 257 Roberts

Ser. No. B6397205	Ser. No. B6395662
" " B6394453	" " B6397135
" " B6395859	" " B6395794
" " B6396760	" " B6396144

E. Accuracy - Rifles used:

B6396144	B639676
B6394453	B6395859

Ammunition used was Winchester 117 Gr. SP - Code 255N31

Future Work

It was determined after meeting with R. & D. and Process Engineering personnel that a second sample be reviewed after the corrective action has been taken as noted in the visual inspection.

" APPENDIX " A "

Data Sheets

Serial No	Group	Size	Weight	Group
*B6396144				
Group No 1	245"	170"	165"	157"
2	170"	160"	110"	121"
3	165"	155"	150"	

*B6394453				
Group No 1	200"	210"	050"	216"
2	210"	215"	100"	211"
3	240"	210"	170"	156"
B6396760				
Group No 1	205"	200"	115"	231"
2	300"	200"	060"	210"
3	170"	130"	140"	125"
B6395859				
Group No 1	125"	120"	065"	160"
2	160"	140"	155"	138"
3	195"	155"	140"	120"
*Rem STAND - 22" Center to Center				

