

C6225194

MODEL 700™ M24

Model **SMS**™

Action

Barrel Length

Capacity

Order No. **5716**

*Includes 1 in chamber.



Smith
®

VERY IMPORTANT:
Instruction Book
enclosed to assure
safe use of this
firearm.



REG. U.S. PAT. & TM. OFF.

MODEL 700TM H24

SERIAL NO.
C6225194

ORDER NO.
5716

MADE IN ILION, N.Y. U.S.A. Reg. U.S. Pat. & Tm. Off, Marca Registrada. Marque Deposee.

Ø1



5716 C6225194

UPC



0 47700 25716 7

Arms Services Repair & Estimate System

File Add Repair Estimate Repair Expedite Repair Inquiry Repair Tools CSR Tools Reports Table Maintenance System Maintenance Help

Repair Inquiry

Repair Number: **RE00087074** Serial: C6225194 Model: M24 SWS Center Fire Caliber: 7.62 NATO Repairman: Status: Closed 10/27/2004 9:31:24 AM

Verify Repair

Address Information

Customer: Received From: Return To: Received From:

Name: **ELECTRONIC MAIN SHOP GSC 10TH DIV** **ELECTRONIC MAIN SHOP GSC 10TH DIV**

Address 1: **ATTN MSG BARTRON SPC LAUBAUGH** **ATTN MSG BARTRON SPC LAUBAUGH**

Address 2: **BLDG 7426 RM 203 BAD TOELZ** **BLDG 7426 RM 203 BAD TOELZ** PO Box:

City: **FORT CARSON** **FORT CARSON**

State: **CO** Zip Code: **80913** Country: **US** State: **CO** Zip Code: **80913** Country: **US**

FFL: ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

Contact / Condition **Problems** **Estimate** **History / Status** **Shipping / Billing**

Contact Information

Phone:

Fax:

Email:

Comments:

Received Condition

Good

Condition Notes:

CSR Notes:

Accessories Received

Code	Desc	Qty
A007	With Stud	3
A017	Scope Base	1
A026	Scope	1
C000	F AND R SGT BASES	1

Repair Search **Refresh** **Close**

maglet 10/27/2004 12:01 PM CAPS NUM INS SCRL

start 2 Arms Services 3 2

Serial Number: **C6225194**

Model: **M24 SWS**



RE00087074

SNIPER WEAPON SYSTEM - UNIQUE STATISTICAL INFORMATION

FIREARM SERIAL NUMBER / DATASET NAME: C6225194.___0
FILE DATE AND TIME: 11/18/2004 10:01

THE FOLLOWING DATA IS ALL REPORTED IN UNITS OF INCHES

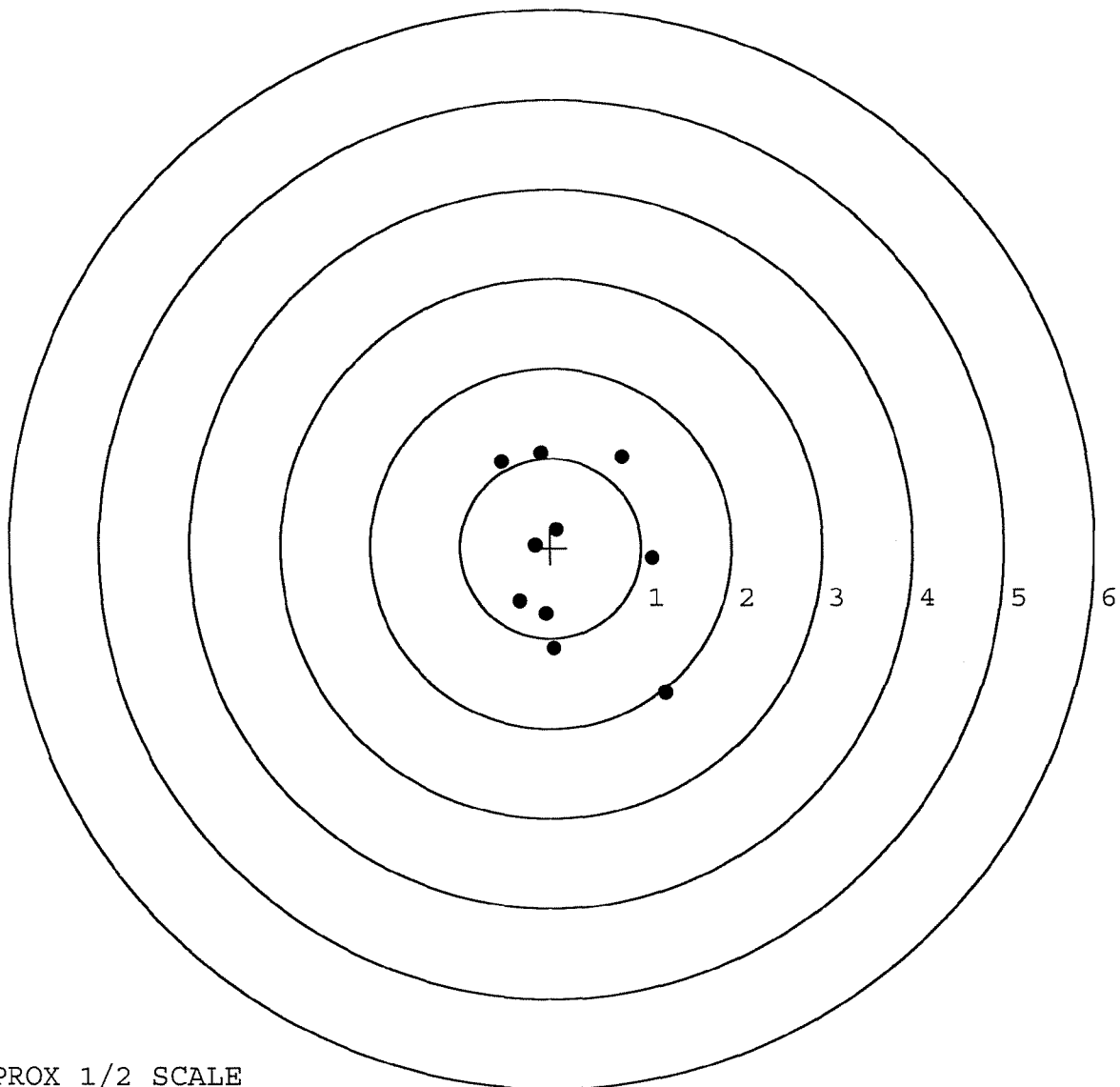
The Average X Centroid of the Five Target Set:	0.011
The Average Y Centroid of the Five Target Set:	-0.044
The Average Point of Impact of the Five Target Set:	0.046
The Average Mean Radius of the Five Target Set:	0.740
The Distance from POA to Centroid Target #1:	0.227
The Distance from Centroid Target #2 to Centroid Target #1:	0.254
The Distance from Centroid Target #3 to Centroid Target #1:	0.316
The Distance from Centroid Target #4 to Centroid Target #1:	0.208
The Distance from Centroid Target #5 to Centroid Target #1:	0.312

BARBER - M24 0010305

SERIAL NUMBER: C6225194. __0
TARGET NUMBER: 1
FILE DATE: 11/18/2004
FILE TIME: 10:01

POINT#	X	Y
1:	1.279	-1.605
2:	1.124	-0.115
3:	0.787	1.019
4:	-0.111	1.056
5:	-0.542	0.957
6:	0.070	0.206
7:	-0.171	0.031
8:	-0.345	-0.594
9:	-0.048	-0.736
10:	0.046	-1.115

X CENTROID: 0.209
Y CENTROID: -0.090
POA TO CENTROID: 0.227
HORZ SPREAD: 1.821
VERT SPREAD: 2.661
GROUP SPREAD: 3.143
MIN RADIUS: 0.327
MAX RADIUS: 1.855
MEAN RADIUS: 0.971
IN 1 IN DIAMETER: 2
IN 2 IN DIAMETER: 5
in 3 IN DIAMETER: 9



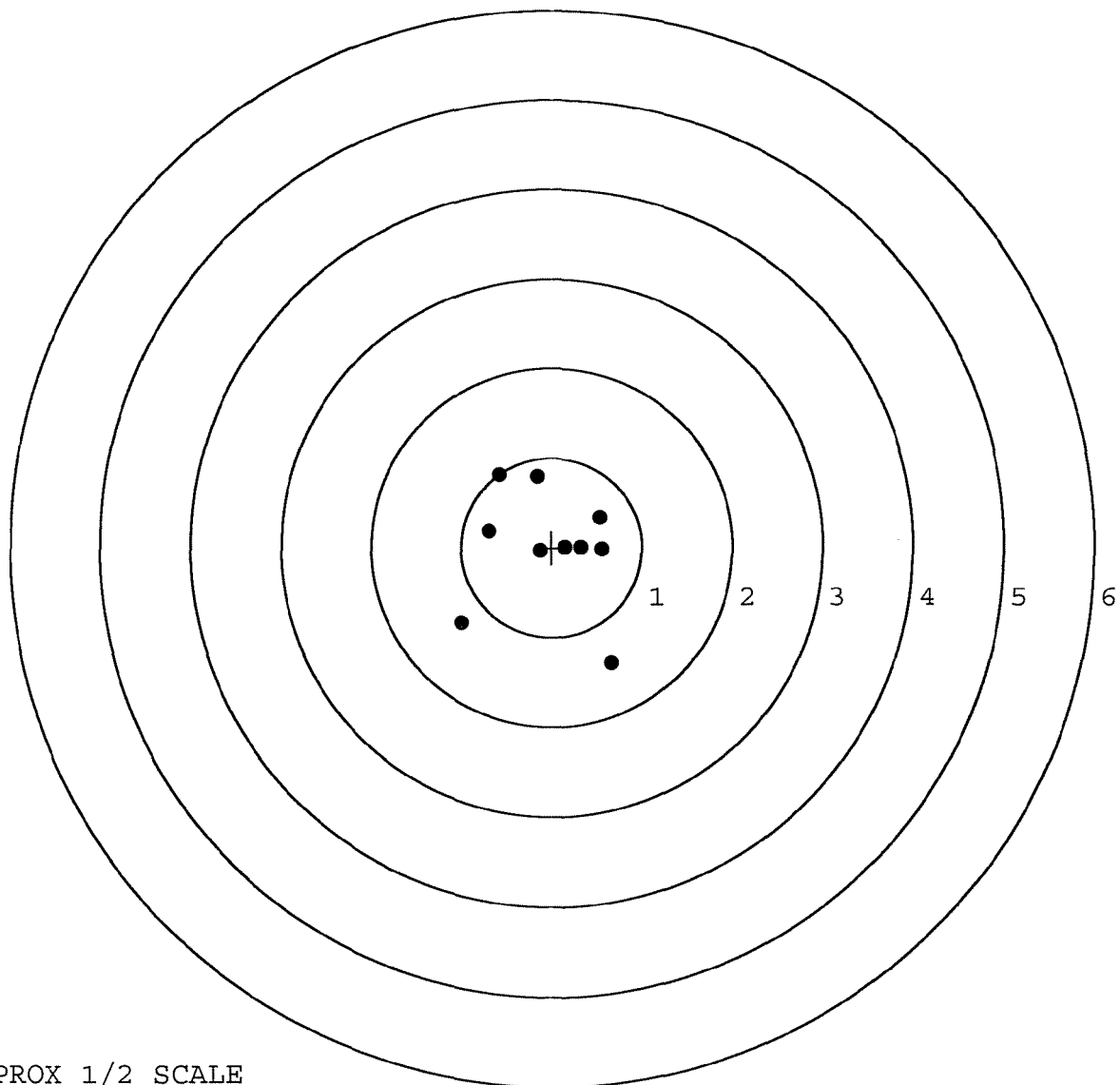
TARGET APPROX 1/2 SCALE

BARBER - M24 0010306

SERIAL NUMBER: C6225194. __0
TARGET NUMBER: 2
FILE DATE: 11/18/2004
FILE TIME: 10:01

POINT#	X	Y
1:	0.673	-1.293
2:	-0.995	-0.853
3:	0.539	0.339
4:	-0.159	0.789
5:	-0.580	0.807
6:	-0.699	0.175
7:	-0.131	-0.035
8:	0.149	0.001
9:	0.324	-0.004
10:	0.555	-0.024

X CENTROID: -0.032
Y CENTROID: -0.010
POA TO CENTROID: 0.034
HORZ SPREAD: 1.668
VERT SPREAD: 2.100
GROUP SPREAD: 2.445
MIN RADIUS: 0.102
MAX RADIUS: 1.464
MEAN RADIUS: 0.712
IN 1 IN DIAMETER: 3
IN 2 IN DIAMETER: 8
in 3 IN DIAMETER: 10



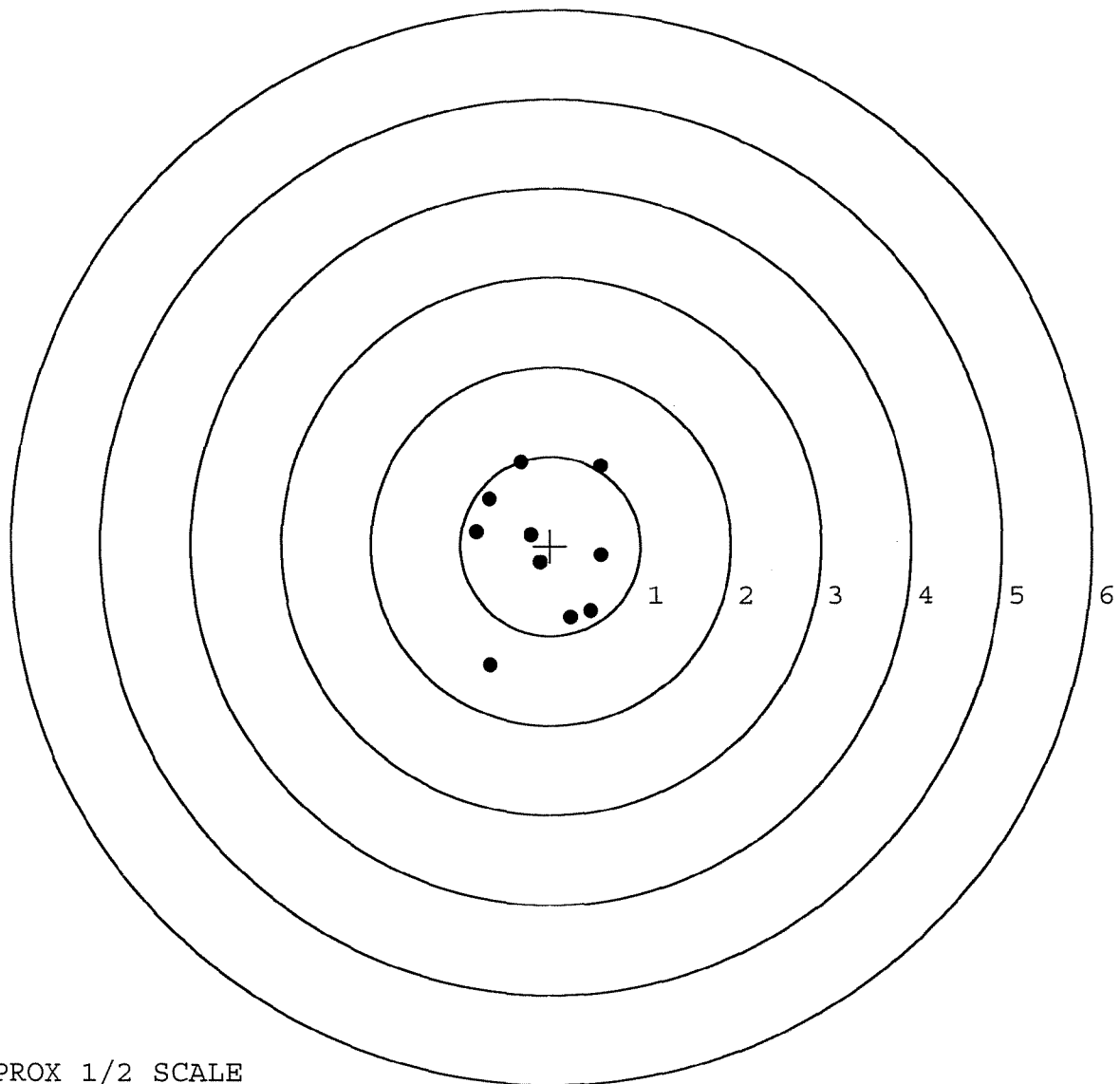
TARGET APPROX 1/2 SCALE

BARBER - M24 0010307

SERIAL NUMBER: C6225194. 0
TARGET NUMBER: 3
FILE DATE: 11/18/2004
FILE TIME: 10:01

POINT#	X	Y
1:	0.230	-0.803
2:	0.449	-0.726
3:	-0.673	-1.336
4:	0.564	-0.103
5:	0.557	0.897
6:	-0.116	-0.187
7:	-0.217	0.121
8:	-0.825	0.149
9:	-0.686	0.518
10:	-0.332	0.939

X CENTROID: -0.105
Y CENTROID: -0.053
POA TO CENTROID: 0.118
HORZ SPREAD: 1.389
VERT SPREAD: 2.275
GROUP SPREAD: 2.549
MIN RADIUS: 0.134
MAX RADIUS: 1.403
MEAN RADIUS: 0.785
IN 1 IN DIAMETER: 2
IN 2 IN DIAMETER: 7
in 3 IN DIAMETER: 10



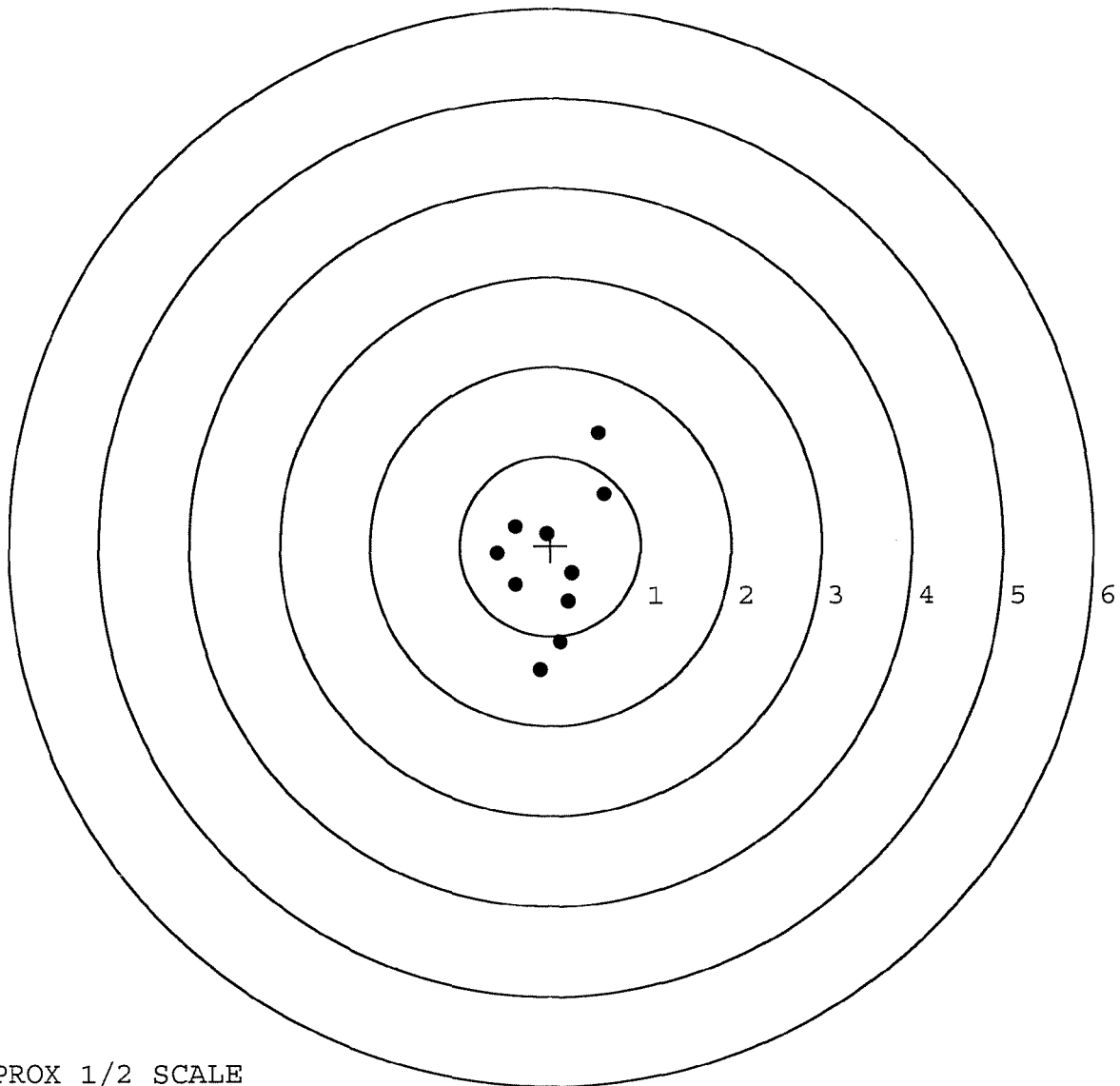
TARGET APPROX 1/2 SCALE

BARBER - M24 0010308

SERIAL NUMBER: C6225194. __0
TARGET NUMBER: 4
FILE DATE: 11/18/2004
FILE TIME: 10:01

POINT#	X	Y
1:	-0.109	-1.386
2:	0.112	-1.072
3:	0.204	-0.619
4:	0.246	-0.302
5:	0.596	0.576
6:	0.529	1.261
7:	-0.041	0.133
8:	-0.392	0.210
9:	-0.585	-0.088
10:	-0.380	-0.437

X CENTROID: 0.018
Y CENTROID: -0.172
POA TO CENTROID: 0.173
HORZ SPREAD: 1.181
VERT SPREAD: 2.647
GROUP SPREAD: 2.723
MIN RADIUS: 0.262
MAX RADIUS: 1.522
MEAN RADIUS: 0.730
IN 1 IN DIAMETER: 4
IN 2 IN DIAMETER: 8
in 3 IN DIAMETER: 9



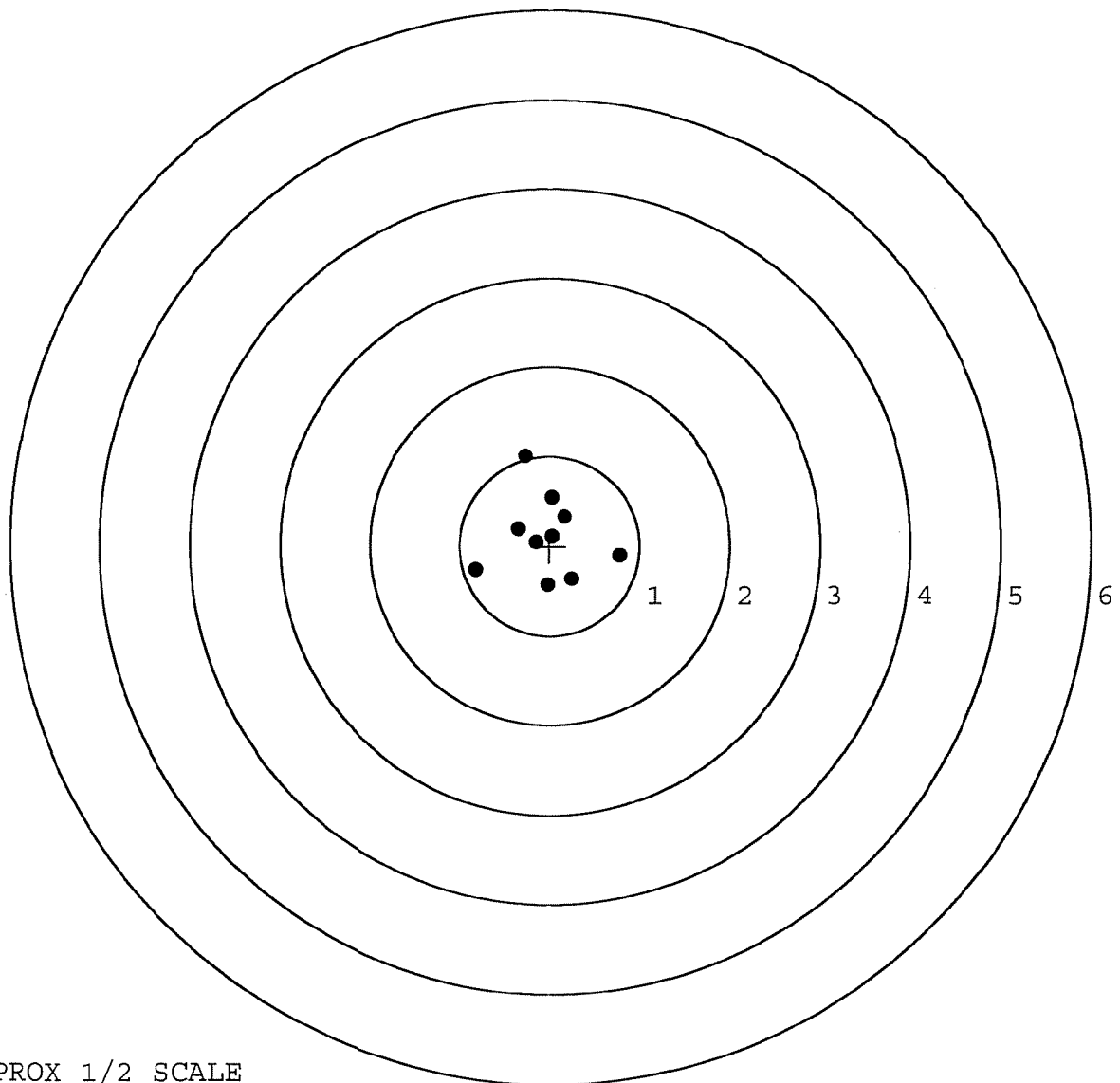
TARGET APPROX 1/2 SCALE

BARBER - M24 0010309

SERIAL NUMBER: C6225194.____0
TARGET NUMBER: 5
FILE DATE: 11/18/2004
FILE TIME: 10:01

POINT#	X	Y
1:	0.777	-0.113
2:	-0.272	1.001
3:	-0.821	-0.268
4:	-0.352	0.189
5:	0.029	0.545
6:	0.170	0.329
7:	0.031	0.107
8:	-0.152	0.046
9:	-0.024	-0.437
10:	0.249	-0.370

X CENTROID: -0.036
Y CENTROID: 0.103
POA TO CENTROID: 0.109
HORZ SPREAD: 1.598
VERT SPREAD: 1.438
GROUP SPREAD: 1.530
MIN RADIUS: 0.068
MAX RADIUS: 0.928
MEAN RADIUS: 0.501
IN 1 IN DIAMETER: 5
IN 2 IN DIAMETER: 10
in 3 IN DIAMETER: 10



TARGET APPROX 1/2 SCALE

M-24 INSPECTION CHECKLIST
CONTRACT #: DAAE-20-02-D-0127

R & E NUMBER	87074		
SERIAL NUMBER	C60225194		
LOG-IN DATE	10-27-04		
INSPECT AND VERIFY:			
OPERATION #	OPERATION NAME	DATE	INITIAL
550	DIS-ASSEMBLE GUN	10-30-04	RTL
560 A	RE-BARREL	11-2-04	RTL
B	DRILL AND TAP	11-4-04	TRW
575	ASSEMBLE	11-2-04	RTL
600	PROOF	11-3-04	RTL
605	CHECK HEADSPACE	11-3-04	RTL
610	DIS-ASSEMBLE GUN	11-4-04	RTL
612	MAGNAFLUX	OPERATOR	
615	ROLLMARK CALIBER	11/5/04	AS
618	ROTO-BLAST	11-6-04	UB
620	APPLY COATINGS	11/9	HA
625 A	FINAL ASSEMBLY	11-15-04	RTL
B	TRIGGER PULL TEST	N/A	N
C	SAFETY "ON" FORCE		
D	SAFETY "OFF" FORCE		
E	FIRING PIN INDENT		
640	TARGET	11-17-04	TRW
655	FINAL INSPECT	11-18-04	TC
660	PACK	11-20-04	RA
		SHIP DATE	
		QAR INSPECTION DATE	

CONTRACT # DAAA21-87-C-0086

GUN SERIAL # C6225194

OP. #	OP. NAME	READINGS	DATE	INIT
575 & 580	Assemble Action and Stock	4 12	89	RW
600	Proof	4 12	89	RW
607	Check Headspace	4 12	89	RW
610	Dis-assemble Gun	4 12	89	RW
612	Magnaflux Barrel Action		4/13/89	KCR
	Magnaflux Bolt		4/14/89	KCR
615	Rollmark Caliber		4/15/89	G.S.
617	Drill and Tap Sight Holes	4 14	89	JB
618	Polish Barrel RB	4 14	89	BT
620	Apply Coatings (Barrel Action)		4/20/89	TSA
	Apply Coating (Bolt)			
625	Final Assembly A) Clean inside of Bolt Assembly		5/1/89	RW
	B) Inspect Rear Firing Pin Hole for Chamfer in Bolt Head		5/1/89	RW
	C) Inspect Ejector Hole for Chamfer		5/1/89	RW
	D) Oil Firing Pin Ass'y		5/1/89	RW
	E) Adjust Trigger Pull to Min Setting and Stake		5/1/89	RW

op. #	OP. NAME	READINGS			DATE	INIT
625 cont.	F) Safety On Force	6	6	6	5/2/89	JU
	G) Safety Off Force	3	3	3	5/2/89	JU
	H) Trigger Pull Test & Retainability				5/2/89	JU
	I) Firing Pin Indent	.020.5	.020.5	.020.5	5/2/89	JU
	J) Assemble Stock				5/3/89	RW
	K) Assemble Swivel Studs				15 May 89	JU
	L) Attach Front and Rear Sight Assemblies				5/3/89	RW
	M) Iron Sight Alignment				5/3/89	RW
	N) Detach Front & Rear Sights & place in numbered container				5/3/89	RW
	O) Attach Scope to Rifle				5/3/89	JU
	P) Detach & Attach Scope 20 Times				5/3/89	JU
640	Gallery Target & Test	68 R	84 L		5/4/89	DH
	A) Time				5/4/89	DH
	B) Malfunctions				5/4/89	DH
	C) Pierced Primers				5/4/89	DH
	D) Optical Clarity of Scope				5/4/89	DH
645	Inspect for Live Ammo				5/4/89	DH
655	Final Inspection					
	A) Headspace				15 May 89	JU
	B) Trigger Pull	2.73	2.77	2.61	15 May 89	JU
	C) Function				15 May 89	JU
660	Pack				26 June 89	JU

SWS TRIGGER PULL TEST

BARBER - M24 0010313

AVERAGE PULL FORCE BETWEEN
INITIAL & CYCLE TESTS

2.50# ± .50#

3.00# ± .75#

4.00# ± 1.00#

SERIAL NO. 5194

DATE 22 Mar 90

TESTER JS

	2.50# INITIAL	2.50# AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50#		COMMENTS
PULL #1	238	247		250	MIN. SETTING, NO AVG. OF 5 READINGS ACCEPT- ABLE LESS THAN 2#
PULL #2	239	234		250	
PULL #3	239	238		258	
PULL #4	240	247		247	
PULL #5	235	247		250	
TOTAL	1191	1215		1255	
AVG.	238.2	243		251	

	3.00# INITIAL	3.00# AFTER 20 CYCLES		COMMENTS
PULL #1	332	329		
PULL #2	307	329		
PULL #3	325	327		
PULL #4	329	336		
PULL #5	328	333		
TOTAL	1621	1654		
AVG.	3.242	3308		

	4.00# INITIAL	4.00# AFTER 20 CYCLES	MAX SETTING GREATER THAN 4#	RESET TO 4# FOR TARGET & ACCURACY
PULL #1	400	411		
PULL #2	405	405		
PULL #3	418	412		
PULL #4	400	413		
PULL #5	410	404		
TOTAL	2033	2045		
AVG.	4.066	4.09		

CENTROIDAL DISTANCE CALCULATIONS
FOR RIFLE # C6225194
4 May 1989

CENTROIDAL DISTANCES

0 TO	1	.64549
1 TO	2	.681878
1 TO	3	.692701
1 TO	4	.514844
1 TO	5	.553112

1
5 1/2 <----POA

THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: .3644
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: .3154
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .481938
THE AMR FOR THIS RIFLE IS: .935

4 May 1989

FILE:/PATTERNING/CENTERFIRE_PATT/08225194

CENTERFIRE PATTERNS

1

POA

1 in circle

2 in circle

3 in circle

OF SHOTS = 10

IN CIR

1 in = 3

2 in = 7

3 in = 9

HS = 2.092

VS = 2.611

GS = 2.890

CENTROID #

PATTERN #	1	2	3
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.109	1.059	1.058
MINIMUM X	-.983	-.860	-.861
MAXIMUM Y	1.476	1.350	.935
MINIMUM Y	-1.135	-1.006	-.837
CENTROID X	.076	-.047	-.046
CENTROID Y	.641	.767	.598
POA TO CENTROID in.	.645	.768	.600
MIN RADIUS	.103	.085	.095
MEAN RADIUS	.837	.743	.664
MAX RADIUS	1.587	1.350	1.201
HORIZONTAL SPREAD	2.092	1.919	1.919
VERTICAL SPREAD	2.611	2.356	1.772
EXTREME SPREAD	2.890	2.506	2.068
NUMBER IN ONE INCH CIRCLE =		3	
NUMBER IN TWO INCH CIRCLE =		7	
NUMBER IN THREE INCH CIRCLE =		9	

4 May 1989

FILE:/PATTERNING/CENTERFIRE_PATT/08285194

CENTERFIRE PATTERNS

2

POA

1 in circle

2 in circle

3 in circle

CENTROID *

OF SHOTS = 10

IN CIR

1 in = 1

2 in = 4

3 in = 8

HS = 1.590

VS = 3.007

GS = 3.070

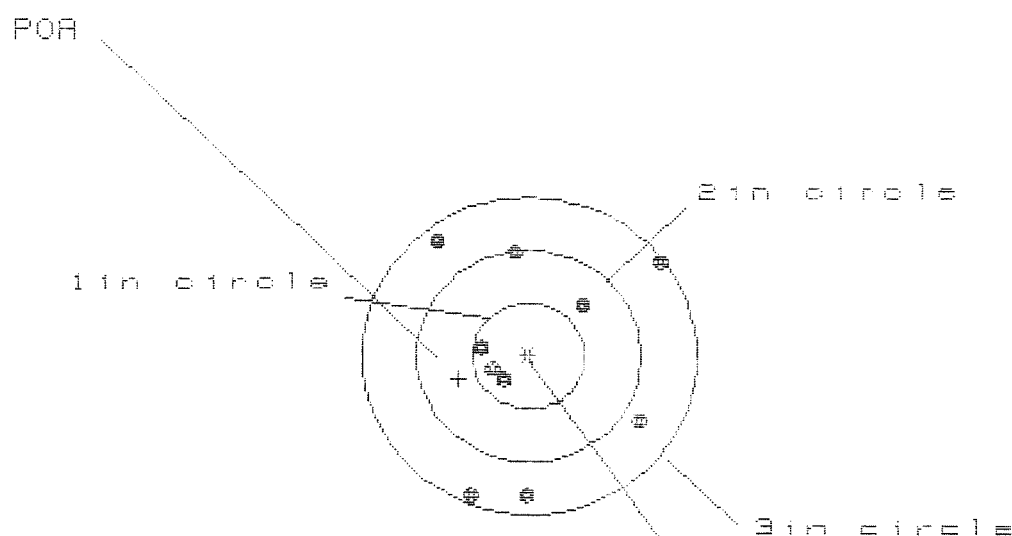
PATTERN #	:	2
SHOTS (BEST OF)	:	10
MAXIMUM X	:	.836
MINIMUM X	:	-.754
MAXIMUM Y	:	1.566
MINIMUM Y	:	-1.441
CENTROID X	:	.695
CENTROID Y	:	.355
POA TO CENTROID in.	:	.781
MIN RADIUS	:	.272
MEAN RADIUS	:	1.005
MAX RADIUS	:	1.653
HORIZONTAL SPREAD	:	1.590
VERTICAL SPREAD	:	3.007
EXTREME SPREAD	:	3.070
NUMBER IN ONE INCH CIRCLE	=	1
NUMBER IN TWO INCH CIRCLE	=	4
NUMBER IN THREE INCH CIRCLE	=	9

4 May 1989

FILE:/PATTERNING/CENTERFIRE_PATT/C8225154

CENTERFIRE PATTERNS

3



OF SHOTS= 10

IN CIR

1 in = 3

2 in = 4

3 in = 9

HS= 2.042

VS= 2.449

GS= 2.851

PATTERN #	3
SHOTS (BEST OF)	10
MAXIMUM X	1.208
MINIMUM X	-.834
MAXIMUM Y	1.105
MINIMUM Y	-1.344
CENTROID X	.623
CENTROID Y	.216
POA TO CENTROID in.	.659
MIN RADIUS	.348
MEAN RADIUS	.965
MAX RADIUS	1.507
HORIZONTAL SPREAD	2.042
VERTICAL SPREAD	2.449
EXTREME SPREAD	2.851
NUMBER IN ONE INCH CIRCLE =	3
NUMBER IN TWO INCH CIRCLE =	4
NUMBER IN THREE INCH CIRCLE =	9

4 May 1989

FILE:/PATTERNING/CENTERFIRE_PATT/C8225194

CENTERFIRE PATTERNS

4

POA

1 in circle =

2 in circle =

3 in circle =

OF SHOTS = 10

IN CIR

1 in = 3

2 in = 7

3 in = 8

HS = 2.690

VS = 2.498

GS = 3.097

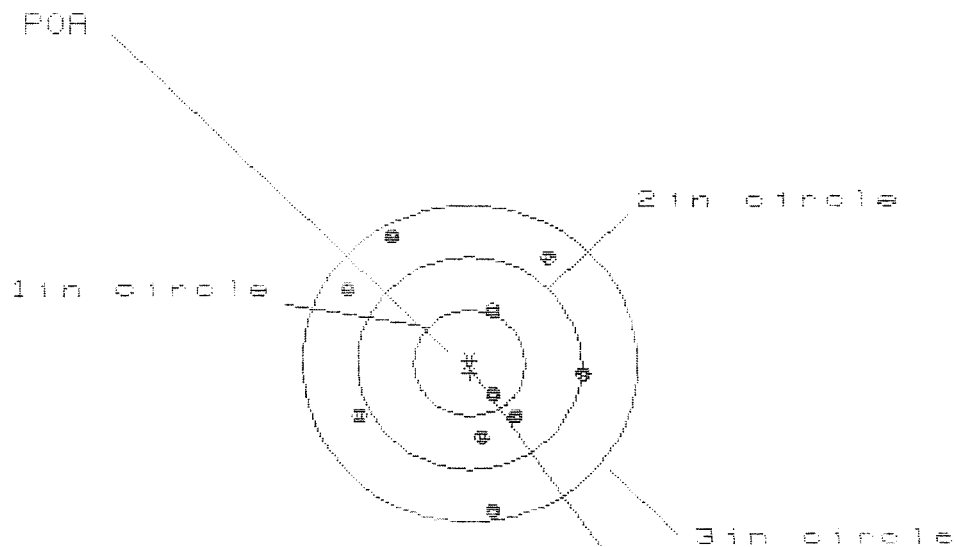
CENTROID #

PATTERN #	4		
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.026	.936	.717
MINIMUM X	-1.664	-1.754	-.935
MAXIMUM Y	.849	.665	.720
MINIMUM Y	-1.649	-.772	-.718
CENTROID X	.434	.524	.743
CENTROID Y	.271	.455	.401
POA TO CENTROID in.	.512	.694	.844
MIN RADIUS	.287	.289	.065
MEAN RADIUS	.899	.761	.597
MAX RADIUS	1.836	1.807	1.016
HORIZONTAL SPREAD	2.690	2.690	1.652
VERTICAL SPREAD	2.498	1.437	1.437
EXTREME SPREAD	3.097	2.700	1.720
NUMBER IN ONE INCH CIRCLE =		3	
NUMBER IN TWO INCH CIRCLE =		7	
NUMBER IN THREE INCH CIRCLE =		8	

4 May 1989

FILE:/PATTERNING/CENTERFIRE_PATT/08285184

CENTERFIRE PATTERNS # 5



OF SHOTS= 10

IN CIR

1in = 1

2in = 4

3in = 10

HS= 2.094

VS= 2.554

GS= 2.740

CENTROID #

PATTERN #	:	5		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.044	.962	.983
MINIMUM X	:	-1.050	-1.132	-1.111
MAXIMUM Y	:	1.200	1.180	1.028
MINIMUM Y	:	-1.354	-1.221	-.742
CENTROID X	:	-.006	.076	.055
CENTROID Y	:	.094	-.039	.113
POA TO CENTROID in.	:	.094	.085	.126
MIN RADIUS	:	.391	.234	.378
MEAN RADIUS	:	.969	.885	.856
MAX RADIUS	:	1.410	1.423	1.319
HORIZONTAL SPREAD	:	2.094	2.094	2.094
VERTICAL SPREAD	:	2.554	2.401	1.770
EXTREME SPREAD	:	2.740	2.457	2.255
NUMBER IN ONE INCH CIRCLE	=		1	
NUMBER IN TWO INCH CIRCLE	=		4	
NUMBER IN THREE INCH CIRCLE	=		10	