

*INCLUDES 1 IN CHAMBER

C6702832

UPC



0 47700 25716 7

5716

ORDER NO.

BARREL LENGTH

CAPACITY*

Repair Inquiry

Repair Number: **RE00135886**

Serial: C6702832 Model M24 SWS Center Fire
Caliber: 7.62 NATO Produced: 10/19/1992

Repairman:

Status:

Closed 10/26/2007 8:26:35 AM

Verify Repair

Address Information

Customer:

☒ Received From

Return To:

☐ Received From

Name: **US ARDEC RDECOM**
US ARDEC RDECOM

Address 1: **ROUTE 15 (973-724-4031)**
ROUTE 15 (973-724-4031)

Address 2: **BLDG. 34 NORTH**

PO Box:

BLDG. 34 NORTH

PO Box:

City: **PICATINNY ARSENAL**
PICATINNY ARSENAL

State: **NJ**

Zip Code: **07806**

Country: **US**

State: **NJ**

Zip Code: **07806**

Country: **US**

FFL:

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

Phone: **NN**

Fax:

Email:

Comments:

Received Condition
Fair

Condition
Notes:

CSR
Notes:

Accessories Received

Code	Desc	Qty
A007	With Stud	2
A017	Scope Base	1
A057	Fit and Rear Sgt Base	1

Repair Search
Refresh
Close

nagletj

10/29/2007

10:57 AM

CAPS

NUM

INS

SCRL



10:57 AM

Serial Number: **C6702832**
Model: **M24 SWS**

RE00135886

SNIPER WEAPON SYSTEM - UNIQUE STATISTICAL INFORMATION

FIREARM SERIAL NUMBER / DATASET NAME: C6702832.___0

FILE DATE AND TIME: 12/13/2007 13:14

THE FOLLOWING DATA IS ALL REPORTED IN UNITS OF INCHES

The Average X Centroid of the Five Target Set:	-0.069
The Average Y Centroid of the Five Target Set:	0.083
The Average Point of Impact of the Five Target Set:	0.108
The Average Mean Radius of the Five Target Set:	0.791
The Distance from POA to Centroid Target #1:	0.058
The Distance from Centroid Target #2 to Centroid Target #1:	0.057
The Distance from Centroid Target #3 to Centroid Target #1:	0.078
The Distance from Centroid Target #4 to Centroid Target #1:	0.072
The Distance from Centroid Target #5 to Centroid Target #1:	0.181

SERIAL NUMBER: C6702832. __0

TARGET NUMBER: 1

FILE DATE: 12/13/2007

FILE TIME: 13:14

X CENTROID: -0.020

Y CENTROID: 0.055

POA TO CENTROID: 0.058

HORZ SPREAD: 1.093

VERT SPREAD: 2.247

GROUP SPREAD: 2.395

MIN RADIUS: 0.126

MAX RADIUS: 1.376

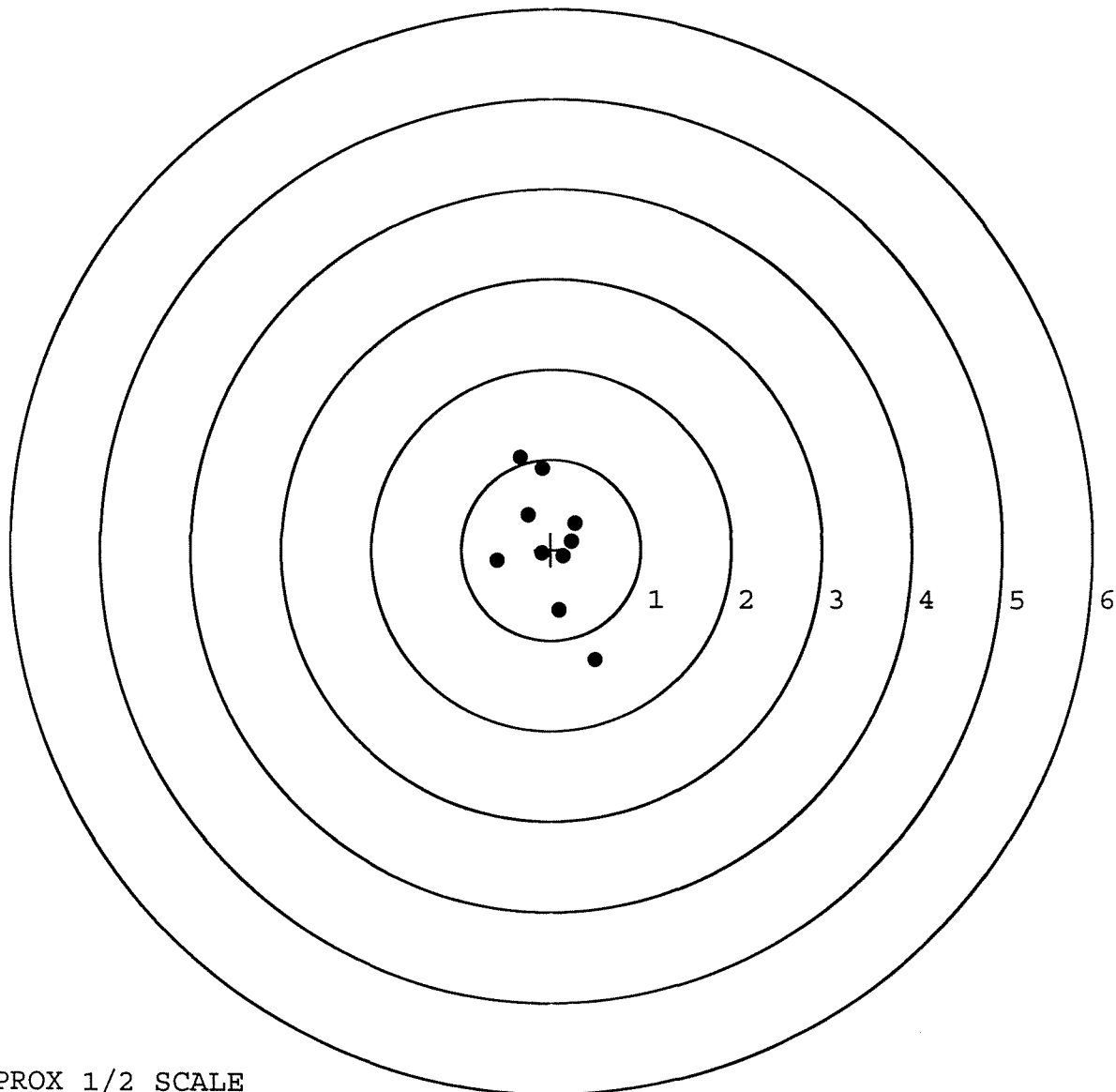
MEAN RADIUS: 0.594

IN 1 IN DIAMETER: 5

IN 2 IN DIAMETER: 8

in 3 IN DIAMETER: 10

POINT#	X	Y
1:	-0.097	0.895
2:	-0.342	1.023
3:	-0.260	0.383
4:	0.263	0.292
5:	0.137	-0.077
6:	-0.101	-0.042
7:	-0.605	-0.123
8:	0.488	-1.224
9:	0.088	-0.668
10:	0.229	0.090



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6702832. 0

TARGET NUMBER: 2

FILE DATE: 12/13/2007

FILE TIME: 13:14

X CENTROID: -0.072

Y CENTROID: 0.077

POA TO CENTROID: 0.106

HORZ SPREAD: 2.175

VERT SPREAD: 2.453

GROUP SPREAD: 2.456

MIN RADIUS: 0.239

MAX RADIUS: 1.368

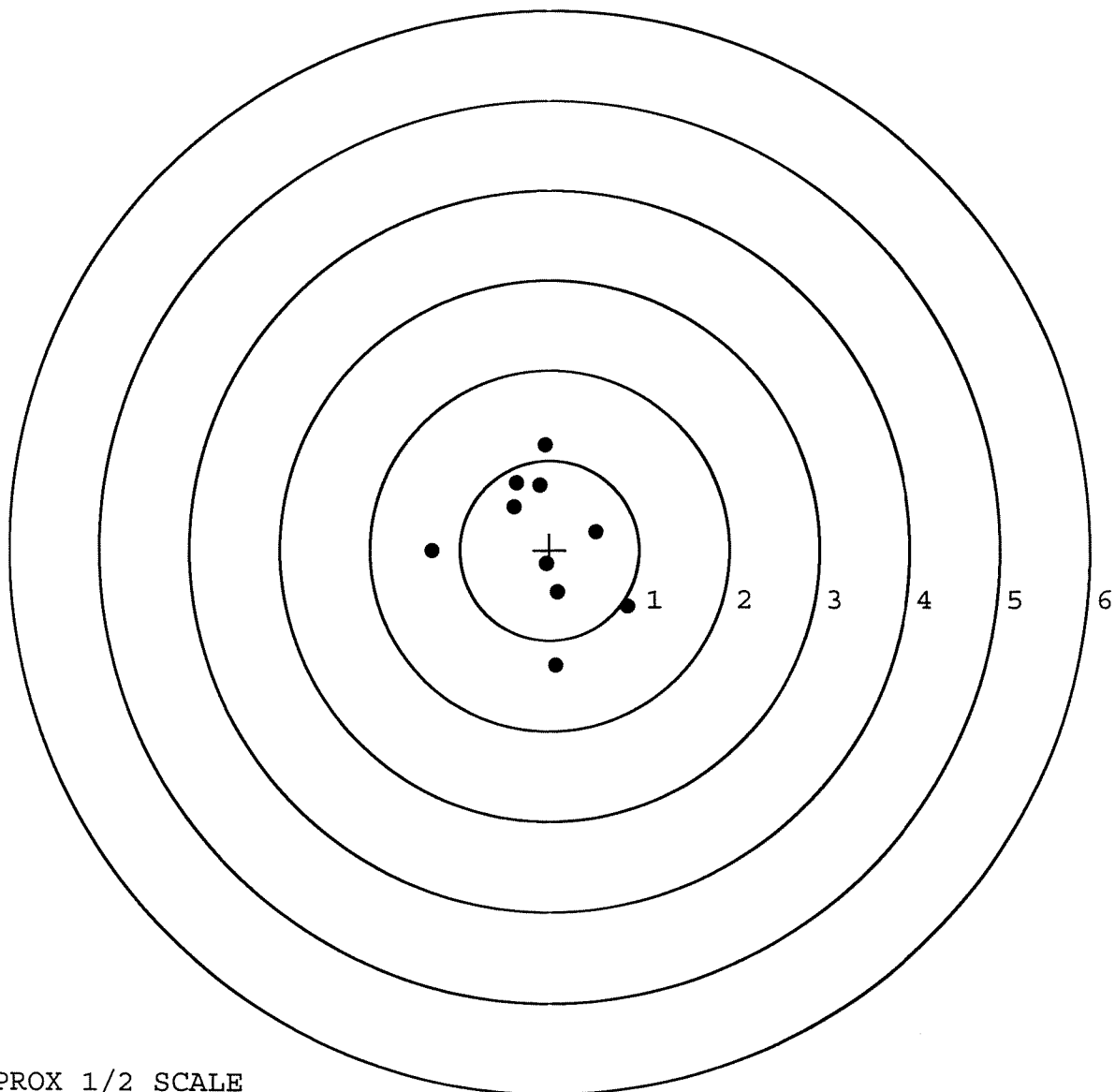
MEAN RADIUS: 0.819

IN 1 IN DIAMETER: 1

IN 2 IN DIAMETER: 6

in 3 IN DIAMETER: 10

POINT#	X	Y
1:	-0.047	1.170
2:	-0.108	0.723
3:	-0.397	0.481
4:	-1.308	-0.013
5:	0.070	-1.283
6:	0.867	-0.632
7:	0.517	0.205
8:	0.090	-0.468
9:	-0.038	-0.159
10:	-0.367	0.749



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6702832. __0

TARGET NUMBER: 3

FILE DATE: 12/13/2007

FILE TIME: 13:14

X CENTROID: -0.096

Y CENTROID: 0.036

POA TO CENTROID: 0.102

HORZ SPREAD: 1.813

VERT SPREAD: 2.143

GROUP SPREAD: 2.267

MIN RADIUS: 0.042

MAX RADIUS: 1.267

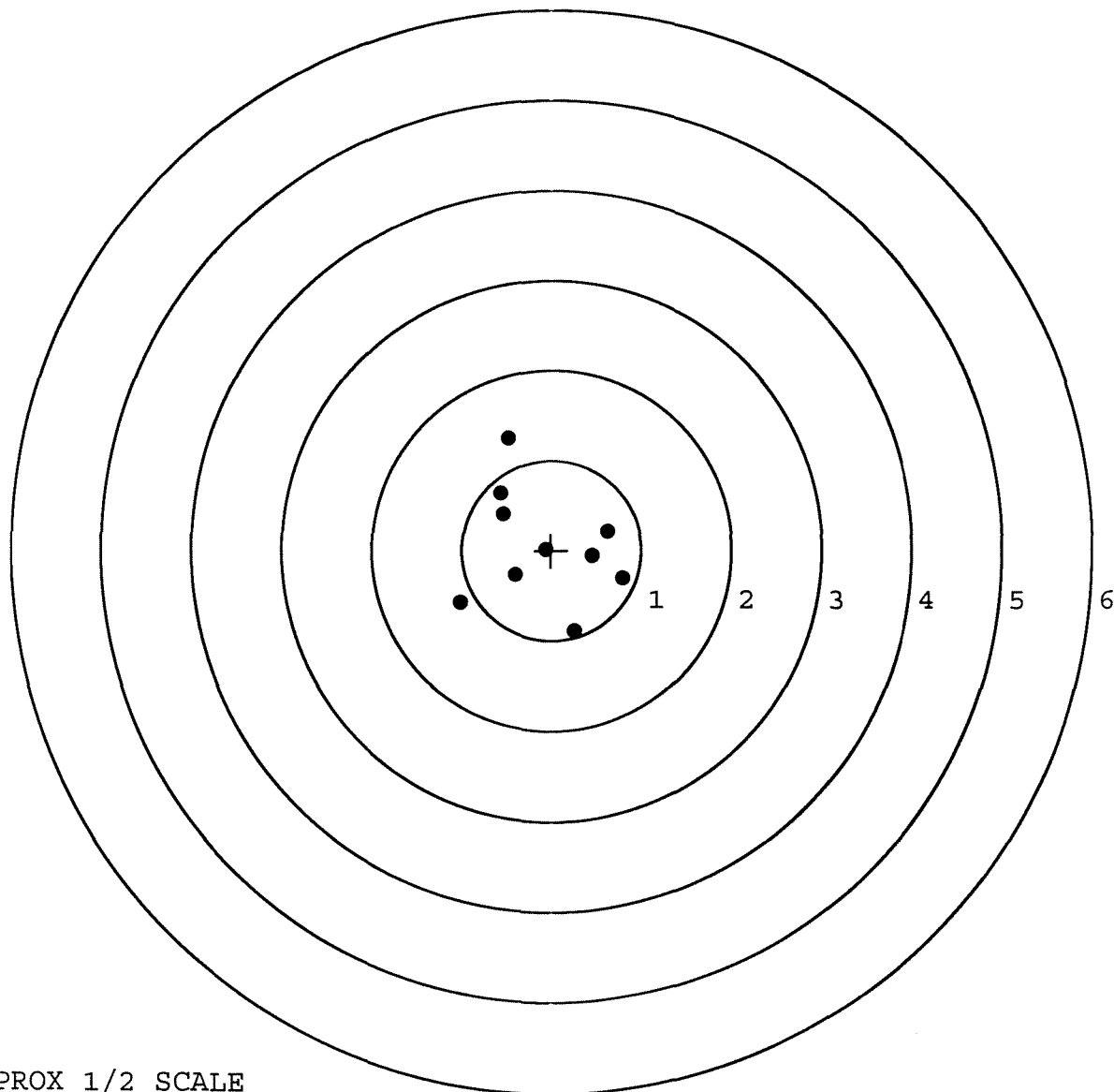
MEAN RADIUS: 0.747

IN 1 IN DIAMETER: 2

IN 2 IN DIAMETER: 7

in 3 IN DIAMETER: 10

POINT#	X	Y
1:	-0.484	1.241
2:	-0.573	0.636
3:	-0.543	0.405
4:	-1.019	-0.586
5:	-0.406	-0.275
6:	-0.062	0.010
7:	0.255	-0.902
8:	0.794	-0.320
9:	0.459	-0.063
10:	0.623	0.209

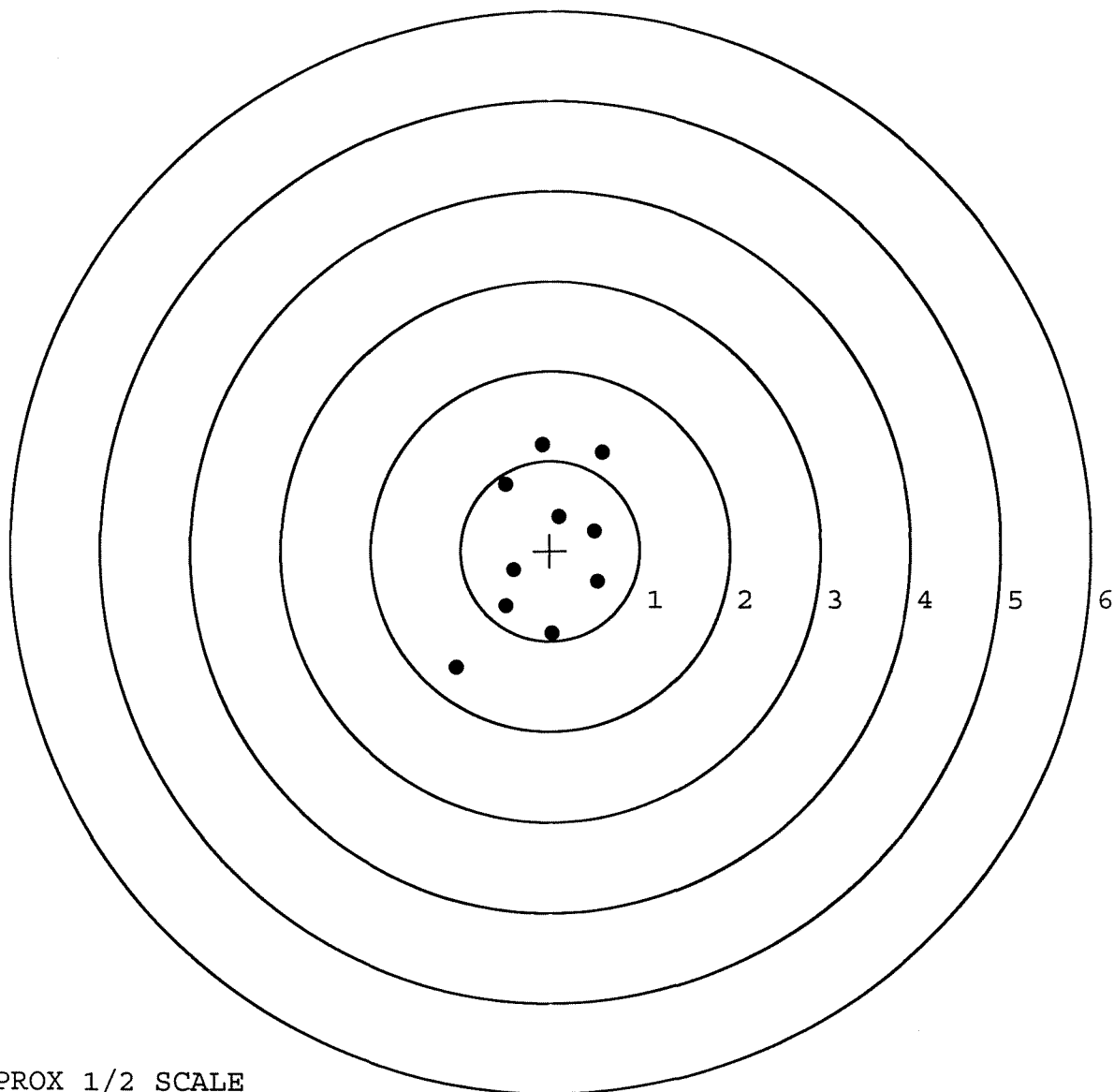


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6702832.____0
 TARGET NUMBER: 4
 FILE DATE: 12/13/2007
 FILE TIME: 13:14

X CENTROID: -0.083
 Y CENTROID: 0.019
 POA TO CENTROID: 0.085
 HORZ SPREAD: 1.629
 VERT SPREAD: 2.475
 GROUP SPREAD: 2.888
 MIN RADIUS: 0.399
 MAX RADIUS: 1.631
 MEAN RADIUS: 0.871
 # IN 1 IN DIAMETER: 2
 # IN 2 IN DIAMETER: 7
 # in 3 IN DIAMETER: 9

POINT#	X	Y
1:	0.581	1.090
2:	-0.090	1.180
3:	-0.499	0.736
4:	0.097	0.375
5:	0.488	0.215
6:	0.527	-0.352
7:	0.024	-0.926
8:	-0.412	-0.219
9:	-0.494	-0.614
10:	-1.048	-1.295



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6702832. __0

TARGET NUMBER: 5

FILE DATE: 12/13/2007

FILE TIME: 13:14

X CENTROID: -0.076

Y CENTROID: 0.227

POA TO CENTROID: 0.239

HORZ SPREAD: 1.746

VERT SPREAD: 2.603

GROUP SPREAD: 2.934

MIN RADIUS: 0.081

MAX RADIUS: 2.053

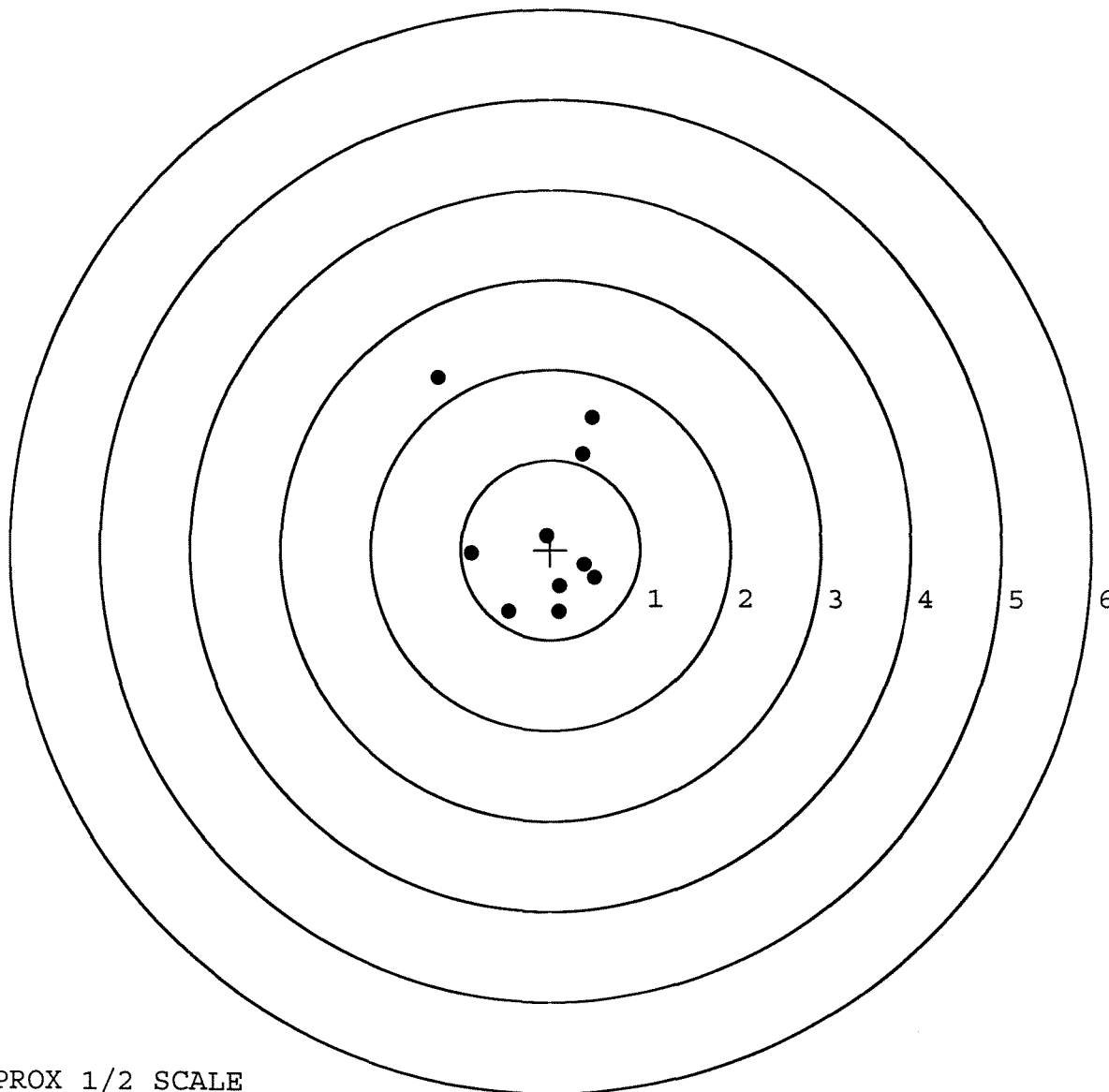
MEAN RADIUS: 0.927

IN 1 IN DIAMETER: 1

IN 2 IN DIAMETER: 7

in 3 IN DIAMETER: 9

POINT#	X	Y
1:	-1.255	1.908
2:	0.466	1.466
3:	0.354	1.066
4:	-0.885	-0.044
5:	-0.040	0.154
6:	-0.472	-0.695
7:	0.491	-0.315
8:	0.375	-0.167
9:	0.106	-0.410
10:	0.099	-0.695



TARGET APPROX 1/2 SCALE

M-24 INSPECTION CHECKLIST
CONTRACT #: DAAE-20-02-C-0149

R & E NUMBER		135886		
SERIAL NUMBER		C6702832		
LOG-IN DATE		10-26-07		
OPERATION #	OPERATION NAME		DATE	INITIAL
500	DIS-ASSEMBLE GUN		11-13-07	S.P.H.
505	RE-BARREL		11-27-07	S.P.H.
560	ASSEMBLE		11-27-07	S.P.H.
600	PROOF	MAGNA - FLUX	11-27-07	TRW
605	CHECK HEADSPACE	2007	11-27-07	TRW
610	DIS-ASSEMBLE GUN			
612	MAGNAFLUX	OPERATOR JB	12-04-07	JB
510	DRILL AND TAP		12-3-07	TRW
615	ROLLMARK CALIBER		12-3-07	CW
618	ROTO-BLAST		12-5-07	LY
620	APPLY COATINGS		12-8-07	CW
625	FINAL ASSEMBLY		12-12-07	RTZ
640	FUNCTION TEST AND	PASS FAIL	12-13-07	TRW
650	TARGET	PASS FAIL	12-13-07	TRW
	MALFUNCTION	CORRECTION		
	MALFUNCTION	CORRECTION		
	MALFUNCTION	CORRECTION		
	MALFUNCTION	CORRECTION	12-13-07	Fm
670	FINAL INSPECTION		1-2-08	RTZ
	A) HEADSPACE	PASS FAIL	1-2-08	RTZ
	B) TRIGGER PULL	+/- .5 LBS MIN 2.50 LBS MAX 4.0 LBS	2.49 2.51 2.48 2.48 2.48 12-14-07	DA
680	F) SAFETY ON FORCE	2 LBS MIN 10 LBS MAX	6.0 5.5 5.5 12-14-07	DA
	G) SAFETY OFF FORCE	2 LBS MIN	2.5 2.5 3.0 12-14-07	DA
	I) FIRING PIN INDENT	.020	.024 .023 .023 12-14-07	DA
690	PACK		12-13-08	Fm

GFM

CONTRACT # DAAA21-87-C-0086

GUN SERIAL #

C 670 2832

OP. #	OP. NAME	READINGS	DATE	INIT
575 & 580	Assemble Action and Stock		5/1/92	RW
600	Proof		5/1/92	RW
607	Check Headspace		5/1/92	RW
610	Dis-assemble Gun		5/1/92	RW
612	Magnaflux Barrel Action	MAY	5 1992	KCR
	Magnaflux Bolt	MAY	5 1992	KCR
615	Rollmark Caliber	MAY	5 1992	CS
617	Drill and Tap Sight Holes	MAY	5 1992	FB
618	Polish Barrel	MAY	5 1992	WB
620	Apply Coatings (Barrel Action)		6-10-92	WB
	Apply Coating (Bolt)			
625	Final Assembly			
	A) Clean inside of Bolt Assembly		6/13/92	RW
	B) Inspect Rear Firing Pin Hole for Chamfer in Bolt Head		6/13/92	RW
	C) Inspect Ejector Hole for Chamfer		6/13/92	RW
	D) Oil Firing Pin Ass'y		6/13/92	RW
	E) Adjust Trigger Pull to Min Setting and Stake		6/17/92	RW

Op. #	OP. NAME	READINGS					DATE	INIT
625 cont.	F) Safety On Force	7	5	5			6/17/92	RW
	G) Safety Off Force	3	2	2			6/17/92	RW
	H) Trigger Pull Test & Retainability						6/17/92	RW
	I) Firing Pin Indent	.022	.0215	.022			6/17/92	RW
	J) Assemble Stock						6/17/92	RW
	K) Assemble Swivel Studs							
	L) Attach Front and Rear Sight Assemblies							
	M) Iron Sight Alignment							
	N) Detach Front & Rear Sights & place in numbered container							
	O) Attach Scope to Rifle						6/17/92	RW
	P) Detach & Attach Scope 20 Times						6/17/92	RW
640	Gallery Target & Test						6-23-92	DH
	A) Time						6-23-92	DH
	B) Malfunctions						6-23-92	DH
	C) Pierced Primers						6-23-92	DH
	D) Optical Clarity of Scope						6-23-92	DH
645	Inspect for Live Ammo						6-24-92	DH
655	Final Inspection							
	A) Headspace						6/23/92	RW
	B) Trigger Pull	2.52	2.40	2.34	2.41	2.31	6/23/92	RW
	C) Function						6/23/92	RW
660	Pack							

SWS TRIGGER PULL TEST

AVERAGE PULL FORCE BETWEEN
INITIAL & CYCLE TESTS

2.50# ± .50#

3.00# ± .75#

4.00# ± 1.00#

SERIAL NO. C6702832

DATE 6/17/92

TESTER PW

	2.50# INITIAL	2.50# AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50#		COMMENTS
PULL #1	2.36	2.42	2.59	2.52	MIN. SETTING, NO AVG. OF 5 READINGS ACCEPT- ABLE LESS THAN 2#
PULL #2	2.38	2.43	2.36	2.40	
PULL #3	2.50	2.36	2.25	2.34	
PULL #4	2.52	2.40	2.34	2.41	
PULL #5	2.59	2.56	2.29	2.31	
TOTAL	12.35	12.17	11.83	11.98	
AVG.	2.47	2.43	2.37	2.40	

	3.00# INITIAL	3.00# AFTER 20 CYCLES		COMMENTS
PULL #1	3.14	3.27		
PULL #2	3.07	3.16		
PULL #3	3.18	3.22		
PULL #4	3.13	3.10		
PULL #5	3.22	3.09		
TOTAL	15.74	15.84		
AVG.	3.15	3.17		

	4.00# INITIAL	4.00# AFTER 20 CYCLES	MAX SETTING GREATER THAN 4#	RESET TO 4# FOR TARGET & ACCURACY
PULL #1	4.06	4.02		4.05
PULL #2	4.03	4.17		4.25
PULL #3	4.07	4.11		4.00
PULL #4	4.17	4.10		4.00
PULL #5	4.08	4.17		4.16
TOTAL	20.41	20.57		20.46
AVG.	4.08	4.11		4.09

CENTROIDAL DISTANCE CALCULATIONS
FOR RIFLE # C6702832
25 Jun 1992

CENTROIDAL DISTANCES

0	TO	1	.185011
1	TO	2	.43558
1	TO	3	.172447
1	TO	4	.220057
1	TO	5	.0792086

$\bar{x}^2$
134 <----POA

THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: .234
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: .0543
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .24350
THE AMR FOR THIS RIFLE IS: .9552

23 Jun 1992

FILE:/PATTERNING/CENTERFIRE_PATT/C6702832

CENTERFIRE PATTERNS # 1

POA

1 in circle

2 in circle

3 in circle

CENTROID #

OF SHOTS - 10

IN CIR

1 in = 3

2 in = 3

3 in = 7

HS = 3.217

VS = 2.786

GS = 3.233

PATTERN #	:	1		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	.616	1.439	1.223
MINIMUM X	:	-.601	-1.160	-.981
MAXIMUM Y	:	.504	1.532	1.527
MINIMUM Y	:	-.282	-1.254	-1.259
CENTROID X	:	.170	.347	.168
CENTROID Y	:	.073	.045	.050
POA TO CENTROID in.	:	.185	.350	.175
MIN RADIUS	:	.280	.240	.299
MEAN RADIUS	:	.128	1.078	1.008
MAX RADIUS	:	.620	1.554	1.528
HORIZONTAL SPREAD	:	3.217	2.599	2.204
VERTICAL SPREAD	:	2.786	2.786	2.786
EXTREME SPREAD	:	3.233	2.893	2.893
NUMBER IN ONE INCH CIRCLE	=		3	
NUMBER IN TWO INCH CIRCLE	=		3	
NUMBER IN THREE INCH CIRCLE	=		7	

23 Jun 1992

FILE:/PATTERNING/CENTERFIRE_PATT/C6702832

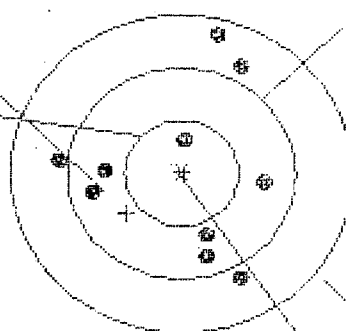
CENTERFIRE PATTERNS # 2

POA

1 in circle

2 in circle

3 in circle



CENTROID #

OF SHOTS - 2

IN CIR

1 in = 1

2 in = 6

3 in = 10

HS = 1.773

VS = 2.273

GS = 2.283

PATTERN #

2

SHOTS (BEST OF)

MAXIMUM X

MINIMUM X

MAXIMUM Y

MINIMUM Y

CENTROID X

CENTROID Y

POA TO CENTROID in.

MIN RADIUS

MEAN RADIUS

MAX RADIUS

HORIZONTAL SPREAD

VERTICAL SPREAD

EXTREME SPREAD

NUMBER IN ONE INCH CIRCLE

NUMBER IN TWO INCH CIRCLE

NUMBER IN THREE INCH CIRCLE

10

9

8

.726

.760

.832

-1.047

-1.013

-.941

.274

1.153

.575

.999

-.857

-.713

.479

.445

.373

.380

.238

.094

.611

.505

.385

.291

.436

.409

.863

.800

.725

.311

1.289

1.010

.773

1.773

1.773

2.273

2.010

1.288

2.283

2.010

1.900

1

6

10

23 Jun 1992

FILE:/PATTERNING/CENTERFIRE_PATT/C6702832

CENTERFIRE PATTERNS # 3

POA

1 in circle

2 in circle

3 in circle

CENTROID

OF SHOTS- 10

IN CIR

1 in = 1

2 in = 4

3 in = 7

HS= 2.554

VS= 2.982

GS= 3.658

PATTERN #

3

SHOTS (BEST OF)

10

9

8

MAXIMUM X : .378

1.270

1.401

MINIMUM X : -1.176

-1.284

-1.153

MAXIMUM Y : .415

1.241

1.087

MINIMUM Y : -1.567

-1.241

-1.086

CENTROID X : .127

.235

.104

CENTROID Y : .094

.080

-.075

POA TO CENTROID in. : .158

.248

.128

MIN RADIUS : .395

.190

.392

MEAN RADIUS : 1.190

1.073

1.028

MAX RADIUS : 1.840

1.785

1.584

HORIZONTAL SPREAD : 2.554

2.554

2.554

VERTICAL SPREAD : 2.982

2.482

2.173

EXTREME SPREAD : 3.658

3.405

2.687

NUMBER IN ONE INCH CIRCLE =

1

NUMBER IN TWO INCH CIRCLE =

4

NUMBER IN THREE INCH CIRCLE =

7

23 Jun 1992

FILE:/PAT/TERNING/CENTERFIRE_PATT/C6702832

CENTERFIRE PATTERNS # 4

POA

1in circle

2in circle

3in circle

CENTROID *

OF SHOTS - 10

IN CIR

1in = 3

2in = 7

3in = 10

HS= 1.849

VS= 2.360

GS= 2.366

PATTERN #	4	9	8
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.856	1.844	.826
MINIMUM X	-.793	-.805	-.674
MAXIMUM Y	1.346	.654	.660
MINIMUM Y	-.814	-.865	-.859
CENTROID X	.298	.310	.179
CENTROID Y	.106	-.255	-.261
POA TO CENTROID in.	.316	.401	.317
MIN RADIUS	.118	.224	.259
MEAN RADIUS	.741	.655	.593
MAX RADIUS	1.350	1.045	1.057
HORIZONTAL SPREAD	1.849	1.849	1.500
VERTICAL SPREAD	2.360	1.519	1.519
EXTREME SPREAD	2.366	1.925	1.808
NUMBER IN ONE INCH CIRCLE	= 3		
NUMBER IN TWO INCH CIRCLE	= 7		
NUMBER IN THREE INCH CIRCLE	= 10		

23 Jun 1992

FILE:/PATTERNING/CENTERFIRE_PATT/06702832

CENTERFIRE PATTERNS

5

POA

1 in circle

2 in circle

3 in circle

CENTROID *

OF SHOTS- 10

IN CIR

1 in - 3

2 in - 6

3 in - 9

HS- 2.033

VS- 2.151

GS- 2.715

PATTERN #

5

SHOTS (BEST OF)

10

9

8

MAXIMUM X

:

.964

.845

.800

MINIMUM X

:

-.069

-.474

-.511

MAXIMUM Y

:

1.263

1.400

1.137

MINIMUM Y

:

-.888

-.751

-.576

CENTROID X

:

.113

.232

.269

CENTROID Y

:

.018

-.119

-.294

POA TO CENTROID in.

:

.114

.261

.399

MIN RADIUS

:

.116

.074

.159

MEAN RADIUS

:

.854

.736

.621

MAX RADIUS

:

1.635

1.431

1.395

HORIZONTAL SPREAD

:

2.033

1.319

1.319

VERTICAL SPREAD

:

2.151

2.151

1.713

EXTREME SPREAD

:

2.715

2.200

2.125

NUMBER IN ONE INCH CIRCLE =

3

NUMBER IN TWO INCH CIRCLE =

6

NUMBER IN THREE INCH CIRCLE =

9