

C6225108

MODEL 700™ M24

Model **SMS**™

Action _____

Barrel Length _____

Capacity _____

Order No. **5715**

*Includes 1 in chamber.



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: RE00137979

Serial: C6225108 Model M24 SWS Center Fire
Caliber: 7.62 NATO Produced: 06/21/1989

Repairman:

Status:

New 12/5/2007 9:40:36 AM

Verify Repair

Address Information

Customer:

☒ Received From

Return To:

☐ Received From

Name: ACO 3-1 SFG (A)

ACO 3-1 SFG (A)

Address 1:

Address 2:

PO Box:

PO Box:

City: FORT LEWIS

FORT LEWIS

State: WA

Zip Code: 98433

Country: US

State: WA

Zip Code: 98433

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	3
A010	Hard Case	1
A017	Scope Base	1
D000	FRT BASE	1

Repair Search

Refresh

Close

naglej

12/6/2007

10:16 AM

C4PS

NUM

INS

SCFL

start

6 Mi...

8 Int...

Part S...

Arms ...

Micros...

Stock ...

10:16 AM

Serial Number:

C6225108

Model: M24 SWS



RE00137979

SNIPER WEAPON SYSTEM - UNIQUE STATISTICAL INFORMATION

FIREARM SERIAL NUMBER / DATASET NAME: C6225108.__0
FILE DATE AND TIME: 01/15/2008 09:40

THE FOLLOWING DATA IS ALL REPORTED IN UNITS OF INCHES

The Average X Centroid of the Five Target Set:	0.032
The Average Y Centroid of the Five Target Set:	0.022
The Average Point of Impact of the Five Target Set:	0.039
The Average Mean Radius of the Five Target Set:	0.575
The Distance from POA to Centroid Target #1:	0.114
The Distance from Centroid Target #2 to Centroid Target #1:	0.100
The Distance from Centroid Target #3 to Centroid Target #1:	0.176
The Distance from Centroid Target #4 to Centroid Target #1:	0.185
The Distance from Centroid Target #5 to Centroid Target #1:	0.096

SERIAL NUMBER: C6225108.___0

TARGET NUMBER: 1

FILE DATE: 01/15/2008

FILE TIME: 09:40

POINT#	X	Y
1:	0.840	-0.303
2:	1.112	-0.192
3:	0.946	0.021
4:	0.585	0.062
5:	0.234	-0.096
6:	-0.063	-0.504
7:	0.083	0.257
8:	-0.407	0.271
9:	-1.033	0.411
10:	-1.156	0.096

X CENTROID: 0.114

Y CENTROID: 0.002

POA TO CENTROID: 0.114

HORZ SPREAD: 2.268

VERT SPREAD: 0.915

GROUP SPREAD: 2.286

MIN RADIUS: 0.155

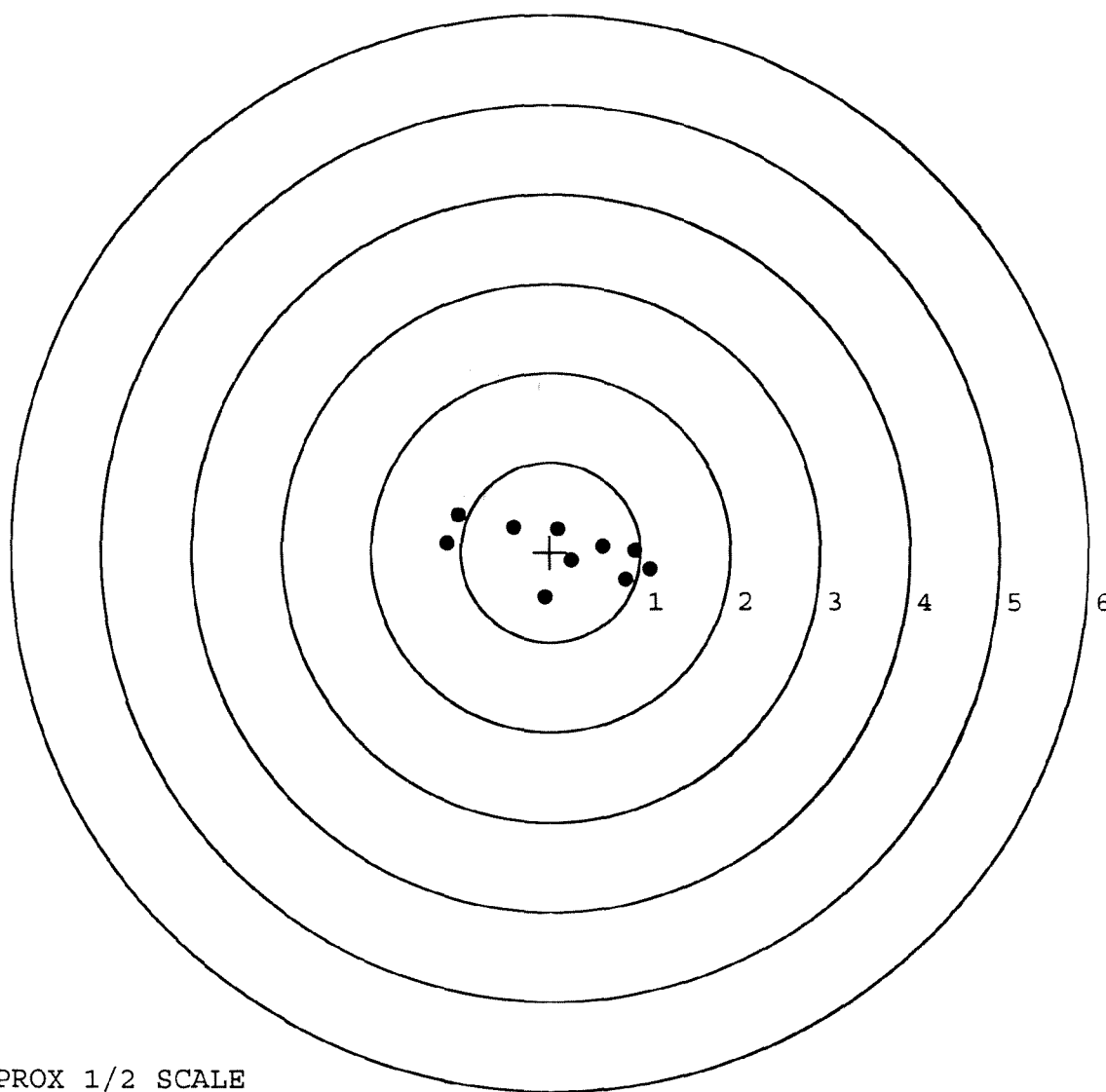
MAX RADIUS: 1.274

MEAN RADIUS: 0.714

IN 1 IN DIAMETER: 3

IN 2 IN DIAMETER: 7

in 3 IN DIAMETER: 10



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6225108. 0

TARGET NUMBER: 2

FILE DATE: 01/15/2008

FILE TIME: 09:40

POINT#	X	Y
1:	-0.425	0.636
2:	-0.816	0.259
3:	-0.530	-0.414
4:	-0.019	-0.316
5:	-0.217	0.041
6:	0.457	-0.213
7:	0.092	0.125
8:	0.410	0.304
9:	0.792	0.399
10:	0.456	-1.129

X CENTROID: 0.020

Y CENTROID: -0.031

POA TO CENTROID: 0.037

HORZ SPREAD: 1.608

VERT SPREAD: 1.765

GROUP SPREAD: 1.973

MIN RADIUS: 0.172

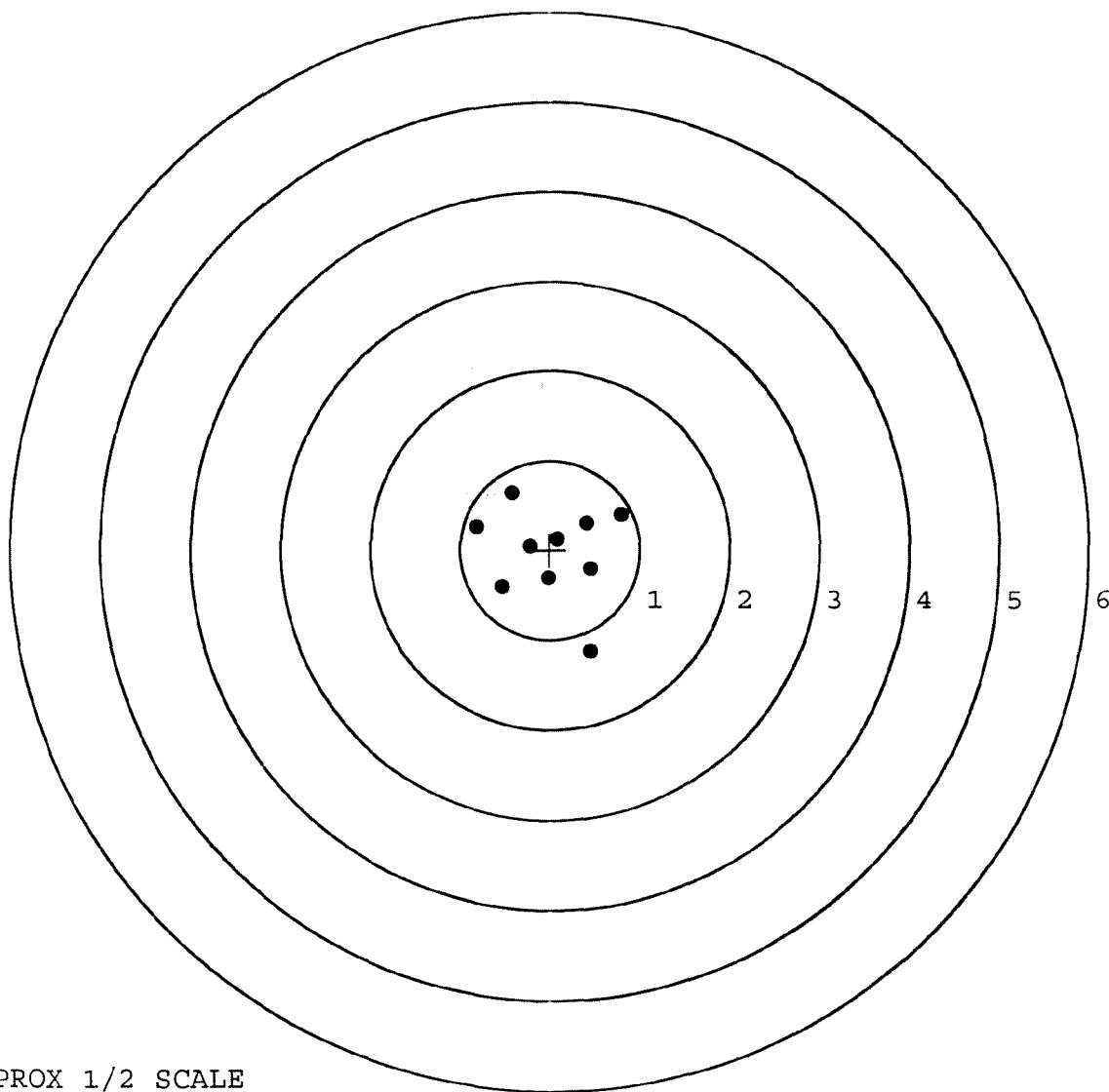
MAX RADIUS: 1.182

MEAN RADIUS: 0.612

IN 1 IN DIAMETER: 4

IN 2 IN DIAMETER: 9

in 3 IN DIAMETER: 10

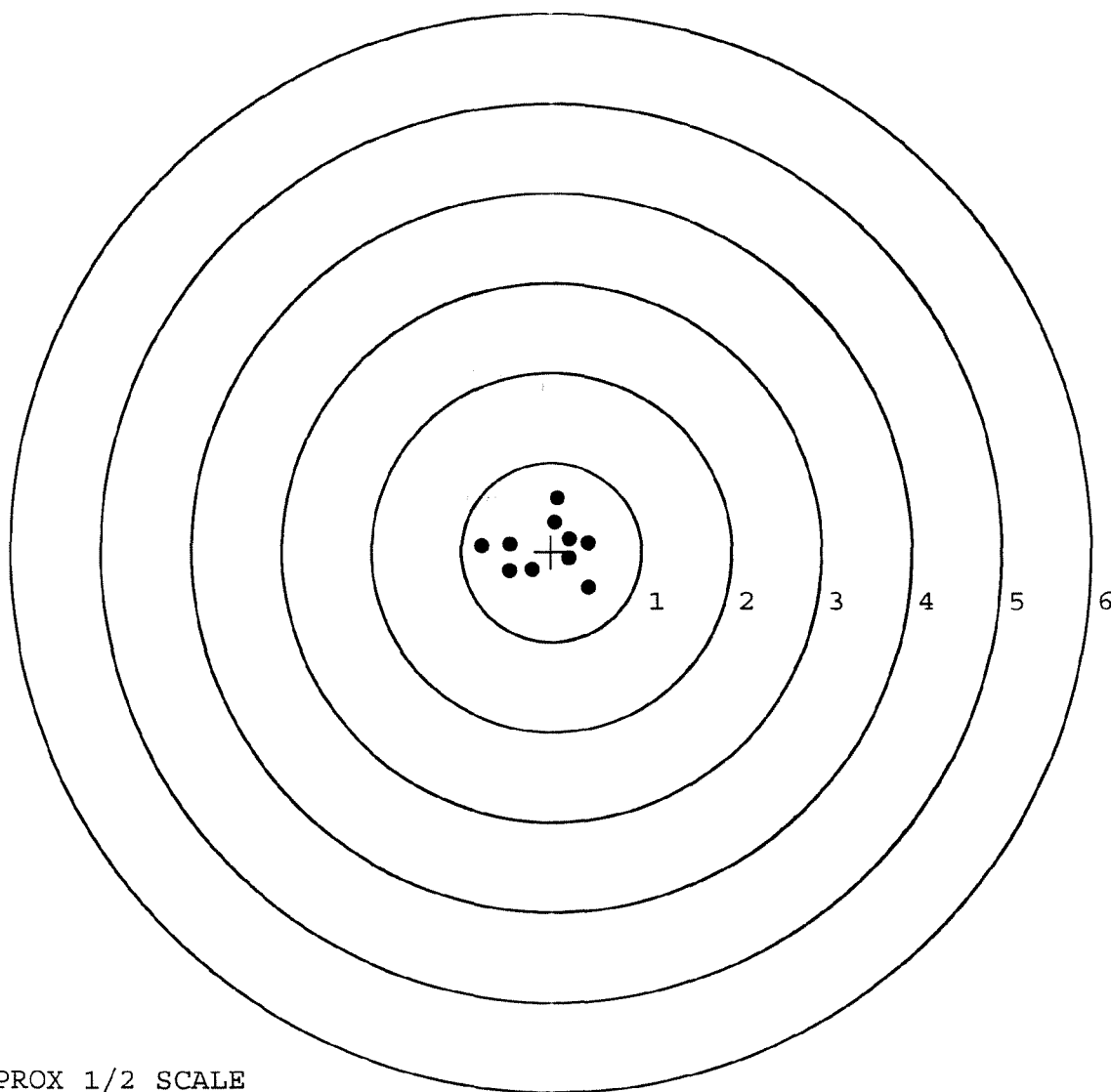


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6225108. 0
TARGET NUMBER: 3
FILE DATE: 01/15/2008
FILE TIME: 09:40

POINT#	X	Y
1:	0.070	0.605
2:	0.038	0.330
3:	0.411	0.103
4:	0.415	-0.405
5:	-0.465	0.082
6:	-0.769	0.061
7:	-0.463	-0.218
8:	-0.212	-0.202
9:	0.200	-0.078
10:	0.199	0.141

X CENTROID: -0.058
Y CENTROID: 0.042
POA TO CENTROID: 0.071
HORZ SPREAD: 1.184
VERT SPREAD: 1.010
GROUP SPREAD: 1.272
MIN RADIUS: 0.275
MAX RADIUS: 0.712
MEAN RADIUS: 0.445
IN 1 IN DIAMETER: 7
IN 2 IN DIAMETER: 10
in 3 IN DIAMETER: 10



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6225108. 0

TARGET NUMBER: 4

FILE DATE: 01/15/2008

FILE TIME: 09:40

POINT#	X	Y
--------	---	---

1:	-0.887	0.505
----	--------	-------

2:	-0.560	0.535
----	--------	-------

3:	-0.380	0.225
----	--------	-------

4:	-0.596	-0.069
----	--------	--------

5:	-0.106	-0.003
----	--------	--------

6:	0.475	-0.211
----	-------	--------

7:	0.244	0.016
----	-------	-------

8:	0.756	0.040
----	-------	-------

9:	0.767	0.365
----	-------	-------

10:	0.589	0.264
-----	-------	-------

X CENTROID: 0.030

Y CENTROID: 0.167

POA TO CENTROID: 0.169

HORZ SPREAD: 1.654

VERT SPREAD: 0.746

GROUP SPREAD: 1.708

MIN RADIUS: 0.218

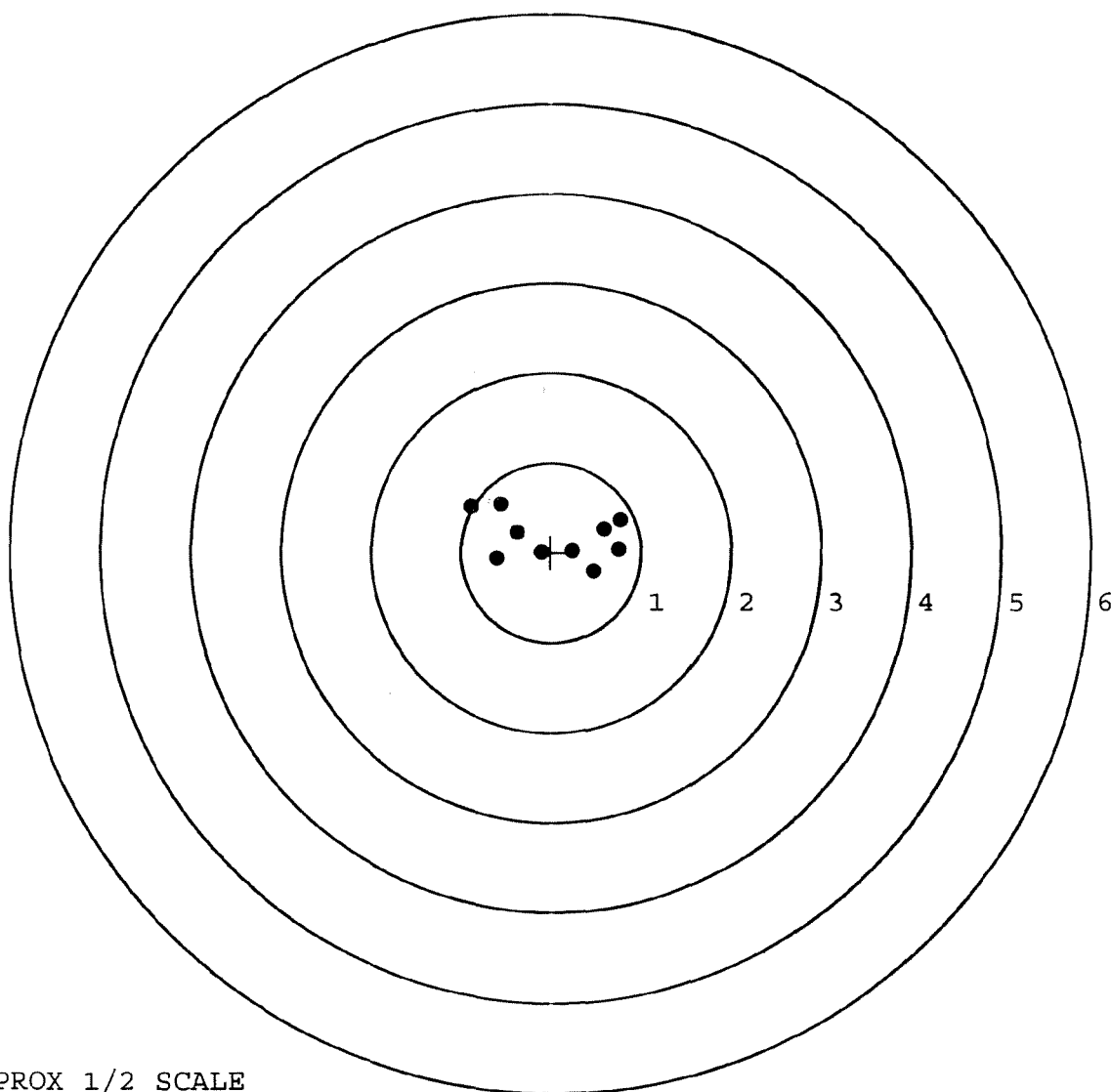
MAX RADIUS: 0.978

MEAN RADIUS: 0.589

IN 1 IN DIAMETER: 3

IN 2 IN DIAMETER: 10

in 3 IN DIAMETER: 10

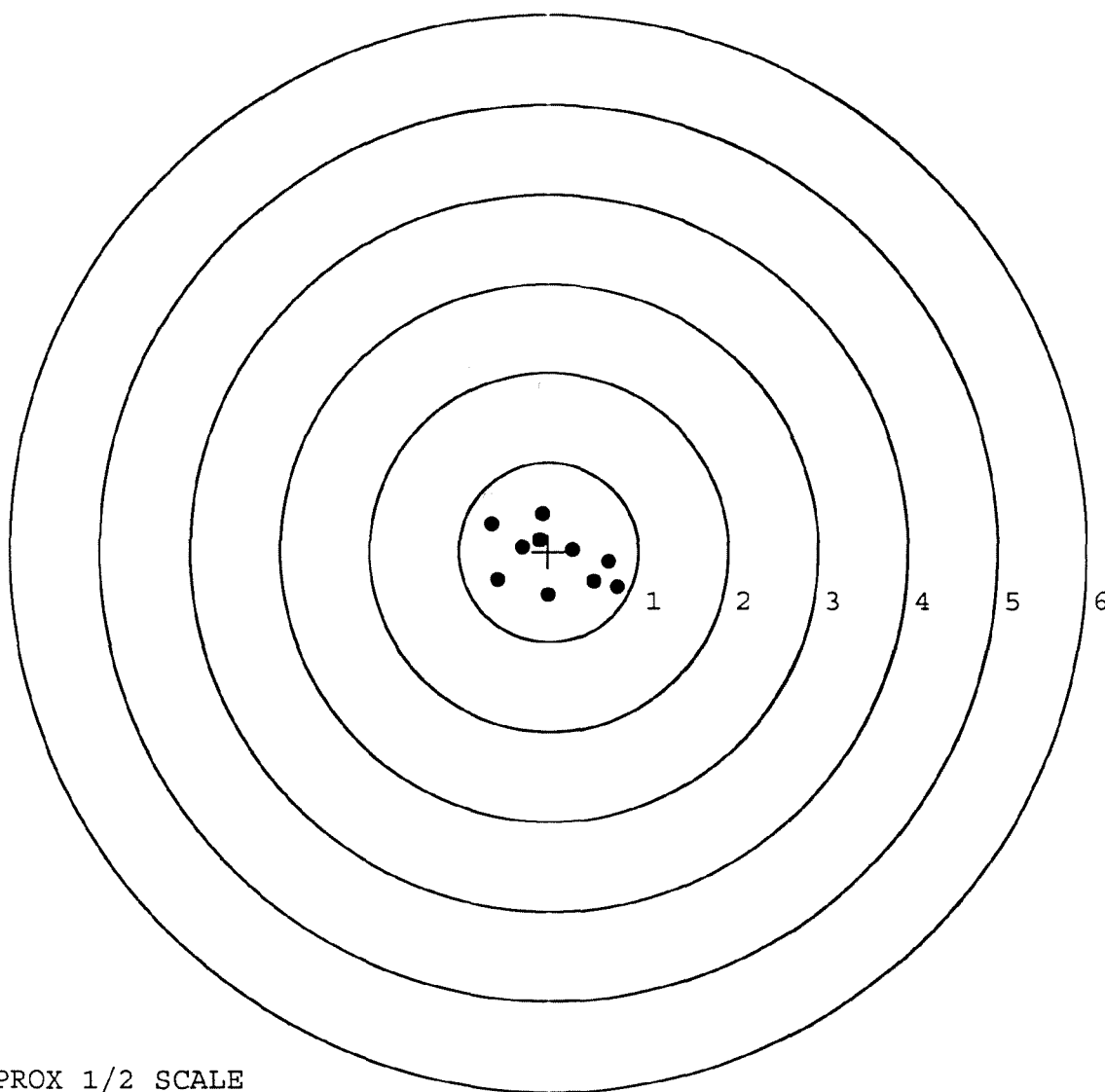


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6225108.___0
TARGET NUMBER: 5
FILE DATE: 01/15/2008
FILE TIME: 09:40

POINT#	X	Y
1:	0.765	-0.397
2:	0.506	-0.333
3:	0.668	-0.112
4:	-0.009	-0.491
5:	-0.567	-0.314
6:	-0.637	0.309
7:	-0.068	0.416
8:	-0.293	0.048
9:	0.273	0.022
10:	-0.099	0.132

X CENTROID: 0.054
Y CENTROID: -0.072
POA TO CENTROID: 0.090
HORZ SPREAD: 1.402
VERT SPREAD: 0.907
GROUP SPREAD: 1.570
MIN RADIUS: 0.238
MAX RADIUS: 0.789
MEAN RADIUS: 0.516
IN 1 IN DIAMETER: 4
IN 2 IN DIAMETER: 10
in 3 IN DIAMETER: 10



TARGET APPROX 1/2 SCALE

AVERAGE PULL FORCE BETWEEN
INITIAL & CYCLE TESTS

2.50 LBS (plus or minus 0.50 LBS)
3.00 LBS (plus or minus 0.75 LBS)
4.00 LBS (plus or minus 1.00 LBS)

DATE 12-21-07

TESTER TRW

	2.50 LBS INITIAL	2.50 LBS AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50 LBS		COMMENTS
PULL #1	2.30	2.70		2.74	
PULL #2	2.49	2.72		2.77	
PULL #3	2.40	2.79		2.64	
PULL #4	2.42	2.78		2.70	
PULL #5	2.45	2.82		2.70	
TOTAL	12.06	13.81		13.55	
AVERAGE	2.41	2.76		2.71	

	3.00 LBS INITIAL	3.00 LBS AFTER 20 CYCLES		COMMENTS
PULL #1	3.48	3.53		
PULL #2	3.52	3.60		
PULL #3	3.45	3.49		
PULL #4	3.60	3.63		
PULL #5	3.46	3.56		
TOTAL	17.51	17.81		
AVERAGE	3.50	3.56		

	4.00 LBS INITIAL	4.00 LBS AFTER 20 CYCLES	MAX SETTING GREATER THAN 4 LBS	RESET TO 4 LBS FOR TARGET & ACCURACY
PULL #1	4.59	4.48		4.39
PULL #2	4.67	4.07		4.39
PULL #3	4.57	4.09		4.38
PULL #4	4.62	4.36		4.39
PULL #5	4.62	4.08		4.44
TOTAL	23.07	21.08		21.99
AVERAGE	4.61	4.21		4.39

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

R & E NUMBER		<u>137979</u>		
SERIAL NUMBER		<u>C6225108</u>		
LOG-IN DATE		<u>12-5-07</u>		

OPERATION #	OPERATION NAME	DATE	INITIAL
500	DIS-ASSEMBLE GUN	12-26-07	RTZ
505	RE-BARREL	1-3-08	RTZ
560	ASSEMBLE	1-2-08	RTZ
600	PROOF	1-3-08	TRW
605	CHECK HEADSPACE	1-3-08	TRW
610	DIS-ASSEMBLE GUN		
612	MAGNAFLUX	1-8-08	JB
510	DRILL AND TAP	1-7-08	TRW
615	ROLLMARK CALIBER	1-7-08	CW
618	ROTO-BLAST	1-8-08	LV
620	APPLY COATINGS	1-10-08	TRW
625	FINAL ASSEMBLY	1-11-08	RTZ
640	FUNCTION TEST AND	<u>PASS</u> FAIL	1-14-08 TRW
650	TARGET	<u>PASS</u> FAIL	1-14-08 TRW
	MALFUNCTION	CORRECTION	
	MALFUNCTION	CORRECTION	
	MALFUNCTION	CORRECTION	
	MALFUNCTION	CORRECTION	
670	FINAL INSPECTION	1-14-08	FM
	A) HEADSPACE	<u>PASS</u> FAIL	1-16-08 DA
	B) TRIGGER PULL	2.76 2.72 2.70 2.68 2.69	1-15-08 DA
680	F) SAFETY ON FORCE	5.0 5.5 5.5	1-15-08 DA
	G) SAFETY OFF FORCE	3.0 3.5 3.0	1-15-08 DA
	I) FIRING PIN INDENT	.021 .022 .021	1-15-08 DA
690	PACK		1-29-08 FM

Repair Inquiry

Repair Number: **RE00062260**Serial: C6225108 Model 700 Center Fire Caliber:
7.62 M-24 (SWS)

Repairman:

Verify Repair

Status:

Closed 2/26/2003 12:33:55 PM

Address Information

Customer:

☒ Received From

Return To:

☐ Received FromName: **JOINT TRANS DIRECTORATE****JOINT TRANS DIRECTORATE**Address 1: **ATTN AF2H JTM M****ATTN AF2H JTM M**Address 2: **BOX 339500 MS 53**

PO Box:

BOX 339500 MS 53

PO Box:

City: **FORT LEWIS****FORT LEWIS**State: **WA**Zip Code: **98433**Country: **US**State: **WA**Zip Code: **98433**Country: **US**

FFL:

Contact / Condition

Problems

Estimate

History / Status

Shipping / Billing

Contact Information

Phone:

Fax:

Email:

Comments:

Received Condition

Poor

Condition
Notes:CSR
Notes:

Accessories Received

Code	Desc	Qty
A007	With Stud	1
A017	Scope Base	1
X	FRT & REAR SGT BA	1

Repair Search

Refresh

Close

nagletj

2/26/2003

1:06 PM

CAPS

NUM

INS

SCPL

start

Inbox - Microsoft

Calendar - Micro...

Arms Services R...

1:05 PM

Serial Number: **C6225108**Model: **700****RE00062260**

SNIPER WEAPON SYSTEM - UNIQUE STATISTICAL INFORMATION

FIREARM SERIAL NUMBER / DATASET NAME: C6225108.___0

FILE DATE AND TIME: 03/21/2003 15:34

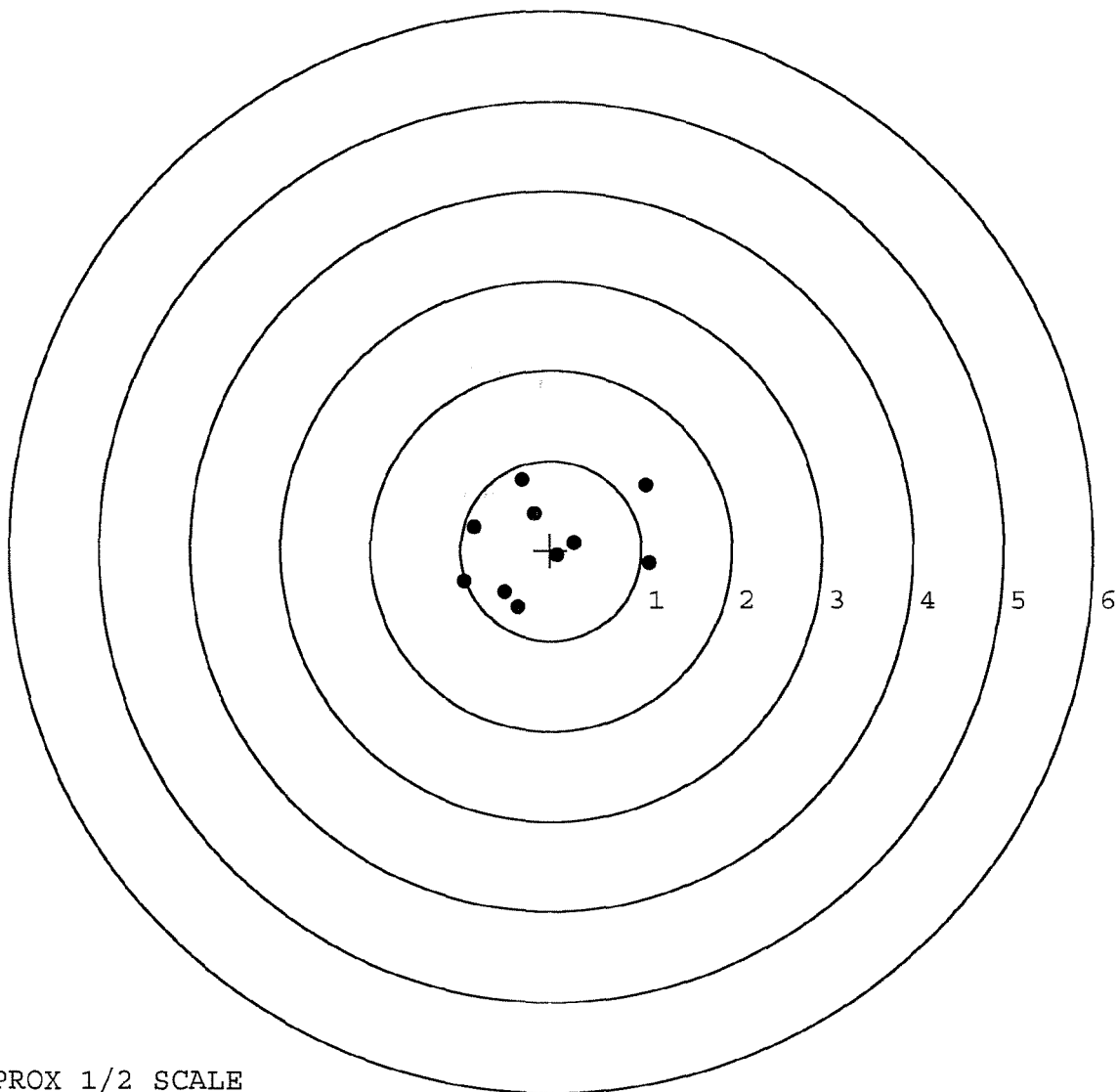
THE FOLLOWING DATA IS ALL REPORTED IN UNITS OF INCHES

The Average X Centroid of the Five Target Set:	-0.016
The Average Y Centroid of the Five Target Set:	-0.016
The Average Point of Impact of the Five Target Set:	0.022
The Average Mean Radius of the Five Target Set:	0.610
The Distance from POA to Centroid Target #1:	0.092
The Distance from Centroid Target #2 to Centroid Target #1:	0.173
The Distance from Centroid Target #3 to Centroid Target #1:	0.100
The Distance from Centroid Target #4 to Centroid Target #1:	0.038
The Distance from Centroid Target #5 to Centroid Target #1:	0.322

SERIAL NUMBER: C6225108. __0
TARGET NUMBER: 1
FILE DATE: 03/21/2003
FILE TIME: 15:34

POINT#	X	Y
1:	1.091	-0.144
2:	1.052	0.733
3:	-0.314	0.786
4:	-0.181	0.408
5:	0.266	0.085
6:	0.074	-0.056
7:	-0.364	-0.639
8:	-0.512	-0.473
9:	-0.957	-0.352
10:	-0.851	0.258

X CENTROID: -0.070
Y CENTROID: 0.061
POA TO CENTROID: 0.092
HORZ SPREAD: 2.048
VERT SPREAD: 1.425
GROUP SPREAD: 2.283
MIN RADIUS: 0.185
MAX RADIUS: 1.308
MEAN RADIUS: 0.737
IN 1 IN DIAMETER: 3
IN 2 IN DIAMETER: 8
in 3 IN DIAMETER: 10



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6225108. __0

TARGET NUMBER: 2

FILE DATE: 03/21/2003

FILE TIME: 15:34

POINT#	X	Y
--------	---	---

1:	0.684	-0.378
----	-------	--------

2:	0.322	-0.222
----	-------	--------

3:	-0.077	-1.013
----	--------	--------

4:	0.255	0.446
----	-------	-------

5:	-0.670	0.543
----	--------	-------

6:	-0.830	0.245
----	--------	-------

7:	-0.163	0.114
----	--------	-------

8:	-0.238	-0.057
----	--------	--------

9:	-0.312	-0.212
----	--------	--------

10:	-0.540	-0.354
-----	--------	--------

X CENTROID: -0.157

Y CENTROID: -0.089

POA TO CENTROID: 0.180

HORZ SPREAD: 1.514

VERT SPREAD: 1.556

GROUP SPREAD: 1.665

MIN RADIUS: 0.087

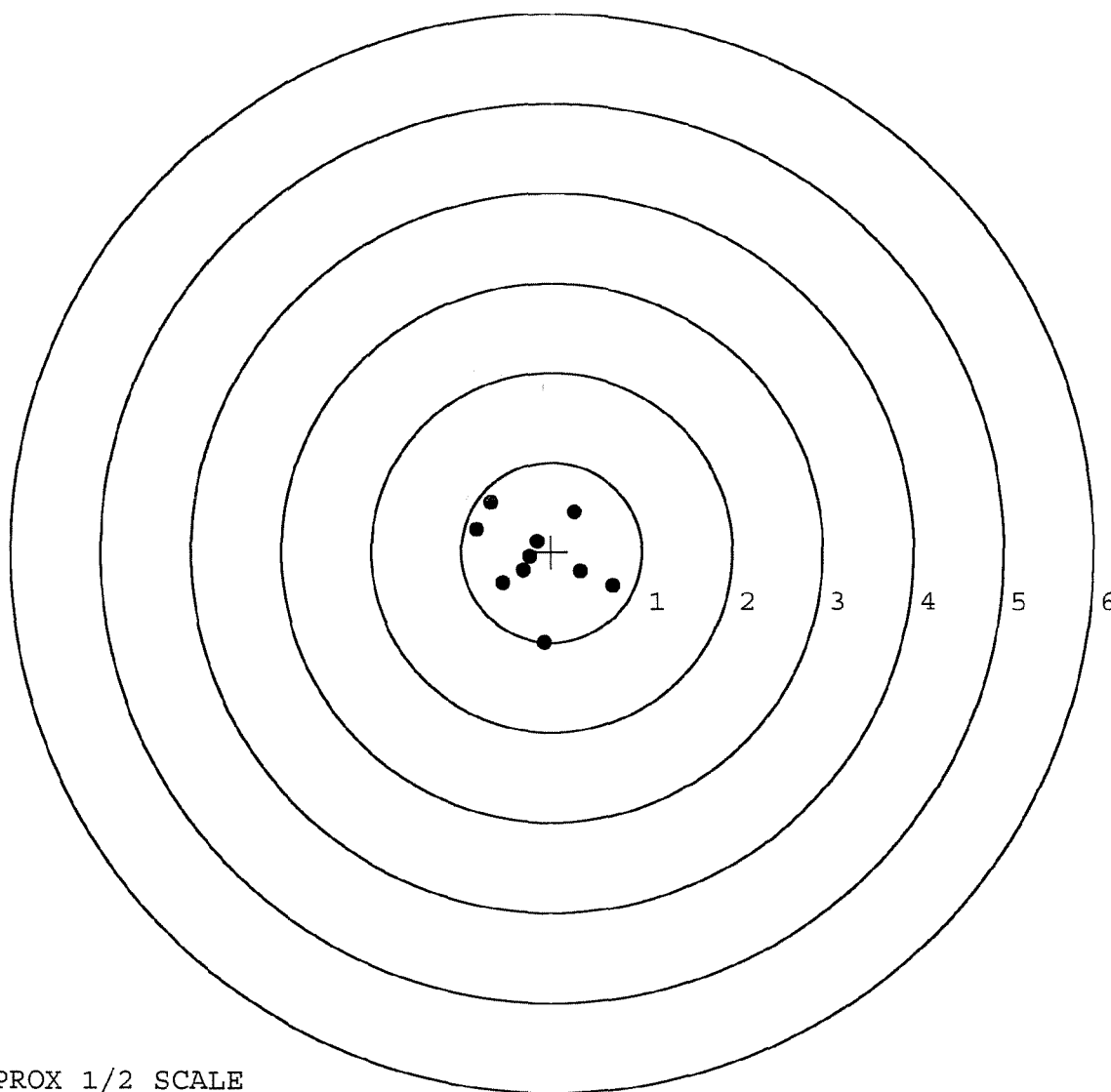
MAX RADIUS: 0.928

MEAN RADIUS: 0.551

IN 1 IN DIAMETER: 5

IN 2 IN DIAMETER: 10

in 3 IN DIAMETER: 10

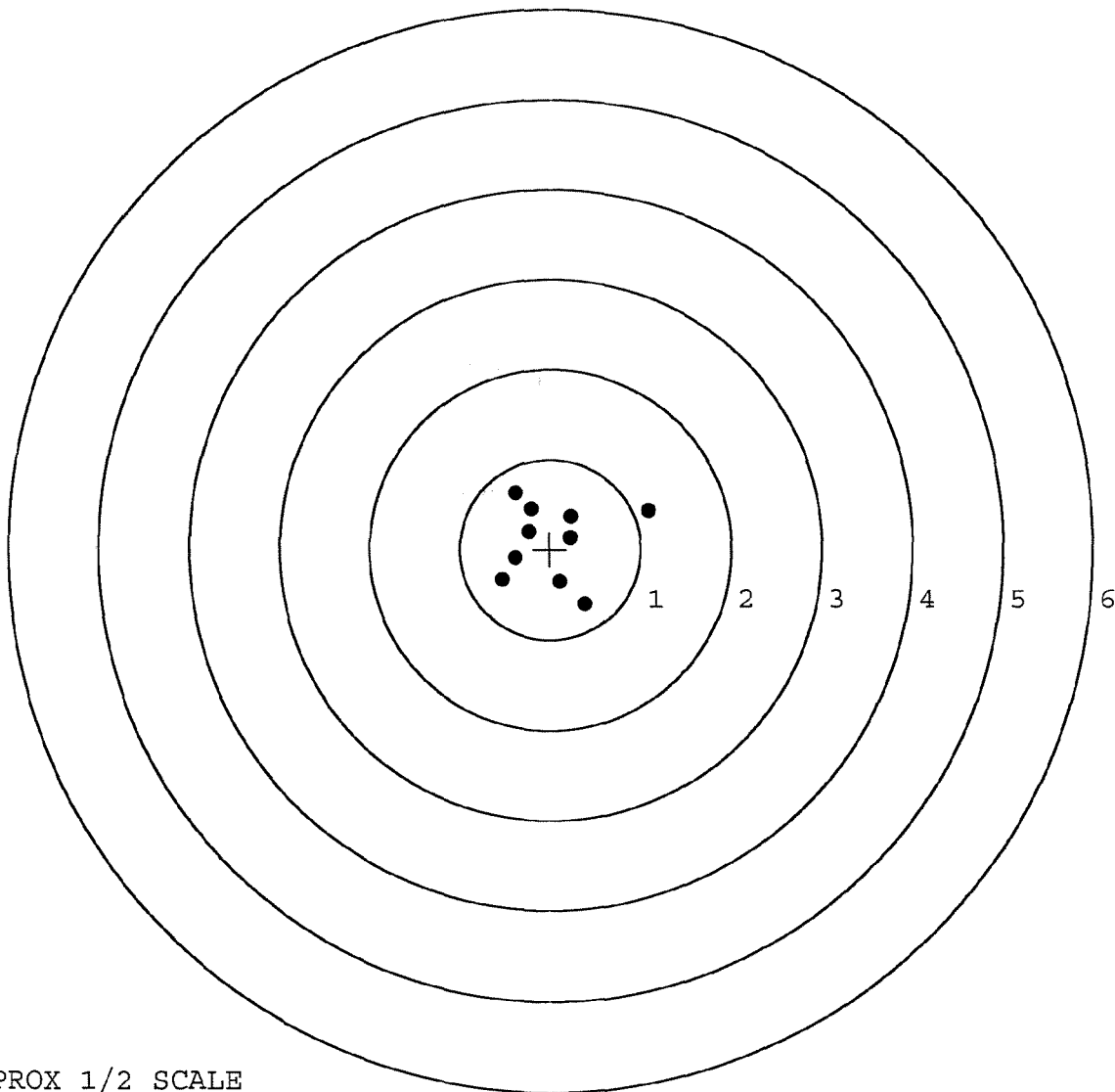


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6225108. __0
TARGET NUMBER: 3
FILE DATE: 03/21/2003
FILE TIME: 15:34

POINT#	X	Y
1:	0.386	-0.609
2:	0.112	-0.361
3:	-0.528	-0.346
4:	-0.382	-0.102
5:	-0.240	0.200
6:	-0.212	0.448
7:	-0.383	0.625
8:	1.081	0.427
9:	0.232	0.363
10:	0.224	0.127

X CENTROID: 0.029
Y CENTROID: 0.077
POA TO CENTROID: 0.082
HORZ SPREAD: 1.609
VERT SPREAD: 1.234
GROUP SPREAD: 1.785
MIN RADIUS: 0.201
MAX RADIUS: 1.109
MEAN RADIUS: 0.545
IN 1 IN DIAMETER: 6
IN 2 IN DIAMETER: 9
in 3 IN DIAMETER: 10

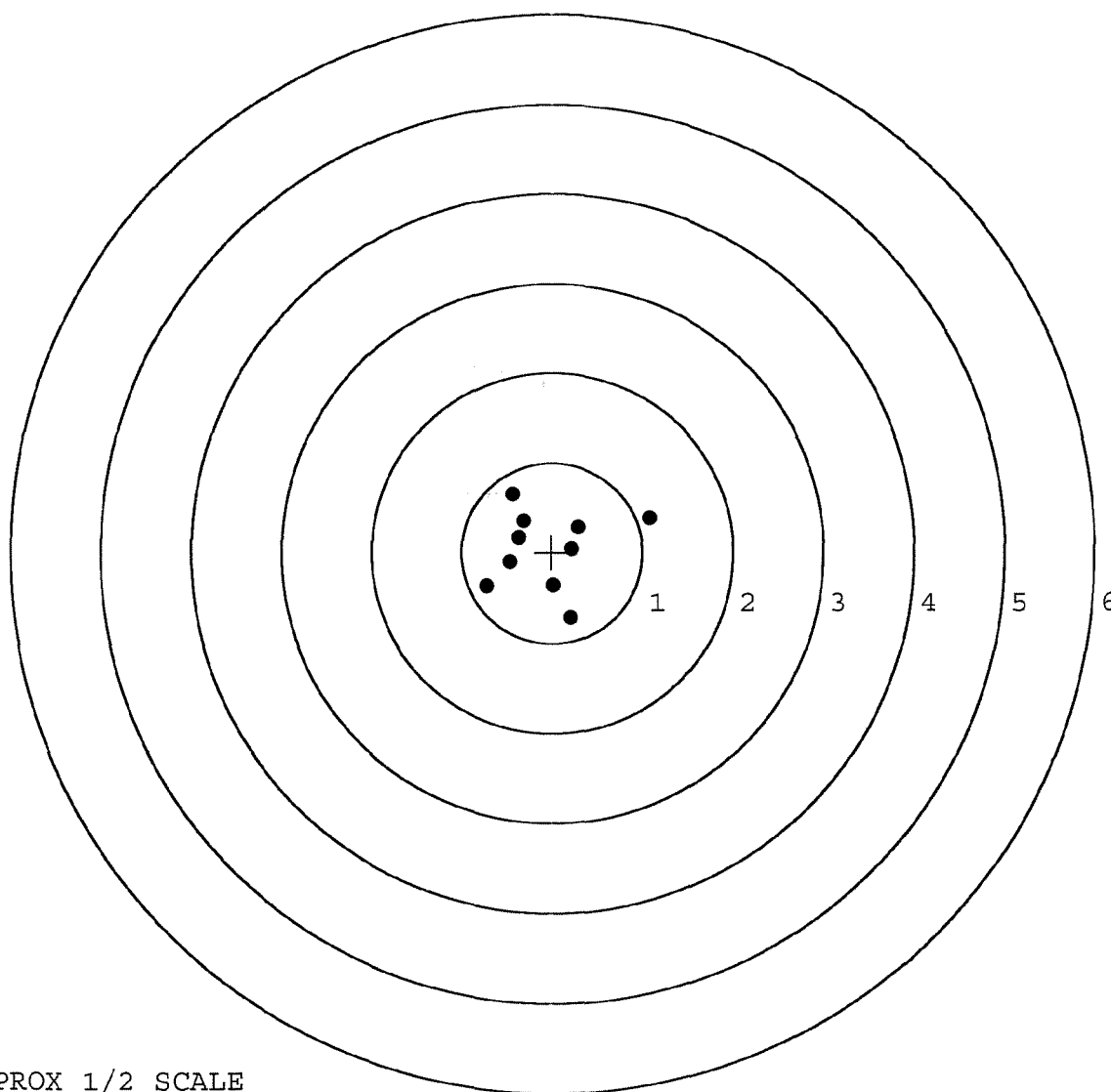


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6225108.___0
TARGET NUMBER: 4
FILE DATE: 03/21/2003
FILE TIME: 15:34

POINT#	X	Y
1:	1.076	0.384
2:	-0.439	0.648
3:	-0.319	0.352
4:	-0.368	0.165
5:	-0.461	-0.111
6:	-0.723	-0.374
7:	0.208	-0.721
8:	0.016	-0.371
9:	0.225	0.038
10:	0.293	0.276

X CENTROID: -0.049
Y CENTROID: 0.029
POA TO CENTROID: 0.057
HORZ SPREAD: 1.799
VERT SPREAD: 1.369
GROUP SPREAD: 1.952
MIN RADIUS: 0.274
MAX RADIUS: 1.180
MEAN RADIUS: 0.579
IN 1 IN DIAMETER: 6
IN 2 IN DIAMETER: 9
in 3 IN DIAMETER: 10

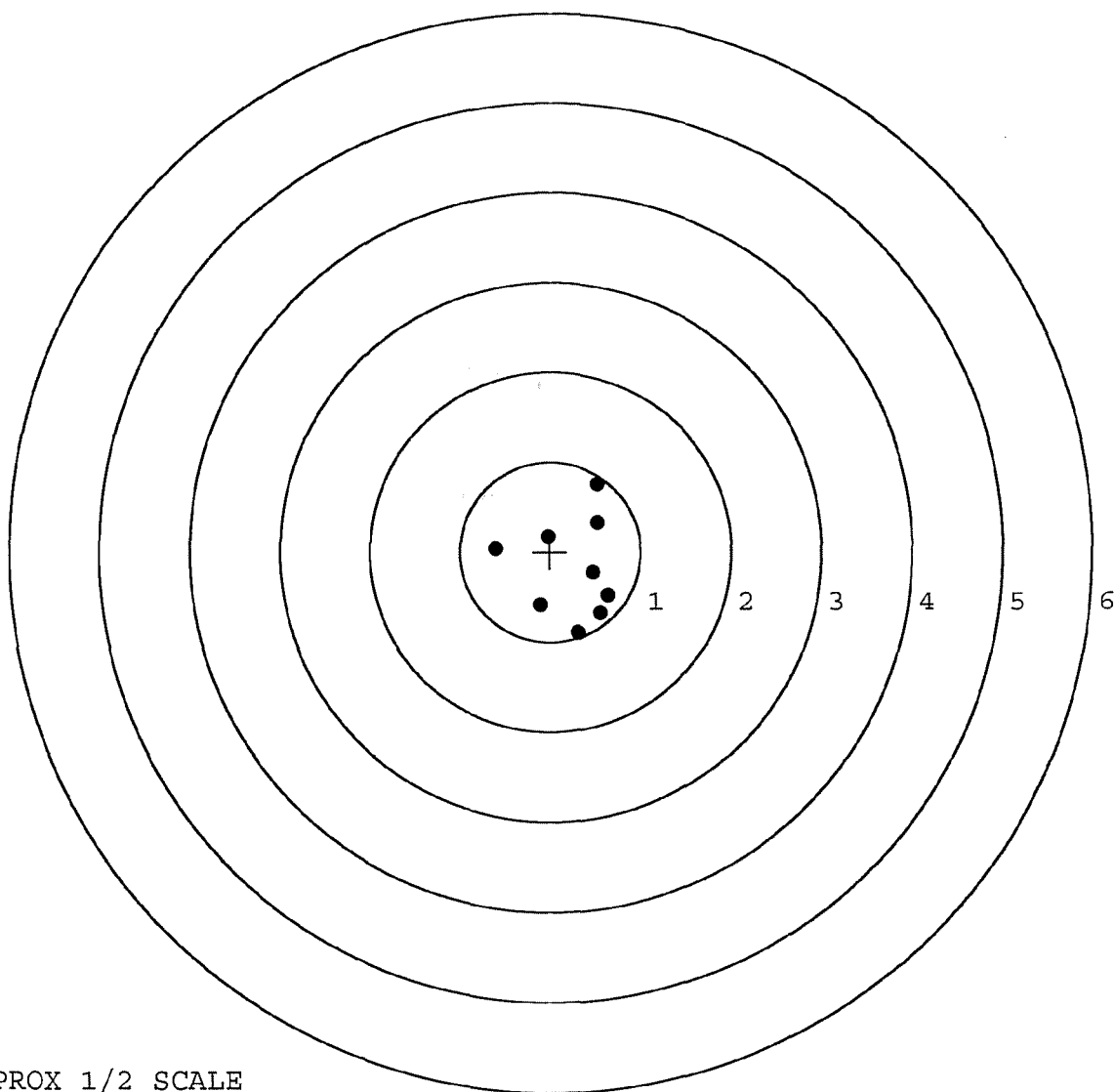


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6225108. __0
TARGET NUMBER: 5
FILE DATE: 03/21/2003
FILE TIME: 15:34

POINT#	X	Y
1:	0.644	-0.485
2:	0.555	-0.681
3:	0.313	-0.902
4:	0.475	-0.227
5:	-0.108	-0.596
6:	-0.605	0.035
7:	-0.603	0.034
8:	-0.026	0.167
9:	0.522	0.333
10:	0.522	0.760

X CENTROID: 0.169
Y CENTROID: -0.156
POA TO CENTROID: 0.230
HORZ SPREAD: 1.249
VERT SPREAD: 1.662
GROUP SPREAD: 1.675
MIN RADIUS: 0.314
MAX RADIUS: 0.982
MEAN RADIUS: 0.638
IN 1 IN DIAMETER: 2
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	62260		
SERIAL NUMBER	C6225108		
LOG-IN DATE	2-26-03		
INSPECT AND VERIFY:			
OPERATION #	OPERATION NAME	DATE	INITIAL
550	DIS-ASSEMBLE GUN	2-27-03	RTL
560 A	RE-BARREL	3-4-03	RTL
B	DRILL AND TAP	3-6-03	TRW
575	ASSEMBLE	3-5-03	RTL
600	PROOF	3-5-03	AC
605	CHECK HEADSPACE	3-5-03	AC
610	DIS-ASSEMBLE GUN	3-5-03	AC
612	MAGNAFLUX OPERATOR	3-7-03	JO
615	ROLLMARK CALIBER	3-7-03	JB
618	ROTO-BLAST	3-10-03	TD
620	APPLY COATINGS	3-18	TA
625 A	FINAL ASSEMBLY	3-19-03	EW
B	TRIGGER PULL TEST		
C	SAFETY "ON" FORCE		
D	SAFETY "OFF" FORCE		
E	FIRING PIN INDENT		
640	TARGET	3-20-03	TRW
655	FINAL INSPECT	3-21-03	RTL
660	PACK	3-21-03	TA
		SHIP DATE	
QAR INSPECTION DATE			

Remington[®] **DUPONT**
REG. U.S. PAT. & TM. OFF.

MODEL 700TM M24

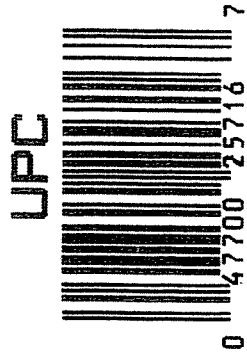
MADE IN ILION, N.Y. U.S.A. Reg. U.S. Pat. & Tm. Off. Marca Registrada Marque Deposee.

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

**SERIAL NO.
 C6225108**

**ORDER NO.
 5716**

01



CONTRACT # DAAA21-87-C-0086

INTERCHANGEABILITY

GUN SERIAL # C6225108

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			
617	Drill and Tap Sight Holes	4 14	89	LB
618	Polish Barrel <i>RIB</i>	4 14	89	TB
620	Apply Coatings (Barrel Action)		4-19-89	TSA
	Apply Coating (Bolt)			
625	Final Assembly			
	A) Clean inside of Bolt Assembly		5/8/89	RW
	B) Inspect Rear Firing Pin Hole for Chamfer in Bolt Head		5/8/89	RW
	C) Inspect Ejector Hole for Chamfer		5/8/89	RW
	D) Oil Firing Pin Ass'y		5/8/89	RW
	E) Adjust Trigger Pull to Min Setting and Stake		5/11/89	WB

op. #	OP. NAME	READINGS					DATE	INIT
625 cont.	F) Safety On Force	5	5	5			5/11/89	gcl
	G) Safety Off Force	2.5	2	3			5/11/89	gcl
	H) Trigger Pull Test & Retainability						5/11/89	W03
	I) Firing Pin Indent	.021	.021	.021			5/11/89	gcl
	J) Assemble Stock						5/11/89	RW
	K) Assemble Swivel Studs						16 May 89	QSS
	L) Attach Front and Rear Sight Assemblies						5/11/89	RW
	M) Iron Sight Alignment						5/11/89	RW
	N) Detach Front & Rear Sights & place in numbered container						5/11/89	RW
	O) Attach Scope to Rifle						5/11/89	gcl
	P) Detach & Attach Scope 20 Times						5/11/89	gcl
640	Gallery Target & Test	70 R	8 L				5/12/89	A
	A) Time						5/12/89	A
	B) Malfunctions						5/12/89	A
	C) Pierced Primers						5/12/89	A
	D) Optical Clarity of Scope						5/12/89	A
645	Inspect for Live Ammo						5/12/89	A
655	Final Inspection							
	A) Headspace						16 May 89	QSS
	B) Trigger Pull	2.77	2.73	2.77	2.78	2.85	16 May 89	QSS
	C) Function						16 May 89	QSS
660	Pack						27 May 89	QSS

SWS TRIGGER PULL TEST

AVERAGE PULL FORCE BETWEEN
INITIAL & CYCLE TESTS

2.50# ± .50#
3.00# ± .75#
4.00# ± 1.00#

SERIAL NO. 16225108

DATE 3-30-90

TESTER JH

	2.50# INITIAL	2.50# AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50#		COMMENTS
PULL #1	2.34	2.39		2.38	MIN. SETTING, NO AVG. OF 5 READINGS ACCEPT- ABLE LESS THAN 2#
PULL #2	2.36	2.32		2.44	
PULL #3	2.43	2.32		2.43	
PULL #4	2.41	2.33		2.42	
PULL #5	2.33	2.31		2.40	
TOTAL	11.87	11.67		12.07	
AVG.	2.374	2.334		2.414	

	3.00# INITIAL	3.00# AFTER 20 CYCLES		COMMENTS
PULL #1	3.52	3.51		
PULL #2	3.55	3.50		
PULL #3	3.51	3.51		
PULL #4	3.36	3.48		
PULL #5	3.46	3.48		
TOTAL	17.40	17.48		
AVG.	3.48	3.496		

	4.00# INITIAL	4.00# AFTER 20 CYCLES	MAX SETTING GREATER THAN 4#	RESET TO 4# FOR TARGET & ACCURACY
PULL #1	4.20	4.22		
PULL #2	4.14	4.30		
PULL #3	4.05	4.24		
PULL #4	4.19	4.25		
PULL #5	4.18	4.06		
TOTAL	20.81	21.07		
AVG.	4.162	4.214		

CENTROIDAL DISTANCE CALCULATIONS
FOR RIFLE # C6225108
15 May 1989

CENTROIDAL DISTANCES

0 TO	1	.389803
1 TO	2	.717675
1 TO	3	.599715
1 TO	4	.213138
1 TO	5	.555947

$\frac{2}{14} \times 3$ <-----POA
5

THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: .1622
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: -.2882
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .330708

THE AMR FOR THIS RIFLE IS: .861

15 May 1989

FILE:/PATTERNING/CENTERFIRE_PATT/08225108

CENTERFIRE PATTERNS

1

POA

1in circle

2in circle

3in circle

OF SHOTS- 10

IN CIR

1in = 2

2in = 4

3in = 9

HS= 2.253

VS= 2.496

GS= 2.850

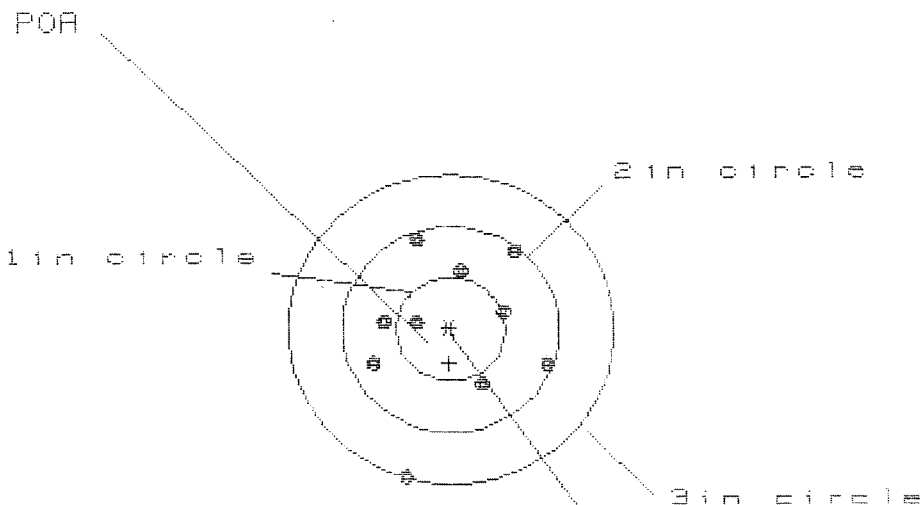
CENTROID #

PATTERN #	1	2	3
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.258	.694	.649
MINIMUM X	-.995	-.855	-.900
MAXIMUM Y	1.234	1.344	1.200
MINIMUM Y	-1.262	-1.152	-1.151
CENTROID X	.061	-.079	-.034
CENTROID Y	-.385	-.495	-.351
POA TO CENTROID in.	.390	.501	.352
MIN RADIUS	.372	.367	.276
MEAN RADIUS	.962	.890	.817
MAX RADIUS	1.597	1.512	1.364
HORIZONTAL SPREAD	2.253	1.549	1.549
VERTICAL SPREAD	2.496	2.496	2.351
EXTREME SPREAD	2.850	2.708	2.500
NUMBER IN ONE INCH CIRCLE =	2		
NUMBER IN TWO INCH CIRCLE =	4		
NUMBER IN THREE INCH CIRCLE =	9		

15 May 1989

FILE:/PATTERNING/CENTERFIRE_PATT/C82251B8

CENTERFIRE PATTERNS # 2



OF SHOTS- 10

IN CIR

1 in = 1

2 in = 9

3 in = 10

HS= 1.501

VS= 2.262

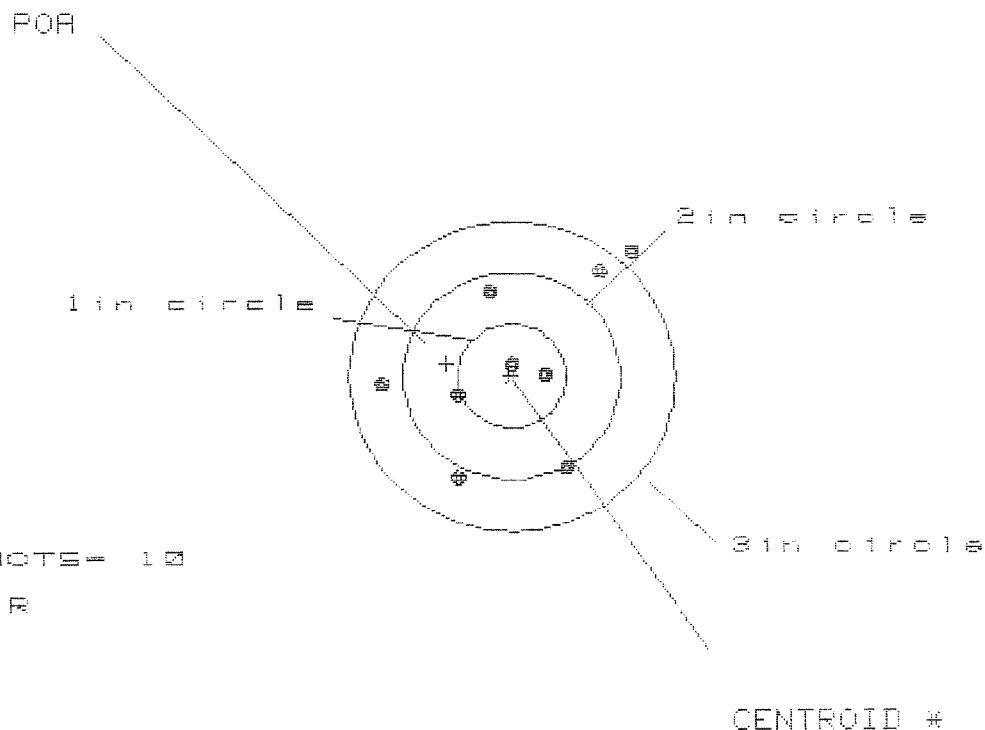
GS= 2.396

PATTERN #	:	2		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	.895	.845	.623
MINIMUM X	:	-.706	-.756	-.650
MAXIMUM Y	:	.857	.701	.637
MINIMUM Y	:	-1.405	-.661	-.725
CENTROID X	:	.012	.062	-.044
CENTROID Y	:	.331	.487	.551
POA TO CENTROID in.	:	.331	.491	.553
MIN RADIUS	:	.307	.341	.258
MEAN RADIUS	:	.773	.675	.620
MAX RADIUS	:	1.475	.989	.874
HORIZONTAL SPREAD	:	1.601	1.601	1.273
VERTICAL SPREAD	:	2.262	1.362	1.362
EXTREME SPREAD	:	2.396	1.708	1.702
NUMBER IN ONE INCH CIRCLE	=		1	
NUMBER IN TWO INCH CIRCLE	=		9	
NUMBER IN THREE INCH CIRCLE	=		10	

15 May 1985

FILE:/PATTERNING/CENTERFIRE_PATT/06225108

CENTERFIRE PATTERNS # 3



OF SHOTS = 10

IN CIR

1 in = 2

2 in = 4

3 in = 9

HS = 2.320

VS = 2.183

GS = 2.713

PATTERN #	:	3		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.132	.930	.767
MINIMUM X	:	-1.188	-1.063	-.946
MAXIMUM Y	:	1.170	1.115	1.062
MINIMUM Y	:	-1.013	-.883	-.744
CENTROID X	:	.598	.473	.356
CENTROID Y	:	-.118	-.248	-.387
FOR TO CENTROID in.	:	.610	.534	.526
MIN RADIUS	:	.091	.247	.291
MEAN RADIUS	:	.910	.826	.741
MAX RADIUS	:	1.627	1.452	1.066
HORIZONTAL SPREAD	:	2.320	1.993	1.713
VERTICAL SPREAD	:	2.183	1.998	1.806
EXTREME SPREAD	:	2.713	2.375	1.927
NUMBER IN ONE INCH CIRCLE	=		2	
NUMBER IN TWO INCH CIRCLE	=		4	
NUMBER IN THREE INCH CIRCLE	=		9	

13 May 1988

FILE:/PATTERNING/CENTERFIRE_PATT/08225108

CENTERFIRE PATTERNS

4

POA

1 in circle

2 in circle

3 in circle

CENTROID #

OF SHOTS - 10

IN CIR

1 in = 3

2 in = 8

3 in = 10

HS = 1.829

VS = 2.253

GS = 2.281

PATTERN #	:	4		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.191	1.217	.779
MINIMUM X	:	-.638	-.612	-.460
MAXIMUM Y	:	1.355	.608	.545
MINIMUM Y	:	-.897	-.747	-.671
CENTROID X	:	.273	.247	.095
CENTROID Y	:	-.363	-.514	-.590
POA TO CENTROID in.	:	.454	.571	.598
MIN RADIUS	:	.197	.256	.270
MEAN RADIUS	:	.734	.646	.522
MAX RADIUS	:	1.375	1.360	.862
HORIZONTAL SPREAD	:	1.829	1.829	1.239
VERTICAL SPREAD	:	2.253	1.355	1.216
EXTREME SPREAD	:	2.281	1.893	1.422
NUMBER IN ONE INCH CIRCLE	=		3	
NUMBER IN TWO INCH CIRCLE	=		8	
NUMBER IN THREE INCH CIRCLE	=		10	

15 May 1988

FILE:/PATTERNING/CENTERFIRE_PATT/08225100

CENTERFIRE PATTERNS # 5

POB

1in circle

2in circle

3in circle

OF SHOTS- 10

IN CIR

1in = 3

2in = 6

3in = 8

HS= 2.495

VS= 2.801

GS= 3.505

CENTROID *

PATTERN #	:	5		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	.913	.737	.780
MINIMUM X	:	-1.582	-1.005	-.962
MAXIMUM Y	:	1.064	1.025	.823
MINIMUM Y	:	-1.737	-1.619	-.880
CENTROID X	:	-.133	.043	-.000
CENTROID Y	:	-.906	-1.024	-.822
POB TO CENTROID in.	:	.916	1.025	.822
MIN RADIUS	:	.206	.025	.220
MEAN RADIUS	:	.926	.800	.677
MAX RADIUS	:	1.907	1.656	1.177
HORIZONTAL SPREAD	:	2.495	1.742	1.742
VERTICAL SPREAD	:	2.801	2.644	1.703
EXTREME SPREAD	:	3.505	2.647	2.216
NUMBER IN ONE INCH CIRCLE	=		3	
NUMBER IN TWO INCH CIRCLE	=		6	
NUMBER IN THREE INCH CIRCLE	=		8	

CENTROIDAL DISTANCE CALCULATIONS
FOR RIFLE # C6225108
13 Jun 1989

INTERCHANGEABILITY

CENTROIDAL DISTANCES

0 TO	1	.690279
1 TO	2	.395506
1 TO	3	.503462
1 TO	4	.626266
1 TO	5	.902335

+ 1 $\frac{w}{\text{total}}$ <----POB

THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: .437
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: -.154
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .463341

THE AMR FOR THIS RIFLE IS: .8078

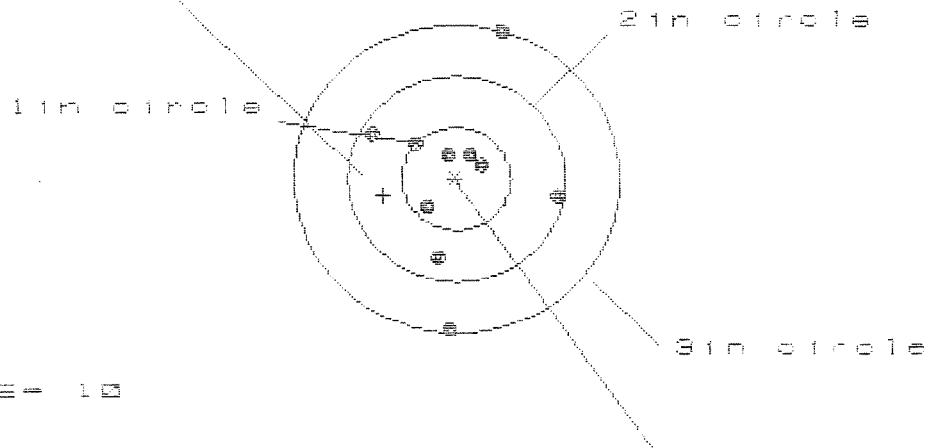
9 Jun 1989

FILE:/PATTERNING/CENTERFIRE_PATT/C6225188.1

CENTERFIRE PATTERNS

1

POA



OF SHOTS = 10

IN CIR

1in = 4

2in = 0

3in = 10

HS = 1.740

VS = 2.880

ES = 2.920

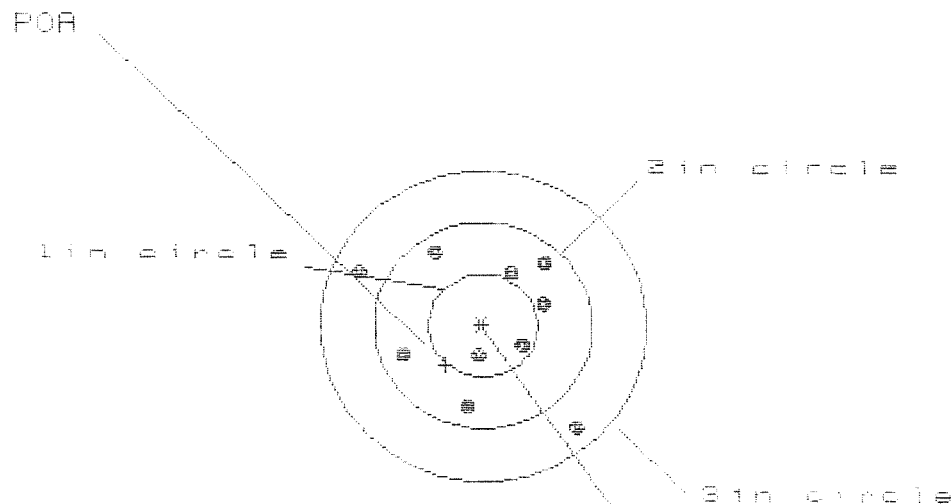
CENTROID *

PATTERN #	1	2	3
SHOTS (BEST OF)	10	9	8
MAXIMUM X	.971	1.019	1.013
MINIMUM X	-.769	-.721	-.727
MAXIMUM Y	1.414	.556	.392
MINIMUM Y	-1.466	-1.309	-.804
CENTROID X	.671	.623	.629
CENTROID Y	.162	.005	.169
POA TO CENTROID in.	.690	.623	.652
MIN RADIUS	.211	.201	.192
MEAN RADIUS	.716	.649	.524
MAX RADIUS	1.477	1.310	1.034
HORIZONTAL SPREAD	1.740	1.740	1.740
VERTICAL SPREAD	2.880	1.965	1.196
EXTREME SPREAD	2.920	1.982	1.842
NUMBER IN ONE INCH CIRCLE =	4		
NUMBER IN TWO INCH CIRCLE =	0		
NUMBER IN THREE INCH CIRCLE =	10		

8 Jun 1988

FILE:/PATTERNING/CENTERFIRE_PATT/08225198.1

CENTERFIRE PATTERNS # 2



OF SHOTS = 10

IN CIR

1 in = 2

2 in = 8

3 in = 10

HS = 1.993

VS = 1.739

GS = 2.525

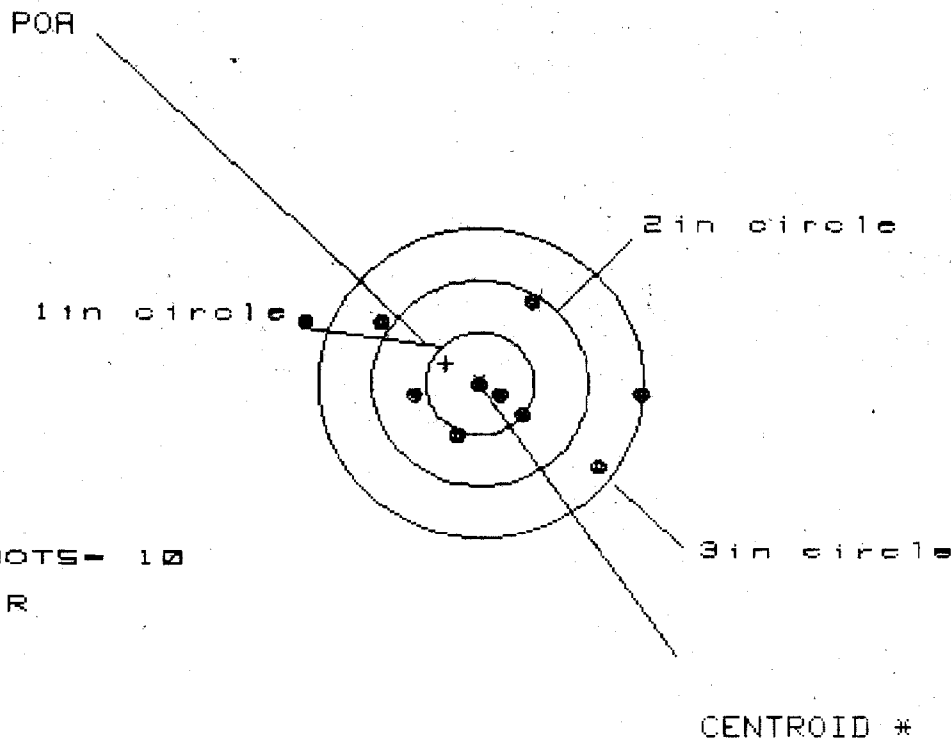
CENTROID *

PATTERN #	:	2		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	.866	.630	.501
MINIMUM X	:	-1.127	-1.031	-.743
MAXIMUM Y	:	.723	.610	.663
MINIMUM Y	:	-1.016	-.926	-.873
CENTROID X	:	.343	.247	.376
CENTROID Y	:	.383	.496	.443
POA TO CENTROID in.	:	.514	.554	.581
MIN RADIUS	:	.287	.390	.354
MEAN RADIUS	:	.764	.706	.629
MAX RADIUS	:	1.335	1.114	.892
HORIZONTAL SPREAD	:	1.993	1.661	1.244
VERTICAL SPREAD	:	1.739	1.536	1.536
EXTREME SPREAD	:	2.525	1.693	1.597
NUMBER IN ONE INCH CIRCLE	=		2	
NUMBER IN TWO INCH CIRCLE	=		8	
NUMBER IN THREE INCH CIRCLE	=		10	

9 Jun 1989

FILE:/PATTERNING/CENTERFIRE_PATT/C6225108.1

CENTERFIRE PATTERNS # 3



IN CIR

1in = 2

2in = 6

3in = 9

HS= 3.066

VS= 1.572

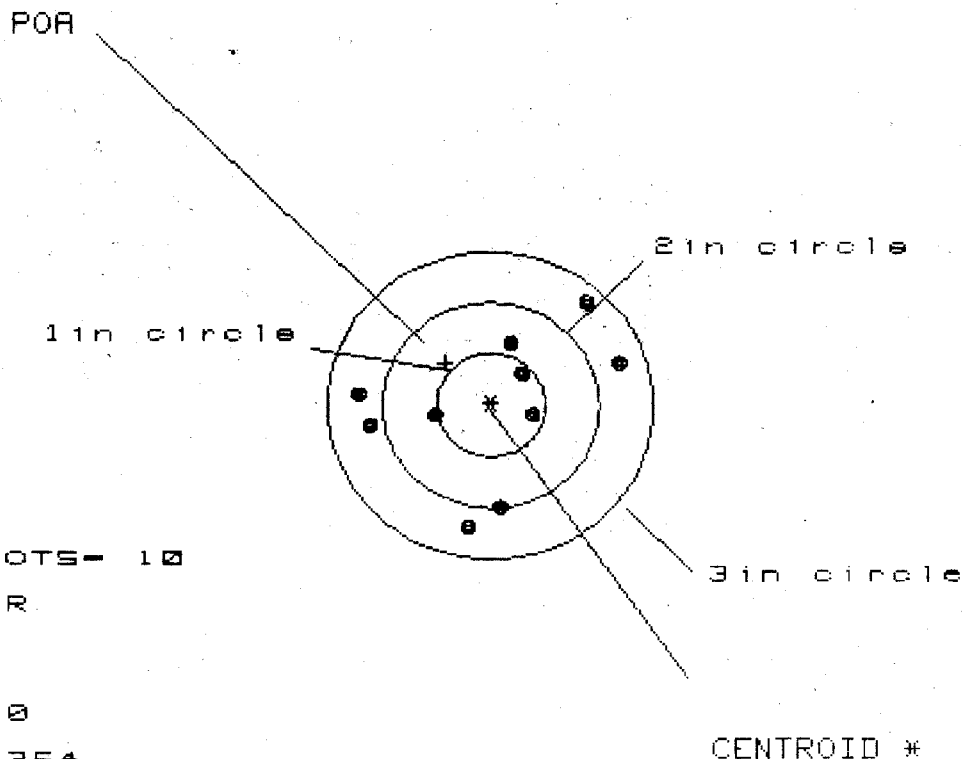
GS= 3.128

PATTERN #	:			
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.459	1.281	1.062
MINIMUM X	:	-1.607	-1.143	-.983
MAXIMUM Y	:	.749	.811	.812
MINIMUM Y	:	-.823	-.761	-.760
CENTROID X	:	.316	.494	.334
CENTROID Y	:	-.195	-.257	-.258
POA TO CENTROID in.	:	.371	.557	.422
MIN RADIUS	:	.054	.067	.112
MEAN RADIUS	:	.850	.747	.663
MAX RADIUS	:	1.702	1.312	1.306
HORIZONTAL SPREAD	:	3.066	2.424	2.045
VERTICAL SPREAD	:	1.572	1.572	1.572
EXTREME SPREAD	:	3.128	2.507	2.481
NUMBER IN ONE INCH CIRCLE	=		2	
NUMBER IN TWO INCH CIRCLE	=		6	
NUMBER IN THREE INCH CIRCLE	=		9	

9 Jun 1989

FILE:/PATTERNING/CENTERFIRE_PATT/C6225108.1

CENTERFIRE PATTERNS # 4



OF SHOTS- 10

IN CIR

1in - 2

2in - 5

3in - 10

HS- 2.364

VS- 2.158

GS- 2.420

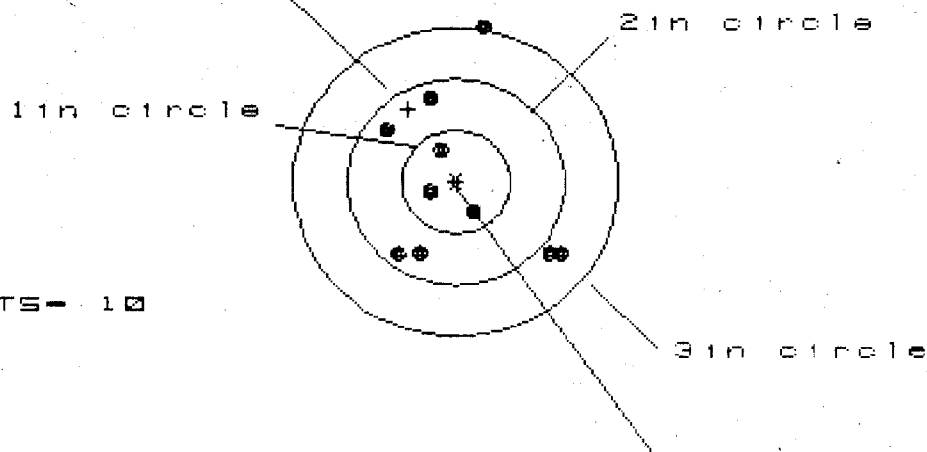
PATTERN #	:	10	9	8
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.179	1.279	.688
MINIMUM X	:	-1.185	-1.085	-.925
MAXIMUM Y	:	1.011	.701	.762
MINIMUM Y	:	-1.147	-1.035	-.974
CENTROID X	:	.416	.316	.156
CENTROID Y	:	-.410	-.522	-.583
POA TO CENTROID in.	:	.584	.610	.604
MIN RADIUS	:	.407	.418	.280
MEAN RADIUS	:	.901	.852	.778
MAX RADIUS	:	1.353	1.370	.976
HORIZONTAL SPREAD	:	2.364	2.364	1.613
VERTICAL SPREAD	:	2.158	1.736	1.736
EXTREME SPREAD	:	2.420	2.382	1.783
NUMBER IN ONE INCH CIRCLE	=	2		
NUMBER IN TWO INCH CIRCLE	=	5		
NUMBER IN THREE INCH CIRCLE	=	10		

9 Jun 1989

FILE:/PATTERNING/CENTERFIRE_PATT/C6225108.1

CENTERFIRE PATTERNS # 5

FOR



OF SHOTS - 10

IN CIR

1in = 3

2in = 7

3in = 9

HS = 1.582

VS = 2.229

GS = 2.377

CENTROID *

PATTERN #	:	5		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	.913	.944	1.058
MINIMUM X	:	-.669	-.638	-.524
MAXIMUM Y	:	1.494	1.009	.939
MINIMUM Y	:	-.735	-.569	-.639
CENTROID X	:	.439	.408	.294
CENTROID Y	:	-.710	-.876	-.806
POR TO CENTROID in.	:	.835	.967	.858
MIN RADIUS	:	.209	.201	.067
MEAN RADIUS	:	.808	.707	.640
MAX RADIUS	:	1.519	1.073	1.198
HORIZONTAL SPREAD	:	1.582	1.582	1.582
VERTICAL SPREAD	:	2.229	1.578	1.578
EXTREME SPREAD	:	2.377	1.967	1.949
NUMBER IN ONE INCH CIRCLE	=		3	
NUMBER IN TWO INCH CIRCLE	=		7	
NUMBER IN THREE INCH CIRCLE	=		9	

RECEIVING AND ESTIMATING REPORT

COMMENTS

ORDER
R 96-06348

INITIAL CUSTOMER ORDER NO.

M24 SNIPER

L/I STUDS

FPS

DATE RECEIVED

DATE OPENED

DATE CODE

SERIAL NUMBER

NEW SERIAL NUMBER

MODEL AND GRADE

02/26/96

02/26/96

0J 7-89

C6225108

700 7.62

NATO

ACCESSORIES

W/STUDS

SCOPE BASE

FROM:

DEPT. OF THE ARMY
A CO. 3RD BATT. 1ST SP. FORCES
BLDG 9177, BOX 339502
FT LEWIS WA 98433

SHIP TO:

DEPT. OF THE ARMY
A CO. 3RD BATT. 1ST SP. FORCES
BLDG 9177, BOX 339502
FT LEWIS WA 98433

CUST NO: 138744 C.O.D.L

ACCOUNT NUMBER

ACCOUNT NUMBER N/C

WRITE ☐

PROM. DATE

ESTIMATED

VIA

UPS

GUN CONDITION

- ☐ NEW
☐ LIGHTLY WORN
☐ WORN
☐ VERY WORN
☐ UNREPAIRABLE
☐ MARRED

REPAIR CHARGE

EXCISE

TAX

INSURANCE

UPS

PARCEL POST

TOTAL

CUSTOMER CONCERN

AMMO

FUNCTION

FINISH

ACCURACY

FIT

INSPECT

CYCLE

A1

B1

TRIGGER GROUP

B2

E1

F1

BOLT ASSY.

B3

E2

F2

BARREL ASSY.

B4

D1

E3

F3

REC. ASSY.

B5

D2

E4

F4

WOOD

C1

D3

E5

F5

METAL

C2

MAIN FAULT

PARTS

COMMENTS

Barrel - 96003

Re powder Coat Trigger
Guard Assy, Front & Rear
Sight Bases
Reticle Scope Base, Swivel
Studs

REPAIRMAN

PROOF

CLEAN

TEST

TARGET

PATTERN

GALLERY TESTER

DATE

DATE

DATE

DATE

DATE

OFFICE COPY

RD6925 REV. 1/94

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER
KINZER V. REMINGTON

M2400049178

CLASSIFIED DOCUMENT ACCOUNTABILITY RECORD						DATE	
For use of this form, see AR 380-5; the proponent agency is the Office, Assistant Chief of Staff for Intelligence.						22 Feb 96	
SECTION A - GENERAL							
TO: REMINGTON ARMS CO., INC. ATTN: FABRICATED PRODUCTS DEPT. 14 HOEFLER AVE. LION, NY 13357-1816				FROM: A COMPANY, 3RD BATT., 1ST SPECIAL FORCES GROUP FORT LEWIS, WA 98433			
DATE RECEIVED		ACTION OFFICE(S)		SUSPENSE DATE(S)		REGISTER OR CONTROL NO.	
CONTROL LOG OR FILE NO.	CLASSIFICATION	NUMBER OF COPIES	DESCRIPTION (Type, File Ref., Unclassified Subject or Short Title and Number of Indorsements/Incls)		DATE OF DOCUMENT	ORIGINATOR	
1		2	M24 7.62 SNIPER RIFLE W/SCOPE MOUNTS - 2 EACH SERIAL # C6225201 C6225108		22 FEB 96	M. Davis	
SECTION B - ROUTING							
TO		COPY NO.	DATE	I ACKNOWLEDGE RECEIPT OF THE MATERIAL DESCRIBED HEREON			
				PRINTED NAME	SIGNATURE		
1.							
2.							
3.							
4.							
5.							
SECTION C - DESTRUCTION CERTIFICATE (Check appropriate block)							
MATERIAL DESCRIBED HEREON HAS BEEN:						PAGE OR COPY NO	
☐ DESTROYED		☐ TORN IN HALF AND PLACED IN A CLASSIFIED WASTE CONTAINER (AR 380-5)					
OFFICE SYMBOL	DATE	PRINTED NAME OF CUSTODIAN OR REP			SIGNATURE		
DESTRUCTION RECORD NO.	DATE	PRINTED NAME OF CERTIFYING/DESTR. OFF.			SIGNATURE		
PAGE OR COPY NUMBER	DATE	PRINTED NAME OF WITNESSING OFFICIAL			SIGNATURE		
SECTION D - REPRODUCTION AUTHORITY							
NUMBER OF COPIES TO BE REPRODUCED		AUTHORIZED BY			DATE		
SECTION E - RECEIPT/TRACER ACTION (Check appropriate block)							
☐ RECEIPT OF DOCUMENT(S) ACKNOWLEDGED				☐ DOCUMENT(S) HAVE NOT BEEN RECEIVED			
☐ TRACER ACTION: SIGNED RECEIPT FOR MATERIAL DESCRIBED ABOVE HAS NOT BEEN RECEIVED.							
DATE		PRINTED NAME, GRADE OR TITLE			SIGNATURE		
COMMENTS							

Remington ARMS . :

EQUIPMENT INSPECTION AND MAINTENANCE WORKSHEET									
For use of this form, see DA PAM 738-750 and 738-751; the proponent agency is DCSLOG									
1. ORGANIZATION		2. NOMENCLATURE AND MODEL							
Aco / 3rd bat 1st specid		Forces grp m24 SWS							
3. REGISTRATION/SERIAL/NSN	4a. MILES	b. HOURS	c. ROUNDS FIRED	d. HOT STARTS	5. DATE	6. TYPE INSPECTION			
7. APPLICABLE REFERENCE									
TM NUMBER		TM DATE		TM NUMBER		TM DATE			
COLUMN a - Enter TM item number.				COLUMN d - Show corrective action for deficiency or shortcoming listed in Column c.					
COLUMN b - Enter the applicable condition status symbol.				COLUMN e - Individual ascertaining completed corrective action initial in this column.					
COLUMN c - Enter deficiencies and shortcomings.									
STATUS SYMBOLS									
"X"-Indicates a deficiency in the equipment that places it in an inoperable status. CIRCLED "X"-Indicates a deficiency, however, the equipment may be operated under specific limitations as directed by higher authority or as prescribed locally, until corrective action can be accomplished. HORIZONTAL DASH "-"-Indicates that a required inspection, component replacement, maintenance operation check, or test flight is due but has not been accomplished, or an overdue MWO has not been accomplished.					DIAGONAL "/"-Indicates a materiel defect other than a deficiency which must be corrected to increase efficiency or to make the item completely serviceable. LAST NAME INITIAL IN BLACK, BLUE-BLACK INK, OR PENCIL-Indicates that a completely satisfactory condition exists. FOR AIRCRAFT-Status symbols will be recorded in red.				
ALL INSPECTIONS AND EQUIPMENT CONDITIONS RECORDED ON THIS FORM HAVE BEEN DETERMINED IN ACCORDANCE WITH DIAGNOSTIC PROCEDURES AND STANDARDS IN THE TM CITED HEREON.									
8a. SIGNATURE (Person(s) performing inspection)		8b. TIME		9a. SIGNATURE (Maintenance Supervisor)		9b. TIME		10. MANHOURS REQUIRED	
SSG HAZEN, DONALD									
Donald C Hazen III									
TM ITEM NO.	STATUS	DEFICIENCIES AND SHORTCOMINGS			CORRECTIVE ACTION			INITIAL WHEN CORRECTED	
a	b	c			d			e	
1		C 6225412			Excess of				
2		C 6349192			10,000 RD/GUN				
3		C 6225398			Each needs rebarreling				
4		C 6348832			T1 Triggers/stocks				
5		C 6225201							
6		C 6225108			Weapon were shot				
7		C 6348740			in sniper course				
8		C 6225598			They Notified us of				
9		C 6348817			the need for rebarreling				
10		C 6225376			do to Excess rounds				
11		C 6348872			And poor Shot Performance				
		Each weapon			has scope mount				
		POC. SSG HAZEN,							
		3 Bat 1st S.F. Group							
		206 - 967-8813							

DA FORM 2404
1 APR 79

Replaces edition of 1 Jan 64, which will be used

CONTRACT # DAAA21-87-C-0086

GUN SERIAL # C6225108

OP. #	OP. NAME	READINGS	DATE	INITIAL
575 & 580	Assemble Action and Stock		3/20/96	RW
600	Proof		3/20/96	RW
607	Check Headspace		3/20/96	RW
610	Dis-assemble Gun		3/20/96	RW
612	Magnaflux Barrel Action			
	Magnaflux Bolt			
615	Rollmark Caliber			
617	Drill and Tap Sight Holes			
618	Polish Barrel			
620	Apply Coatings (Barrel Action)			
	Apply Coating (Bolt)			
625	Final Assembly A) Clean inside of Bolt Assembly		4/2/96	RW
	B) Inspect Rear Firing Pin Hole for Chamfer in Bolt Head		4/2/96	RW
	C) Inspect Ejector Hole for Chamfer		4/2/96	RW
	D) Oil Firing Pin Ass'y		4/2/96	RW
	E) Adjust Trigger Pull to Min Setting and Stake			

Final Inspection

Sn: C6225/08

DATE REC'D: 2/26/96

DATE RET'D:

AUDITOR: RW

Item:

Barrel Assy.

☒ BARREL☒ RECEIVER☒ FRONT SIGHT BLOCK☒ REAR SIGHT BLOCK☒ SCREWS☒ FINISH

Scope Assy.

☐ Scope☐ Scope Rings☐ Mounting Screws☒ Mounting Base☐ Screws☐ Finish☐ Looseness☐ CLARITY

Misc.

☐ DD-250☐ BAR CODE☐ PACKAGING

Item:

Stock Assy.

☒ Stock☒ Sling Swivel Studs☒ ADJUSTABLE BUTT PLATE☒ LOCK NUTS☒ BARREL CLEARANCE☒ COLOR/FINISH

Systems Case

☐ Scope Case☐ Iron Sights☐ Deployment Kit

Trigger

☒ SAFETY OPERATION☒ SET

Comments: _____

CENTROIDAL DISTANCE CALCULATIONS
FOR RIFLE # 06225108
5 Feb 1988

CENTROIDAL DISTANCES

0 TO	1	1.0202
.1 TO	2	.25224
1 TO	3	.443947
1 TO	4	.224502
1 TO	5	.666147

s_3^2
+ <----POA

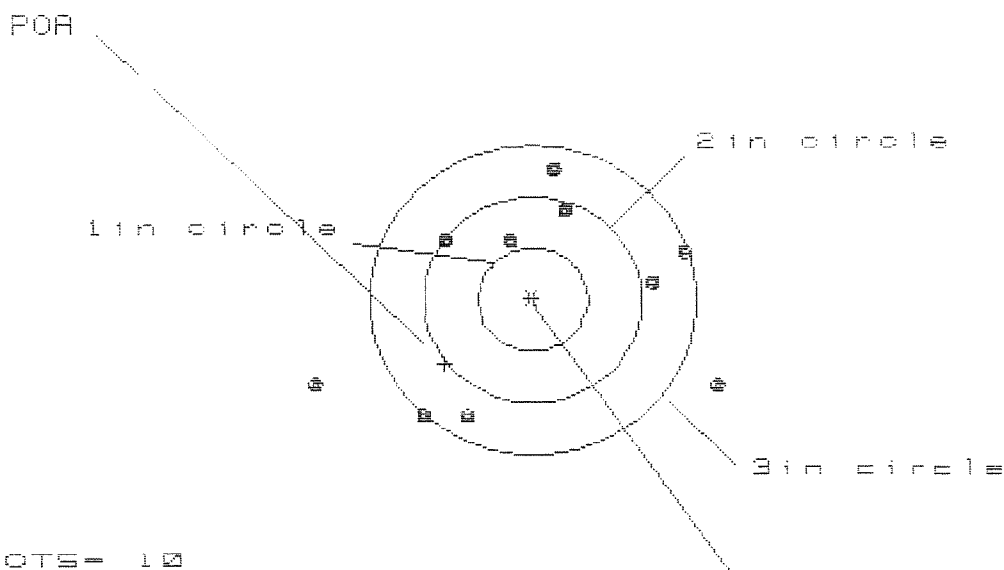
THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: .5494
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: .6768
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .871722

THE HMR FOR THIS RIFLE IS: 1.109

5 Feb 1988

FILE:/PATTERNING/CENTERFIRE_PATT/06225188

CENTERFIRE PATTERNS # 1



OF SHOTS= 10

IN CIR

1in = 0

2in = 3

3in = 7

HS= 3.652

VS= 2.371

GS= 3.652

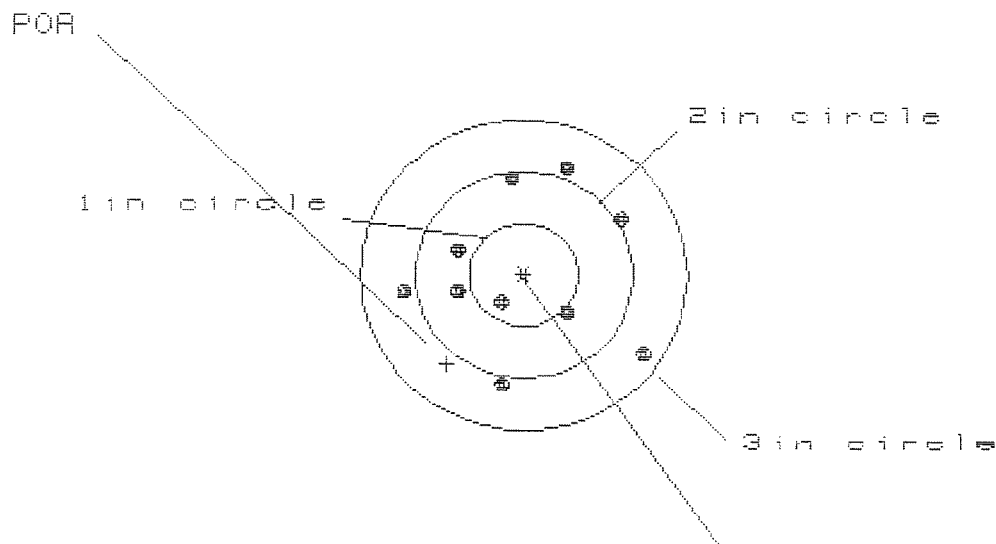
CENTROID #

PATTERN #	1	2	3
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.652	1.430	1.340
MINIMUM X	-2.000	-1.227	-1.048
MAXIMUM Y	1.225	1.134	1.022
MINIMUM Y	-1.146	-1.237	-1.349
CENTROID X	.804	1.027	.848
CENTROID Y	.628	.719	.831
FOR TO CENTROID in.	1.021	1.254	1.187
MIN RADIUS	.652	.688	.491
MEAN RADIUS	1.317	1.192	1.096
MAX RADIUS	2.161	1.737	1.702
HORIZONTAL SPREAD	3.652	2.657	2.388
VERTICAL SPREAD	2.371	2.371	2.371
EXTREME SPREAD	3.652	2.882	2.882
NUMBER IN ONE INCH CIRCLE =	0		
NUMBER IN TWO INCH CIRCLE =	3		
NUMBER IN THREE INCH CIRCLE =	7		

5 Feb 1988

FILE:/PATTERNING/CENTERFIRE_PATT/08225108

CENTERFIRE PATTERNS # 2



OF SHOTS= 10

IN CIR

1 in = 1

2 in = 5

3 in = 10

HS= 2.242

VS= 2.164

GS= 2.319

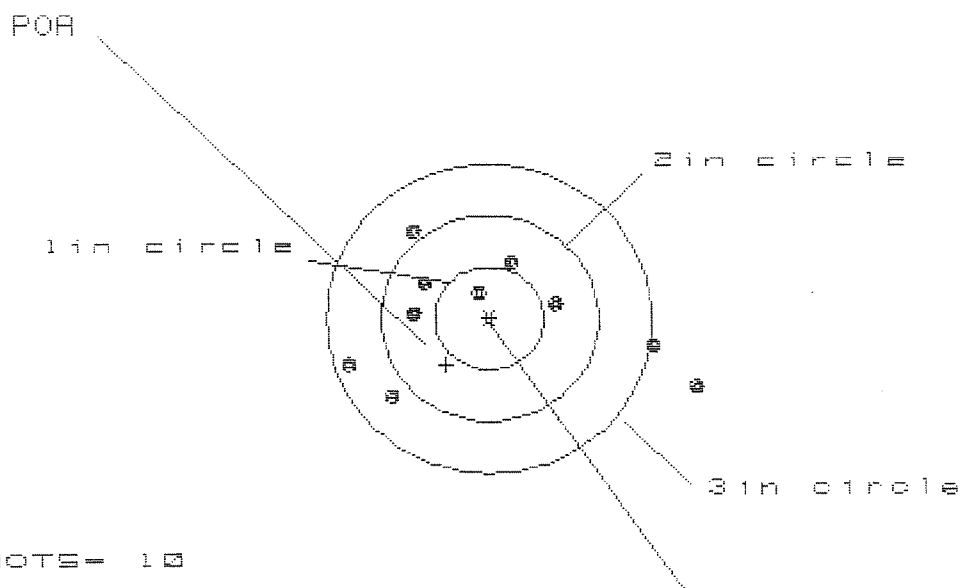
CENTROID *

PATTERN #	:	2		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.122	1.050	1.118
MINIMUM X	:	-1.120	-.995	-.927
MAXIMUM Y	:	1.066	.984	1.025
MINIMUM Y	:	-1.098	-1.180	-1.057
CENTROID X	:	.705	.580	.512
CENTROID Y	:	.860	.942	.819
POA TO CENTROID in.	:	1.112	1.107	.966
MIN RADIUS	:	.290	.310	.180
MEAN RADIUS	:	.892	.827	.758
MAX RADIUS	:	1.343	1.181	1.251
HORIZONTAL SPREAD	:	2.242	2.045	2.045
VERTICAL SPREAD	:	2.164	2.164	2.082
EXTREME SPREAD	:	2.319	2.242	2.150
NUMBER IN ONE INCH CIRCLE	=		1	
NUMBER IN TWO INCH CIRCLE	=		5	
NUMBER IN THREE INCH CIRCLE	=		10	

5 Feb 1908

FILE:/PATTERNING/CENTERFIRE_PATT/06225108

CENTERFIRE PATTERNS # 3



OF SHOTS- 10

IN CIR

1in = 1

2in = 5

3in = 8

HS= 3.131

VS= 1.666

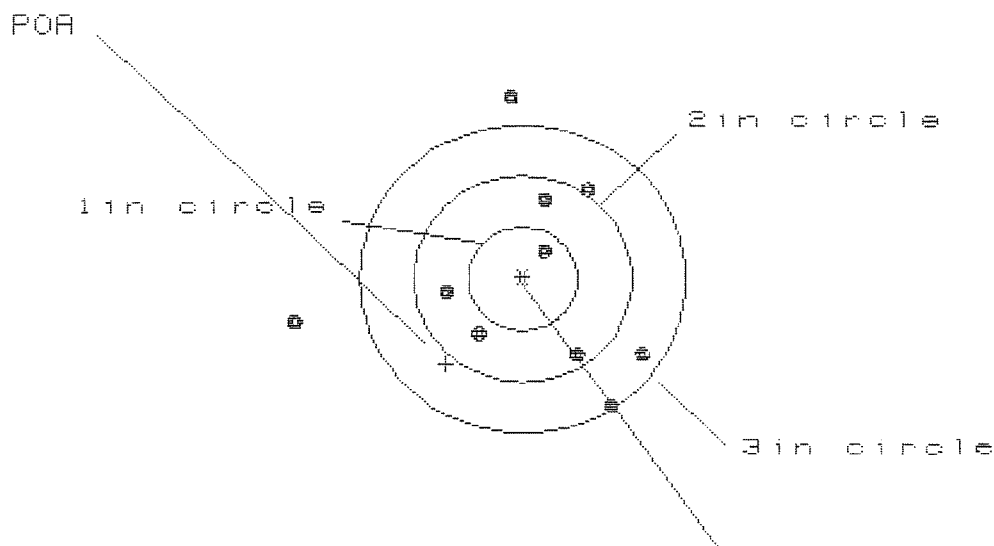
GS= 3.138

PATTERN #	:	3		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.877	1.733	1.032
MINIMUM X	:	-1.254	-1.045	-.829
MAXIMUM Y	:	.873	.796	.753
MINIMUM Y	:	-.793	-.870	-.913
CENTROID X	:	.396	.187	-.029
CENTROID Y	:	.453	.530	.573
POA TO CENTROID in.	:	.602	.562	.574
MIN RADIUS	:	.230	.170	.283
MEAN RADIUS	:	1.003	.840	.693
MAX RADIUS	:	2.000	1.767	1.033
HORIZONTAL SPREAD	:	3.131	2.778	1.861
VERTICAL SPREAD	:	1.666	1.666	1.666
EXTREME SPREAD	:	3.138	2.786	1.971
NUMBER IN ONE INCH CIRCLE	=		1	
NUMBER IN TWO INCH CIRCLE	=		5	
NUMBER IN THREE INCH CIRCLE	=		8	

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FILE:/PATTERNING/CENTERFIRE_PATT/C82251B8

CENTERFIRE PATTERNS # 4



OF SHOTS= 10

IN CIR

1in = 1

2in = 5

3in = 8

HS= 3.241

VS= 3.019

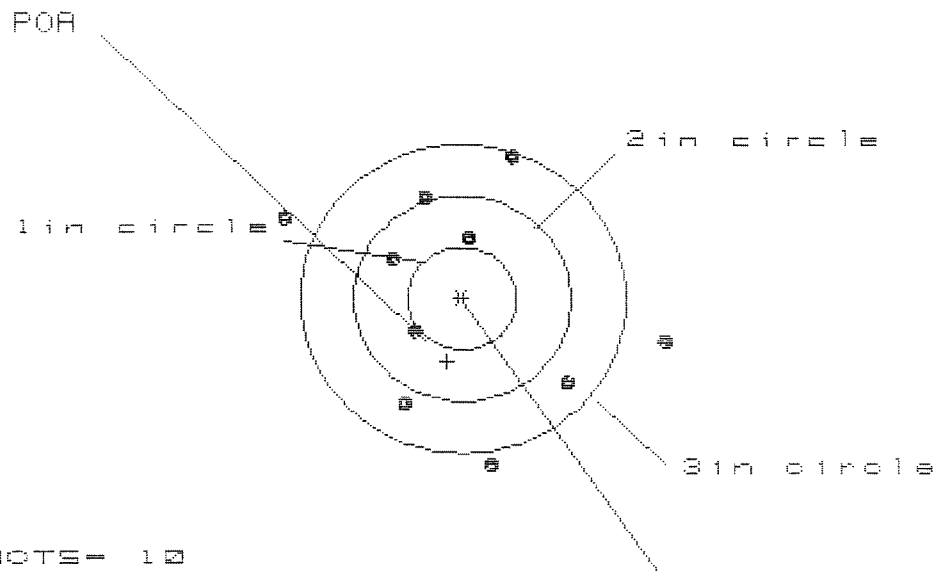
GS= 3.254

PATTERN #	:	4		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.096	.858	.819
MINIMUM X	:	-2.145	-.973	-1.012
MAXIMUM Y	:	1.772	1.727	.996
MINIMUM Y	:	-1.248	-1.292	-1.076
CENTROID X	:	.704	.942	.981
CENTROID Y	:	.829	.873	.657
POA TO CENTROID in.	:	1.087	1.284	1.180
MIN RADIUS	:	.373	.267	.486
MEAN RADIUS	:	1.122	.981	.880
MAX RADIUS	:	2.181	1.755	1.193
HORIZONTAL SPREAD	:	3.241	1.831	1.831
VERTICAL SPREAD	:	3.019	3.019	2.072
EXTREME SPREAD	:	3.254	3.140	2.125
NUMBER IN ONE INCH CIRCLE	=		1	
NUMBER IN TWO INCH CIRCLE	=		5	
NUMBER IN THREE INCH CIRCLE	=		8	

5 Feb 1988

FILE:/PATTERNING/CENTERFIRE_PATT/C8225188

CENTERFIRE PATTERNS # 5



OF SHOTS- 10

IN CIR

1 in = 3

2 in = 3

3 in = 7

HS= 3.539

VS= 2.935

GS= 3.721

CENTROID *

PATTERN #	:	5		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.906	1.124	.946
MINIMUM X	:	-1.633	-1.421	-.652
MAXIMUM Y	:	1.365	1.320	1.408
MINIMUM Y	:	-1.570	-1.615	-1.527
CENTROID X	:	.138	-.074	.104
CENTROID Y	:	.614	.659	.571
POA TO CENTROID in.	:	.629	.663	.580
MIN RADIUS	:	.505	.387	.453
MEAN RADIUS	:	1.211	1.093	1.043
MAX RADIUS	:	1.948	1.689	1.560
HORIZONTAL SPREAD	:	3.539	2.545	1.598
VERTICAL SPREAD	:	2.935	2.935	2.935
EXTREME SPREAD	:	3.721	3.007	2.940
NUMBER IN ONE INCH CIRCLE	=		0	
NUMBER IN TWO INCH CIRCLE	=		3	
NUMBER IN THREE INCH CIRCLE	=		7	