

C6611657

MODEL 700™ M24

Model **SMS**™

Action

Barrel Length

Capacity

Order No. **5716**

*Includes 1 in chamber.

Remington

M2400033905

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER

Repair Inquiry

Repair Number: RE00147505

Serial: C6611657 Model 700 Center Fire Caliber:
7.62 NATO Produced: 06/19/1991

Repairman:

Status:

Closed 7/10/2008 3:18:41 PM

Verify Repair

Address Information

Customer:

☒ Received From

Return To:

☐ Received From

Name: FORT Mc COY POLICE

FORT Mc COY POLICE

Address 1: 1681 W. EATON ROAD

1681 W. EATON ROAD

Address 2: ATTN: MARK HARTMAN

PO Box:

ATTN: MARK HARTMAN

PO Box:

City: FORT Mc COY

FORT Mc COY

State: WI

Zip Code: 54656

Country: US

State: WI

Zip Code: 54656

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
A017	Scope Base	1
A026	Scope	1
A045	Bi Pod	1
A057	Fit and Rear Sgt Base	1

Repair Search

Refresh

Close

nagletj

7/11/2008

11:57 AM

CAPS

NUM

INS

SERL

Number: C6611657

Model: 700



RE00147505

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

R & B NUMBER

147505

SERIAL NUMBER

C6611657

LOG-IN DATE

7-10-08

OPERATION #	OPERATION NAME	DATE	INITIAL
500	DIS-ASSEMBLE GUN	7-18-08	RTZ
505	RE-BARREL	7-19-08	RTZ
560	ASSEMBLE	7-19-08	RTZ
600	PROOF	7-21-08	TRW
605	CHECK HEADSPACE	7-21-08	TRW
610	DIS-ASSEMBLE GUN	7-21-08	RTZ
612	MAGNAFLUX	7/25/08	BH
510	DRILL AND TAP	7-21-08	JA
615	ROLLMARK CALIBER	7/25/08	RT
618	ROTO-BLAST	7-28-08	DG
620	APPLY COATINGS	8-1	
625	FINAL ASSEMBLY	8-4-08	RTZ
640	FUNCTION TEST AND	8-4-08	TRW
650	TARGET	8-4-08	TRW
	MALFUNCTION	CORRECTION	
	MALFUNCTION	CORRECTION	
	MALFUNCTION	CORRECTION	
	MALFUNCTION	CORRECTION	
670	FINAL INSPECTION	8-4-08	IC
	A) HEADSPACE	PASS FAIL	
	B) TRIGGER PULL	215 2.09 210 2.02 224	8508 PSN
	C) SAFETY ON FORCE	6.0 6.0 6.0	8508 PSN
	D) SAFETY OFF FORCE	5.0 6.0 5.0	8508 PSN
	E) FIRING PIN INDENT	.023 .024 .024	8508 PSN
690	PACK		

MAGNA - FLUX
JUL 25 2008
OPERATOR BH

N/A

8/5/08 Fry

Enclosed is a letter from the instructor of a course we just attended. After the cold shots the rounds were hitting 4-6 inches different on the paper. We never knew which direction it was going to be. It constantly changed each day during the course.

I have been told these weapons will be back to us in thirty days or less. We need them for a school in August. If they have to be specially shipped at extra cost to get them here by then please let me know.

If you have any questions please give me a call.

Thank you.

Shawn Harrigan
Detective, SGT
Fort McCoy Police
608-388-3921
608-388-6442 (fax)

From: Derrick Bartlett [mailto:derrick@snipercraft.org]
Sent: Monday, June 23, 2008 6:28 AM
To: Harrigan, Shawn P Mr CIV USA IMCOM
Subject: Equipment

Shawn,

Feel free to forward this to whomever needs to see it. If you would like, I can put it on letterhead and send it as a hardcopy.

Derrick

Recently, your officers attended our Basic Police Sniper Course, in Avon Park, FL. Although all four gave their best efforts, only one, Brian Lord, was able to meet all of the requirements necessary to pass. The problem that overwhelmed them was their equipment.

Lord and Eggen had been issued M24 sniper rifles, topped with fixed ten-power Leupold Mark IV scopes. Both officers had issues with attaining working zeroes each morning, and having the rifle maintain that zero throughout the day. This was due mainly to the scopes. These particular models of scopes did not have regular elevation adjustment turrets. Instead, they were equipped with bullet drop compensators, tuned for a particular type of ammunition (which they weren't shooting). This made it impossible to dial in their weapons for the distances we were working at during the week. Not having a reliable zero forced them to guess constantly where the rifles were going to shoot, and then compensate.

It also appeared the actions were retrofitted to Remington PSS stocks, which haven't been fully free-floated. This caused changes in bullet strikes as the barrels heated during the day. An unacceptable variable for this line of work.

Henke and Harrigan arrived with M16 rifles, topped with Trijicon 5-power ACOG sights. These sights were rendered practically useless, first by being mounted on the carry handles, four inches above the line of bore. Additionally, the scopes were equipped with a post and chevron reticle, which may work for a combat rifle, but is inappropriate for sniper work.

Snipers have a difficult job, which requires equipment they can trust to work every time they call on it. Because they work in situations where shot placement is critical, a high degree of precision is absolutely necessary. Area shooting is not good enough. There is equipment designed specifically for their job, and agencies planning to stand up a sniper program must be willing to commit to acquiring it. Police snipers must have rifles which are capable of sub-MOA accuracy, all of the time. They must have variable power scopes with 1/4 minute adjustments for elevation and windage. The reticle must be a duplex or mildot crosshair design. Trying to make do with inferior, or unsuitable equipment is not acceptable.

If your long-term plan is to have a sniper program capable of performing within a civilian environment, you will need good personnel, proper equipment, and the right training. Without all three, your program is doomed to fail. We are willing to offer any and all assistance necessary to help you to accomplish this. Feel free to contact me.

Derrick

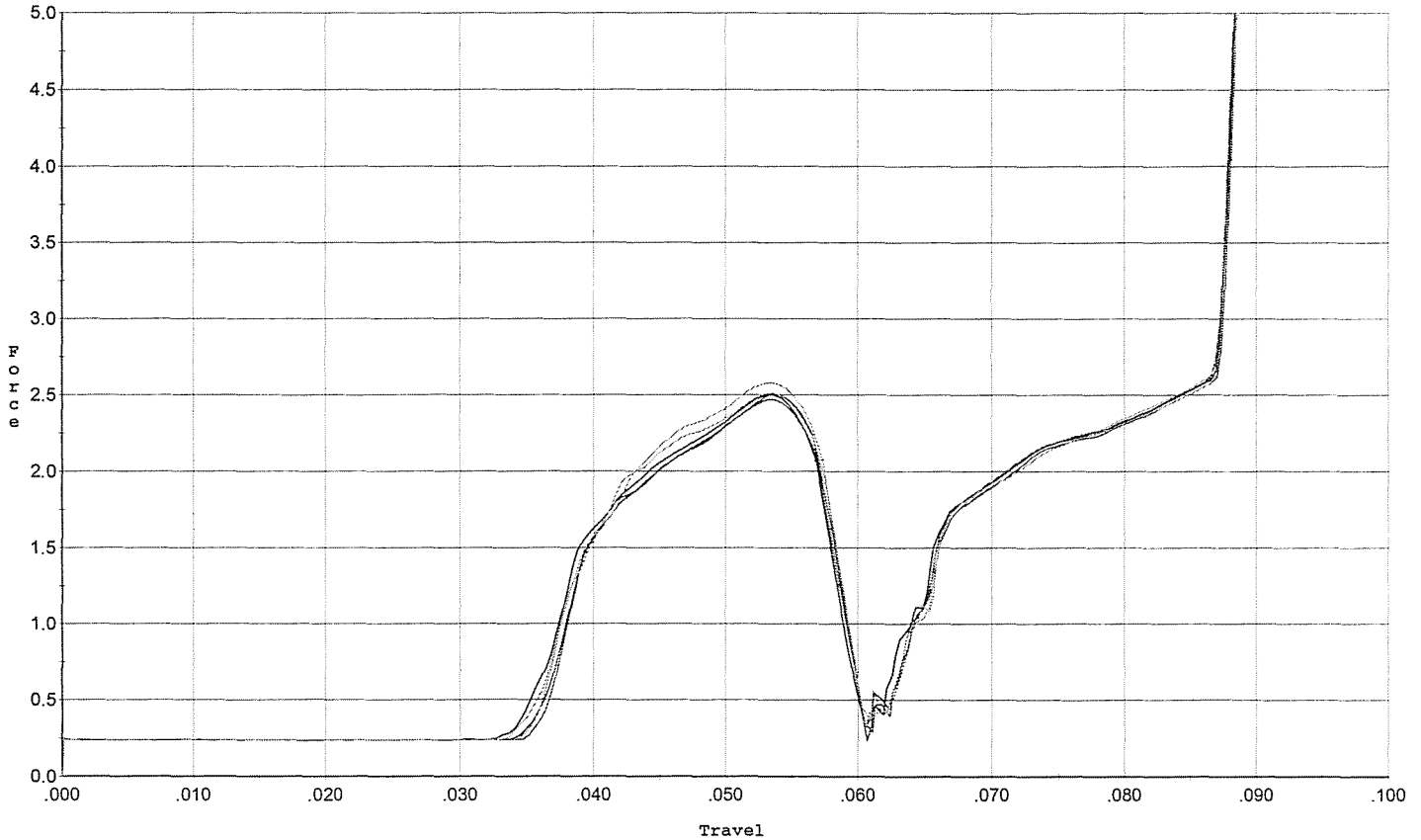
Derrick Bartlett, Managing Director
Snipercraft, Inc.

Don't miss **SniperWeek West2008**, October 2 - 5, 2008, in San Diego, CA.
www.snipercraft.org

Trigger Profile [lbs,inch]

Profile SWS
GunType: Rifle
Make: Remington
Note: R. Putsch 7/17/08

Model: M/24
Serial No: Form #F005
Trigger: 2.5 lbs. ini. +/- .50 lbs.



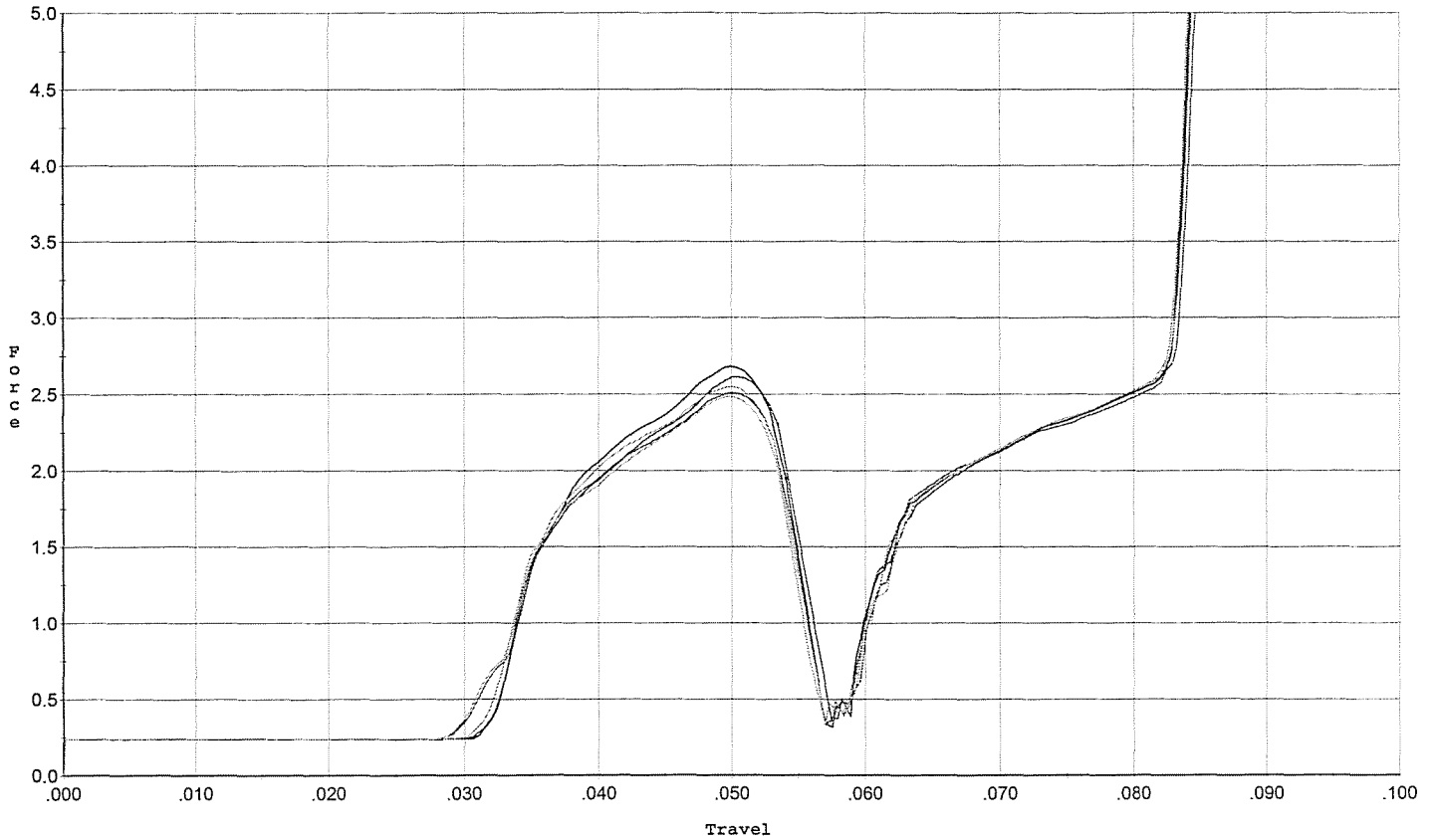
#	Peak Force	Travel To Actuate	Initial Take-up	Overtravel	Energy To Actuate	Lock Time	Action Type
1	2.509	0.058	0.036	0.037	0.052		Set Trigger
2	2.501	0.057	0.034	0.037	0.051		Set Trigger
3	2.471	0.059	0.036	0.037	0.051		Set Trigger
4	2.512	0.058	0.035	0.037	0.053		Set Trigger
5	2.580	0.057	0.035	0.037	0.053		Set Trigger

AVG 2.51

Trigger Profile [lbs,inch]

Profile: SWS
GunType: Rifle
Make: Remington
Note: R. Putch 7/17/08

Model: M/24
Serial No: Form #F005
Trigger: 2.5 lbs. after 50 cycles +/- .50 lbs.



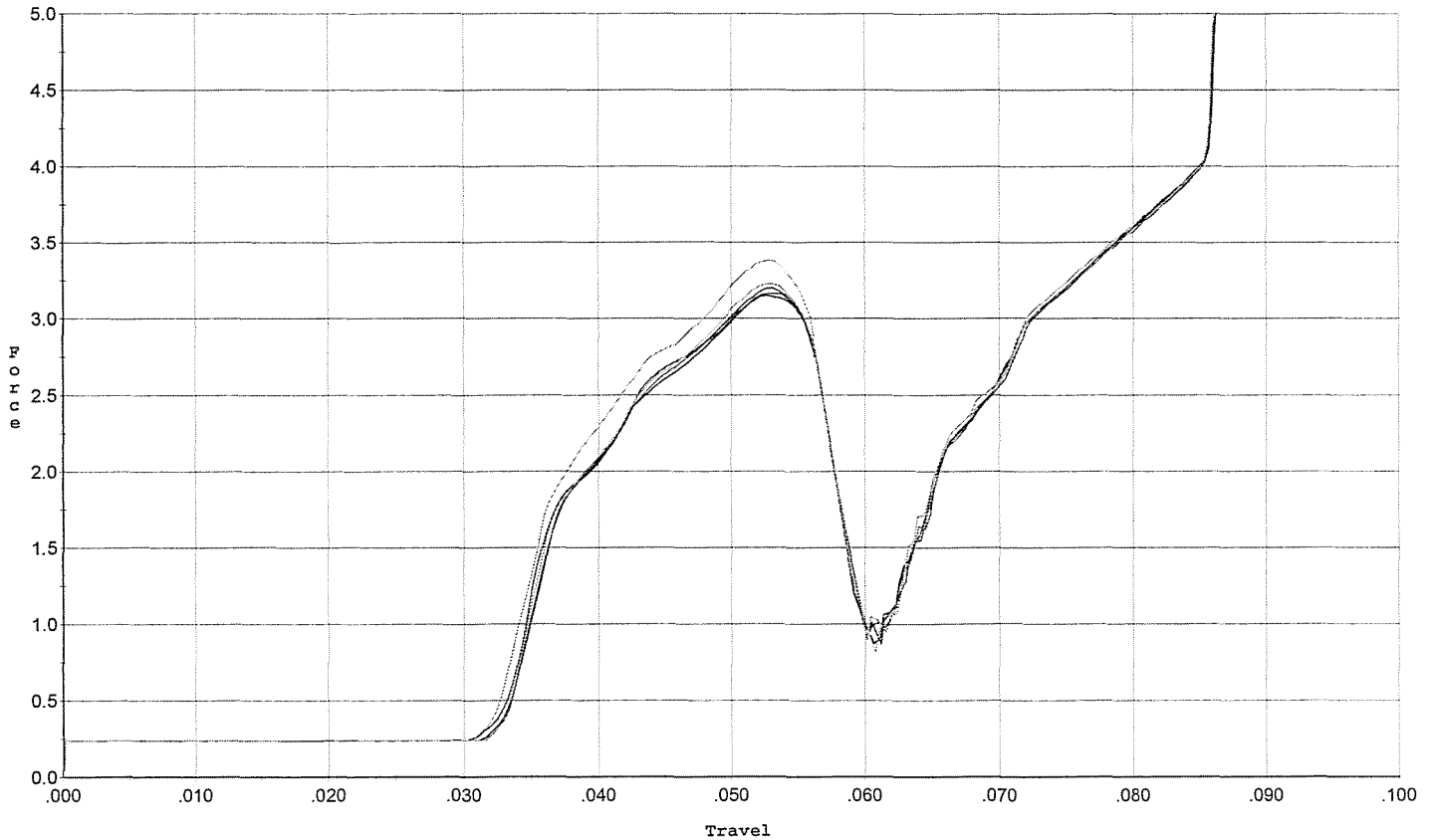
#	Peak Force	Travel To Actuate	Initial Take-up	Overtravel	Energy To Actuate	Lock Time	Action Type
1	2.610	0.053	0.032	0.035	0.052		Set Trigger
2	2.682	0.054	0.032	0.035	0.053		Set Trigger
3	2.509	0.055	0.031	0.035	0.052		Set Trigger
4	2.485	0.053	0.031	0.035	0.051		Set Trigger
5	2.548	0.055	0.032	0.035	0.053		Set Trigger

Avg 2.46

Trigger Profile [lbs,inch]

Profile SWS
GunType: Rifle
Make: Remington
Note: R. Putch 7/17/08

Model: M/24
Serial No: Form #F005
Trigger: 3.0 lbs. ini. +/- .75 lbs.



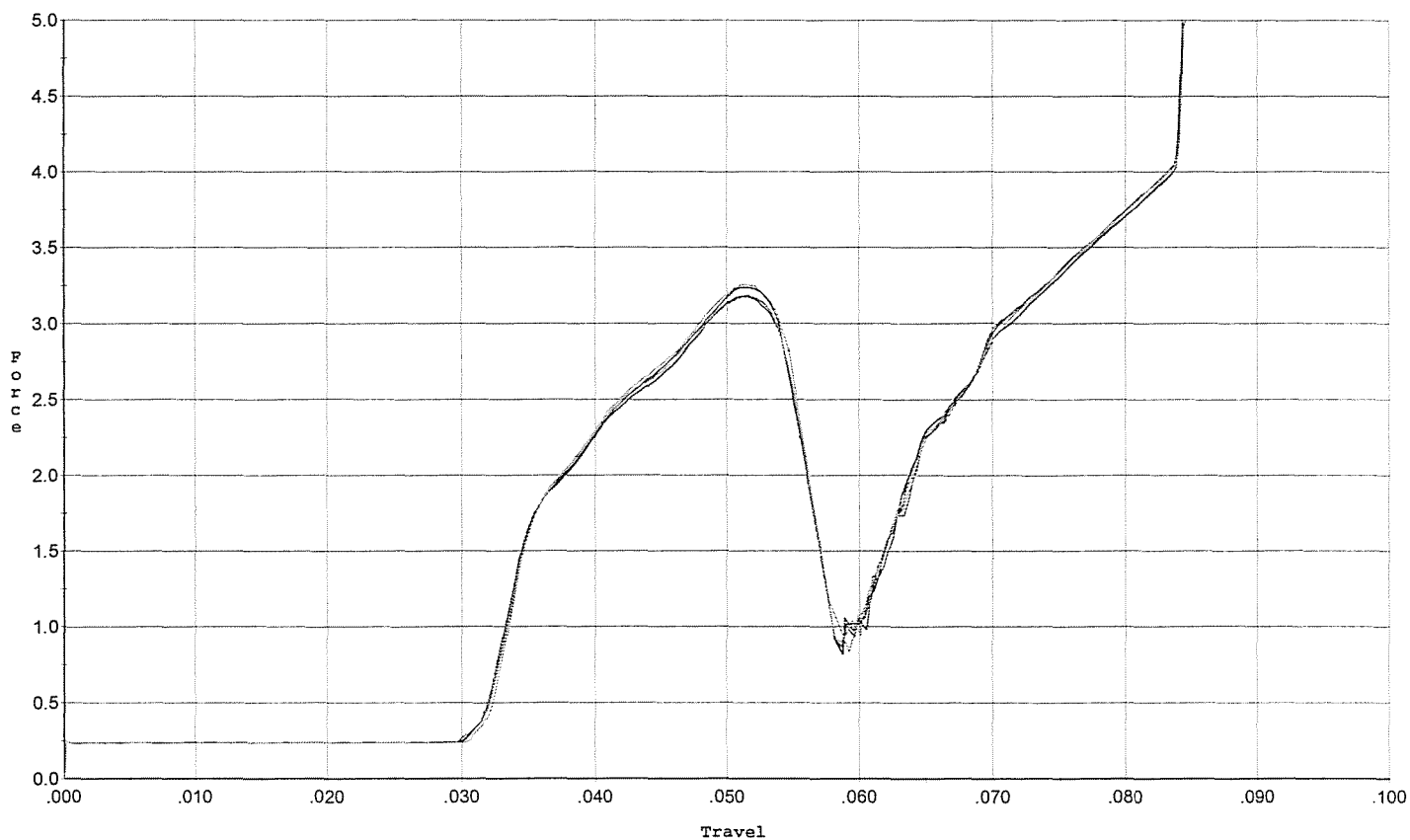
#	Peak Force	Travel To Actuate	Initial Take-up	Overtravel	Energy To Actuate	Lock Time	Action Type
1	3.198	0.056	0.033	0.034	0.066		Set Trigger
2	3.149	0.056	0.033	0.034	0.065		Set Trigger
3	3.162	0.056	0.033	0.034	0.065		Set Trigger
4	3.226	0.056	0.033	0.034	0.066		Set Trigger
5	3.381	0.056	0.032	0.034	0.069		Set Trigger

AVG 3.22

Trigger Profile [lbs,inch]

Profile SWS
GunType: Rifle
Make: Remington
Note: R. Putch 7/17/08

Model: M/24
Serial No: Form #F005
Trigger: 3.0 lbs. after 20 cycles +/- .75 lbs.



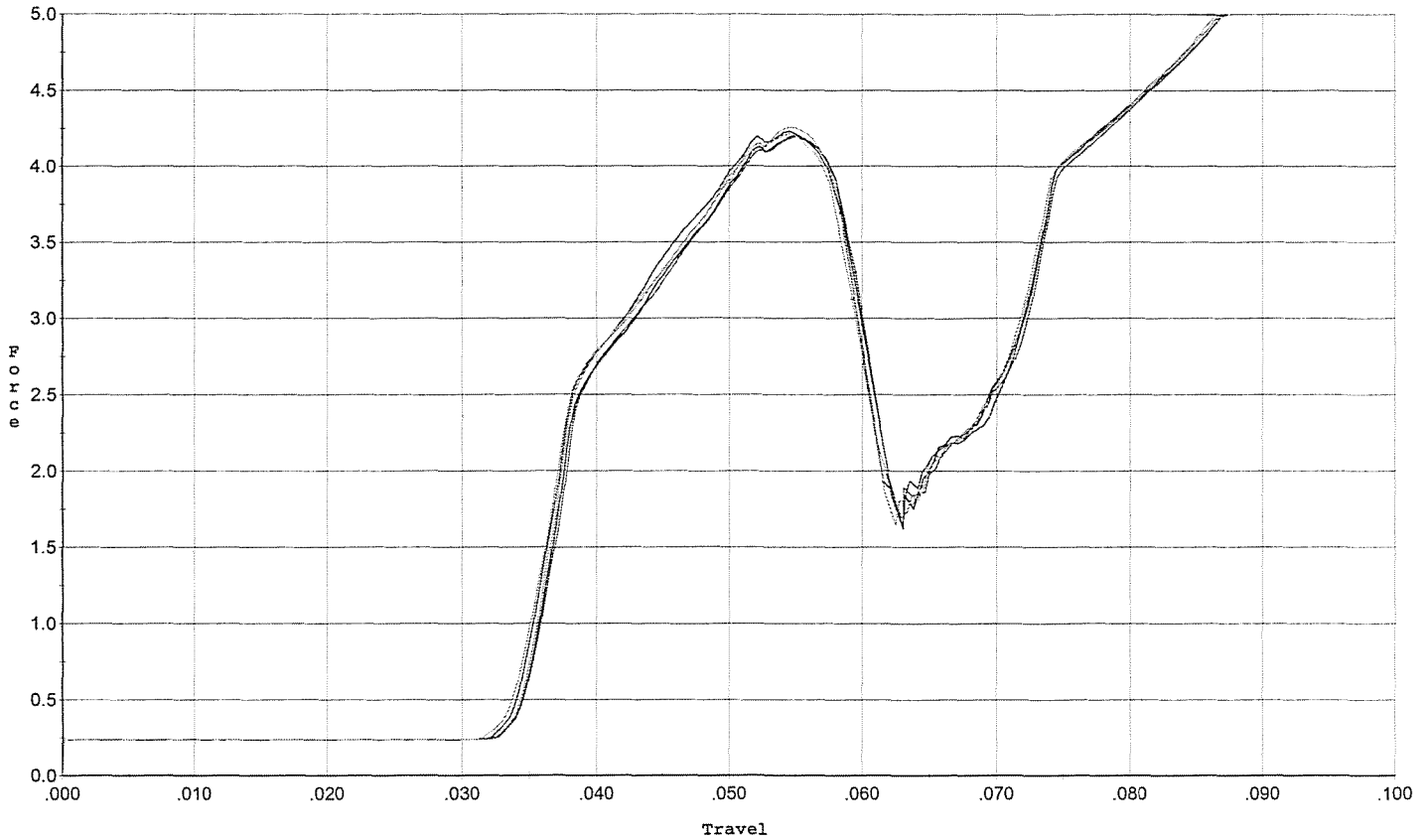
#	Peak Force	Travel To Actuate	Initial Take-up	Overtravel	Energy To Actuate	Lock Time	Action Type
1	3.237	0.056	0.032	0.034	0.066		Set Trigger
2	3.180	0.055	0.032	0.034	0.065		Set Trigger
3	3.174	0.055	0.032	0.034	0.065		Set Trigger
4	3.180	0.055	0.032	0.034	0.065		Set Trigger
5	3.253	0.055	0.032	0.034	0.065		Set Trigger

Avg 3.20

Trigger Profile [lbs,inch]

Profile SWS
GunType: Rifle
Make: Remington
Note: R. Putch 7/17/08

Model: M/24
Serial No: Form #F005
Trigger: 4.0 lbs. ini. +/- 1.0 lbs.



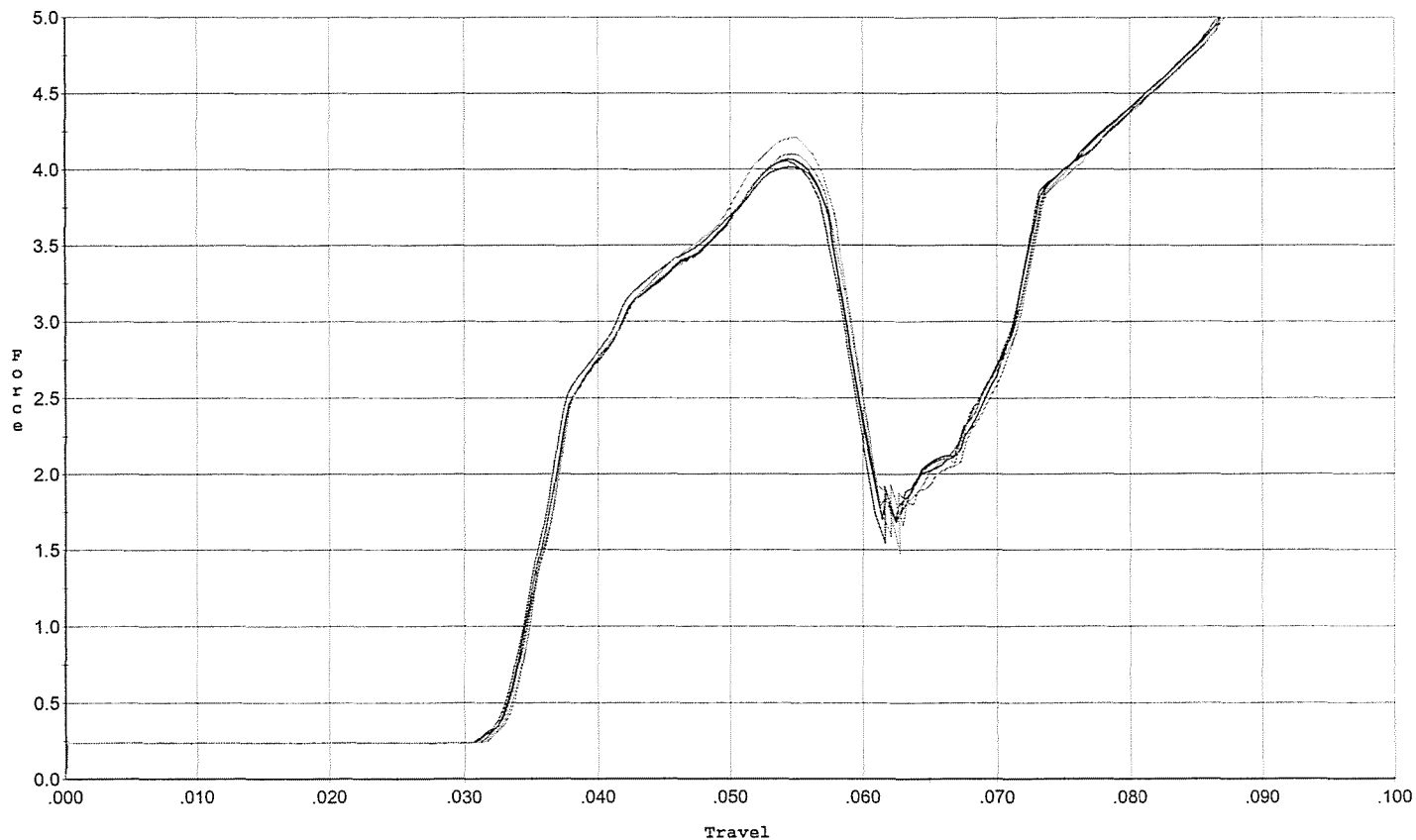
#	Peak Force	Travel To Actuate	Initial Take-up	Overtravel	Energy To Actuate	Lock Time	Action Type
1	4.232	0.058	0.034	0.033	0.090		Set Trigger
2	4.199	0.060	0.034	0.033	0.091		Set Trigger
3	4.199	0.059	0.034	0.033	0.090		Set Trigger
4	4.215	0.059	0.033	0.033	0.091		Set Trigger
5	4.256	0.058	0.034	0.033	0.089		Set Trigger

Avg 4.22

Trigger Profile [lbs,inch]

Profile: SWS
GunType: Rifle
Make: Remington
Note: R. Putch 7/17/08

Model: M/24
Serial No: Form #F005
Trigger: 4.0 lbs. after 20 cycles +/- 1.0 lbs.



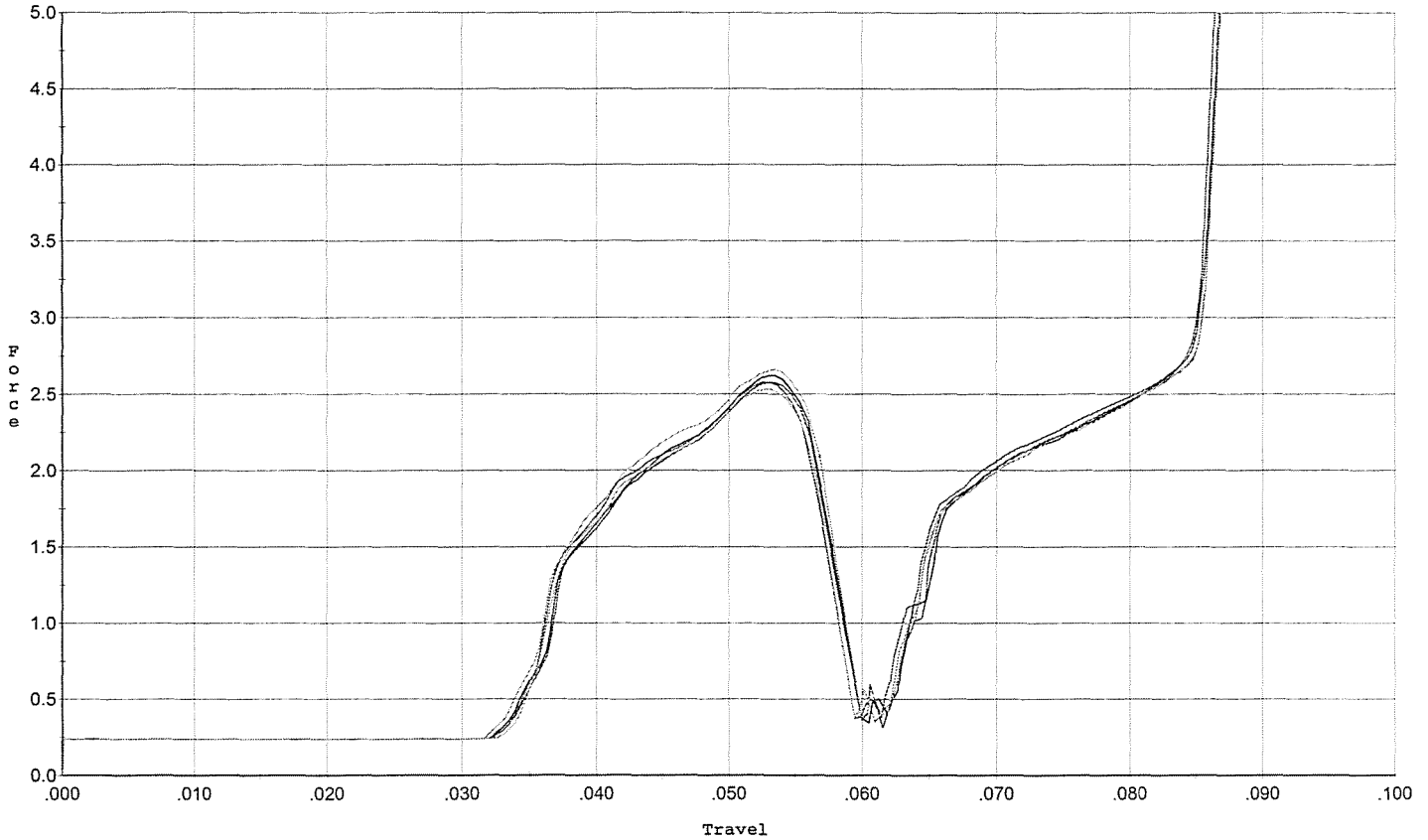
#	Peak Force	Travel To Actuate	Initial Take-up	Overtravel	Energy To Actuate	Lock Time	Action Type
1	4.012	0.057	0.033	0.033	0.085		Set Trigger
2	4.064	0.057	0.033	0.033	0.085		Set Trigger
3	4.051	0.058	0.033	0.033	0.087		Set Trigger
4	4.208	0.058	0.033	0.033	0.087		Set Trigger
5	4.101	0.059	0.033	0.033	0.087		Set Trigger

AVG 4.08

Trigger Profile [lbs,inch]

Profile SWS
GunType: Rifle
Make: Remington
Note: R. Putch 7/17/08

Model: M/24
Serial No: Form #F005
Trigger: reset to 2.5 lbs. +/- .50 lbs. for final test



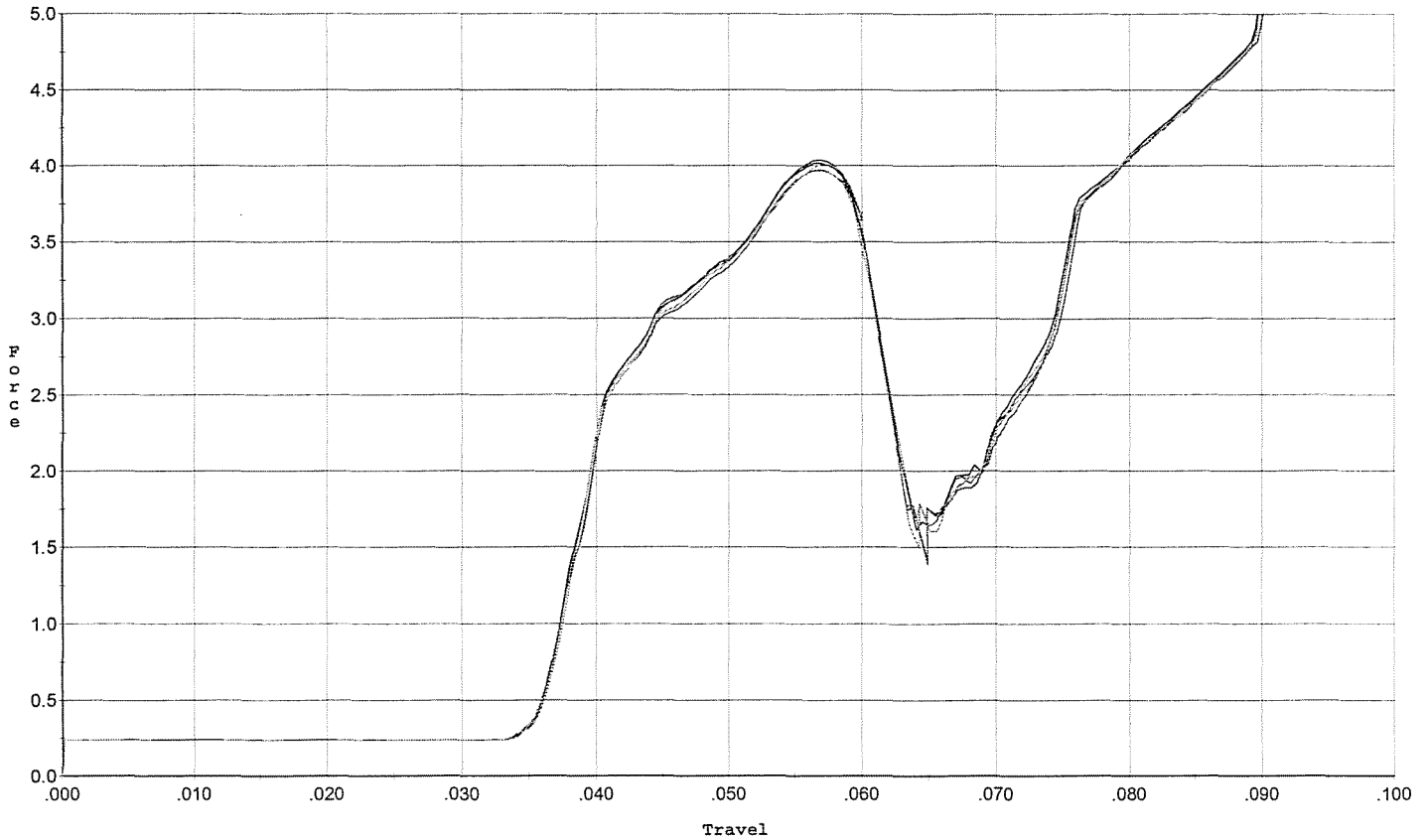
#	Peak Force	Travel To Actuate	Initial Take-up	Overtravel	Energy To Actuate	Lock Time	Action Type
1	2.580	0.056	0.034	0.036	0.051		Set Trigger
2	2.623	0.058	0.034	0.036	0.054		Set Trigger
3	2.577	0.057	0.034	0.036	0.053		Set Trigger
4	2.533	0.056	0.034	0.036	0.052		Set Trigger
5	2.663	0.057	0.033	0.036	0.055		Set Trigger

Avg 2.59

Trigger Profile [lbs,inch]

Profile: SWS
GunType: Rifle
Make: Remington
Note: R. Putch 7/17/08

Model: M/24
Serial No: Form #F005
Trigger: set to 4.0 lbs. +/- 1.0 lbs. for target & accuracy



#	Peak Force	Travel To Actuate	Initial Take-up	Overtravel	Energy To Actuate	Lock Time	Action Type
1	4.037	0.060	0.036	0.034	0.085		Set Trigger
2	4.016	0.060	0.036	0.034	0.085		Set Trigger
3	3.972	0.060	0.036	0.034	0.084		Set Trigger
4	4.008	0.060	0.036	0.034	0.084		Set Trigger
5	3.967	0.061	0.036	0.034	0.085		Set Trigger

Avg 4.00

SNIPER WEAPON SYSTEM - UNIQUE STATISTICAL INFORMATION

FIREARM SERIAL NUMBER / DATASET NAME: C6611657.___0

FILE DATE AND TIME: 08/05/2008 04:54

THE FOLLOWING DATA IS ALL REPORTED IN UNITS OF INCHES

The Average X Centroid of the Five Target Set:	0.075
The Average Y Centroid of the Five Target Set:	0.051
The Average Point of Impact of the Five Target Set:	0.090
The Average Mean Radius of the Five Target Set:	0.672
The Distance from POA to Centroid Target #1:	0.060
The Distance from Centroid Target #2 to Centroid Target #1:	0.064
The Distance from Centroid Target #3 to Centroid Target #1:	0.067
The Distance from Centroid Target #4 to Centroid Target #1:	0.144
The Distance from Centroid Target #5 to Centroid Target #1:	0.209

SERIAL NUMBER: C6611657.___0

TARGET NUMBER: 1

FILE DATE: 08/05/2008

FILE TIME: 04:54

X CENTROID: 0.055

Y CENTROID: 0.025

POA TO CENTROID: 0.060

HORZ SPREAD: 1.476

VERT SPREAD: 2.476

GROUP SPREAD: 2.523

MIN RADIUS: 0.132

MAX RADIUS: 1.364

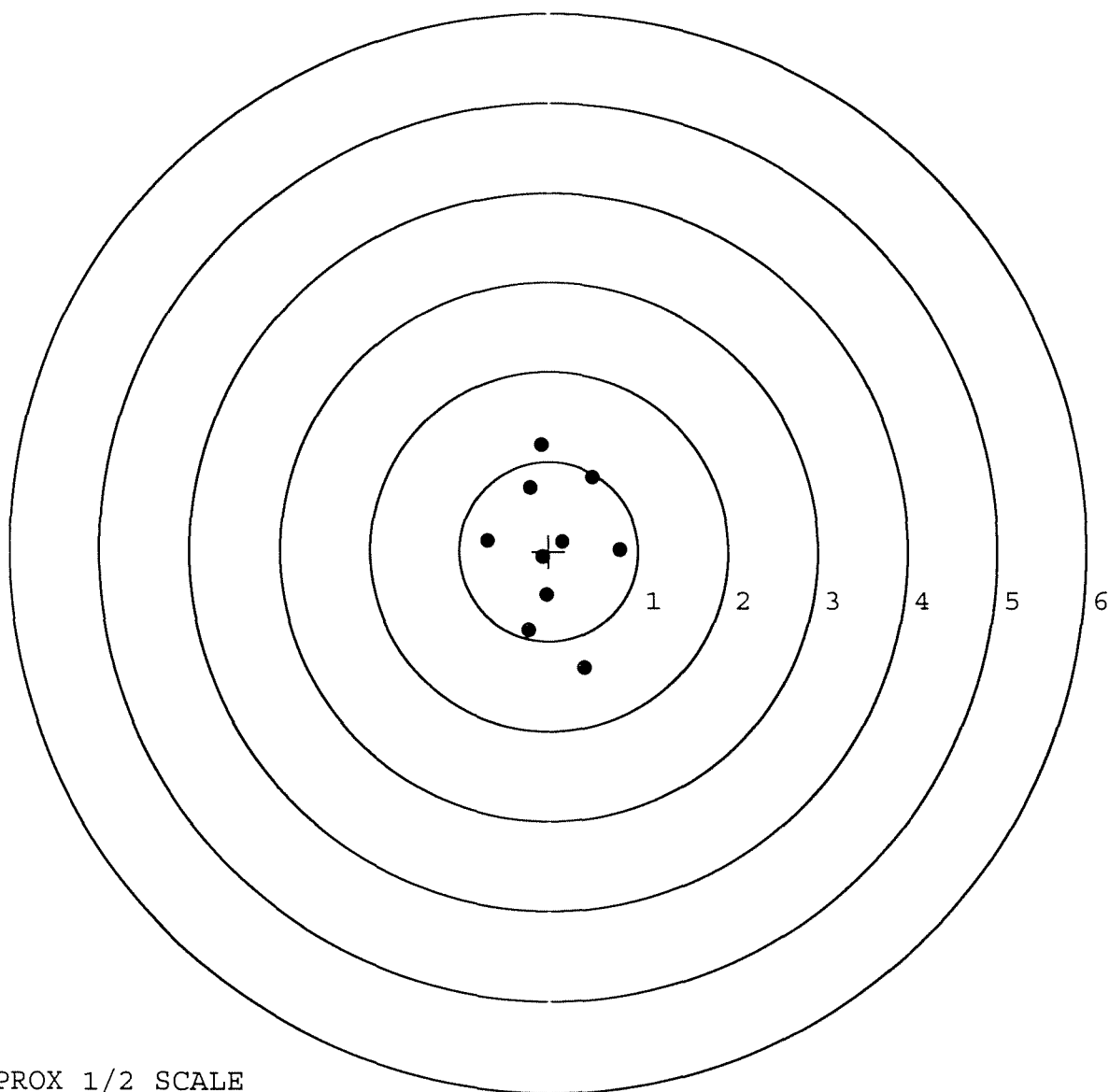
MEAN RADIUS: 0.742

IN 1 IN DIAMETER: 2

IN 2 IN DIAMETER: 8

in 3 IN DIAMETER: 10

POINT#	X	Y
1:	-0.081	1.182
2:	-0.209	0.709
3:	0.488	0.832
4:	-0.682	0.126
5:	0.794	0.024
6:	0.154	0.111
7:	-0.068	-0.066
8:	-0.033	-0.493
9:	-0.221	-0.882
10:	0.404	-1.294



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6611657. 0

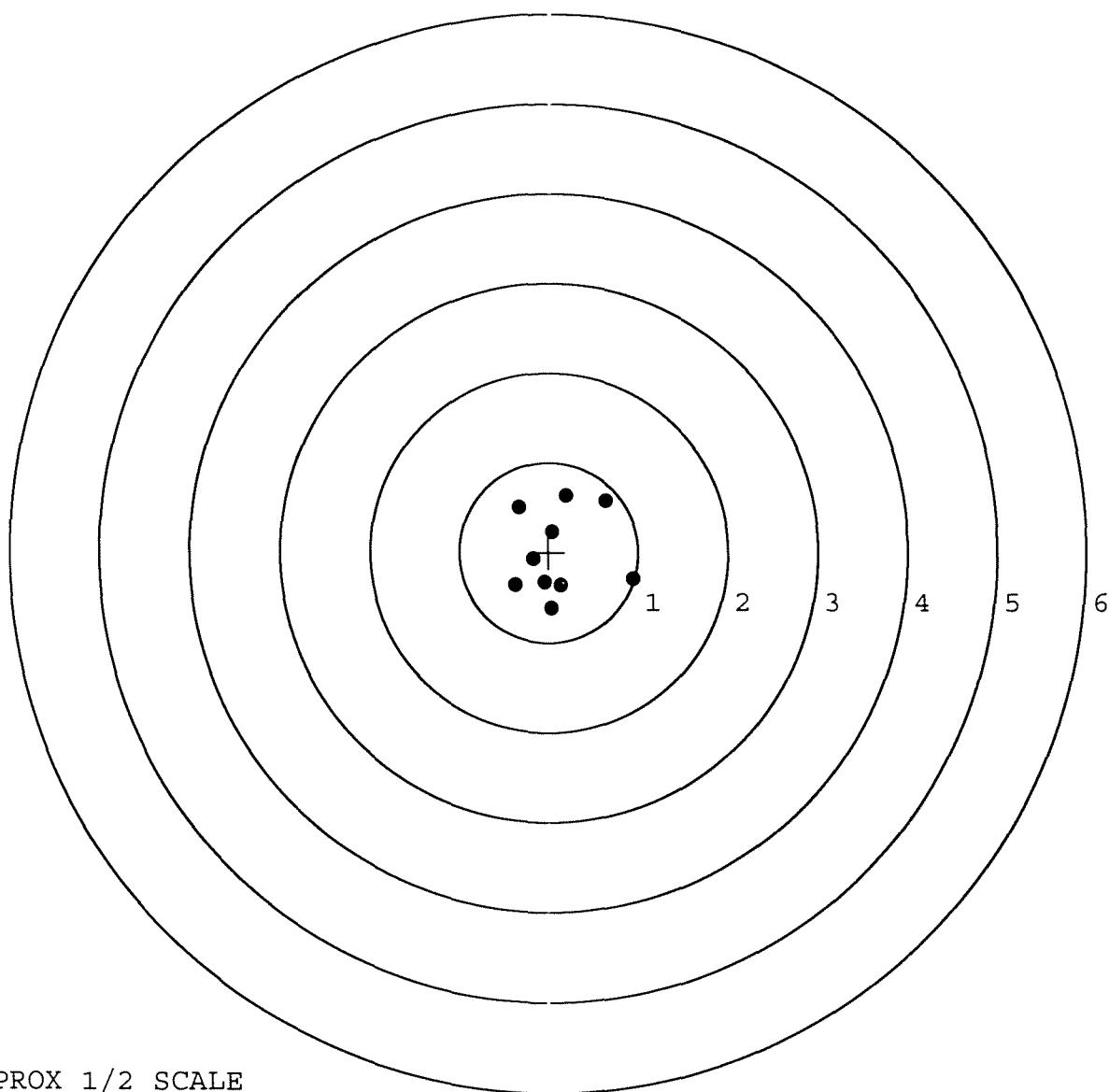
TARGET NUMBER: 2

FILE DATE: 08/05/2008

FILE TIME: 04:54

X CENTROID: 0.105
Y CENTROID: -0.015
POA TO CENTROID: 0.106
HORZ SPREAD: 1.323
VERT SPREAD: 1.250
GROUP SPREAD: 1.510
MIN RADIUS: 0.255
MAX RADIUS: 0.887
MEAN RADIUS: 0.548
IN 1 IN DIAMETER: 4
IN 2 IN DIAMETER: 10
in 3 IN DIAMETER: 10

POINT#	X	Y
1:	0.944	-0.300
2:	0.637	0.576
3:	0.195	0.627
4:	0.043	0.233
5:	-0.339	0.496
6:	-0.179	-0.075
7:	0.139	-0.370
8:	0.037	-0.623
9:	-0.379	-0.370
10:	-0.052	-0.340

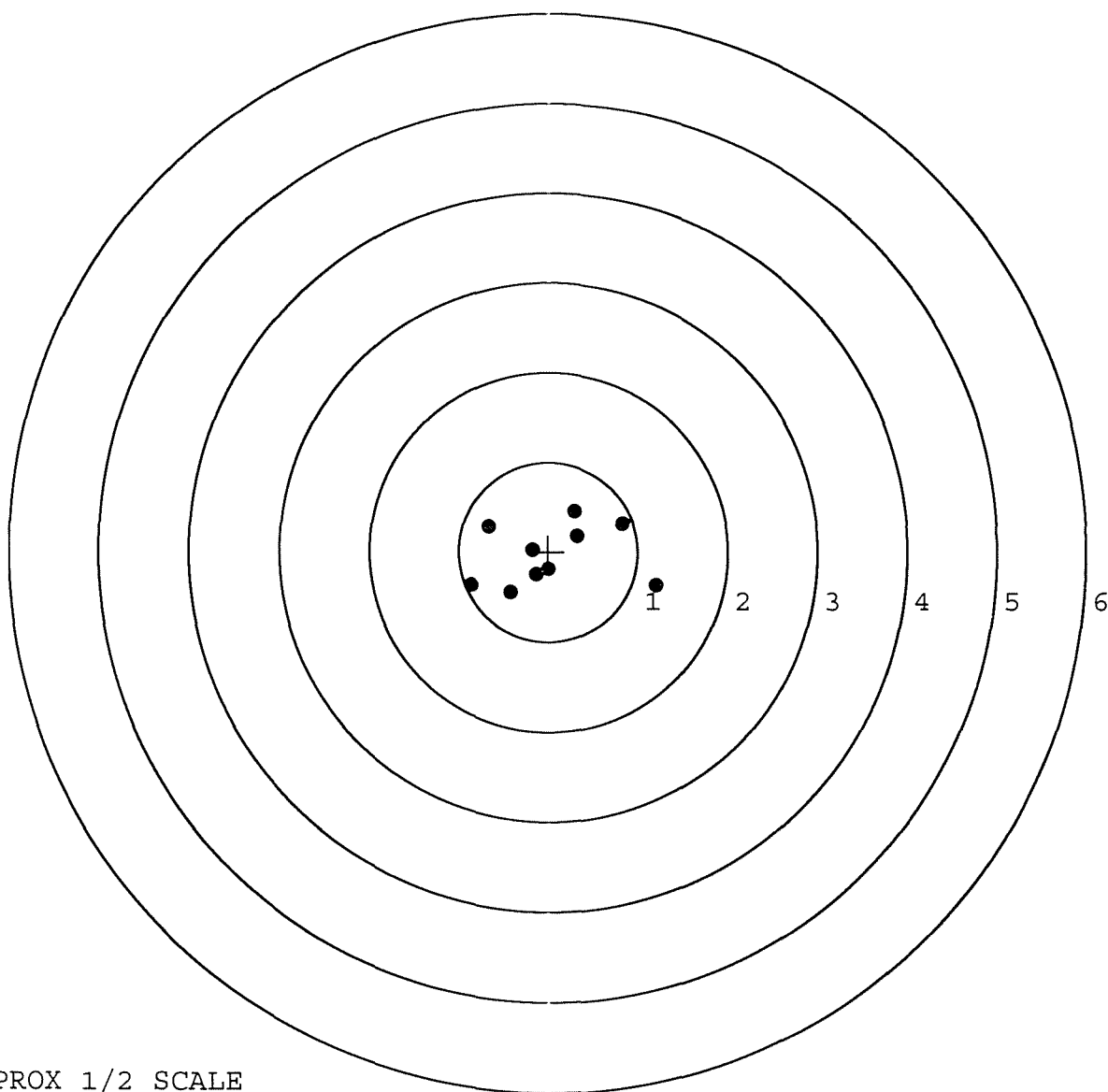


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6611657. __0
TARGET NUMBER: 3
FILE DATE: 08/05/2008
FILE TIME: 04:54

X CENTROID: 0.039
Y CENTROID: -0.041
POA TO CENTROID: 0.056
HORZ SPREAD: 2.067
VERT SPREAD: 0.908
GROUP SPREAD: 2.067
MIN RADIUS: 0.160
MAX RADIUS: 1.212
MEAN RADIUS: 0.602
IN 1 IN DIAMETER: 4
IN 2 IN DIAMETER: 9
in 3 IN DIAMETER: 10

POINT#	X	Y
1:	1.203	-0.378
2:	0.828	0.318
3:	0.299	0.451
4:	0.330	0.180
5:	-0.178	0.023
6:	-0.004	-0.195
7:	-0.424	-0.457
8:	-0.661	0.285
9:	-0.864	-0.375
10:	-0.138	-0.258



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6611657.___0

TARGET NUMBER: 4

FILE DATE: 08/05/2008

FILE TIME: 04:54

X CENTROID: 0.193

Y CENTROID: 0.063

POA TO CENTROID: 0.203

HORZ SPREAD: 1.493

VERT SPREAD: 0.813

GROUP SPREAD: 1.503

MIN RADIUS: 0.282

MAX RADIUS: 0.782

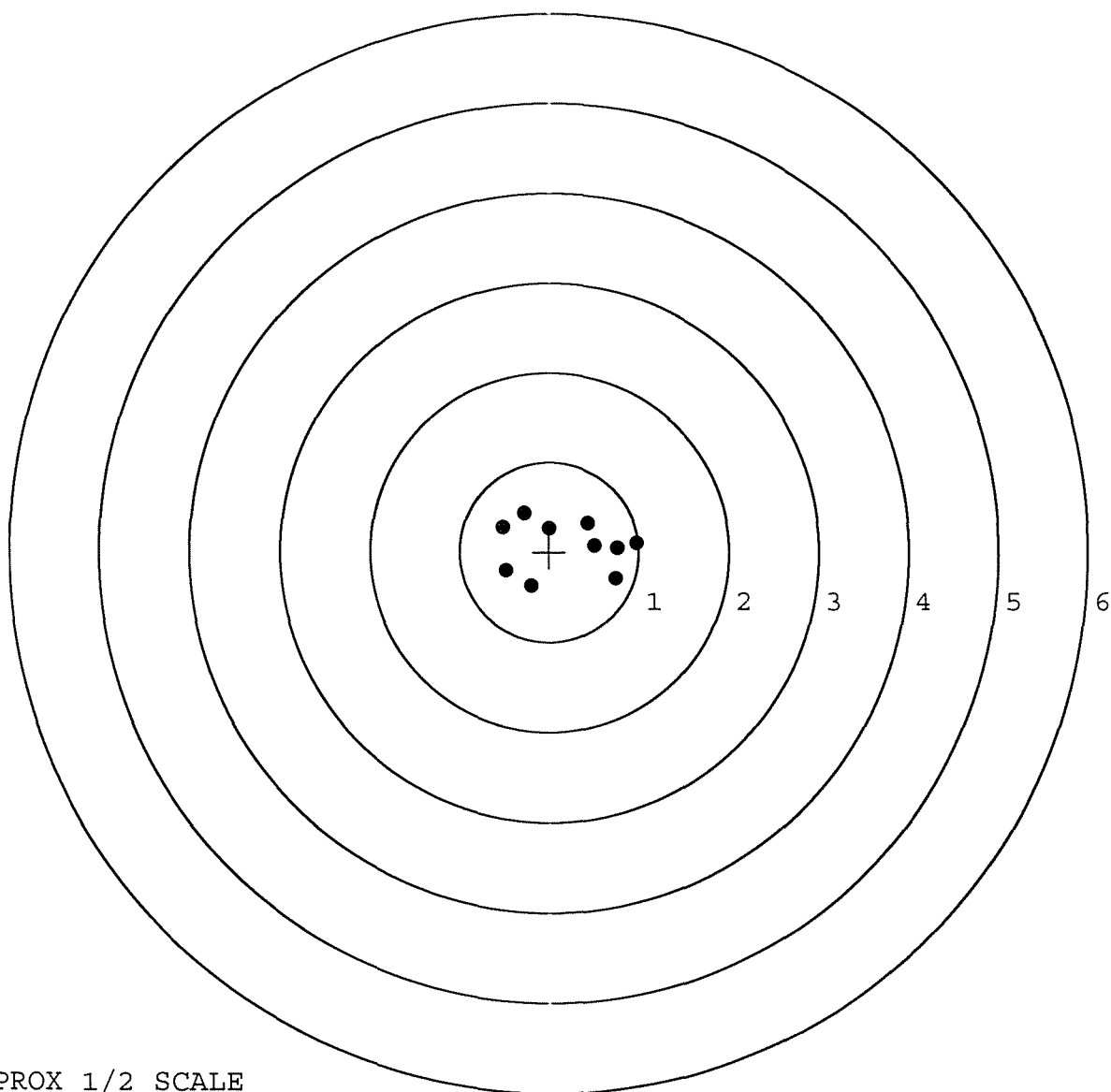
MEAN RADIUS: 0.564

IN 1 IN DIAMETER: 3

IN 2 IN DIAMETER: 10

in 3 IN DIAMETER: 10

POINT#	X	Y
1:	-0.205	-0.383
2:	-0.480	-0.213
3:	-0.519	0.279
4:	-0.286	0.430
5:	-0.006	0.263
6:	0.438	0.324
7:	0.508	0.075
8:	0.974	0.102
9:	0.745	-0.295
10:	0.764	0.047

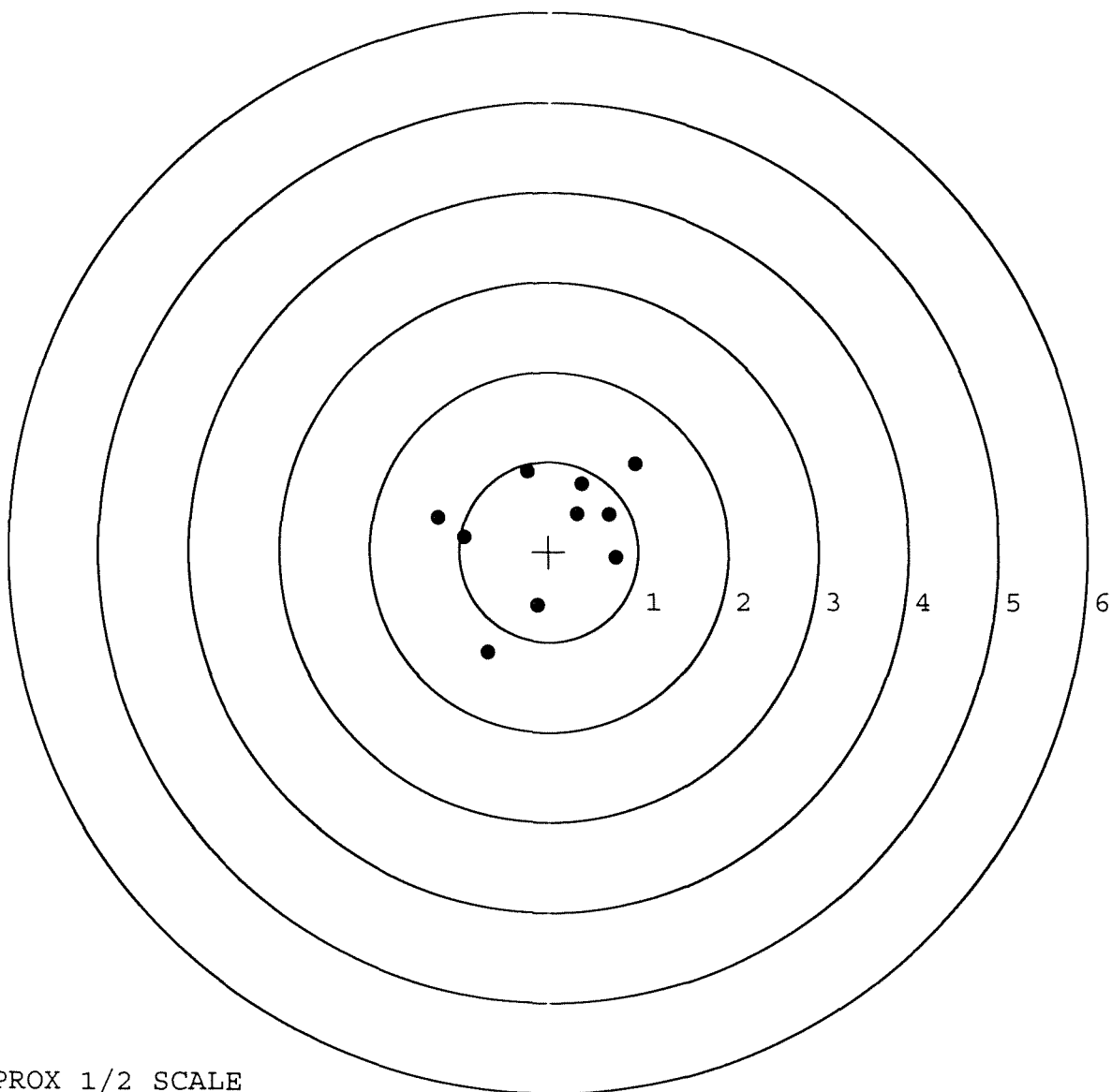


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: C6611657. __0
TARGET NUMBER: 5
FILE DATE: 08/05/2008
FILE TIME: 04:54

X CENTROID: -0.018
Y CENTROID: 0.220
POA TO CENTROID: 0.221
HORZ SPREAD: 2.209
VERT SPREAD: 2.101
GROUP SPREAD: 2.670
MIN RADIUS: 0.389
MAX RADIUS: 1.499
MEAN RADIUS: 0.903
IN 1 IN DIAMETER: 1
IN 2 IN DIAMETER: 7
in 3 IN DIAMETER: 10

POINT#	X	Y
1:	-0.244	0.888
2:	0.370	0.759
3:	0.963	0.978
4:	0.669	0.414
5:	0.314	0.423
6:	0.750	-0.067
7:	-0.132	-0.600
8:	-1.246	0.376
9:	-0.944	0.155
10:	-0.684	-1.123



TARGET APPROX 1/2 SCALE




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

MODEL 700™ M24

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

SERIAL NO.
C6611657

ORDER NO.
5716

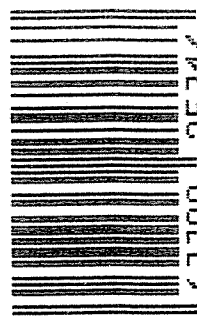
MADE IN ILION, N.Y. U.S.A. Reg. U.S. Pat. & Tm. Off. Marca Registrada Marque Deposee.

20



5716 C6611657

UPC



0 47700 25716 7

GUN SERIAL # C6611657

OP. #	OP. NAME	READINGS	DATE	INIT
575 & 580	Assemble Action and Stock		3/18/91	K.S.
600	Proof		3/18/91	K.S.
607	Check Headspace		3/18/91	K.S.
610	Dis-assemble Gun		3/18/91	K.S.
612	Magnaflux Barrel Action		3/28/91	KR
	Magnaflux Bolt		"	"
615	Rollmark Caliber		"	GL
617	Drill and Tap Sight Holes		APR 3 1991	WB
618	Polish Barrel		APR 3 1991	WB
620	Apply Coatings (Barrel Action)		4/19/91	JA
	Apply Coating (Bolt)			
625	Final Assembly A) Clean inside of Bolt Assembly		5/1/91	K.S.
	B) Inspect Rear Firing Pin Hole for Chamfer in Bolt Head		5/1/91	K.S.
	C) Inspect Ejector Hole for Chamfer		5/1/91	K.S.
	D) Oil Firing Pin Ass'y		5/1/91	K.S.
	E) Adjust Trigger Pull to Min Setting and Stake		5/11/91	GL

Op. #	OP. NAME	READINGS					DATE	INIT
625 cont.	F) Safety On Force	5	5	5			5/11/91	9U
	G) Safety Off Force	4	4	4			5/11/91	9U
	H) Trigger Pull Test & Retainability						5/11/91	9U
	I) Firing Pin Indent	.0216	.0216	.0215			5/11/91	9U
	J) Assemble Stock						5/16/91	KS
	K) Assemble Swivel Studs						5-20-91	A
	L) Attach Front and Rear Sight Assemblies						5/16/91	KS
	M) Iron Sight Alignment						5/16/91	KS
	N) Detach Front & Rear Sights & place in numbered container						5/16/91	KS
	O) Attach Scope to Rifle						5/16/91	KS
	P) Detach & Attach Scope 20 Times						5/16/91	KS
640	Gallery Target & Test						5/17/91	KT
	A) Time						"	KT
	B) Malfunctions						"	KT
	C) Pierced Primers						"	KT
	D) Optical Clarity of Scope						"	KT
645	Inspect for Live Ammo						5/17/91	KT
655	Final Inspection							
	A) Headspace						5-20-91	A
	B) Trigger Pull	2.39	2.38	2.35	2.37	2.36	5/20/91	9U
	C) Function						5-20-91	A
660	Pack						6-18-91	9U

SWS TRIGGER PULL TEST

AVERAGE PULL FORCE BETWEEN
INITIAL & CYCLE TESTS
2.50# + .50#
3.00# + .75#
4.00# + 1.00#

SERIAL NO. C-6611657

DATE 5/17/91

TESTER [Signature]

	2.50# INITIAL	2.50# AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50#		COMMENTS
PULL #1	2.54	2.58	2.53	2.39	MIN. SETTING,
PULL #2	2.59	2.47	2.50	2.38	NO AVG. OF 5
PULL #3	2.34	2.45	2.48	2.35	READINGS ACCEPT-
PULL #4	2.50	2.53	2.51	2.37	ABLE LESS THAN 2#
PULL #5	2.45	2.54	2.53	2.36	
TOTAL					
AVG.					

	3.00# INITIAL	3.00# AFTER 20 CYCLES		COMMENTS
PULL #1	3.60	3.23		
PULL #2	3.31	3.30		
PULL #3	3.32	3.32		
PULL #4	3.30	3.31		
PULL #5	3.38	3.36		
TOTAL				
AVG.				

	4.00# INITIAL	4.00# AFTER 20 CYCLES	MAX SETTING GREATER THAN 4#	RESET TO 4# FOR TARGET & ACCURACY
PULL #1	4.20	4.41		4.49
PULL #2	4.41	4.48		4.42
PULL #3	4.44	4.35		4.48
PULL #4	4.47	4.45		4.49
PULL #5	4.49	4.47		4.52
TOTAL				
AVG.				

CENTROIDAL DISTANCE CALCULATIONS
FOR RIFLE # C6611657
17 May 1991

CENTROIDAL DISTANCES

0 TO	1	.0570701
1 TO	2	.235136
1 TO	3	.351511
1 TO	4	.209914
1 TO	5	.280863

$\frac{5}{34}$

<----POA

THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: -.0852
THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: -.0095
THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE

THE AMR FOR THIS RIFLE IS: 1.088

17 May 1991

FILE:/PATTERNING/CENTERFIRE_PATT/C6611657

CENTERFIRE PATTERNS

#

POA

1in circle

2in circle

3in circle

OF SHOTS- 10

IN CIR

1in - 0

2in - 1

3in - 7

HS- 2.987

VS- 3.282

GS- 3.838

CENTROID *

PATTERN #

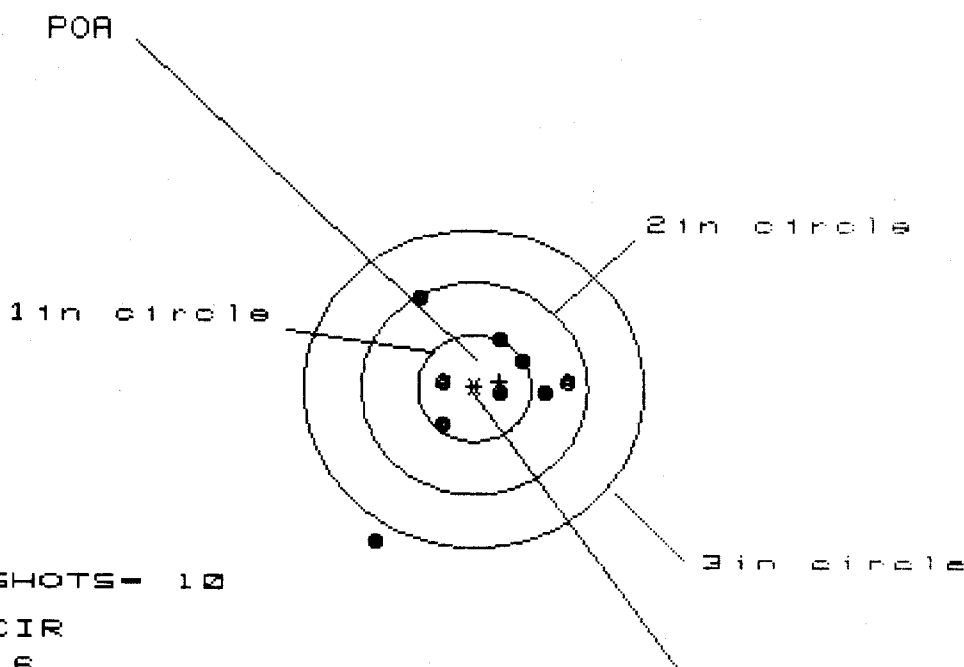
SHOTS (BEST OF)

	10	9	8
MAXIMUM X	1.333	1.370	1.168
MINIMUM X	-1.654	-1.617	-1.285
MAXIMUM Y	2.098	1.278	1.159
MINIMUM Y	-1.184	-.951	-.942
CENTROID X	.011	-.026	.176
CENTROID Y	-.056	-.289	-.170
POA TO CENTROID in.	.057	.290	.245
MIN RADIUS	.713	.885	.806
MEAN RADIUS	1.375	1.282	1.184
MAX RADIUS	2.125	1.876	1.494
HORIZONTAL SPREAD	2.987	2.987	2.453
VERTICAL SPREAD	3.282	2.229	2.101
EXTREME SPREAD	3.838	3.482	2.866
NUMBER IN ONE INCH CIRCLE	=	0	
NUMBER IN TWO INCH CIRCLE	=	1	
NUMBER IN THREE INCH CIRCLE	=	7	

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CENTERFIRE PATTERNS # 2



OF SHOTS- 10

IN CIR

1in = 6

2in = 9

3in = 9

HS= 1.761

VS= 2.340

GS= 2.381

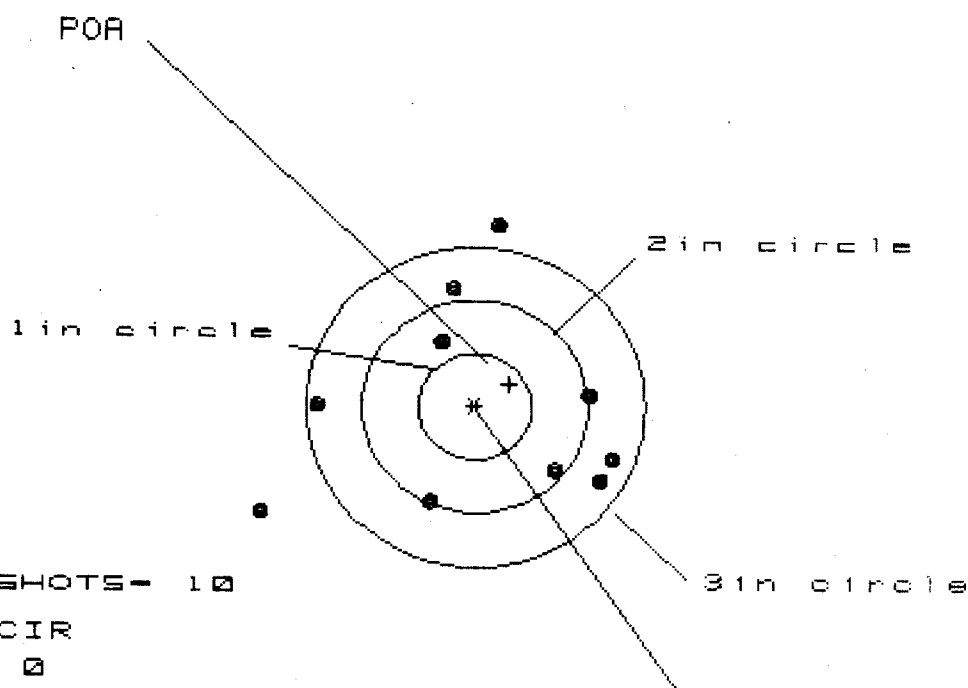
CENTROID #

PATTERN #	:			
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	.839	.737	.664
MINIMUM X	:	-.922	-.582	-.467
MAXIMUM Y	:	.866	.703	.387
MINIMUM Y	:	-1.474	-.488	-.401
CENTROID X	:	-.224	-.122	-.049
CENTROID Y	:	-.064	.099	.011
POA TO CENTROID in.	:	.233	.157	.050
MIN RADIUS	:	.192	.244	.144
MEAN RADIUS	:	.629	.484	.420
MAX RADIUS	:	1.738	.913	.665
HORIZONTAL SPREAD	:	1.761	1.319	1.131
VERTICAL SPREAD	:	2.340	1.191	.787
EXTREME SPREAD	:	2.381	1.522	1.211
NUMBER IN ONE INCH CIRCLE	=		6	
NUMBER IN TWO INCH CIRCLE	=		9	
NUMBER IN THREE INCH CIRCLE	=		9	

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CENTERFIRE PATTERNS # 3



OF SHOTS- 10

IN CIR

1 in = 0

2 in = 3

3 in = 8

HS= 3.179

VS= 2.675

GS= 3.405

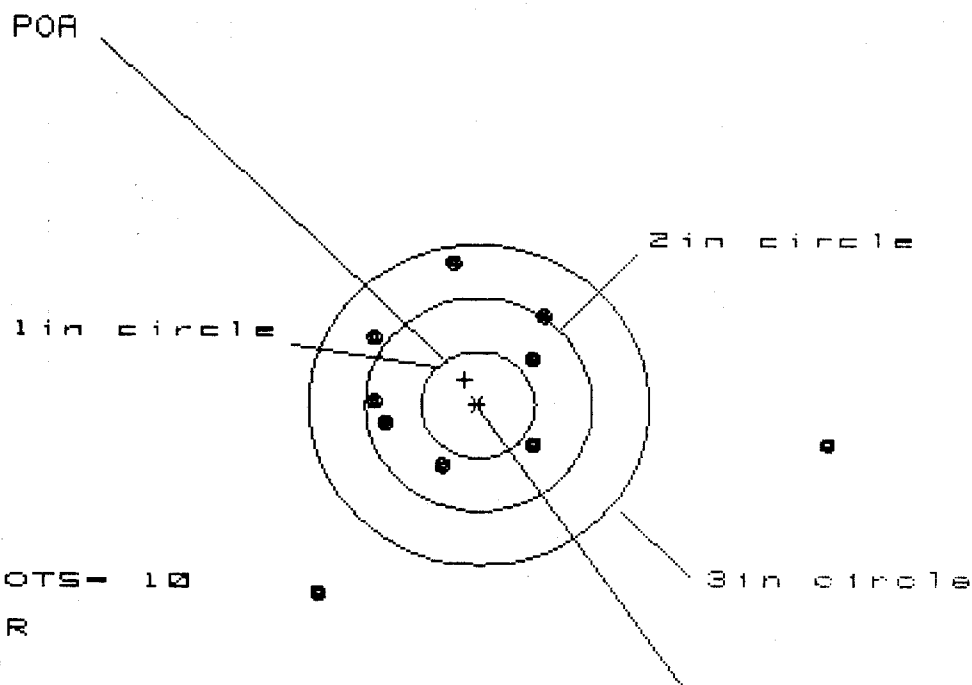
CENTROID *

PATTERN #	:			
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.243	1.028	1.023
MINIMUM X	:	-1.936	-1.644	-1.649
MAXIMUM Y	:	1.733	1.628	1.210
MINIMUM Y	:	-.942	-1.002	-.798
CENTROID X	:	-.303	-.088	-.083
CENTROID Y	:	-.214	-.109	-.313
POA TO CENTROID in.	:	.371	.140	.323
MIN RADIUS	:	.714	.739	.679
MEAN RADIUS	:	1.279	1.153	1.073
MAX RADIUS	:	2.153	1.649	1.651
HORIZONTAL SPREAD	:	3.179	2.672	2.672
VERTICAL SPREAD	:	2.675	2.630	2.008
EXTREME SPREAD	:	3.405	2.712	2.712
NUMBER IN ONE INCH CIRCLE	=		0	
NUMBER IN TWO INCH CIRCLE	=		3	
NUMBER IN THREE INCH CIRCLE	=		8	

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CENTERFIRE PATTERNS # 4



OF SHOTS - 10

IN CIR

1 in = 0

2 in = 5

3 in = 8

HS = 4.485

VS = 3.124

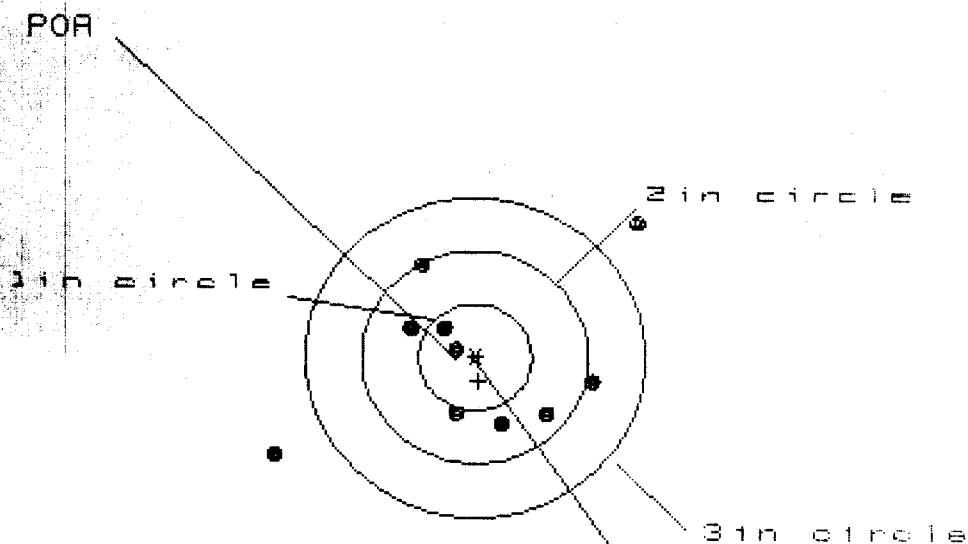
GS = 4.716

PATTERN #	:			
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	3.059	.944	.808
MINIMUM X	:	-1.426	-1.086	-.703
MAXIMUM Y	:	1.344	1.308	1.081
MINIMUM Y	:	-1.780	-1.816	-.828
CENTROID X	:	.119	-.221	-.085
CENTROID Y	:	-.236	-.200	.027
POA TO CENTROID in.	:	.264	.298	.089
MIN RADIUS	:	.597	.518	.673
MEAN RADIUS	:	1.243	.992	.847
MAX RADIUS	:	3.076	2.116	1.081
HORIZONTAL SPREAD	:	4.485	2.030	1.511
VERTICAL SPREAD	:	3.124	3.124	1.909
EXTREME SPREAD	:	4.716	3.347	1.913
NUMBER IN ONE INCH CIRCLE	=		0	
NUMBER IN TWO INCH CIRCLE	=		5	
NUMBER IN THREE INCH CIRCLE	=		8	

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CENTERFIRE PATTERNS # 5



+ OF SHOTS- 10

IN CIR

1in - 2

2in - 7

3in = 8

HS- 3.241

VS= 2.243

GS= 3.941

CENTROID #

PATTERN #	:	10	9	8
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.453	1.254	.963
MINIMUM X	:	-1.788	-.743	-.586
MAXIMUM Y	:	1.273	1.165	.900
MINIMUM Y	:	-.970	-.727	-.581
CENTROID X	:	-.029	.170	.013
CENTROID Y	:	.222	.330	.184
POA TO CENTROID in.	:	.224	.371	.184
MIN RADIUS	:	.166	.363	.218
MEAN RADIUS	:	.916	.821	.655
MAX RADIUS	:	2.034	1.712	1.036
HORIZONTAL SPREAD	:	3.241	1.997	1.549
VERTICAL SPREAD	:	2.243	1.892	1.481
EXTREME SPREAD	:	3.941	2.397	1.807
NUMBER IN ONE INCH CIRCLE	=	2		
NUMBER IN TWO INCH CIRCLE	=	7		
NUMBER IN THREE INCH CIRCLE	=	8		