

GC738610
Replaces
GC461738

Oxford
NO. 752 1/3
4207

Arms Services BARBER M24 00000895

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

Repair Inquiry

Repair Number: RE00164614 Serial: G6461738 Model M24 SWS Center Fire Repairman: Status: Closed 3/16/2009 10:19:02 AM

Verify Repair

Address Information

Customer: Received From Return To: Received From

Name: ITT SYSTEMS SECURED WAREHOUSE

Address 1: UPTON AVENUE

Address 2: BUILDING 450 PO Box: FORT BENNING

City: FORT BENNING State: GA Zip Code: 31905 Country: US

State: GA Zip Code: 31905 Country: US

FFL:

Contact / Condition	Problems	Estimate	History / Status	Shipping / Billing
Contact Information				
Phone:				
Fax:				
Email:				
Comments:				
Received Condition				
Fair				
Condition Notes:				
CSR Notes:				
Accessories Received				
Code	Desc	Qty		
A007	With Stud	2		
A010	Hard Case	1		
A017	Scope Base	1		
A026	Scope	1		

Repair Search Refresh Close

Received

Received

Received

Received

Received

thing to Bill

Refresh Close

Refresh Close

Refresh Close

Start 3/16/2009 11:53 AM CAPS NUM INS SCRL

Start 11 Microsoft... 8 Microsoft... Exeute News... Arms Services... Part Search... MyLabelsPrem... 11:53 AM

G6738610

~~G6461738~~

Model: M24 SWS

RE00164614

INSPECTION CHECKLIST - REPAIRS

CONTRACT #: W52H09-07-C-0207

ISSUED 10/1/2007

R & E NUMBER

164614

SERIAL NUMBER

G6738610

LOG-IN DATE

3-16-09

OPERATION #	OPERATION NAME	DATE	INITIAL
500	DIS-ASSEMBLE GUN	3-18-09	RTZ
505	RE-BARREL	3-18-09	RTZ
420	ASSEMBLE	3-18-09	RTZ
440	PROOF	3-19-09	TC
460	CHECK HEADSPACE	3-19-09	TC
470	DIS-ASSEMBLE GUN	3-19-09	RTZ
480	MAGNAFLUX	3-20-09	RTZ
510	DRILL AND TAP	3-19-09	RTZ
500	ROLLMARK CALIBER	3-24-09	RT
520	GOFF BLAST BBL / REC	3-24	BT
530 & 540	APPLY COATINGS	3-31	RTZ
560	FINAL ASSEMBLY	4-6-09	RTZ
640	FUNCTION TEST AND	4-6-09	RTZ
650	TARGET	4-6-09	RTZ
	MALFUNCTION	CORRECTION	
	MALFUNCTION	CORRECTION	
	MALFUNCTION	CORRECTION	
	MALFUNCTION	CORRECTION	
670	FINAL INSPECTION	4-6-09	RP
	A) HEADSPACE	4-8-09	RTZ
	B) TRIGGER PULL	4-8-09	RTZ
		260 268 258 266 260 4-8-09	RTZ
680	F) SAFETY ON FORCE	4-8-09	RTZ
	G) SAFETY OFF FORCE	4-8-09	RTZ
	I) FIRING PIN INDENT	4-8-09	RTZ
690	PACK	4-9-09	FM

F006 REV 1/2009

902903

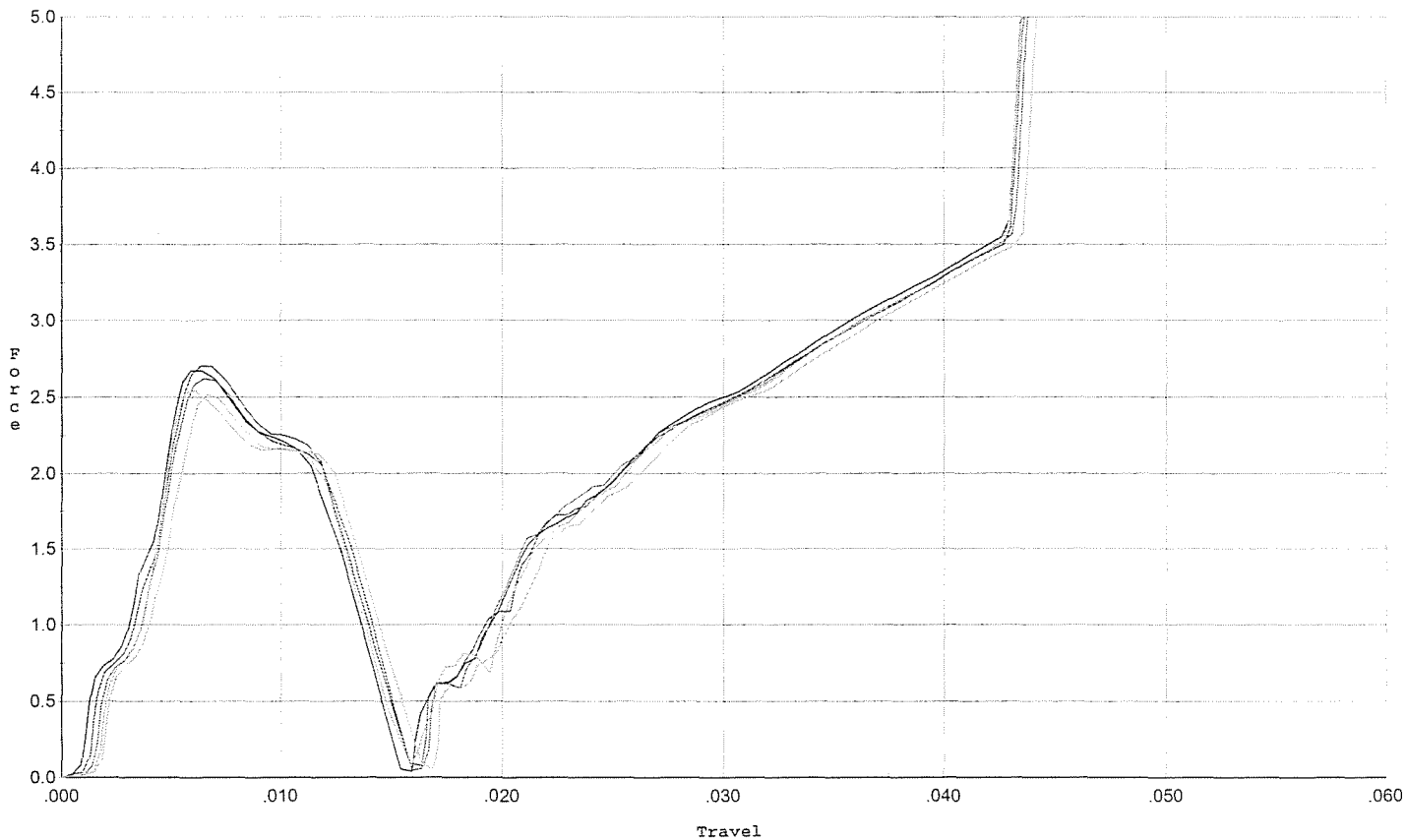


CUSTOMER DATA					MAINTENANCE ACTIVITY DATA								
UIC CUST CUSTOMER UNIT NAME W2L58L HHC 2/29 INF. REGT.					EVAC WON SHOP PHONE NO 902903 I 4-2823								
PHONE NO SAMS-2 UIC UTIL CD (706) 544-1476 W2L5AA K					UIC SUPPORT SUPPORT UNIT NAME W6CR07 ITT								
EQUIPMENT DATA													
MNT CD ID NSN MCSR 1 A 012402136 S					FDD USAGECDE CURRENT USAGE D 0								
MODEL M24RIFLE					PROJ CD APC IN WARRANTY 0524 H9MF N								
NOUN RIFLE 7.62MM SNIP					LEVEL WORK ADMIN NO ERC EF M24-19 P								
ORG WON QTY 2L58LA900095 1					PD AUTHENTICATING SIGNATURE: 								
SER NO PD G6461738 03													
MALFUNCTION DESCRIPTION/REMARKS: SHOT OUT													
TECHNICAL REFERENCES Poc Sgt R. K. # 544-6006													
TASK / PART REQUIREMENTS													
ACT CDE	TASK NO	ACT RQD	TASK DESCRIPTION	QTY RPR	WRK CTR	FAIL CODE	MH PROJ	M ^{...} E					
ACT CDE	TASK NO	ID	REQUIRED NSN / PART NUMBER	SFX CDE	QTY RQD	QTY ISSUE	NM CS	FAIL CODE	STORAGE LOC	INIT	\$COST		
TOTAL MANHOURS				TOTAL MANHOURS COST\$				TOTAL PARTS COST\$					
QTY RPR		QTY CONDEMN		QTY NRTS		EVAC WON		EVAC UNIT NAME					
SUBMITTED BY Anthony R. K.		ACCEPTED BY J. S. Anderson		WORK STARTED BY		INSPECTED BY		PICKED UP BY					
DATE 09070		STA A	ORD DATE 0600	MIL TIME 1000	STA	ORD DATE	MIL TIME	STA	ORD DATE	MIL TIME	STA	ORD DATE	MIL TIME

Trigger Profile [lbs,inch]

Profile SWS
GunType: Rifle
Make: Remington
Note: C C Schults 3/17/2009

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



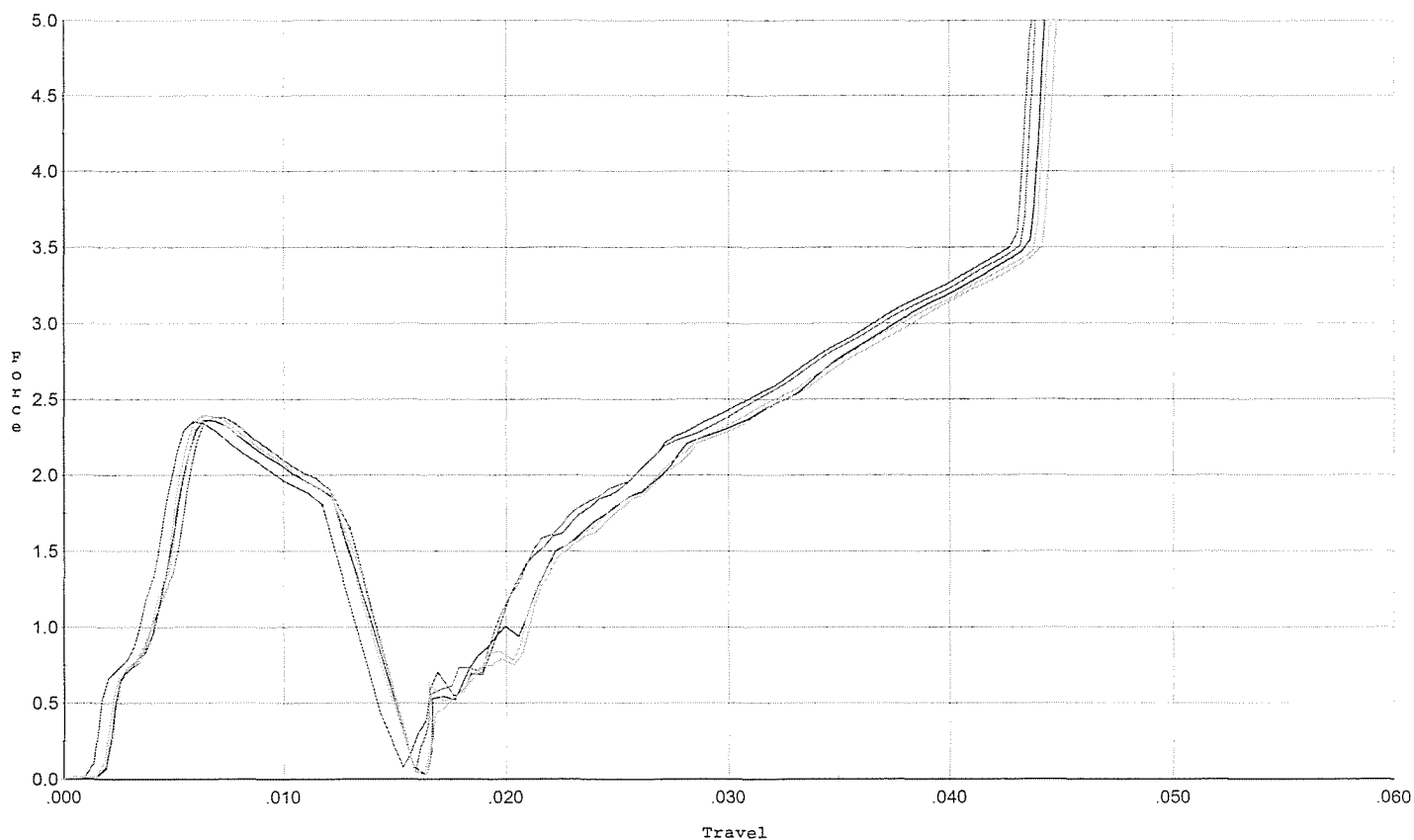
#	Peak Force	Travel To Actuate	Initial Take-up	Overtravel	Energy To Actuate	Lock Time	Action Type
1	2.704	0.012	0.00	0.034	0.019		Set Trigger
2	2.672	0.013	0.00	0.034	0.021		Set Trigger
3	2.622	0.013	0.00	0.034	0.021		Set Trigger
4	2.518	0.012	0.00	0.034	0.018		Set Trigger
5	2.541	0.012	0.00	0.034	0.018		Set Trigger

A-2-61

Trigger Profile [lbs,inch]

Profile: SWS
 GunType: Rifle
 Make: Remington
 Note: C C Schults 3/17/2009

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



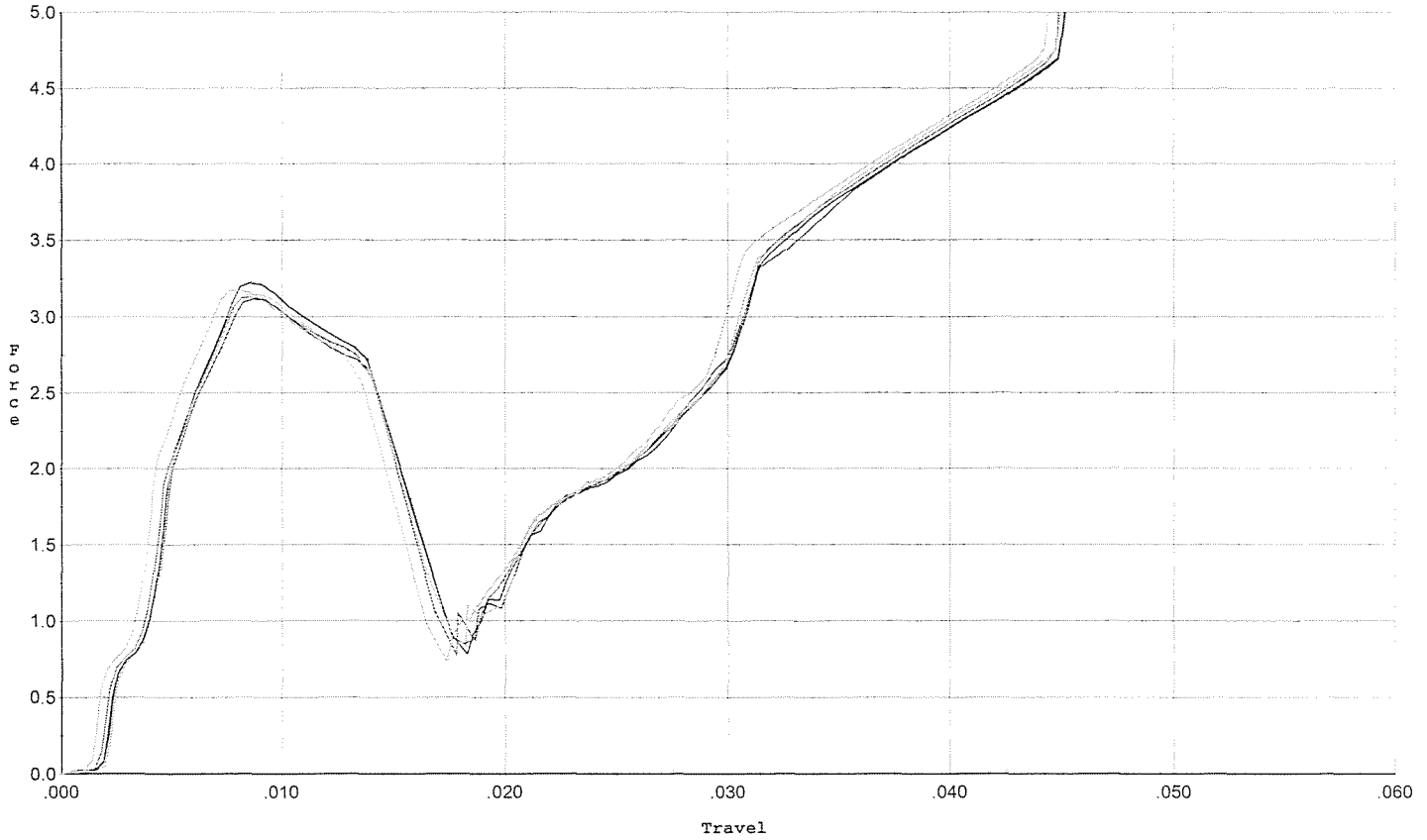
#	Peak Force	Travel To Actuate	Initial Take-up	Overtravel	Energy To Actuate	Lock Time	Action Type
1	2.354	0.012	0.00	0.035	0.017		Set Trigger
2	2.363	0.014	0.002	0.034	0.019		Set Trigger
3	2.380	0.013	0.002	0.034	0.018		Set Trigger
4	2.399	0.012	0.002	0.035	0.017		Set Trigger
5	2.392	0.013	0.002	0.035	0.019		Set Trigger

A-237

Trigger Profile [lbs,inch]

Profile: SWS
GunType: Rifle
Make: Remington
Note: C Schults 3/17/2009

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



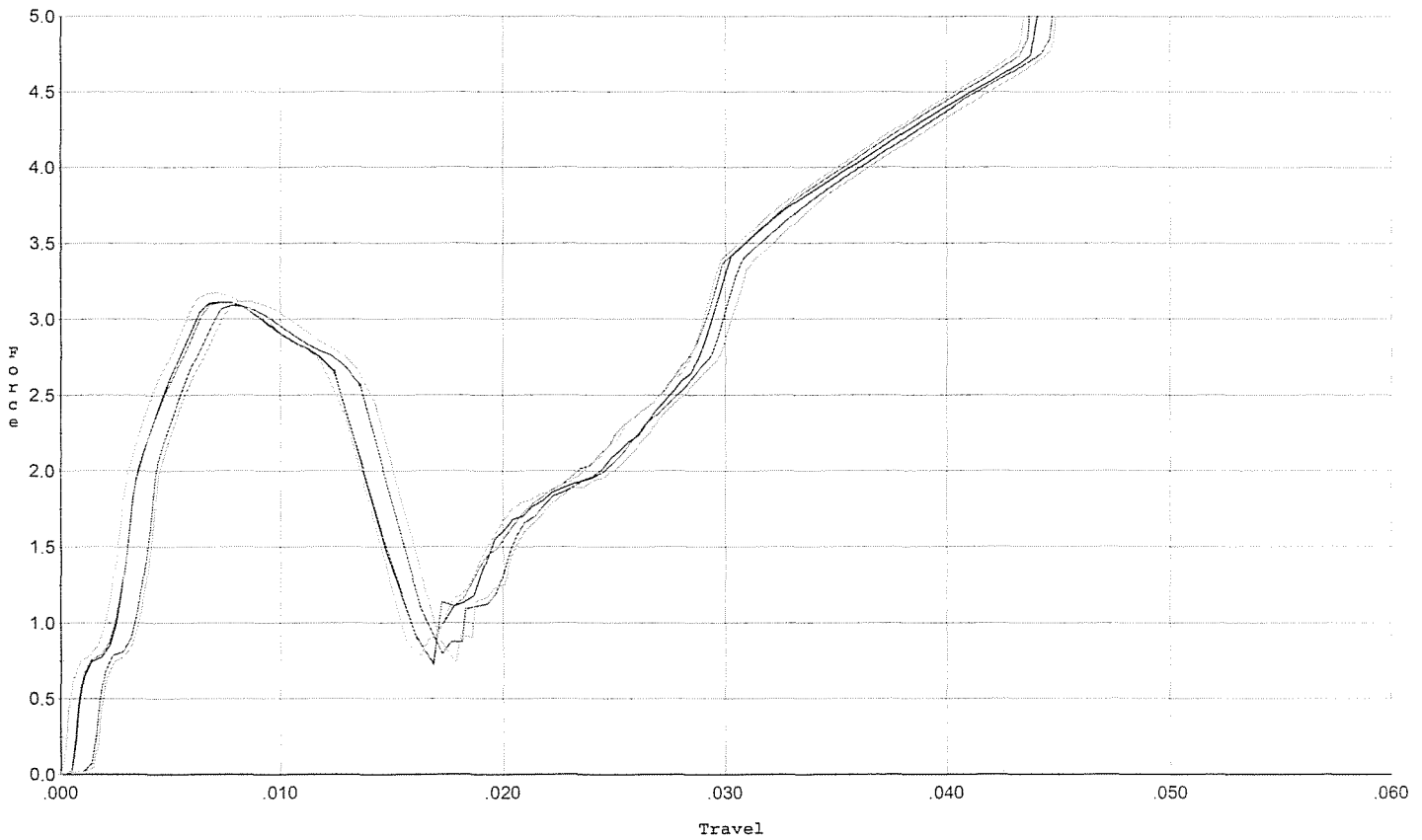
#	Peak Force	Travel To Actuate	Initial Take-up	Overtravel	Energy To Actuate	Lock Time	Action Type
1	3.120	0.016	0.002	0.031	0.030		Set Trigger
2	3.224	0.014	0.002	0.032	0.027		Set Trigger
3	3.130	0.014	0.002	0.031	0.027		Set Trigger
4	3.148	0.014	0.002	0.031	0.027		Set Trigger
5	3.173	0.014	0.00	0.031	0.027		Set Trigger

A-3.15

Trigger Profile [lbs,inch]

Profile: SWS
GunType: Rifle
Make: Remington
Note: C Schults 3/17/2009

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



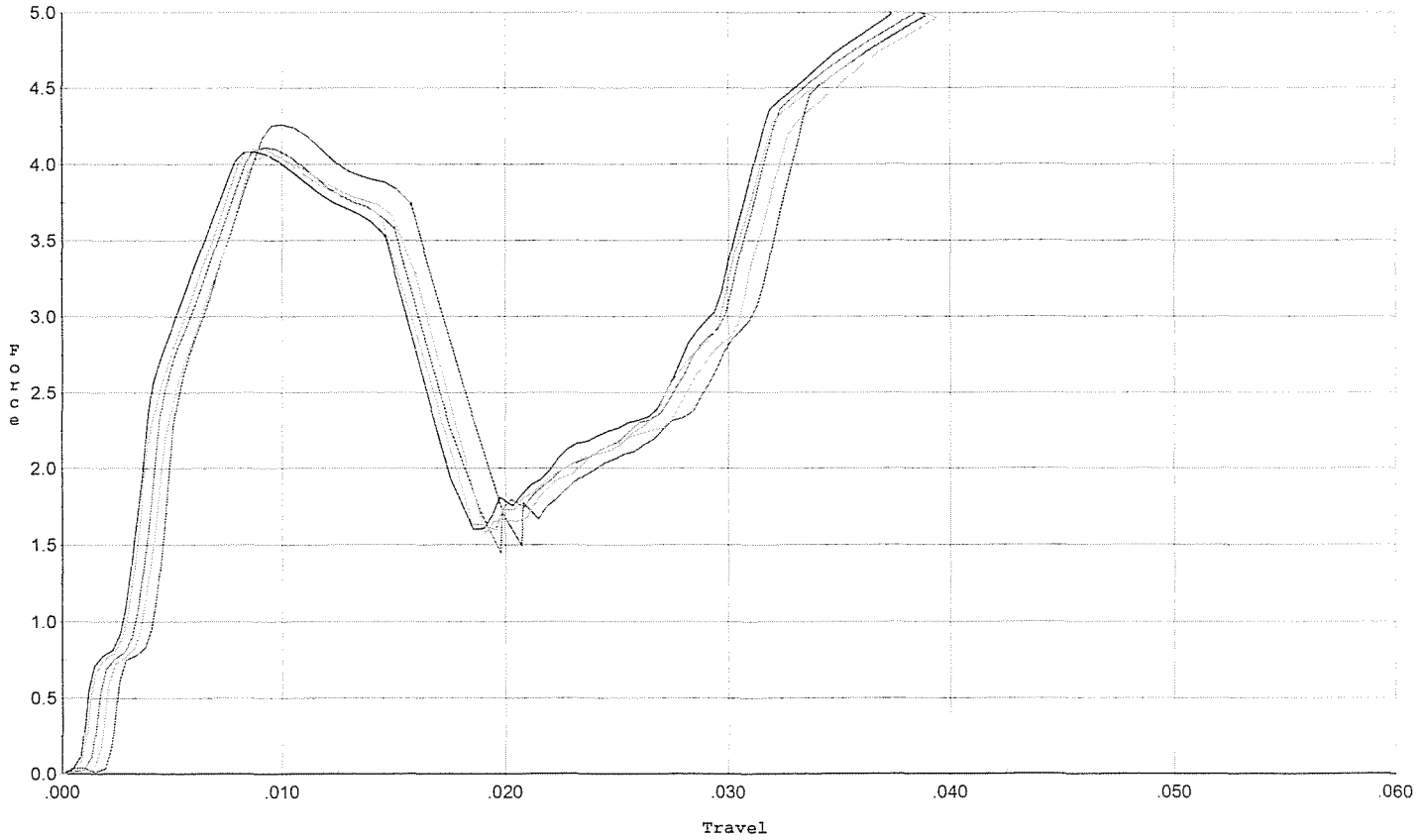
#	Peak Force	Travel To Actuate	Initial Take-up	Overtravel	Energy To Actuate	Lock Time	Action Type
1	3.090	0.014	0.00	0.032	0.027		Set Trigger
2	3.112	0.012	0.00	0.032	0.026		Set Trigger
3	3.113	0.012	0.00	0.032	0.026		Set Trigger
4	3.170	0.013	0.00	0.031	0.028		Set Trigger
5	3.118	0.014	0.00	0.031	0.028		Set Trigger

A-3.12

Trigger Profile [lbs,inch]

Profile SWS
 GunType: Rifle
 Make: Remington
 Note: C Schults 3/17/2009

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



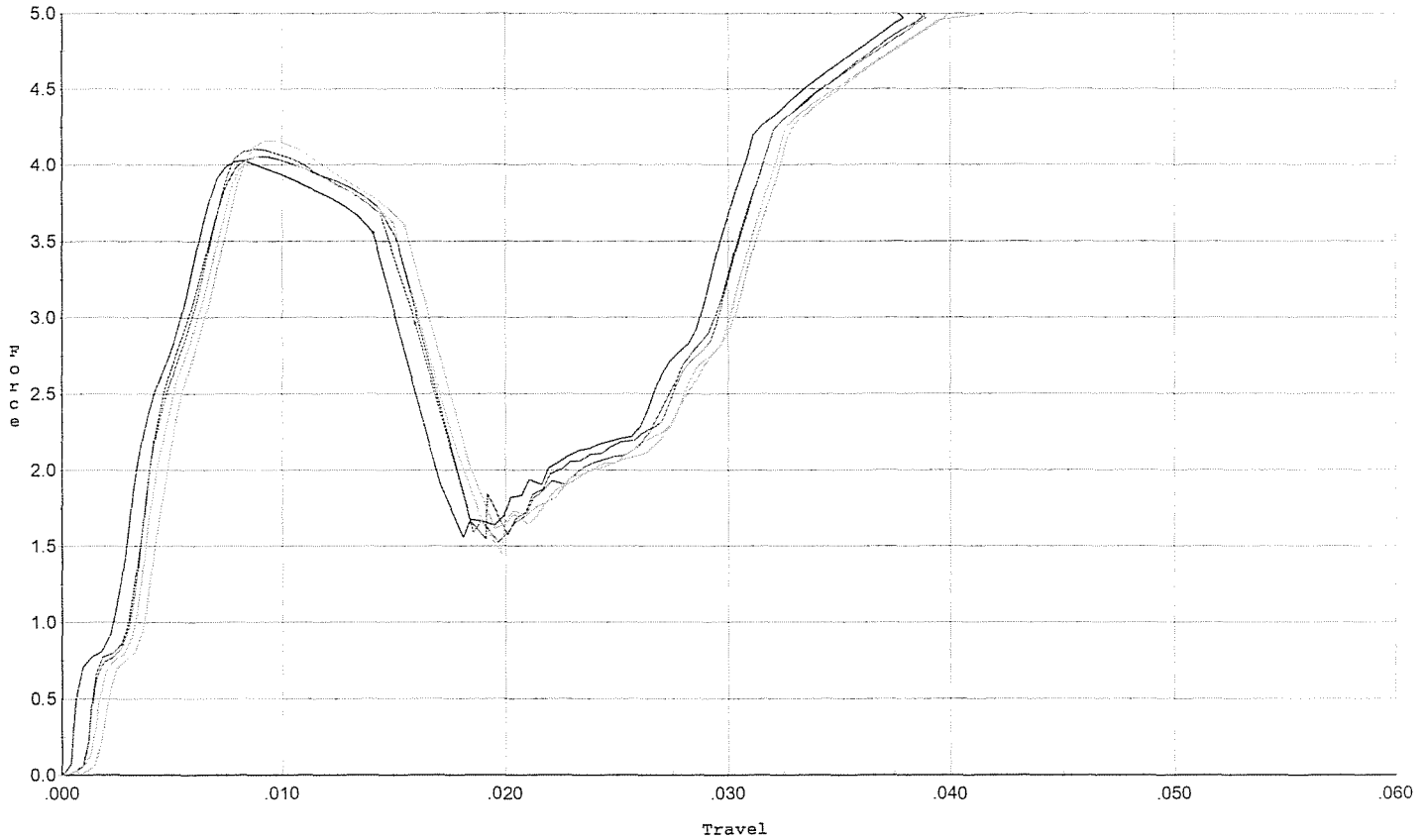
#	Peak Force	Travel To Actuate	Initial Take-up	Overtravel	Energy To Actuate	Lock Time	Action Type
1	4.260	0.016	0.002	0.030	0.040		Set Trigger
2	4.086	0.015	0.00	0.030	0.039		Set Trigger
3	4.111	0.015	0.00	0.030	0.039		Set Trigger
4	4.055	0.016	0.00	0.029	0.040		Set Trigger
5	4.101	0.016	0.00	0.029	0.043		Set Trigger

A-4-12

Trigger Profile [lbs,inch]

Profile SWS
GunType: Rifle
Make: Remington
Note: C Schults 3/17/2009

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



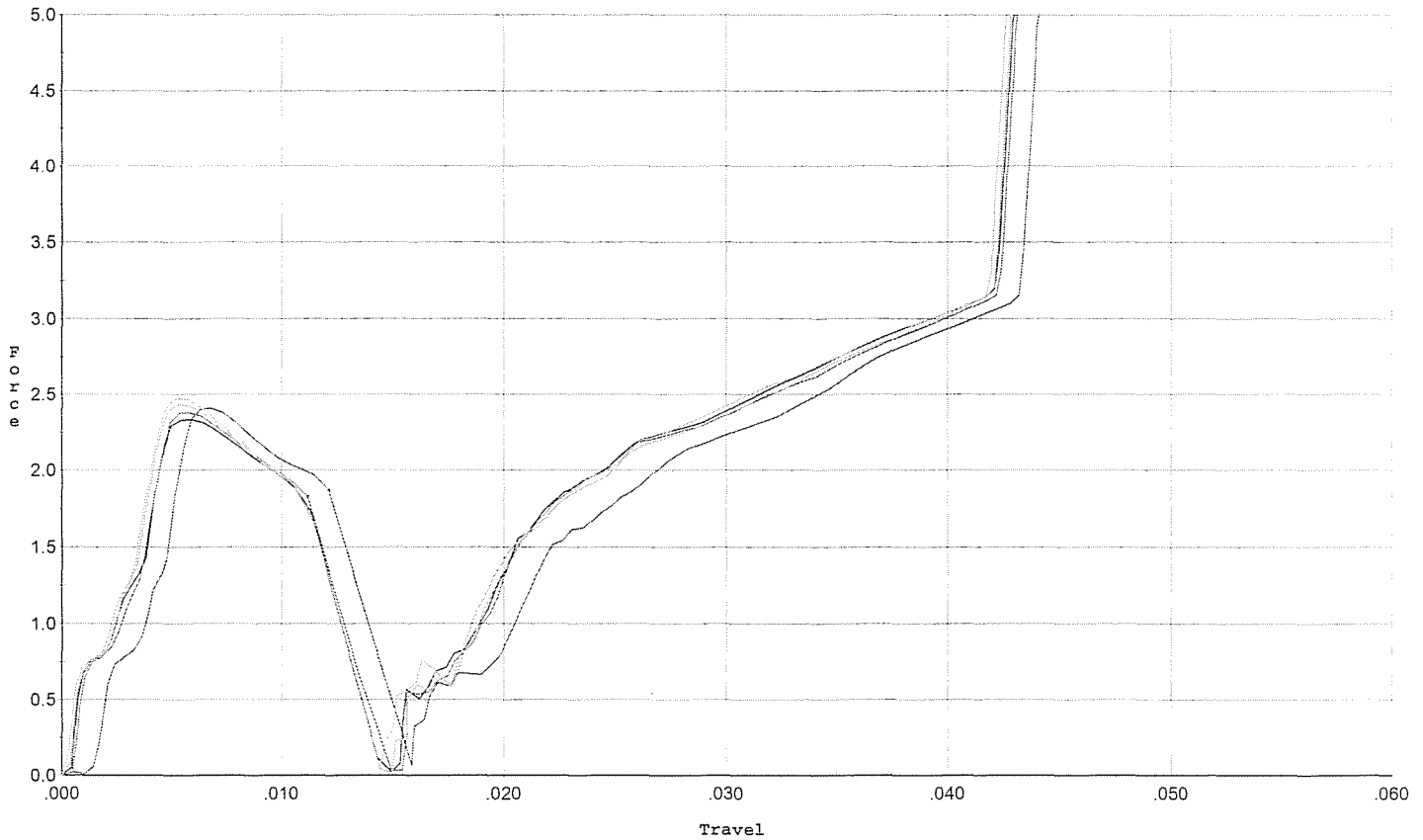
#	Peak Force	Travel To Actuate	Initial Take-up	Overtravel	Energy To Actuate	Lock Time	Action Type
1	4.053	0.015	0.00	0.027	0.040		Set Trigger
2	4.028	0.014	0.00	0.027	0.037		Set Trigger
3	4.104	0.016	0.00	0.028	0.042		Set Trigger
4	4.062	0.015	0.00	0.028	0.038		Set Trigger
5	4.158	0.016	0.00	0.028	0.039		Set Trigger

A-4.08

Trigger Profile [lbs,inch]

Profile SWS
 GunType: Rifle
 Make: Remington
 Note: C Schults 3/17/2009

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



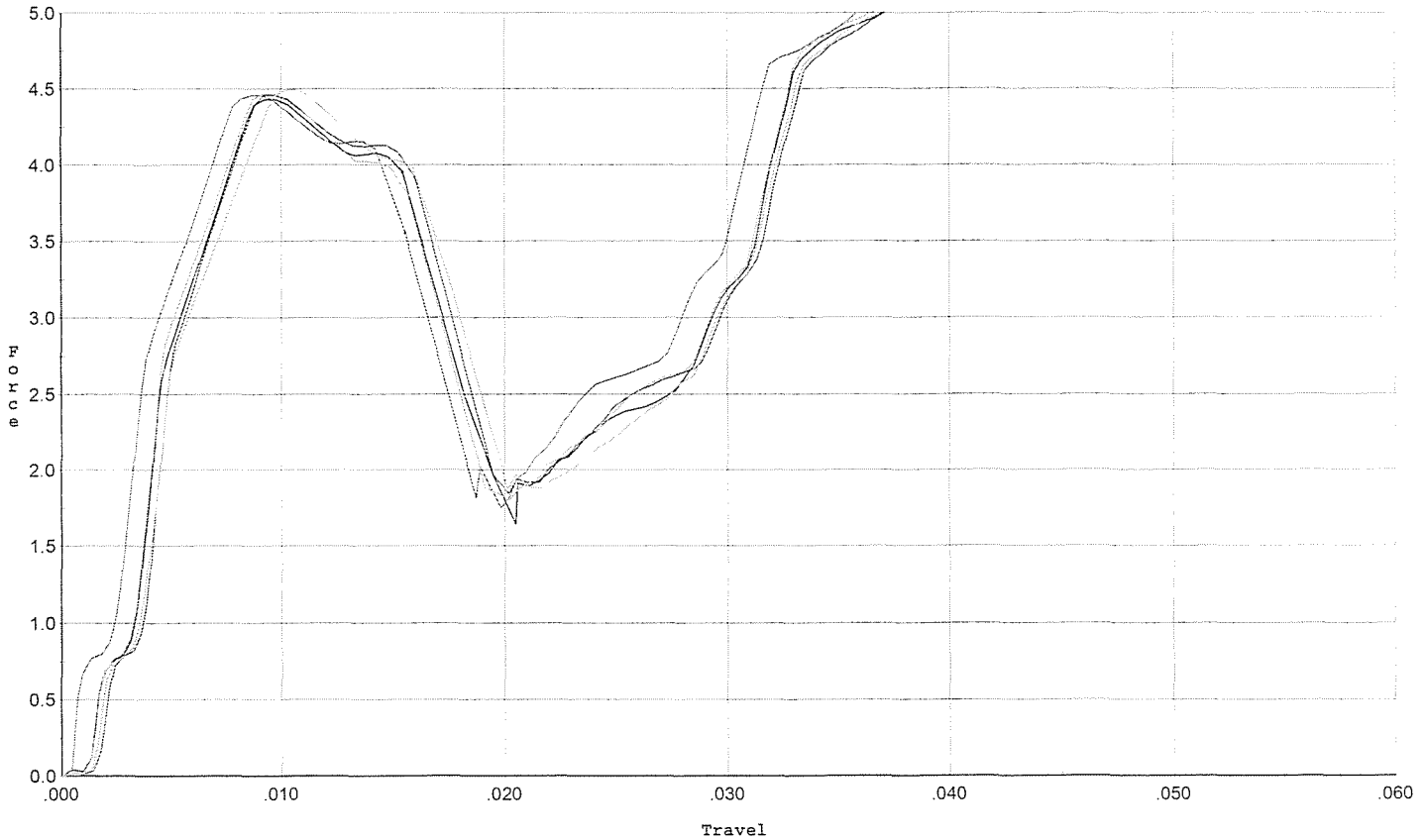
#	Peak Force	Travel To Actuate	Initial Take-up	Overtravel	Energy To Actuate	Lock Time	Action Type
1	2.409	0.012	0.00	0.035	0.018		Set Trigger
2	2.332	0.011	0.00	0.034	0.018		Set Trigger
3	2.377	0.011	0.00	0.035	0.017		Set Trigger
4	2.472	0.011	0.00	0.034	0.019		Set Trigger
5	2.432	0.012	0.00	0.034	0.018		Set Trigger

A-2.40

Trigger Profile [lbs,inch]

Profile SWS
GunType: Rifle
Make: Remington
Note: C Schults 3/17/2009

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



#	Peak Force	Travel To Actuate	Initial Take-up	Overtravel	Energy To Actuate	Lock Time	Action Type
1	4.458	0.016	0.00	0.024	0.044		Set Trigger
2	4.431	0.015	0.00	0.024	0.043		Set Trigger
3	4.458	0.016	0.00	0.023	0.046		Set Trigger
4	4.496	0.018	0.00	0.023	0.049		Set Trigger
5	4.472	0.016	0.00	0.024	0.044		Set Trigger

A-4-46

SNIPER WEAPON SYSTEM - UNIQUE STATISTICAL INFORMATION

FIREARM SERIAL NUMBER / DATASET NAME: G6738610.__0

FILE DATE AND TIME: 04/08/2009 08:18

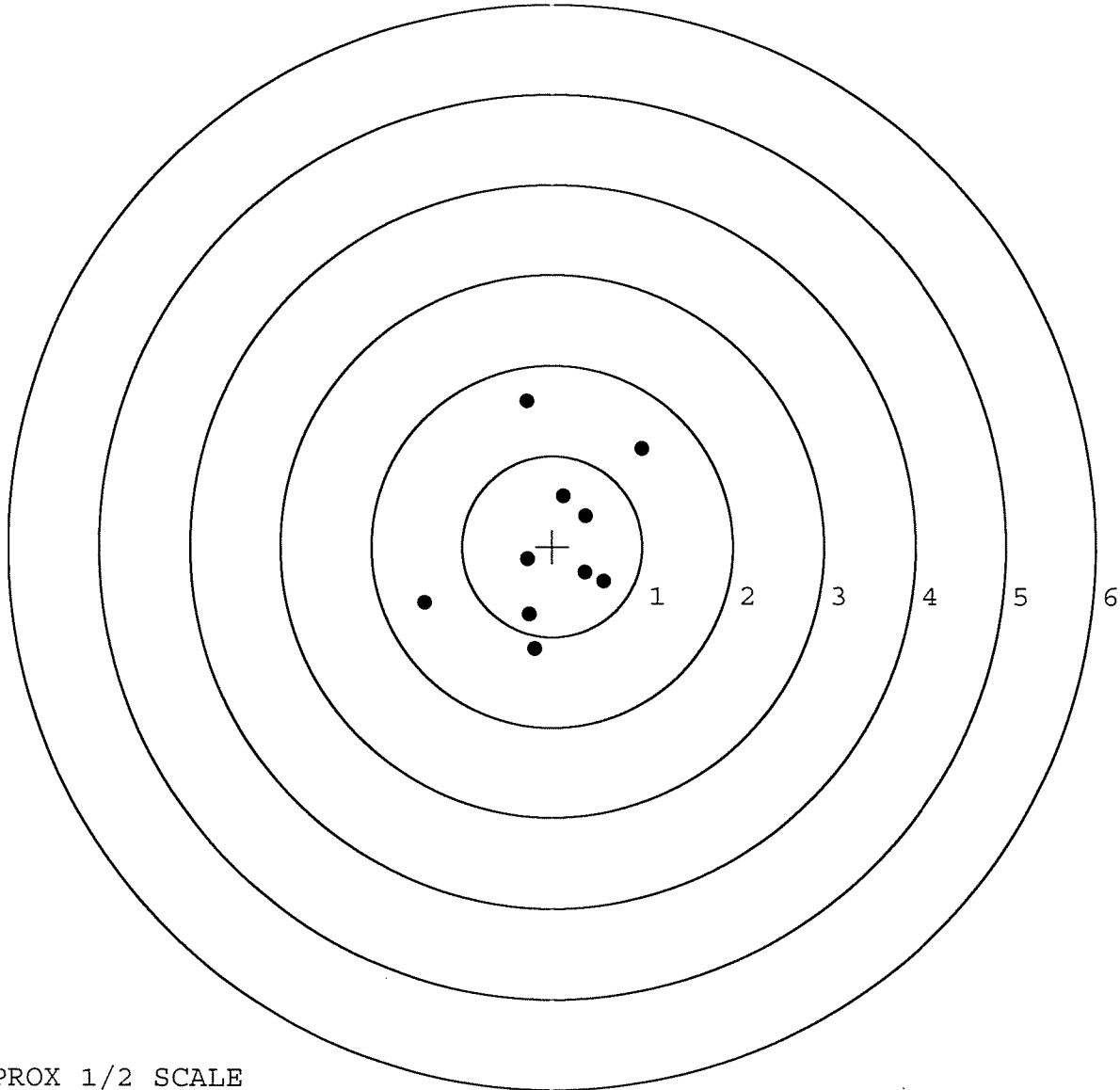
THE FOLLOWING DATA IS ALL REPORTED IN UNITS OF INCHES

The Average X Centroid of the Five Target Set:	-0.130
The Average Y Centroid of the Five Target Set:	0.038
The Average Point of Impact of the Five Target Set:	0.136
The Average Mean Radius of the Five Target Set:	0.809
The Distance from POA to Centroid Target #1:	0.024
The Distance from Centroid Target #2 to Centroid Target #1:	0.308
The Distance from Centroid Target #3 to Centroid Target #1:	0.226
The Distance from Centroid Target #4 to Centroid Target #1:	0.160
The Distance from Centroid Target #5 to Centroid Target #1:	0.143

SERIAL NUMBER: G6738610.0
 TARGET NUMBER: 1
 FILE DATE: 04/08/2009
 FILE TIME: 08:18

X CENTROID: 0.000
 Y CENTROID: 0.024
 POA TO CENTROID: 0.024
 HORZ SPREAD: 2.412
 VERT SPREAD: 2.740
 GROUP SPREAD: 2.741
 MIN RADIUS: 0.321
 MAX RADIUS: 1.607
 MEAN RADIUS: 0.915
 # IN 1 IN DIAMETER: 3
 # IN 2 IN DIAMETER: 6
 # in 3 IN DIAMETER: 8

POINT#	X	Y
1:	-1.414	-0.633
2:	-0.281	1.606
3:	0.998	1.077
4:	0.367	0.335
5:	0.125	0.557
6:	0.573	-0.388
7:	0.366	-0.287
8:	-0.275	-0.141
9:	-0.256	-0.755
10:	-0.199	-1.134



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: G6738610.____0

TARGET NUMBER: 2

FILE DATE: 04/08/2009

FILE TIME: 08:18

X CENTROID: -0.307

Y CENTROID: 0.019

POA TO CENTROID: 0.308

HORZ SPREAD: 2.404

VERT SPREAD: 1.410

GROUP SPREAD: 2.436

MIN RADIUS: 0.120

MAX RADIUS: 1.796

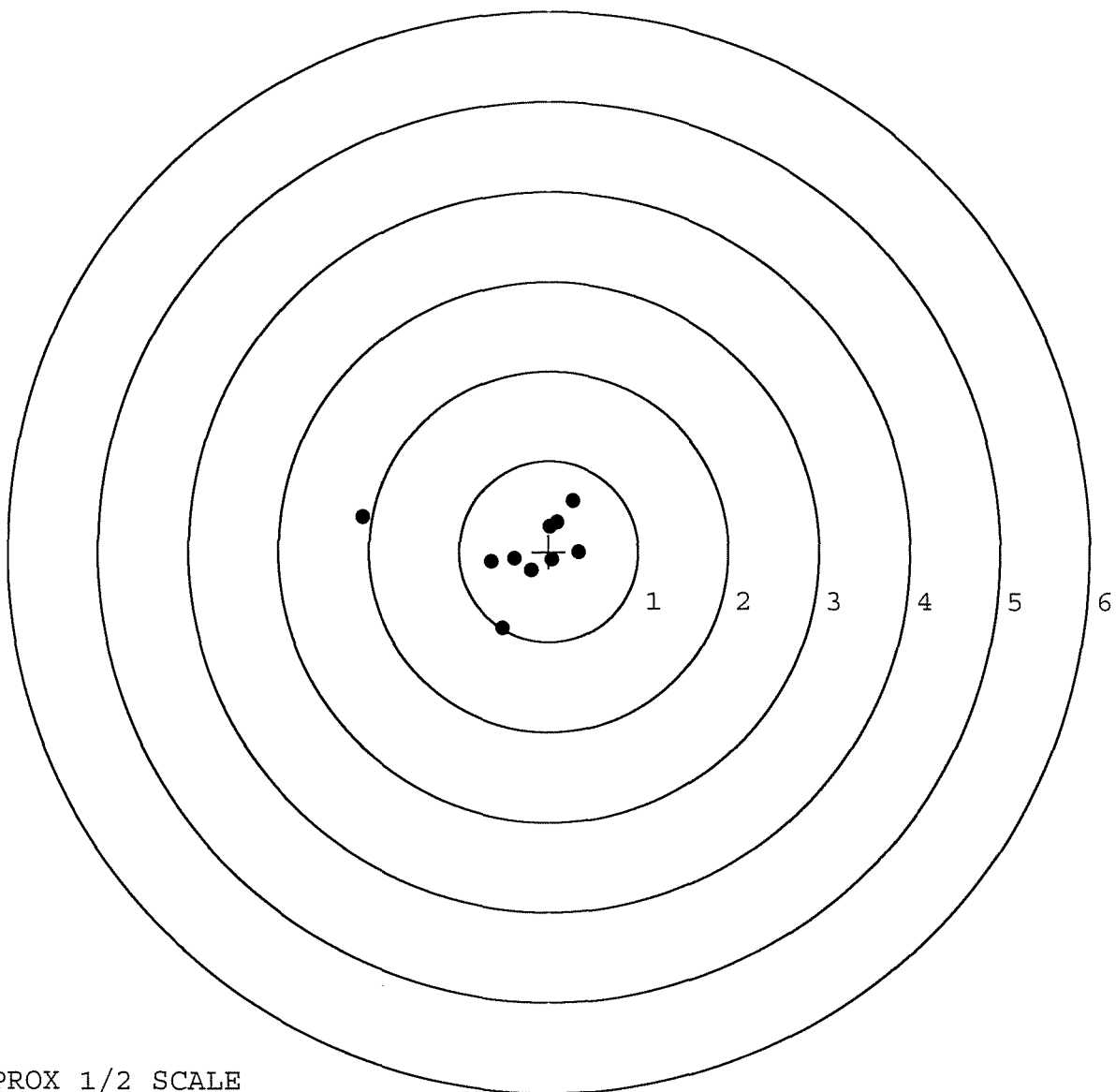
MEAN RADIUS: 0.613

IN 1 IN DIAMETER: 5

IN 2 IN DIAMETER: 9

in 3 IN DIAMETER: 9

POINT#	X	Y
1:	-2.067	0.378
2:	-0.526	-0.851
3:	-0.646	-0.112
4:	0.267	0.559
5:	0.007	0.277
6:	0.337	-0.013
7:	0.039	-0.088
8:	-0.195	-0.208
9:	-0.381	-0.076
10:	0.092	0.323

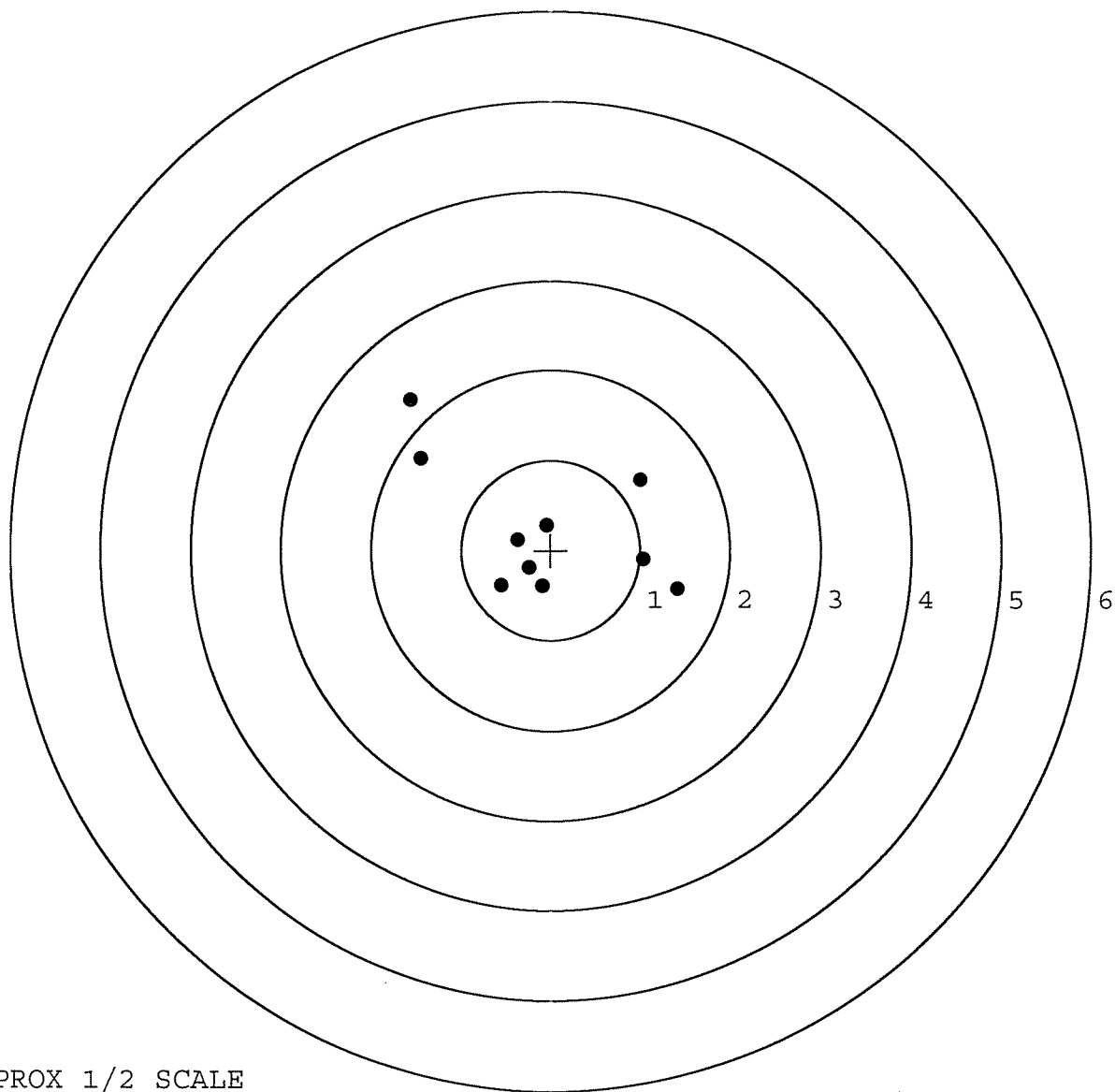


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: G6738610. 0
 TARGET NUMBER: 3
 FILE DATE: 04/08/2009
 FILE TIME: 08:18

X CENTROID: -0.087
 Y CENTROID: 0.232
 POA TO CENTROID: 0.248
 HORZ SPREAD: 2.982
 VERT SPREAD: 2.102
 GROUP SPREAD: 3.648
 MIN RADIUS: 0.058
 MAX RADIUS: 2.056
 MEAN RADIUS: 0.991
 # IN 1 IN DIAMETER: 3
 # IN 2 IN DIAMETER: 5
 # in 3 IN DIAMETER: 7

POINT#	X	Y
1:	-1.562	1.665
2:	-1.449	1.015
3:	1.002	0.783
4:	1.420	-0.437
5:	1.037	-0.103
6:	-0.554	-0.397
7:	-0.099	-0.401
8:	-0.245	-0.198
9:	-0.052	0.279
10:	-0.368	0.116

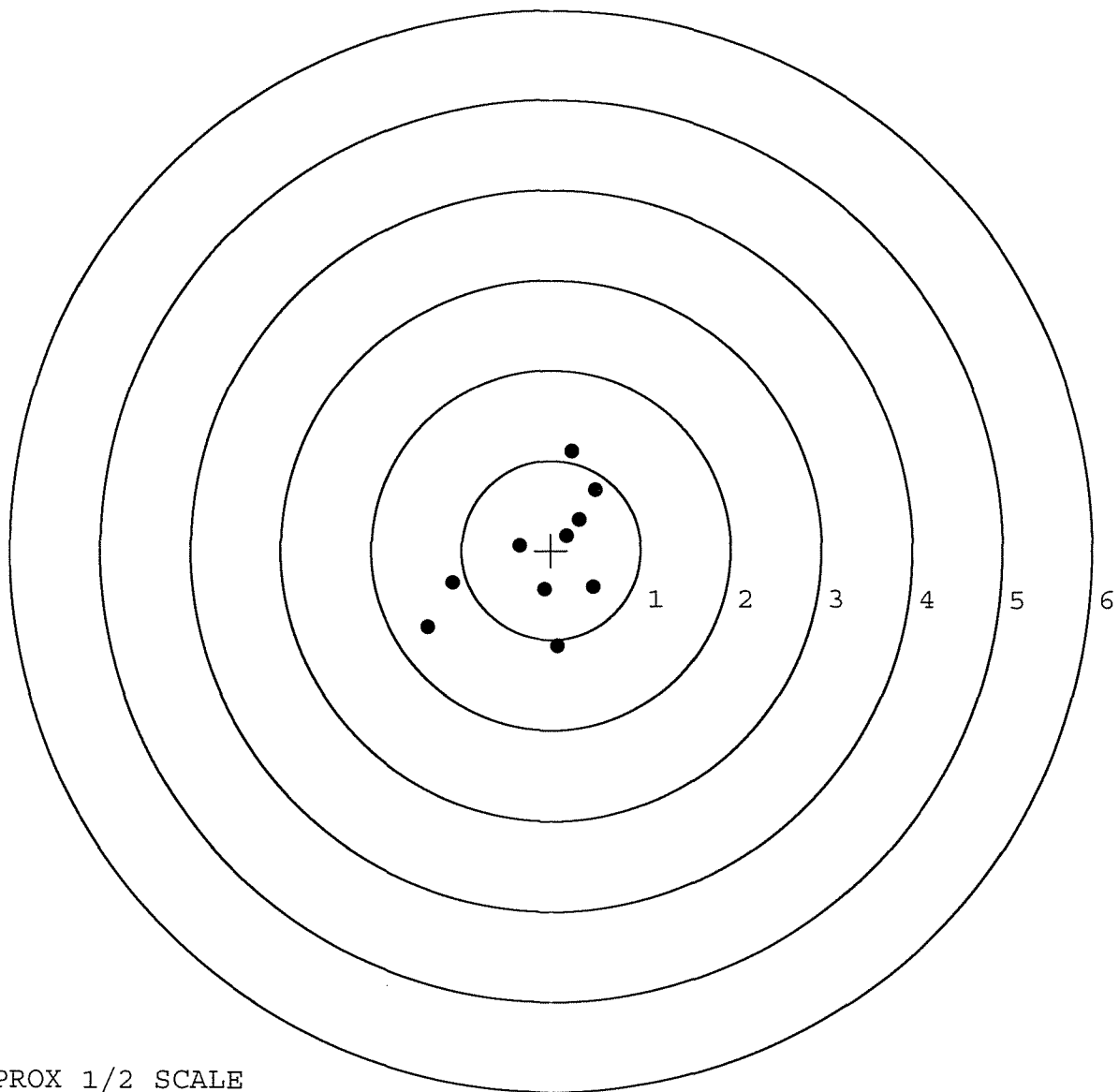


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: G6738610. __0
 TARGET NUMBER: 4
 FILE DATE: 04/08/2009
 FILE TIME: 08:18

X CENTROID: -0.116
 Y CENTROID: -0.086
 POA TO CENTROID: 0.144
 HORZ SPREAD: 1.871
 VERT SPREAD: 2.183
 GROUP SPREAD: 2.545
 MIN RADIUS: 0.269
 MAX RADIUS: 1.488
 MEAN RADIUS: 0.802
 # IN 1 IN DIAMETER: 3
 # IN 2 IN DIAMETER: 6
 # in 3 IN DIAMETER: 10

POINT#	X	Y
1:	0.227	1.103
2:	0.491	0.677
3:	0.307	0.341
4:	0.173	0.160
5:	0.470	-0.420
6:	-0.076	-0.443
7:	0.073	-1.080
8:	-0.350	0.048
9:	-1.098	-0.371
10:	-1.380	-0.871



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: G6738610. 0

TARGET NUMBER: 5

FILE DATE: 04/08/2009

FILE TIME: 08:18

X CENTROID: -0.141

Y CENTROID: 0.000

POA TO CENTROID: 0.141

HORZ SPREAD: 2.293

VERT SPREAD: 0.974

GROUP SPREAD: 2.293

MIN RADIUS: 0.137

MAX RADIUS: 1.274

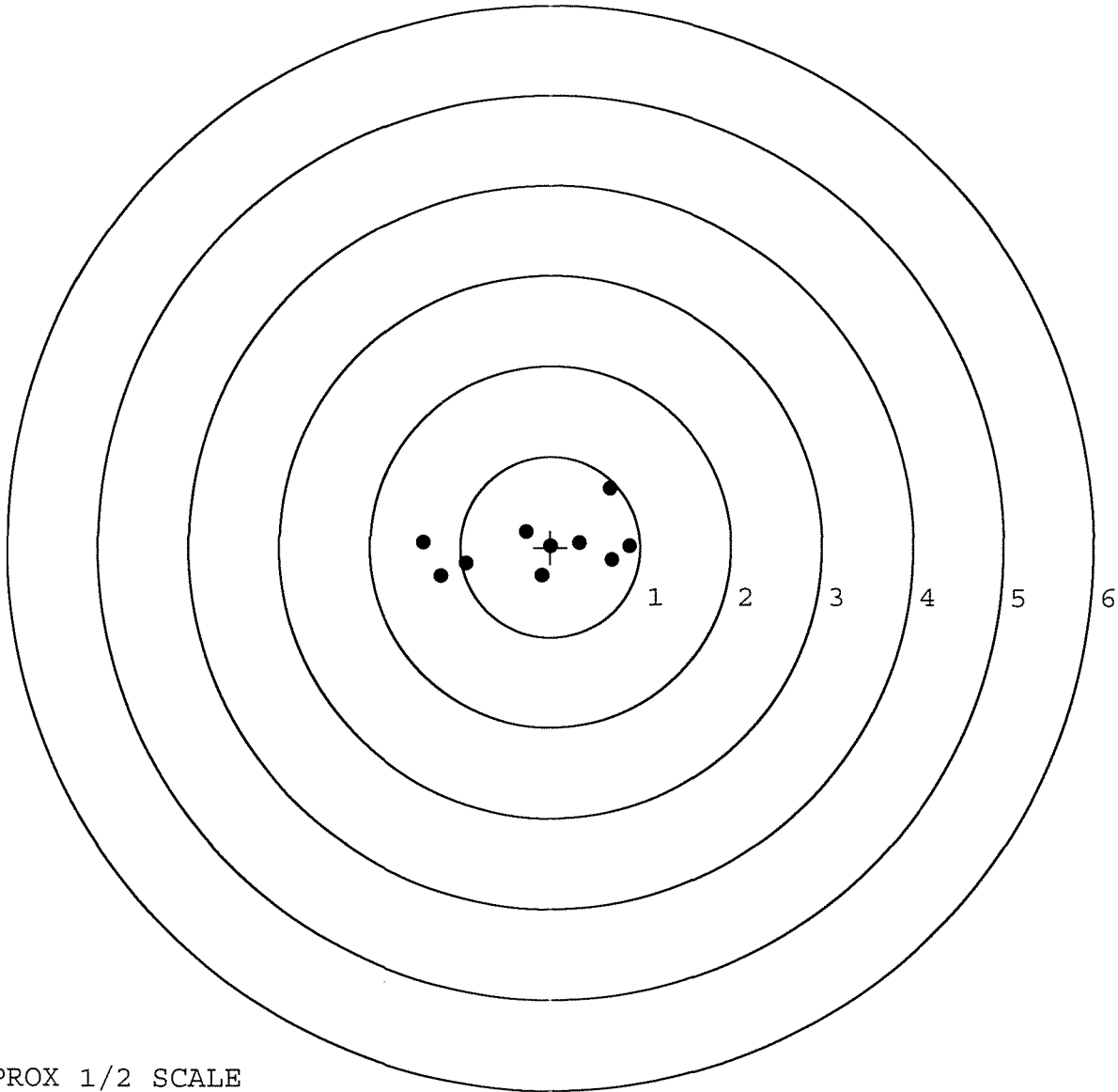
MEAN RADIUS: 0.725

IN 1 IN DIAMETER: 4

IN 2 IN DIAMETER: 6

in 3 IN DIAMETER: 10

POINT#	X	Y
1:	-0.005	0.020
2:	-0.099	-0.316
3:	0.324	0.050
4:	0.681	-0.142
5:	0.880	0.014
6:	0.662	0.648
7:	-0.280	0.176
8:	-0.939	-0.180
9:	-1.217	-0.326
10:	-1.413	0.056



TARGET APPROX 1/2 SCALE

M/24 7.62 NATO S.W.S. (COMPLETE SYSTEM)**BOLT ACTION CENTERFIRE RIFLE
24" BARREL 7.62 NATO**

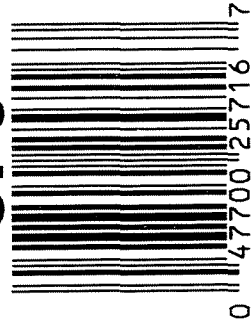
- INSTRUCTION BOOK 3518

DD FORM

proof of purchase



owner registration sticker

ORDER NO. **25716**BARREL LENGTH **24"**CAPACITY **6****G6461738****UPC**

ORDER 25716

M/24 7.62 NATO S.W.S. (COMPLETE SYSTE

UPC



ORDER 25716

M/24 7.62 NATO S.W.S. (COMPLETE SYSTE

UPC



SERIAL NO.



INSPECTION CHECKLIST-NEW GUNS

GUN SERIAL # G6461738

OP #	OPERATION NAME	READINGS	DATE	INITIAL
420 & 430	ASSEMBLE ACTION ASSEMBLE TO STOCK		9-16-05	RTZ
440	PROOF		9-20-05	RTZ
460	CHECK HEADSPACE	MAGNAFLUX	9-20-05	RTZ
470	DIS-ASSEMBLE ACTION	INSPECTED	9-21-05	RTZ
480 & 490	MAGNAFLUX BBL ACTION MAGNAFLUX BOLT	480 units	9/23/05	units
500	ROLLMARK CALIBER		9-23-05	CW
510	DRILL AND TAP SIGHT HOLES		9-23-05	TRL
520	GOFF BLAST BBL / REC		9-26-05	LB
530 & 540	APPLY COATINGS (BARREL ACTION)		10/4/05	RB
	(BOLT)		10/4/05	RB
560	RE-ASSEMBLE ACTION		10/6/05	mtm
	A) CLEAN INSIDE OF BOLT ASSEMBLY		10/6/05	mtm
	B) INSPECT REAR FIRING PIN HOLE FOR CHAMFER IN BOLT HEAD		10/6/05	mtm
	C) INSPECT EJECTOR HOLE FOR CHAMFER		10/6/05	mtm
	D) OIL FIRING PIN ASSEMBLY		10-11-05	RTZ
	E) ADJUST TRIGGER PULL TO MIN. SETTING AND STAKE	2.50 LBS +/- .5 LBS		

REV-8405

OP #	OPERATION NAME	READINGS	DATE	INITIAL
560	F) SAFETY ON FORCE 2 LBS MIN 10 LBS MAX	<u>16.5</u> <u>7.0</u> <u>4.5</u>	10/18/05	DA
CONT.				
	G) SAFETY OFF FORCE 2 LBS MIN	<u>2.5</u> <u>3.0</u> <u>2.5</u>	10/18/05	DA
	H) TRIGGER PULL TEST AND RETAINABILITY			
	I) FIRING PIN INDENT .020 MIN	<u>.023</u> <u>.023</u> <u>.024</u>	10/18/05	DA
	J) ASSEMBLE STOCK		10-11-05	RTZ
	K) ASSEMBLE SWIVEL STUDS		10-19-05	BC
	L) ATTACH FRONT AND REAR SIGHT ASSY'S		10-14-05	Ac
	M) IRON SIGHT ALIGNMENT		10-14-05	Ac
	N) DETACH FRONT AND REAR SIGHTS AND PLACE IN NUMBERED CONTAINER		10-14-05	Ac
640 & 650	FUNCTION TEST AND TARGET	<u>PASS</u> FAIL <u>PASS</u> FAIL	10/17/05	MPH
	MALFUNCTION	CORRECTION		
	MALFUNCTION	CORRECTION		
	MALFUNCTION	CORRECTION		
	MALFUNCTION	CORRECTION		
660	INSPECT FOR LIVE AMMO		10/17/05	S.a.f.
670	FINAL INSPECTION A) HEADSPACE		10-19-05	BC
	B) TRIGGER PULL +/- .5 LBS MIN 2.50 LBS MAX 4.0 LBS	<u>2.98</u> <u>2.44</u> <u>2.52</u> <u>2.46</u> <u>2.62</u>	10-18-05	TRW
	C) FUNCTION		10-19-05	BC
690	PACK		10/28/05	DA

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 10-3-05

TESTER R.P.

	2.50 LBS INITIAL	2.50 LBS AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50 LBS		COMMENTS
PULL #1	2.61	2.26		2.45	
PULL #2	2.74	2.64		2.57	
PULL #3	2.63	2.58		2.60	
PULL #4	2.59	2.56		2.69	
PULL #5	2.71	2.59		2.67	
TOTAL	13.28	12.63		12.98	
AVERAGE	2.65	2.52		2.59	

	3.00 LBS INITIAL	3.00 LBS AFTER 20 CYCLES		COMMENTS
PULL #1	3.28	3.12		
PULL #2	3.24	3.23		
PULL #3	3.27	3.25		
PULL #4	3.26	3.17		
PULL #5	3.28	3.19		
TOTAL	16.33	15.96		
AVERAGE	3.26	3.19		

	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	4.32	4.34		4.19
PULL #2	4.26	4.16		4.03
PULL #3	4.27	4.22		4.04
PULL #4	4.29	4.28		3.89
PULL #5	4.35	4.24		4.42
TOTAL	21.49	21.24		20.57
AVERAGE	4.29	4.24		4.11

SNIPER WEAPON SYSTEM - UNIQUE STATISTICAL INFORMATION

FIREARM SERIAL NUMBER / DATASET NAME: G6461738.___0
FILE DATE AND TIME: 10/17/2005 18:17

THE FOLLOWING DATA IS ALL REPORTED IN UNITS OF INCHES

The Average X Centroid of the Five Target Set:	0.206
The Average Y Centroid of the Five Target Set:	-0.225
The Average Point of Impact of the Five Target Set:	0.305
The Average Mean Radius of the Five Target Set:	0.824
The Distance from POA to Centroid Target #1:	0.371
The Distance from Centroid Target #2 to Centroid Target #1:	0.498
The Distance from Centroid Target #3 to Centroid Target #1:	0.511
The Distance from Centroid Target #4 to Centroid Target #1:	0.081
The Distance from Centroid Target #5 to Centroid Target #1:	0.298

SERIAL NUMBER: G6461738. 0

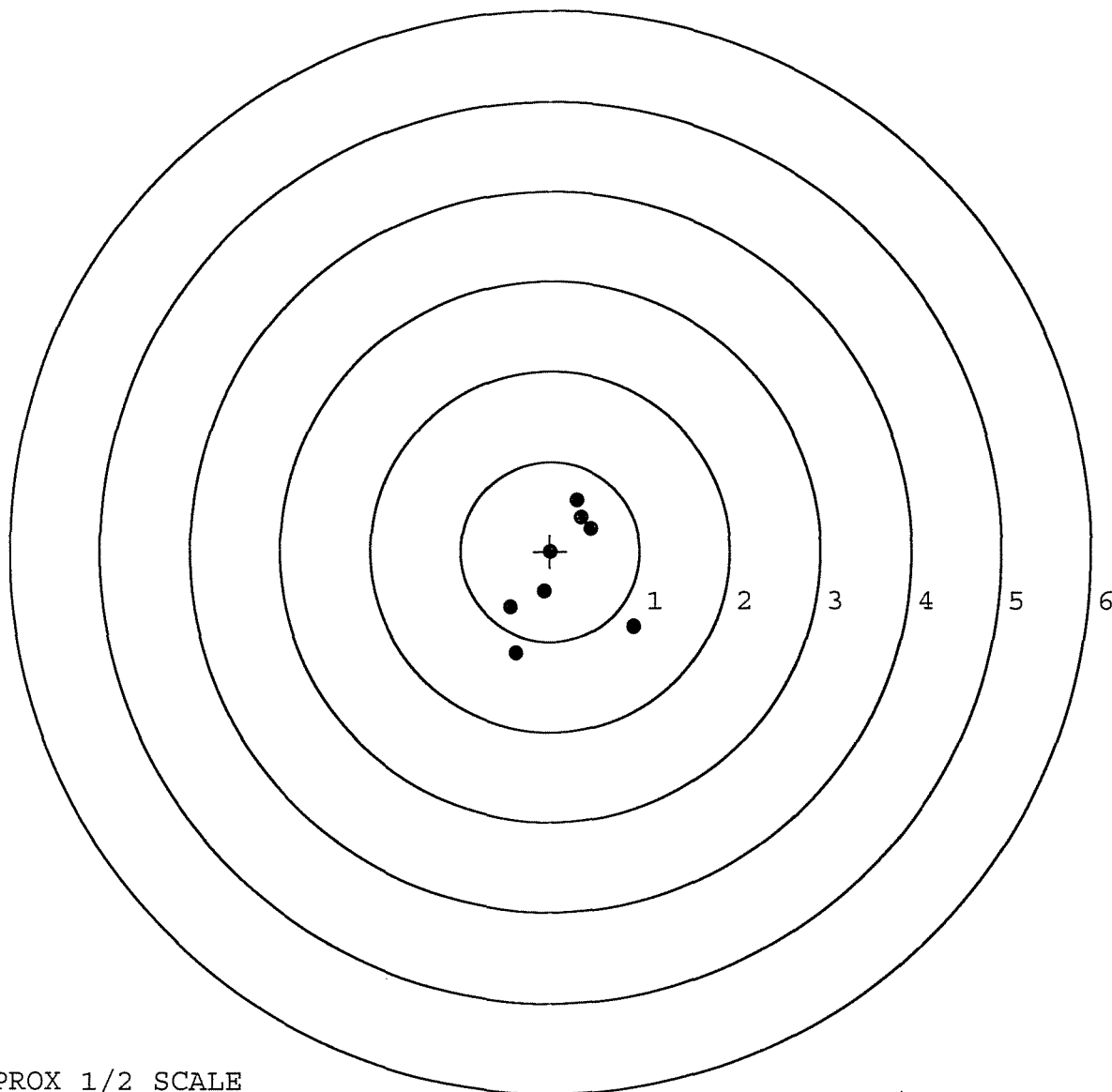
TARGET NUMBER: 1

FILE DATE: 10/17/2005

FILE TIME: 18:17

X CENTROID: 0.197
 Y CENTROID: -0.314
 POA TO CENTROID: 0.371
 HORZ SPREAD: 1.378
 VERT SPREAD: 1.698
 GROUP SPREAD: 1.830
 MIN RADIUS: 0.301
 MAX RADIUS: 1.000
 MEAN RADIUS: 0.670
 # IN 1 IN DIAMETER: 3
 # IN 2 IN DIAMETER: 10
 # in 3 IN DIAMETER: 10

POINT#	X	Y
1:	0.003	-0.007
2:	-0.073	-0.447
3:	-0.071	-0.449
4:	-0.450	-0.623
5:	-0.384	-1.127
6:	0.928	-0.840
7:	0.928	-0.842
8:	0.450	0.248
9:	0.344	0.378
10:	0.299	0.571

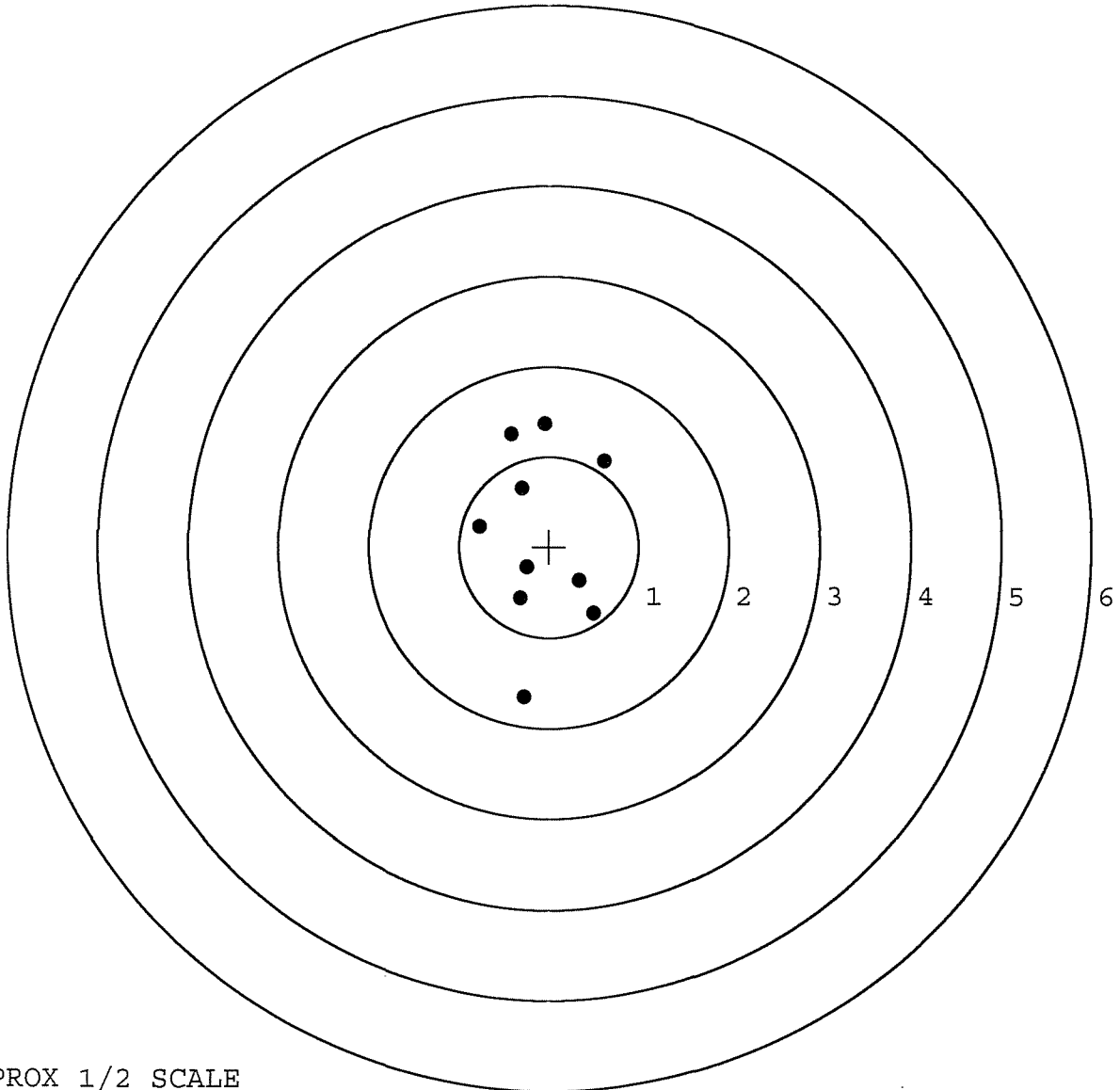


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: G6461738.____0
 TARGET NUMBER: 2
 FILE DATE: 10/17/2005
 FILE TIME: 18:17

X CENTROID: -0.099
 Y CENTROID: 0.087
 POA TO CENTROID: 0.132
 HORZ SPREAD: 1.393
 VERT SPREAD: 3.020
 GROUP SPREAD: 3.028
 MIN RADIUS: 0.352
 MAX RADIUS: 1.750
 MEAN RADIUS: 0.936
 # IN 1 IN DIAMETER: 1
 # IN 2 IN DIAMETER: 5
 # in 3 IN DIAMETER: 9

POINT#	X	Y
1:	0.498	-0.734
2:	0.339	-0.378
3:	-0.321	-0.573
4:	-0.251	-0.231
5:	-0.786	0.221
6:	-0.312	0.649
7:	0.607	0.953
8:	-0.281	-1.654
9:	-0.428	1.248
10:	-0.056	1.366

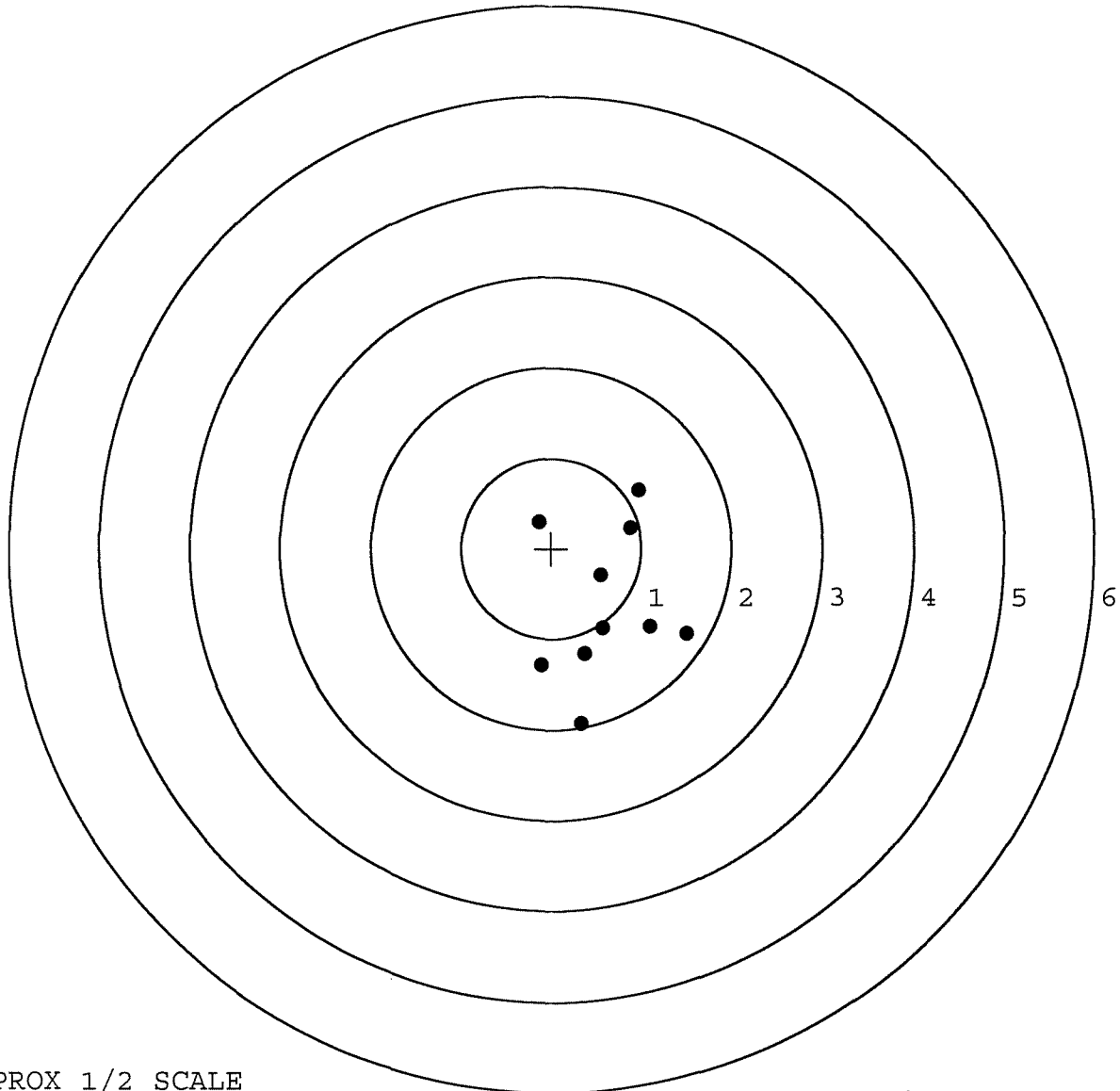


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: G6461738. __0
 TARGET NUMBER: 3
 FILE DATE: 10/17/2005
 FILE TIME: 18:17

X CENTROID: 0.601
 Y CENTROID: -0.627
 POA TO CENTROID: 0.868
 HORZ SPREAD: 1.651
 VERT SPREAD: 2.577
 GROUP SPREAD: 2.654
 MIN RADIUS: 0.263
 MAX RADIUS: 1.336
 MEAN RADIUS: 0.842
 # IN 1 IN DIAMETER: 2
 # IN 2 IN DIAMETER: 7
 # in 3 IN DIAMETER: 10

POINT#	X	Y
1:	0.547	-0.300
2:	1.094	-0.874
3:	0.572	-0.888
4:	0.369	-1.171
5:	-0.119	-1.297
6:	0.339	-1.936
7:	1.506	-0.955
8:	0.878	0.226
9:	0.972	0.641
10:	-0.145	0.289



TARGET APPROX 1/2 SCALE

SERIAL NUMBER: G6461738. 0

TARGET NUMBER: 4

FILE DATE: 10/17/2005

FILE TIME: 18:17

X CENTROID: 0.139

Y CENTROID: -0.257

POA TO CENTROID: 0.292

HORZ SPREAD: 1.981

VERT SPREAD: 2.327

GROUP SPREAD: 2.685

MIN RADIUS: 0.041

MAX RADIUS: 1.363

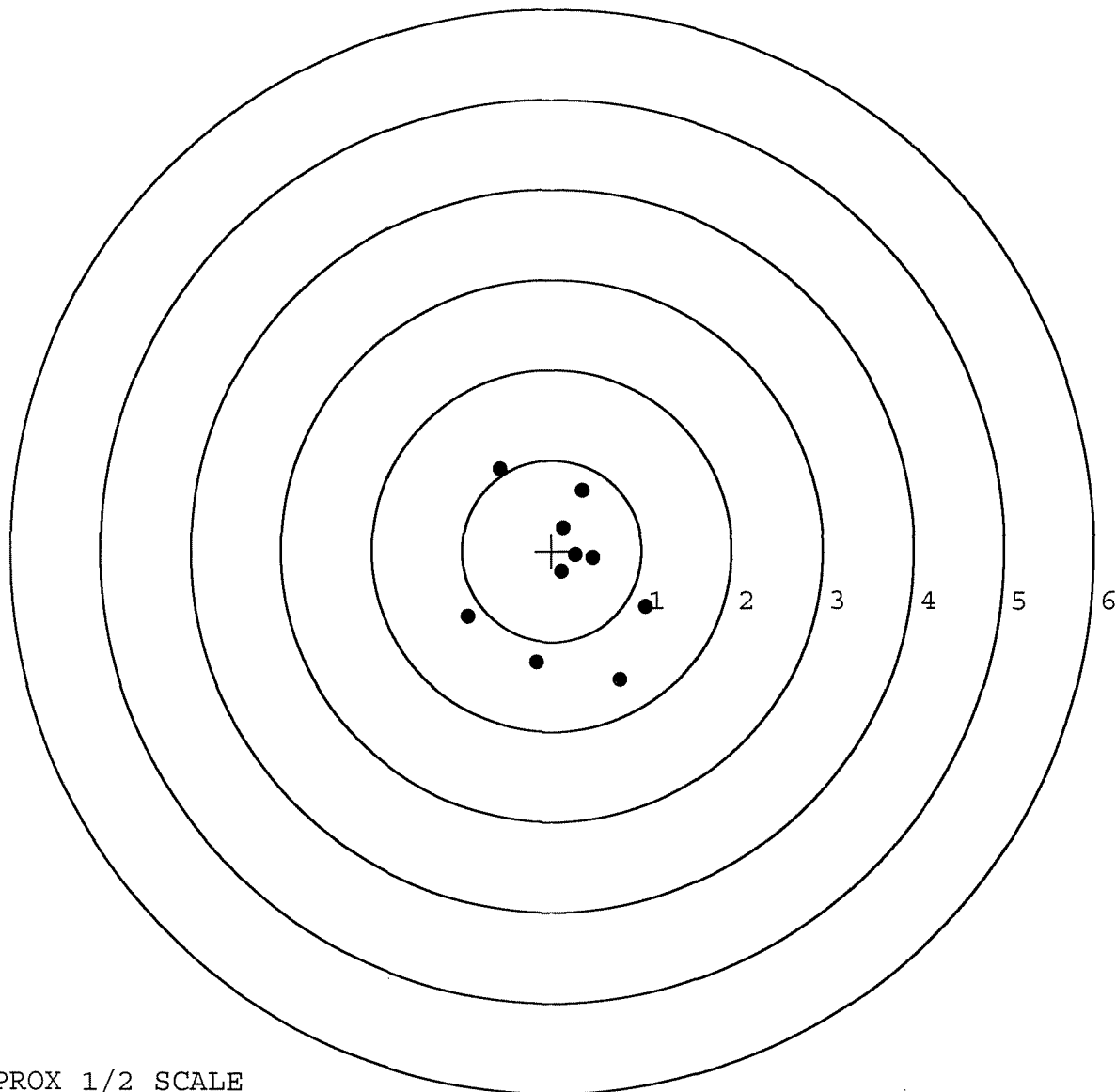
MEAN RADIUS: 0.796

IN 1 IN DIAMETER: 3

IN 2 IN DIAMETER: 6

in 3 IN DIAMETER: 10

POINT#	X	Y
1:	0.122	0.247
2:	0.459	-0.081
3:	0.260	-0.051
4:	0.111	-0.227
5:	1.041	-0.622
6:	-0.582	0.900
7:	0.338	0.665
8:	0.758	-1.427
9:	-0.174	-1.239
10:	-0.940	-0.732

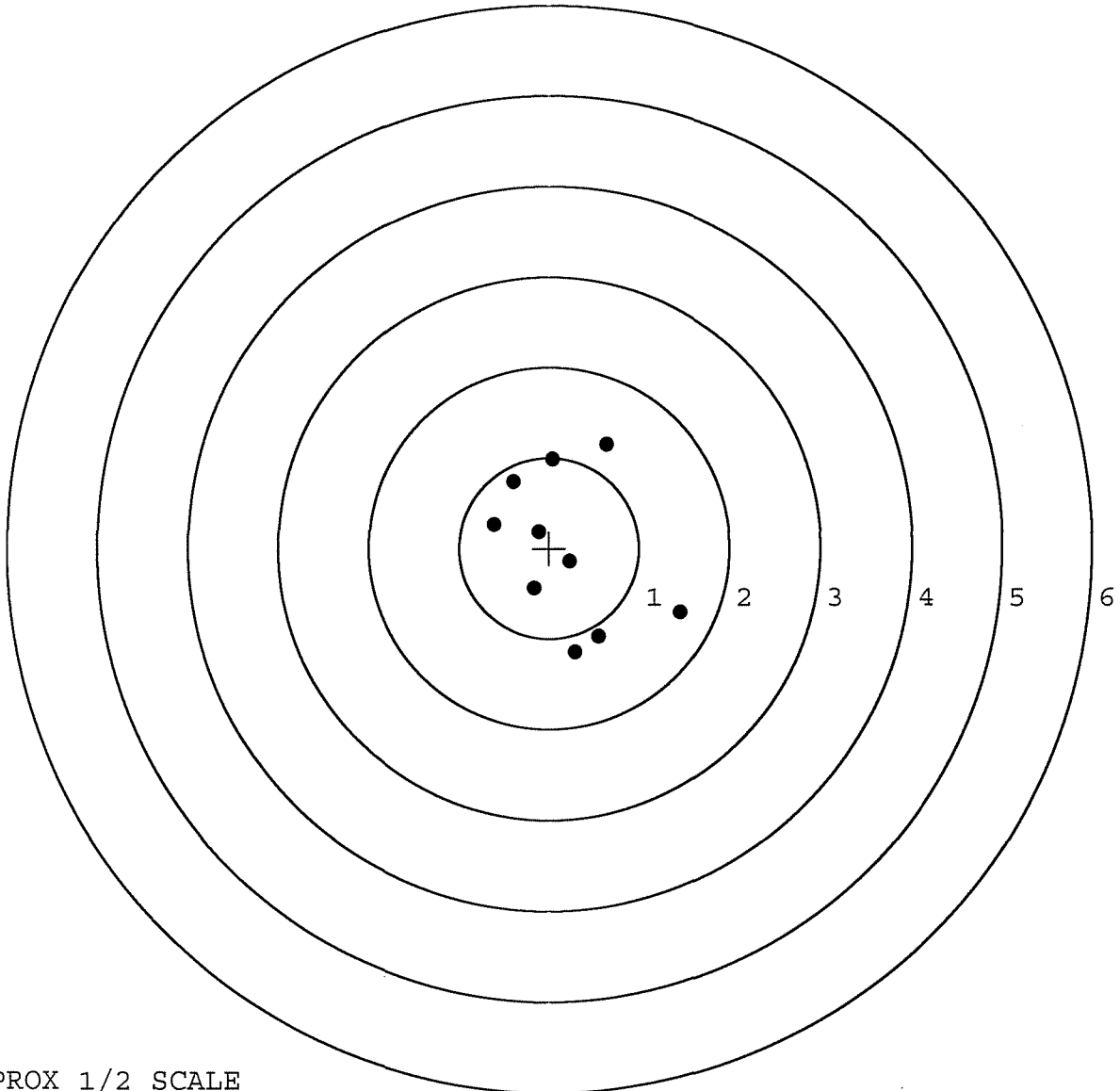


TARGET APPROX 1/2 SCALE

SERIAL NUMBER: G6461738. 0
 TARGET NUMBER: 5
 FILE DATE: 10/17/2005
 FILE TIME: 18:17

X CENTROID: 0.190
 Y CENTROID: -0.016
 POA TO CENTROID: 0.191
 HORZ SPREAD: 2.080
 VERT SPREAD: 2.296
 GROUP SPREAD: 2.368
 MIN RADIUS: 0.140
 MAX RADIUS: 1.453
 MEAN RADIUS: 0.876
 # IN 1 IN DIAMETER: 2
 # IN 2 IN DIAMETER: 5
 # in 3 IN DIAMETER: 10

POINT#	X	Y
1:	0.227	-0.151
2:	-0.168	-0.449
3:	-0.117	0.181
4:	-0.622	0.261
5:	-0.402	0.739
6:	0.046	0.984
7:	0.638	1.141
8:	0.553	-0.980
9:	0.289	-1.155
10:	1.458	-0.726



TARGET APPROX 1/2 SCALE