

Sigron
10-50

Leup
~~10-50~~
7-47

NF
15-55x

NF
NXS
42

NF
15-55x #2

NF
BR

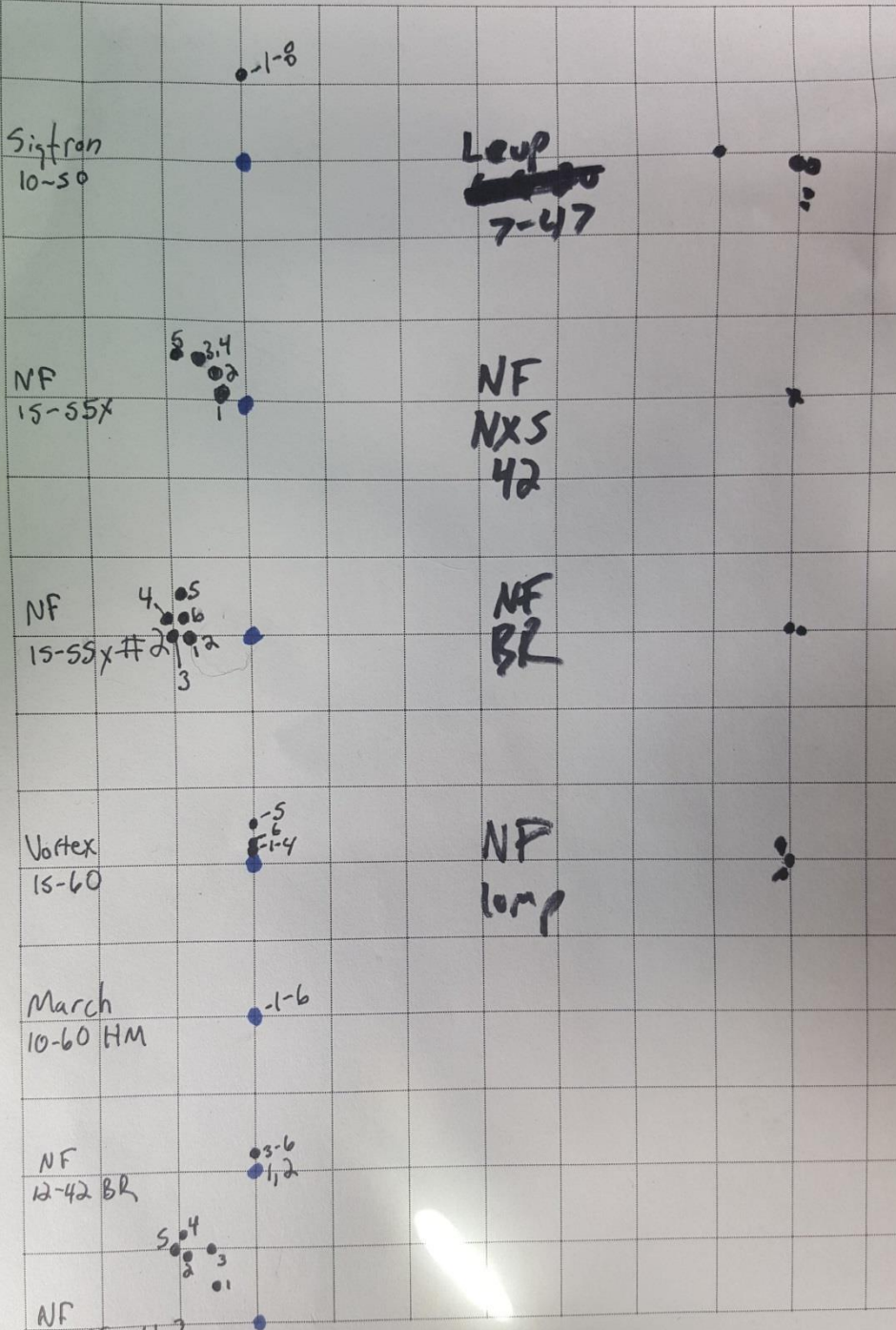
Vortex
15-60

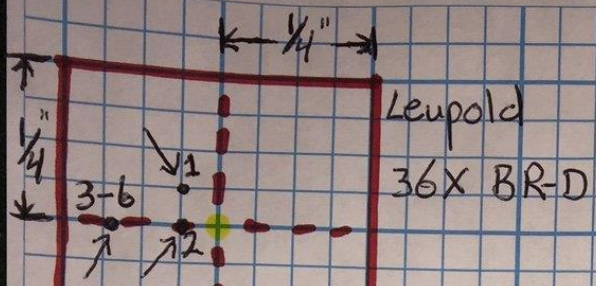
NF
10mp

March
10-60 HM

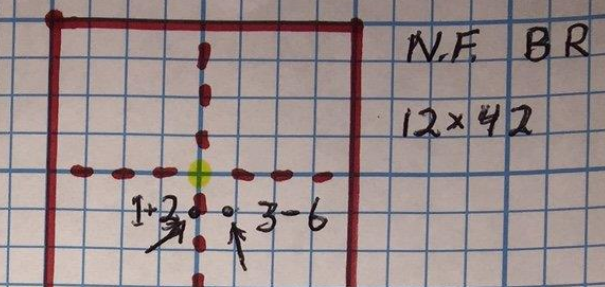
NF
12-42 BR

NF
15-55x #3

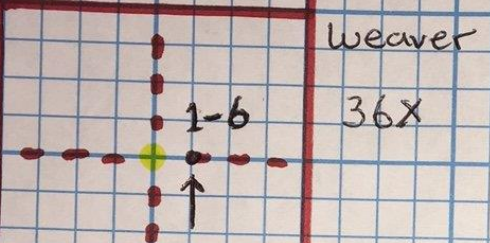




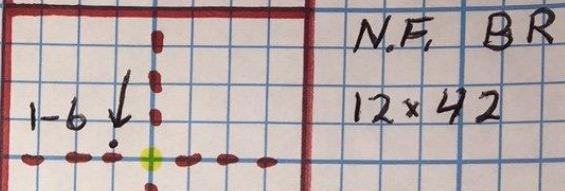
Leupold
36X BR-D



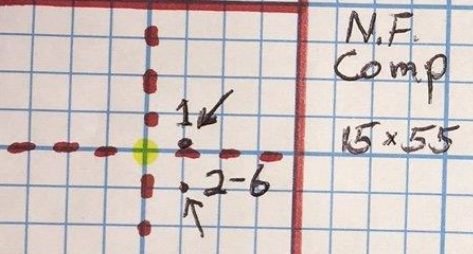
N.F. BR
12x42



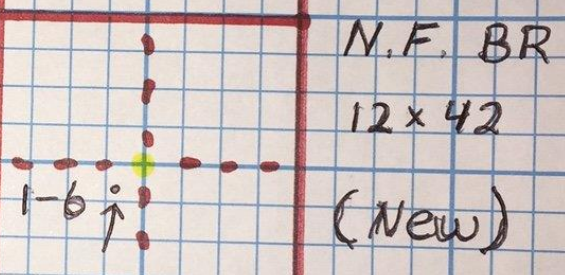
Weaver
36X



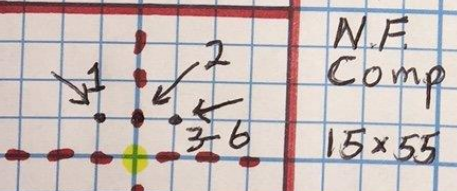
N.F. BR
12x42



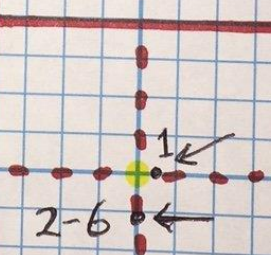
N.F. Comp
15x55



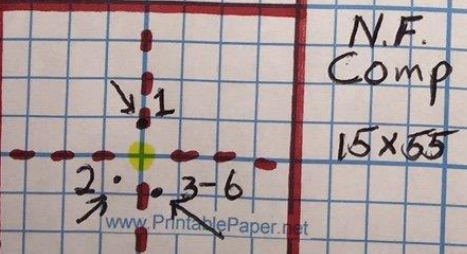
N.F. BR
12x42
(New)



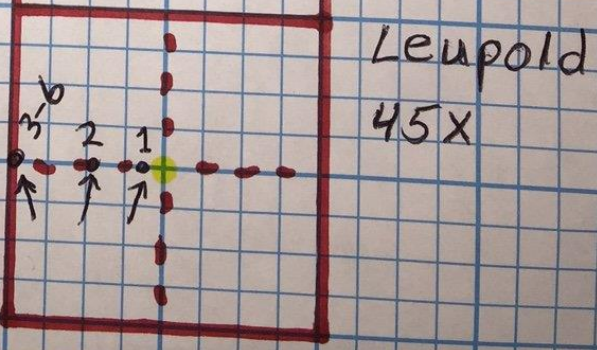
N.F. Comp
15x55



Leupold
45X



N.F. Comp
15x55



Leupold
45X

8-28-17 Scope Testing Plot Sheet

- ← starting point all scopes at 0
- ← movement when Reducing Power

NFBR 12-42 used
SN 4292 (white letter)

↑
1-8

1/16" move on
1st recoil, no
movement next 7
OKAY

NFBR 12-42 (Gold letter)
SN 3689

30X

1-8

move ↓ & 3/16 1st shot
Never moved Again
7 more shots

OKAY

march 10-60x56 Highlander

moved 3/16 → on 1st
moved 1/16 on 2
moved → 1/16 on 3
moved ↓ 1/16 on 4
did not move next 4

30X

1-8

JUNK!

NFBR 12-42 (white/NEW)
SN 1205A

← 1-8 NO MOVEMENT
1-8

NO change on 30X

PERFECT! PERFECT!!

march 10-60x52

30X
← 1-8

NO MOVEMENT
1-8

PERFECT!

15-60x52 vortex GE (NEW)
SN 5071

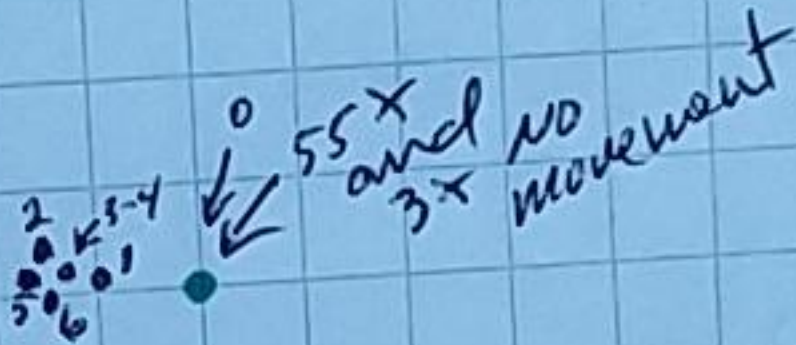
← 1-8 NO MOVEMENT

NO change on 30X

PERFECT!

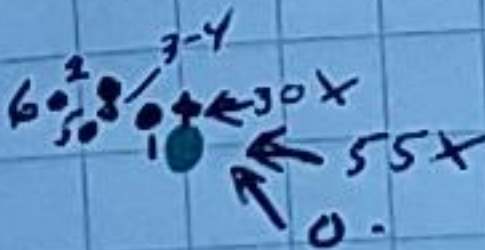
PERFECT!!!

15-55 COMP "22A"



JUNK

15-55 Comp "84A"



JUNK

10-22-17

Kaltes 10-50 (D.P.)

eye Relief/Resolution/P-lax
✓ perfect
○ okay
● junk

variable test NO PAT SHIFT from 50x to 30x

✓ perfect
○ okay
● junk

0 shots	1st	2nd	3rd	4th	5th
+	+	+	+	+	+
6th	7th	8th	9th	10th	11th
+	+	+	+	+	+
12th					
+	+	○	○	○	○

Recoil test @ 50x

dial down from 1k zero - No tapping, just dialed
NO MOVEMENT IN 12 SHOTS

✓ perfect
○ okay
● junk

Turnets Set ↑ 5.250 → 6.375

0 shots	1st recoil	2nd	3rd	4th	5th	6th	7th	8th	9th	10th		
+	+	+	+	+	+	+	+	+	+	+	○	○

dialed 2 more ↑ + back to 5.250
dialed ← 2 more + back to 6.375
* (NO movement after dialing)

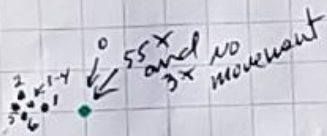
* ✓ perfect
○ okay
● junk

NO TAPPING, JUST DIALED
Recoil after dialing
NO MOVEMENT IN 10 SHOTS

✓ perfect
○ okay
● junk

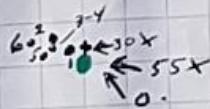
10-8-2017

15-55 Comp "22A"



JUNK

15-55 Comp "84A"

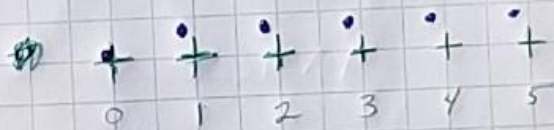


JUNK

11-25-17

Back from NF "Nothing wrong"

15-55 Comp "1122A"



perfect
✓OKAY
JUNK

11-25-2017 "84A"

Back from NF "Nothing wrong"

NO CHANGE ON 30X

PERFECT!



slight up NO NO upslight NO

perfect
✓OKAY
JUNK

NO CHANGE ON 30X

PERFECT!

11-25-2017

D.T. 15-55 comp ~~11-25-17~~ "292"
Back from NE "Nothing wrong"

→ + + + + +

0 1 2 3 4 5
1165 NO NO 16Lift NO

perfect
✓ okay
JUNK

11-25-2017

D.T. 15-55 Comp ~~11-25-17~~ "910"
Back from NE "Nothing wrong"

+ + + + +

0 1 2 3 4 5
4P 1/8 NO NO NO NO
L 116

perfect
✓ okay
JUNK

11-25-17
Vortex GE "3207"
New

+	+	+	+	+	+
0	1	2	3	4	5
	4 th	NO	NO	NO	NO

perfect
✓ okay

JUNK

11-25-17
Vortex GE "2547"
New

+	+	+	+	+	+
0	1	2	3	4	5
	NO	NO	NO	1/16 LIFT	NO

perfect
✓ okay

JUNK

march 10-60 x 56 Highlander

30k



moved $3/16$ on 1st
moved $\downarrow 1/16$ on 2
moved $\rightarrow 1/16$ on 3
moved $\downarrow 1/16$ on 4
did not move next

JUNK!

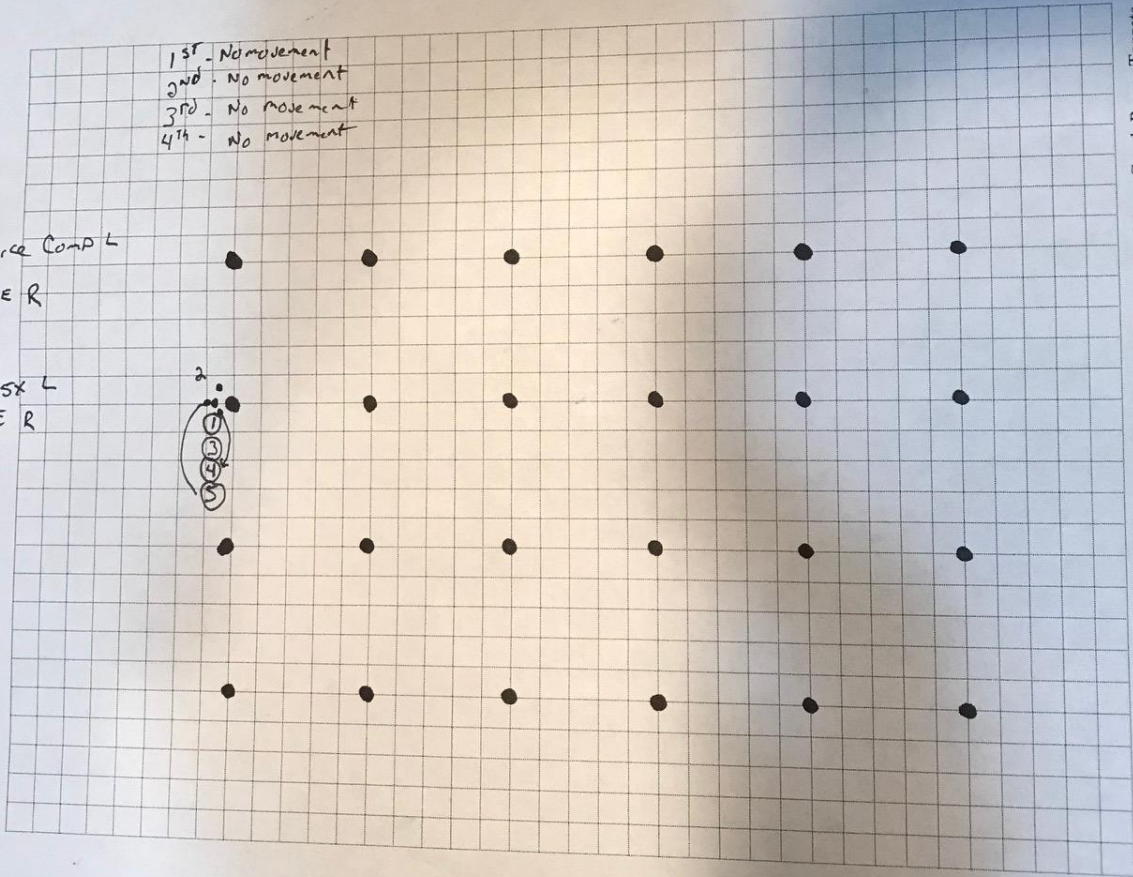
march 10-60 x 52

11/28/17 CCRC 56°F

1st - No movement
2nd - No movement
3rd - No movement
4th - No movement

Nightforce Comp L
15-55
Vortex GE R
15-60

Leupold 45x L
Vortex GE R
15-60



12-10-2017

NF 15-15 COMP "484A"

Warranty Return
"No problems Found"

POA TEST @ 55X

+	+	+	+	+	+	+	perfect
0	up 1/8	2 DN 1/16	3 up 1/16	4 up 1/16	5 DN 1/16	6 up 1/16	okay
+	+	+	+	+	+	+	✓ JUNK
7 DN 1/16	8 up 1/16	9 DN 1/16	10 up 1/16	11	12	13	Total ES = .2 ±
+	+	+	+	+	+	+	Total ES once settled = .1 ±
14	15	16	17	18	19	20	

Variable Test → + 55X + 30X perfect ✓ okay JUNK

12-10-2017

NF 15-55 COMP "373A"

2 seasons used / 2 strokes SET FREQ
First time Tested
(4 seasons worth Rounds)

POA TEST @ 55X

+	+	+	+	+	+	+	+	perfect
0	1 1/16 left	2 NO	3 NO	4 NO	5 NO	6 NO	7 NO	okay
+	+	+	+	+	+	+	+	JUNK
8 NO	9 NO	10 NO	11	12	13	14	15	
+	+	+	+	+	+	+	+	
16	17	18	19	20	21	22	23	

1st Recoil Small move left, then no movement

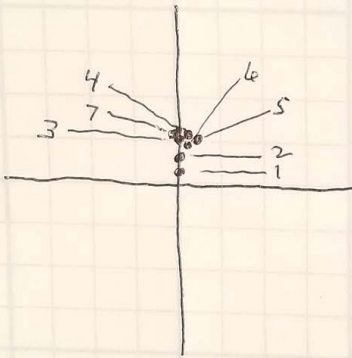
Variable Test → + 55X + 30X perfect ✓ okay JUNK
up 1/16 left 1/8+

Scope POA Test @ 50 yds

Results Page



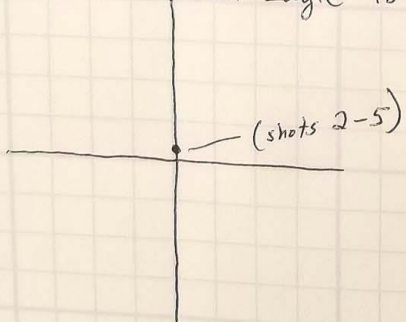
Nightforce Comp 15-55x52



Failed

Moved a total of 0.30"
at 50 yd target
throughout 7 shots

Vortex Golden Eagle 15-60x52



After 1st shot
held POA

1-14-2018

Sighttron S11S 10-50x60

SN "0004"

POA TEST \pm Variable

50X

30X



✓ perfect

POA TEST RECOIL \downarrow



0



1

Left + up



2

No Move



3

NO



4

NO



5

NO



6

NO



7

NO



8

NO

✓ OKAY

1-14-2018 Sighttron S111 8-32x 56 SN "0081"

POA TEST RECOIL



0



1



2



3



4



5



6

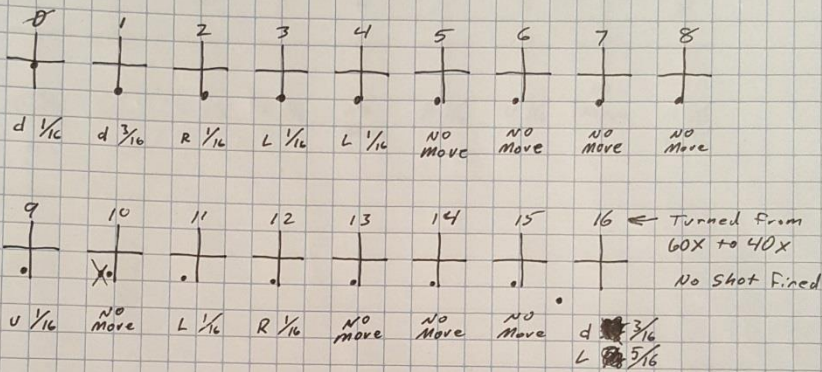


7

✓ perfect

1-29-18

P.O.A. Scope Test @ 100 yds.
March 10-60 H.M. @ 60x



Notes:

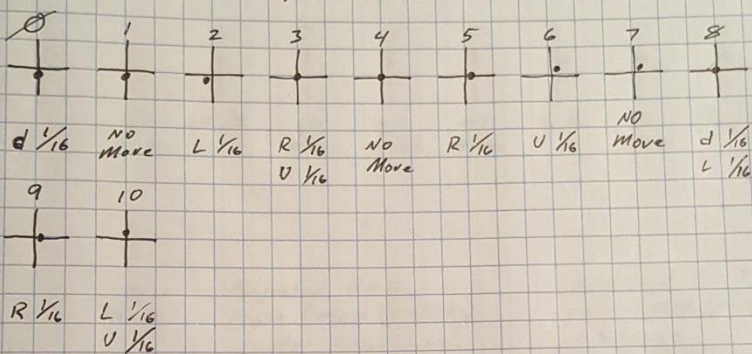
Had to co-witness test scope's P.O.A. either $\frac{1}{16}$ High or $\frac{1}{16}$ Low due to $\frac{1}{8}$ clicks on scope. I chose Low.

Horizontal E.S. - $\frac{3}{16}$ " Vertical E.S. - $\frac{3}{16}$ Excluding Mag. Change.
@ 1000 yds. E.S. = $1\frac{3}{8}$ " Vertical and Horizontal.

1-29-18

2nd POA Scope Test @ 100 yds.
after some major turret twisting.

March 10-60 H.M. @ 40X



Notes:

Had to co-witness test scope's POA $\frac{1}{16}$ " low again after twisting both turrets all over hell and back.

These results are as far as I could go before they closed firing line @ sunset.

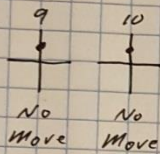
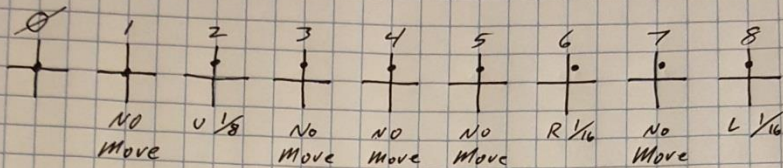
Horizontal ES - $\frac{1}{8}$ Vertical ES - $\frac{1}{8}$
@ 1000 yds ES = $1\frac{1}{4}$ " Horizontal and Vertical

1st and 2nd tests were done back to back with a lot of random turret twisting inbetween. I was looking for another large POA shift on first shot like first test, but didn't happen.

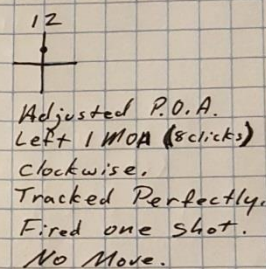
1-29-18

P.O.A. Scope Test @ 100 yds.

12-42 N.F. NXS @ 42X



11 Adjusted P.O.A.
Right 1 MOA (8 clicks)
Counter Clockwise.
Tracked Perfectly.
Fired one shot.
No Move.



Turned from 42X
to 26X,
No shot fired.

Notes:

Horizontal E.S. - $\frac{1}{16}$ " (excluding mag. change), Vertical E.S. - $\frac{1}{8}$ "
@ 100 yds. Horizontal E.S. = $\frac{5}{8}$ " Vertical E.S. = $\frac{1}{4}$ "

Scope test 4 Feb 18 6 Dasher, Hood (Ezell) checker, Frozen weaver
 shot at 50 yds

1	NF Comp Gen II 5 shots all held steady ← 1-5	6	NF Gen I moved on 1st shot then steady 1
2	NF BR Older model settled down on 4th shot 4	7	New GE moved on 1st + 2nd shots then steady 2.1 Repeated test after exercising turret and it did not move
3	NF Comp Gen II Moved on shots 1+2 then settled down 2.1	8	March 40-60 HM moved on 1st shot then solid 1
4	NF Comp Gen II Jump on 1st shot then steady i		March 8-80 solid ← 1-8
5	Sightron SI III solid ← 1-6		

Notes

- All scopes maintained POI thru magnificant adjustments except Sightron - It shifted left 1/32" inch
- GE was New and never mounted on a rifle
- No mirage, clear sight picture during test
- Red grid squares are 1"
- Drawing = actual movement observed

100 YARDS

1/4" GRID

2, 3, 4, 5, 6, 7

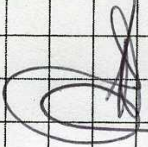
ZERO

C514 NF CAMP 15x55

SN AA55731A

FOP-1

FEB 2, 2018



SOME MISCAGE

MOVED

1/16 Right

1/4" UP AFTER 1ST SHOT
THEY NEVER MOVED

* CALL THIS ONE SOLID

STAR CROSS

1

2

VORTEX GRE

#G1612984

5, 7, 8

3

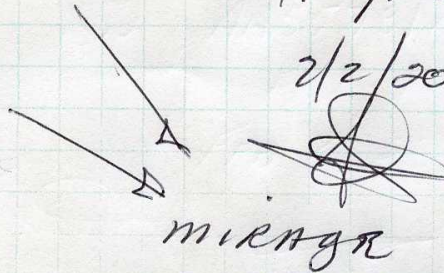
2 4

6

100 YARDS

1/4" GRID

2/2/2018



MOVED 1/4" LEFT

MOVED 1/8" DOWN AFTER 1ST SHOT

2, 3 & 4 NO CHANGE.

5 & 6 5+H MOVED UP 1/16 7

7, 8 NO CHANGE

6+H 77 SLIGHT DOWN LESS THAN

1/16 7H

3

4

New, Kahles 10-50x56, "SN 5902", Braudon
 1st Scope on tester 2-25-2013

Reticle plot @ diff powers	50x	46x	40x	35x	30x	✓ perfect okay Junk
Recoil #	0	1	2	3		
Reticle plot						
Before Shot 4		← 3/16	No Move	No Move		✓ perfect okay Junk
Shot 8 more						
after dial off	NO MOVE	NO MOVE	NO MOVE	NO MOVE		
Test → NO MOVE	8	9	10	11		
	NO MOVE	NO MOVE	NO MOVE	NO MOVE		

Dial off and Back

 7 NO MOVE
 ✓ perfect
okay
Junk

New Kahles 10-50x56, "SN 5924" Russell

Reticle plot @ diff powers	50x	45x	40x	35x	30x	✓ perfect okay Junk
Recoil #	0	1	2	3	4	
Reticle plot						
		NO MOVE	NO MOVE	NO MOVE	NO MOVE	✓ perfect
	5	6	7	8	9	okay
						Junk
	NO MOVE	NO MOVE	NO MOVE	NO MOVE	NO MOVE	
	10	11	12	13	14	
	NO MOVE	NO MOVE	NO MOVE	NO MOVE	NO MOVE	

24.375
 7.625 R

Dial off and Back

 NO MOVE

✓ perfect
okay
Junk

Shot 5 more after dial off Test
 NO MOVE!

New Kahles 10-50x56 "SN 5909" Alex

Reticle plot (dial powers)	50x	45x	40x	35x	30x	✓ perfect okay Junk
-------------------------------	-----	-----	-----	-----	-----	---------------------------

Recoil # Reticle plot	0	1	2	3	4	✓ perfect okay Junk
		No move	No move	No move	No move	
	5	6	7	8	9	
	No move	No move	No move	No move	No move	
	10	11	12	13	14	
	No move	No move	No move	No move	No move	

23 7/8
8 7/8 R

Dial off  and Back

shot 6 more
✓ perfect After dial off
okay No move!
Junk

New Kahles 10-50x56 "SN 5922" Steve

Reticle plot (dial powers)	50x	45x	40x	35x	30x	✓ perfect okay Junk
-------------------------------	-----	-----	-----	-----	-----	---------------------------

Reticle plot Recoil #	0	1	2	3	4	✓ perfect okay Junk
		No move	No move	No move	No move	
	5	6	7	8	9	
	No move	No move	No move	No move	No move	
	10	11	12	13	14	
	No move	No move	No move	No move	No move	

23 3/4
9 5/8 R

Dial off  and Back

shot 6 more
After dial Test
✓ perfect
okay
Junk NO MOVE!

New Kahles 10-50x56 "SN 5825" Jay

Reticle plot
D.F. Powers

50x	45x	40x	35x	30x
•	•	•	•	•

✓perfect
okay
Junk

Reticle plot
Recoil #

0	1	2	3	4
•	•	•	•	•

✓perfect
okay
Junk

5	6	7	8	9
•	•	•	•	•
NO	NO	NO	NO	NO
10	11	12	13	14
•	•	•	•	•
NO	NO	NO	NO	NO

23 1/2
4 5/8 R

dial off
and Back

•
NO

✓perfect
okay
Junk
shot 6 more
after dial test
NO MOVE!

New Kahles 10-50x56 "SN 5826" Todd (1)

Reticle plot
d.f. Powers

50x	45x	40x	35x	30x
•	•	•	•	•

✓perfect
okay
Junk

Reticle plot
Recoil #

0	1	2	3	4
•	•	•	•	•

✓perfect
okay
Junk

5	6	7	8	9
•	•	•	•	•
NO	NO	NO	NO	NO
10	11	12	13	14
•	•	•	•	•
NO	NO	NO	NO	NO

23 3/8
6 3/4 R

Reticle plot
dial off
and Back

•
NO

✓perfect
okay
Junk
shot 6 more
after dial
TEST
NO MOVE!

New Kables 10-50 x 56 "SN 5927" Tod (2)

Reticle plot alt. Powers	50x	45x	40x	35x	30x	✓ perfect okay Junk
	□	□	□	□	□	

Reticle plot Recoil #	0	1	2	3	4	✓ perfect okay Junk
	□	□	□	□	□	
	5	6	7	8	9	
	□	□	□	□	□	
	NO	NO	NO	NO	NO	
	10	11	12	13	14	
	□	□	□	□	□	
	NO	NO	NO	NO	NO	

23^{7/8}
6 1/8 R Reticle after dial off (P) ✓ perfect okay Junk shot 5 more after dial test NO MOVE!

New Kables 10-50 x 56 "SN 5928" TOM

Ret plot alt Powers	50x	45x	40x	35x	30x	✓ perfect okay Junk
	□	□	□	□	□	

Ret. Plot Recoil #	0	1	2	3	4	✓ perfect okay Junk
	□	□	□	□	□	
	5	6	7	8	9	
	□	□	□	□	□	
	NO	NO	NO	NO	NO	
	10	11	12	13	14	
	□	□	□	□	□	
	NO	NO	NO	NO	NO	

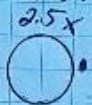
26^{1/4}
10.0 R Ret. after dial off (P) and Back ✓ perfect okay Junk shot 5 more after dial test NO MOVE!

MARCH 2.5-25 x52

"X343"

Alex

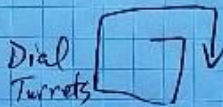
Reticule Plot
D.R. Powers



perfect (0)
okay (1/8-)
Junk (1/8+)

	(start)	1	2	3	4	
Reticule Plot						
Recoil #		NO	NO	NO	NO	✓ perfect
@ 25x						
	5	6	7	8	9	okay
	NO	NO	NO	NO	NO	Junk
	10	11	12	13	14	
	NO	NO	NO	NO	NO	

Settings Before



Return to zero test

silver 24 1/2 up
Silver L 3 1/2



1/8+ up + right

perfect
okay
Junk

	(start)	1	2	3	
Reticule Plot					
Recoil #		NO	NO	NO	✓ perfect
(#2)					
	4	5	6	7	okay
	NO	NO	NO	NO	Junk
	8	9	10	11	
	NO	NO	NO	NO	

March 5-50X56 Sn #011 Dan

	50X	45X	40X	35X	30X	perfect (0)
Reticle Plot						okay (1/8)
diff. Powers						✓ Junk (1/8)
Test						

	(start)	1	2	3	4	
Reticle plot						✓ perfect okay (settle)
Recoil #	5	6 ← 1/8	7 ↑ 1/64	8 NO	9 NO	
Test						
@ 50X	← 1/64	NO	→ 1/64	NO	NO	
	10	11	12	13	14	
	NO	NO	NO	NO	NO	

2 1/4 up						
7 0 Right	Dial turrets		Before	After		✓ perfect
	Return to Zero test					okay (1/8)
				NO		junk (1/8)

	(start)	1	2	3	4	
Reticle plot						✓ perfect okay (settle)
Recoil #	5	6 NO	7 NO	8 NO	9 NO	
post	NO	NO	NO	NO	NO	
Return	10	11	12	13	14	
Test						
	NO	NO	NO	NO	NO	

Kahles 6-24x56 SN 9543 Tom

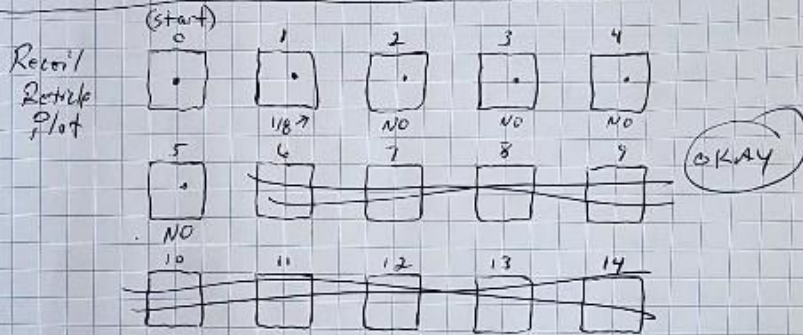
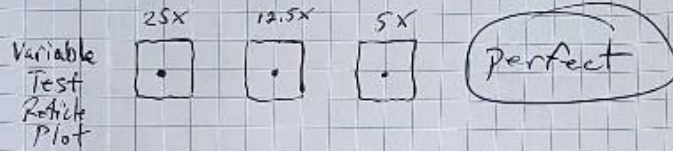
Reticle plot d.f. Power Test	24x	20x	16x	12x	8x	6x	perfect okay junk

	(start) 0	1	2	3	4	perfect okay junk
Reticle plot						
Recall#		NO	NO	NO	NO	
Test	5	6	7	8	9	
	NO	NO	NO	NO	NO	
	10	11	12	13	14	
	NO	NO	NO	NO	NO	

170up 1.0L Dial Turrets	Before	After	perfect okay junk
Return to zero Test		NO	

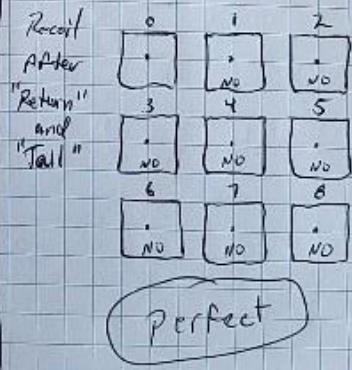
	(start) 0	1	2	3	4	perfect okay junk
Recall test after dial Test						
		NO	NO	NO	NO	
	5	6	7	8	9	
	NO	NO	NO	NO	NO	
	10	11	12	13	14	
	NO	NO	NO	NO	NO	

NF 5-25 ATACR



Ref scope 9 1/2	setting	inches 50
Correction Factor	0 max	10" 10"
Testing	10	15 1/16
"Tall Target"	20	20 1/8
	30	25 3/16
	40	30 1/4
	50	35 5/16
	60	40 3/8
	70	45 7/16
	80	
	90	
	100	

perfect



Kahles 6-24x56 SN 9543 (Tom)

Ret scope 10 3/32"

Tall Target Testing

Settings	MOA	=	inches @ 50 yds
75 3/4	0	=	10" Back to 0 = 10"
25 3/4	10	=	10 15 1/8
35 3/4	20	=	20 1/4
45 3/4	30	=	25 3/8
55 3/4	40	=	30 1/2
65 3/4	50	=	35 5/8
75 3/4	60	=	40 3/4
85 3/4	70	=	45 7/8
95 3/4	80	=	50 1/8
96		=	
100		=	

equal entire Travel
Return perfect

more Recoil
Testing
After
"Tall" test

0	1	2	3	4
NO	NO	NO	NO	NO
5	6	7	8	8
NO	NO	NO	NO	NO

perfect
AGAIN

March 25-25 x 52 (Alex)
Re-Test

Return to
Zero
Testing
0 el
L 2 1/2"



perfect

Tall Target Testing



9.5" Ref scope
50 yds

MDA	=	inches	
0	=	10"	} fairly equal
10	=	15 5/16"	
20	=	20 1/16"	
30	=	25 1/16"	} less
40	=	31 1/8"	
50	=	36 1/8"	

resolution poor as dictated
further from center

Recoil Testing

After
"return" & "Tall"



NO

NO

NO

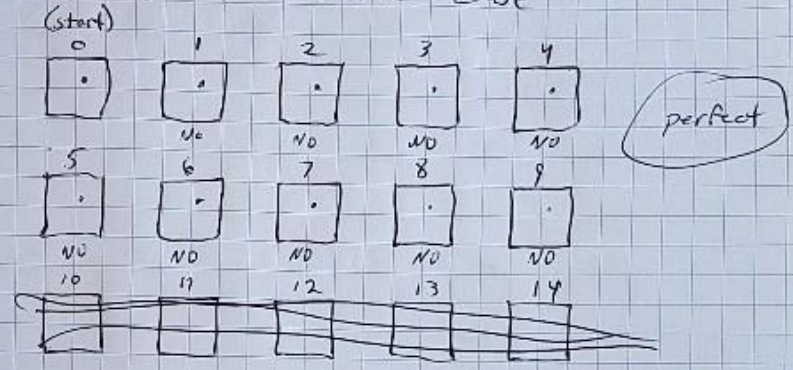
NO

NO

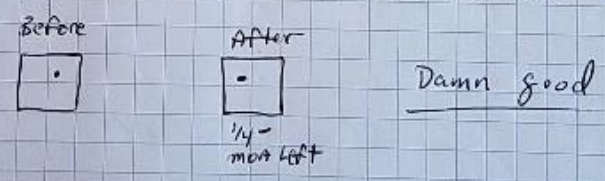
okay

Recoil POA Testing with Known Perfect ~~4624~~

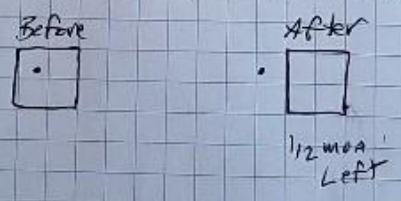
Travis' Pic to Pic Base



Remove Base from Base + re-install test



Remove Base + scope + re-install



Base does better than Rings
only

Leica 4-20x50 ER5 (Tom)

50 yards

Variable Test

20x	16x	12x	8x	5x
•	•	•	•	

1/2 moa +
JUNK

Recoil Test

50 yards

0	1	2	3	4
•	•	•	•	•
5	6	7	8	9
NO	NO	NO	NO	NO
10	11	12	13	14

OKAY

50 yds
Return to Zero Test
-0-
-0-

Before



AFTER

→ 1/16"

50 yds
Full Target Test

10" Ref Scope

MOA	=	inches @ 100	50
0	=	10"	(5 1/4)
10	=	15 1/4"	(5 3/8)
20	=	20 1/16"	(5 1/8)
30	=	25 5/8"	

10
50 =

OKAY

Returned to zero perfect

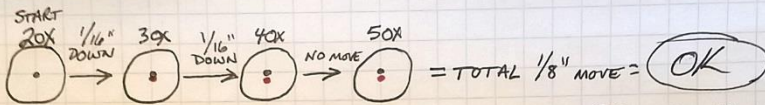
50 yards
Recoil Test after Dial Testing

0	1	2	3
•	•	•	•
4	5	6	7
NO	NO	NO	NO

perfect

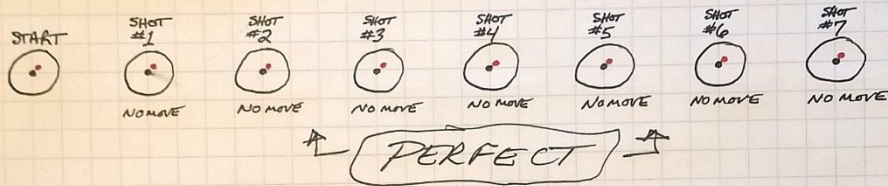
DELTA STRYKER HD 5-50x56 - 50 YARDS
(.1 MIL TURRETS) * MADE IN JAPAN

MAG. ZOOM CHECK

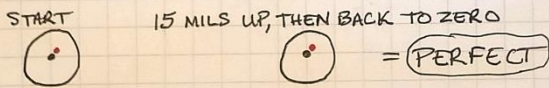


* GOOD FOR 10X MAG RANGE.

RETICLE RECOIL TEST



TURRET REPEATABILITY TEST

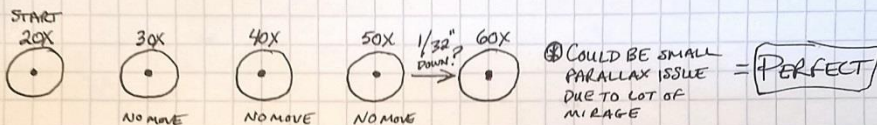


RECOIL TEST AFTER DIALING TURRET



BARRA HERO 12-60x56 (★) MADE IN JAPAN
(1/10 MOA TURRETS)

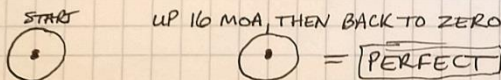
MAG. ZOOM CHECK



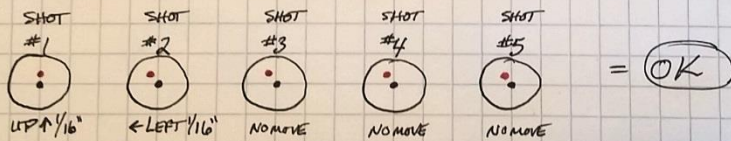
RETICLE RECOIL TEST



TURRET REPEATABILITY TEST



RECOIL TEST AFTER DIALING TURRET



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