Greenville County

Department of Public Safety

Captain Jackie F. Kellett
Manager, Forensic Division
jkellett@greenvillecounty.org
(864) 467-5398
www.greenvillecounty.org

November, 8, 2011

Noel Lasure
Vice President of Marketing & Product Development
Teludyne Tech Industries
1018 S. Batesville Road
Greer, SC 29650

Dear Mr. Lasure:

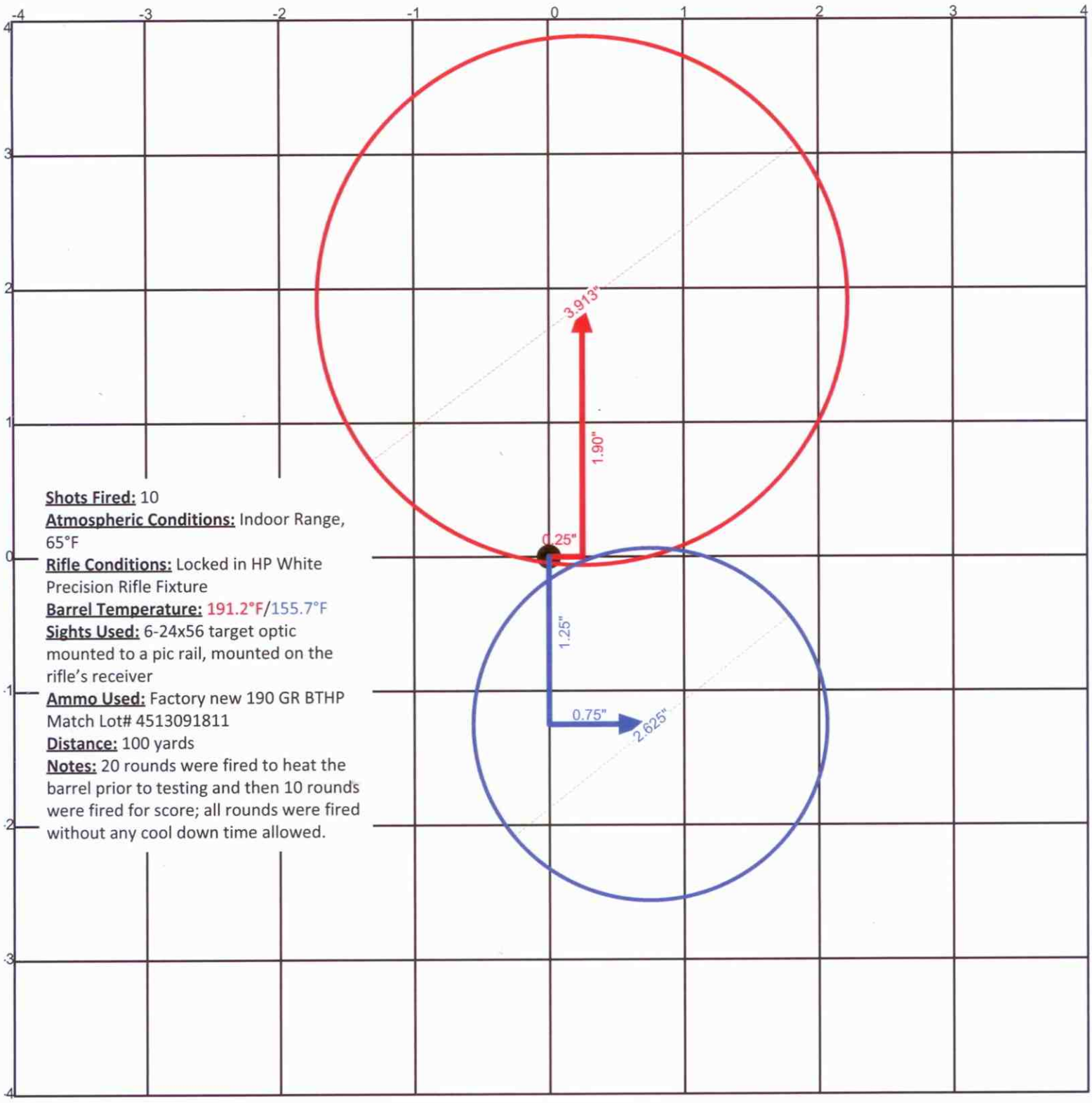
This examiner was asked to test fire a Remington model 700 rifle with serial number G7058478 in caliber 300 Winchester Magnum during the week of September 26, 2011. These test shots were preformed prior to Teludyne Tech Industries doing any work on the rifle. The test shots were obtained by use of a Water Recovery Tank. The fired bullet specimens were placed in a bag and stored in a secure location by this examiner in order to compare them at a later date to test shots from the post-jacketed barrel. The post-jacketed rifle was test fired on November 1, 2011 and test fired bullet specimens were obtained. The pre-jacketed fired bullet specimens were then microscopically compared against the post-jacketed fired bullet specimens. The result of these comparisons is that the pre-jacketed fired bullet specimens were fired from the same barrel as the post-jacketed fired bullet specimens. It is the opinion of this examiner that the barrel of the Remington model 700 rifle with serial number G7058478 in caliber 300 Winchester Magnum has not been altered or changed by the installation of the StraightJacket® Barrel System.

Sincerely,

James W. Armstrong
Firearms Examiner
Greenville Crime Lab
4 McGee Street
Greenville, SC 29601
(864) 467-5178

HP White Test Cycle - HPWLI 11988-01A-1

Sustained Fire Test



Shots Fired: 10
Atmospheric Conditions: Indoor Range, 65°F
Rifle Conditions: Locked in HP White Precision Rifle Fixture
Barrel Temperature: 191.2°F/155.7°F
Sights Used: 6-24x56 target optic mounted to a pic rail, mounted on the rifle's receiver
Ammo Used: Factory new 190 GR BTHP Match Lot# 4513091811
Distance: 100 yards
Notes: 20 rounds were fired to heat the barrel prior to testing and then 10 rounds were fired for score; all rounds were fired without any cool down time allowed.

Legend

Point of Aim (POA)

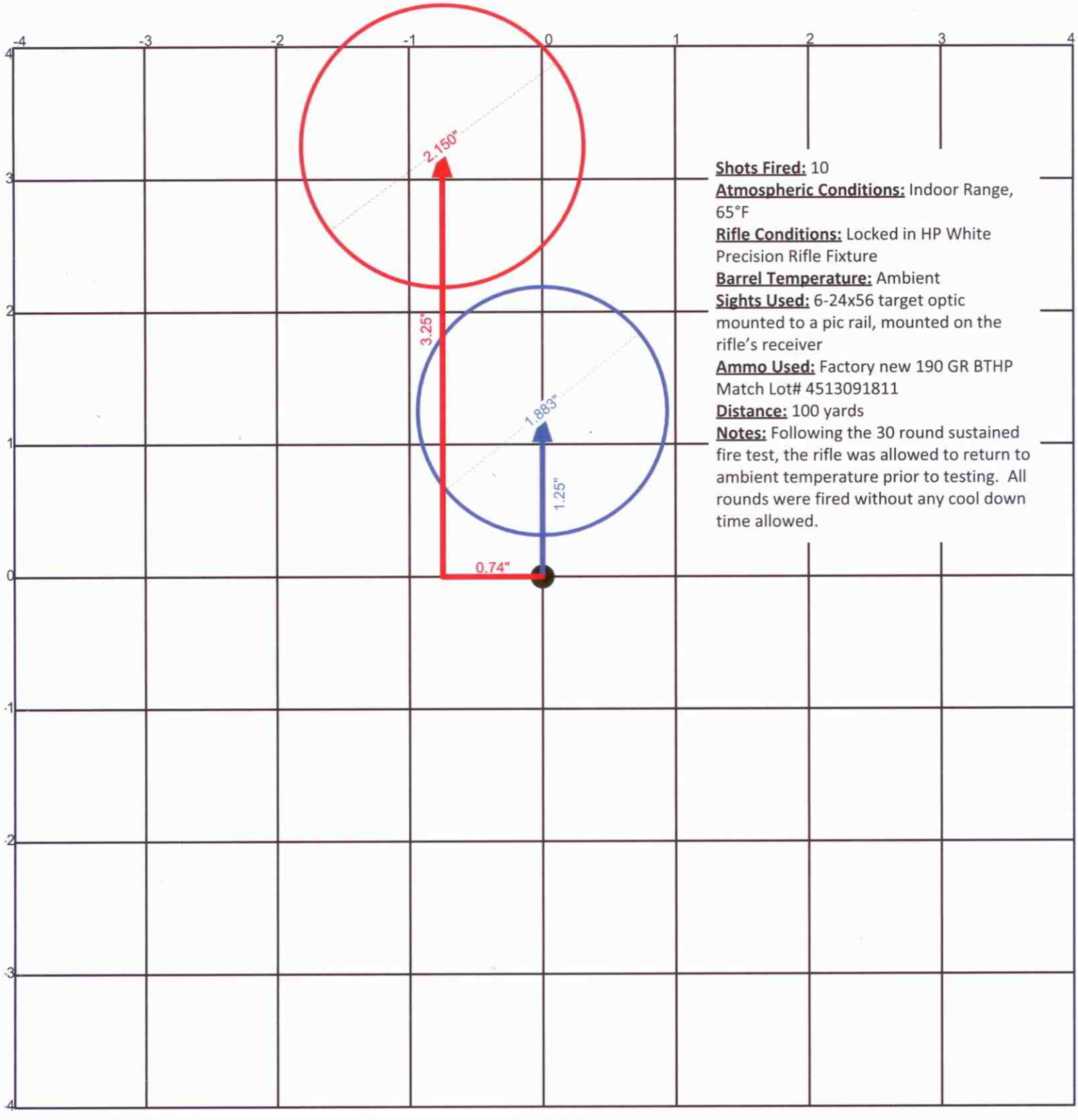
Test Rifle TTI-BR-01X

Remington M700, S/N G7058478, .300 Win Mag without StraightJacket® Barrel System

Remington M700, S/N G7058478, .300 Win Mag with StraightJacket® Barrel System

HP White Test Cycle - HPWLI 11988-01A-2

Sustained Fire Test



Shots Fired: 10
Atmospheric Conditions: Indoor Range, 65°F
Rifle Conditions: Locked in HP White Precision Rifle Fixture
Barrel Temperature: Ambient
Sights Used: 6-24x56 target optic mounted to a pic rail, mounted on the rifle's receiver
Ammo Used: Factory new 190 GR BTHP Match Lot# 4513091811
Distance: 100 yards
Notes: Following the 30 round sustained fire test, the rifle was allowed to return to ambient temperature prior to testing. All rounds were fired without any cool down time allowed.

Legend

Point of Aim (POA)

Test Rifle TTI-BR-01X

Remington M700, S/N G7058478, .300 Win Mag without StraightJacket® Barrel System

Remington M700, S/N G7058478, .300 Win Mag with StraightJacket® Barrel System

H.P. WHITE LABORATORY, INC.
3114 Scarboro Road
Street, Maryland 21154-1822
Telephone: (410) 838-6550
Facsimile: (410) 838-2802
Email: info@hpwhite.com
www.hpwhite.com

17 November 2011
(HPWLI 11988-01A)
(Revised 30 November 2011)

Teludyne Tech
1018 S. Batesville Road 3-D
Greer, SC 29650

Attention: Noel Lasure

In accordance with your instructions, H.P. White Laboratory, Inc. conducted Velocity and Dispersion Testing of one Remington Model 700, chambered in .300 Winchester Magnum, identified as S/N: G7058478 received 17 October 2011 via Federal Express.

Testing was conducted using caliber .300 Win. Mag., Black Hills, 190 gr. Boat-Tail Hollow Point, Lot 4513091811. The test sample was fixtured on an indoor range using a universal firearms mounting system. Photoelectric infrared screens were positioned at 5.0 and 25.0 feet which, in conjunction with dual elapsed time counters (chronographs), were used to compute projectile velocities 15.0 feet forward of the muzzle. Dispersion target was fixtured 100 yards from muzzle. Sighting optics mounted on the firearm was used to determine point of aim. To achieve warm conditions; 20 rounds were fired within a three minute timeframe. Warm testing was performed immediately following this procedure. Table I presents a summary of the enclosed data records.

Testing was conducted on 17 October 2011 with the firearm in its original configuration. On 2 November 2011 testing was conducted with the Teludyne Tech. Straight Jacket System installed. James W Armstrong, Firearms Examiner for Greenville County Crime Lab performed a bullet comparison on a single round fired 26 September 2011 with the firearm in its pre-jacketed state. On 1 November 2011 another single round was fired with the Straight Jacket system installed on the firearm. It was determined that the pre-jacketed bullet and the post-jacketed bullet were fired from the same barrel.

This report is based on data obtained from having tested only the sample submitted, and should NOT be interpreted as an endorsement by H.P. White Laboratory, Inc. of the continuing quality, or performance, of any other items of the same, or similar, design.

The test sample was returned into the custody of your on-site representative. Should you have any questions regarding this matter, or if we may be of any further service, please do not hesitate to contact us.

Sincerely,

H.P. White Laboratory, Inc.

Kevin Black

KB/sh
Enclosures

H.P. WHITE LABORATORY, INC.
3114 Scarboro Road
Street, Maryland 21154-1822
Telephone: (410) 838-6550
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TABLE I. SUMMARY OF RESULTS

Condition	Bullet	Shots	Velocity (fps)		Barrel Temperature (d)	Dispersion At 100 Yards	Aim vs. Impact
			Mean	Extreme Variation			
Ambient	190gr. BTHP	10	2998	61	N/A	2.150"	3.25" High 0.74" Left
Warm(b)	190gr. BTHP	10	3013	57	Int: 191.2 F Ext: 176.0 F	3.913"	1.90" High 0.25" Right
Ambient (a)	190gr. BTHP	10	2960	55	N/A	1.883"	1.25" High
Warm (a)(c)	190gr. BTHP	10	2965	47	Int: 155.7 F Ext: 142.1 F	2.625"	1.25" Low 0.75" Right

(a) With Straight Jacket System
(b) Group shift from ambient temperature to warm temperature: 1.90" low, 1.00" Right
(c) Group shift from ambient temperature to warm temperature: 0.74" Left
(d) Temperature taken 8" forward of chamber

H.P. White Laboratory, Inc.
VELOCITY DATA

Customer : Teludyne

Job No. : 11988-01 Test Date : 10/17/11

AMMUNITION

Manufacturer : BLACK HILLS
Type : .300 WIN MAG.
Bullet : BOAT-TAIL HP
Catalog No. : UNKNOWN
Lot No. : 4513091811

Case : .300 WIN MAG.
Primer : UNKNOWN
Bullet Wt.(gr.) : 190
Powder : UNKNOWN
Overall Length (in.) : 3.309

Conditioning : AMBIENT
Loader : UNKNOWN
Date Rec'd : 10/17/11
Via : HAND CARRIED
Returned : REMINGTON MODEL

WEAPON

Type : G7058478
Ser. No.:

Barrel Length (in.) :
Reference Firing Date :

Velocity Correction (fps) :

SET-UP

Vel. Screen 1 : 5
Vel. Screen 2 : 25

Range No.: 6
Gunner : BLACK
Recorder : UNGER

Temperature (F): 65
Barometer (in Hg): 29.89
Rel. Humidity (%): 40

Shot No.	Time 1 (usec)	Velocity 1 (fps)	Time 2 (usec)	Velocity 2 (fps)	Average Velocity (fps)	Corrected Velocity (fps)	Include in Results	Remarks
1	6710	2981	6710	2981	2981	2981	Y	
2	6613	3024	6613	3024	3024	3024	Y	
3	6601	3030	6601	3030	3030	3030	Y	
4	6698	2986	6698	2986	2986	2986	Y	
5	6736	2969	6736	2969	2969	2969	Y	
6	6644	3010	6644	3010	3010	3010	Y	
7	6675	2996	6675	2996	2996	2996	Y	
8	6715	2978	6715	2978	2978	2978	Y	
9	6671	2998	6671	2998	2998	2998	Y	
10	6654	3006	6654	3006	3006	3006	Y	
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RESULTS	Measured	SAAMI Reqmt.
No. Data Points :	10	
Maximum :	3030	
Minimum :	2969	
Extreme Variation :	61	
Average :	**2998**	
Standard Deviation :	18.93	
Avg.+3 Std. Dev.:	3055	
Standard Error :	5.99	
Avg. + 2SE :	3010	
Avg. + 5SE :	3028	

REMARKS

POST 20 ROUNDS FIRED WITHIN 3 MINUTES
BARREL RETURNED TO AMBIENT TEMPERATURE.
100 YARD DISPERSION (10 ROUND GROUP): 2.150"
POINT OF AIM VS. POINT OF IMPACT: 3.25" HIGH, 0.74" LEFT

H.P. White Laboratory, Inc.
VELOCITY DATA

Customer : Teludyne

Job No. : 11988-01 Test Date : 10/17/11

AMMUNITION

Manufacturer : BLACK HILLS
Type : .300 WIN MAG.
Bullet : BOAT-TAIL HP
Catalog No. : UNKNOWN
Lot No. : 4513091811

Case : .300 WIN MAG.
Primer : UNKNOWN
Bullet Wt.(gr.) : 190
Powder : UNKNOWN
Overall Length (in.) : 3.309

Conditioning : AMBIENT
Loader : UNKNOWN
Date Rec'd : 10/17/11
Via : HAND CARRIED
Returned : REMINGTON MODEL

WEAPON

Type : G7058478
Ser. No.:

Barrel Length (in.) :
Reference Firing Date :

Velocity Correction (fps) :

SET-UP

Vel. Screen 1 : 5
Vel. Screen 2 : 25

Range No.: 6
Gunner : BLACK
Recorder : UNGER

Temperature (F): 65
Barometer (in Hg): 29.89
Rel. Humidity (%): 40

Shot No.	Time 1 (usec)	Velocity 1 (fps)	Time 2 (usec)	Velocity 2 (fps)	Average Velocity (fps)	Corrected Velocity (fps)	Include in Results	Remarks
1	6636	3014	6636	3014	3014	3014	Y	
2	6618	3022	6618	3022	3022	3022	Y	
3	6668	2999	6668	2999	2999	2999	Y	
4	6669	2999	6663	3002	3000	3000	Y	
5	6663	3002	6663	3002	3002	3002	Y	
6	6574	3042	6574	3042	3042	3042	Y	
7	6626	3018	6626	3018	3018	3018	Y	
8	6672	2998	6672	2998	2998	2998	Y	
9	6569	3045	6569	3045	3045	3045	Y	
10	6695	2987	6695	2987	2987	2987	Y	
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RESULTS	Measured	SAAMI Reqmt.
No. Data Points :	10	
Maximum :	3045	
Minimum :	2987	
Extreme Variation :	57	
Average :	**3013**	
Standard Deviation :	18.28	
Avg.+3 Std. Dev.:	3068	
Standard Error :	5.78	
Avg. + 2SE :	3024	
Avg. + 5SE :	3042	

REMARKS

POST 20 ROUNDS FIRED WITHIN 3 MINUTES
INTERNAL BARREL TEMPERATURE 8" FROM CHAMBER: 191.2 F
EXTERNAL BARREL TEMPERATURE 8" FROM CHAMBER: 176.0 F
100 YARD DISPERSION (10 ROUND GROUP): 3.913"
POINT OF AIM VS. POINT OF IMPACT: 1.35" HIGH, 0.25" RIGHT
GROUP SHIFT FROM AMBIENT TO WARM: 1.90" LOW, 1.00" RIGHT

H.P. White Laboratory, Inc.
VELOCITY DATA

Customer : TELUDYNE

Job No. : 11988-01 Test Date : 11/2/11

AMMUNITION

Manufacturer : BLACK HILLS
Type : 300 WIN MAG
Bullet : BOAT-TAIL HP
Catalog No. :
Lot No. : 4513091811

Case : 300 WIN MAG
Primer : UNKNOWN
Bullet Wt.(gr.) : 190
Powder : UNKNOWN
Overall Length (in.) : 3.309

Conditioning : AMBIENT
Loader : UNKNOWN
Date Rec'd : 11/2/11
Via : HAND CARRIED
Returned : REMINGTON 300 WIN

WEAPON

Type : G7058478
Ser. No.:

Barrel Length (in.) :
Reference Firing Date :

Velocity Correction (fps) :

SET-UP

Vel. Screen 1 : 5
Vel. Screen 2 : 25

Range No.: 6
Gunner : BLACK
Recorder : BLACK

Temperature (F): 70
Barometer (in Hg): 29.56
Rel. Humidity (%): 34

Shot No.	Time 1 (usec)	Velocity 1 (fps)	Time 2 (usec)	Velocity 2 (fps)	Average Velocity (fps)	Corrected Velocity (fps)	Include in Results	Remarks
1	6690	2990	6686	2991	2990	2990	Y	
2	6675	2996	6681	2994	2995	2995	Y	
3	6757	2960	6767	2956	2958	2958	Y	
4	6760	2959	6767	2956	2957	2957	Y	
5	6769	2955	6776	2952	2953	2953	Y	
6	6767	2956	6776	2952	2954	2954	Y	
7	6745	2965	6749	2963	2964	2964	Y	
8	6704	2983	6713	2979	2981	2981	Y	
9	6782	2949	6789	2946	2947	2947	Y	
10	6779	2950	6785	2948	2949	2949	Y	
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RESULTS	Measured	SAAMI Reqmt.
No. Data Points :	10	
Maximum :	2995	
Minimum :	2947	
Extreme Variation :	47	
Average :	**2965**	
Standard Deviation :	16.61	
Avg.+3 Std. Dev.:	3015	
Standard Error :	5.25	
Avg. + 2SE :	2975	
Avg. + 5SE :	2991	

REMARKS

WITH STRAIGHT JACKET SYSTEM
POST 20 ROUNDS FIRED WITHIN 3 MINUTES
INTERNAL BARREL TEMPERATURE 8" FROM CHAMBER: 155.7 F
EXTERNAL BARREL TEMPERATURE 8" FROM CHAMBER: 142.1 F
100 YARD DISPERSION (10 SHOT GROUP): 2.625"
POINT OF AIM VS. POINT OF IMPACT: 1.25" LOW, 0.75" LEFT
GROUP SHIFT FROM AMBIENT TO WARM: 0.74" LEFT

Filename: TELUDYNE POST 20 ROUND GROUP (WARM).xls

H.P. White Laboratory, Inc.
VELOCITY DATA

Customer : TELUDYNE

Job No. : 11988-01 Test Date : 11/2/11

AMMUNITION

Manufacturer : BLACK HILLS
Type : 300 WIN MAG
Bullet : BOAT-TAIL HP
Catalog No. :
Lot No. : 4513091811

Case : 300 WIN MAG
Primer : UNKNOWN
Bullet Wt.(gr.) : 190
Powder : UNKNOWN
Overall Length (in.) : 3.309

Conditioning : AMBIENT
Loader : UNKNOWN
Date Rec'd : 11/2/11
Via : HAND CARRIED
Returned : REMINGTON 300 WIN

WEAPON

Type : G7058478
Ser. No.:

Barrel Length (in.) :
Reference Firing Date :

Velocity Correction (fps) :

SET-UP

Vel. Screen 1 : 5
Vel. Screen 2 : 25

Range No.: 6
Gunner : BLACK
Recorder : BLACK

Temperature (F): 70
Barometer (in Hg): 29.56
Rel. Humidity (%): 34

Shot No.	Time 1 (usec)	Velocity 1 (fps)	Time 2 (usec)	Velocity 2 (fps)	Average Velocity (fps)	Corrected Velocity (fps)	Include in Results	Remarks
1	6818	2933	6816	2934	2934	2934	Y	
2	6745	2965	6753	2962	2963	2963	Y	
3	6795	2943	6803	2940	2942	2942	Y	
4	6725	2974	6731	2971	2973	2973	Y	
5	6741	2967	6749	2963	2965	2965	Y	
6	6829	2929	6839	2924	2927	2927	Y	
7	6723	2975	6726	2974	2974	2974	Y	
8	6726	2974	6735	2970	2972	2972	Y	
9	6702	2984	6713	2979	2982	2982	Y	
10	6736	2969	6744	2966	2967	2967	Y	
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RESULTS	Measured	SAAMI Reqmt.
No. Data Points :	10	
Maximum :	2982	
Minimum :	2927	
Extreme Variation :	55	
Average	**2960**	
Standard Deviation :	17.89	
Avg. +3 Std. Dev.:	3013	
Standard Error :	5.66	
Avg. + 2SE :	2971	
Avg. + 5SE :	2988	

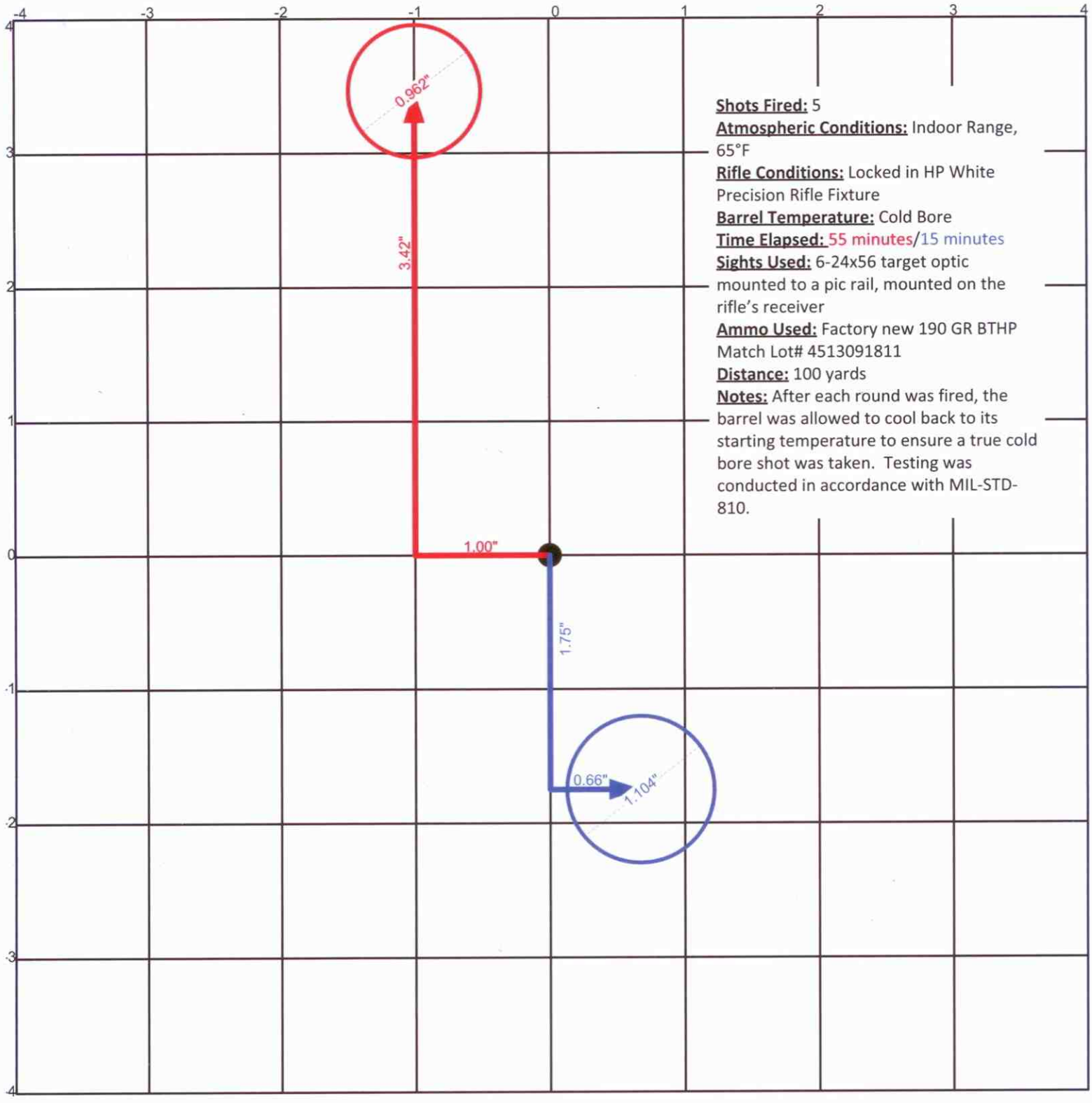
REMARKS

WITH STRAIGHT JACKET SYSTEM
POST 20 ROUNDS FIRED WITHIN 3 MINUTES
BARREL RETURNED TO AMBIENT TEMPERATURE.
100 YARD DISPERSION (10 SHOT GROUP): 1.883"
POINT OF AIM VS. POINT OF IMPACT: 1.25" HIGH.

Filename: TELUDYNE POST 20 SHOT AMBIENT.xls

HP White Test Cycle - HPWLI 11988-01B-1

MIL-SPEC Extreme Temperature Test



Shots Fired: 5
Atmospheric Conditions: Indoor Range, 65°F
Rifle Conditions: Locked in HP White Precision Rifle Fixture
Barrel Temperature: Cold Bore
Time Elapsed: 55 minutes/15 minutes
Sights Used: 6-24x56 target optic mounted to a pic rail, mounted on the rifle's receiver
Ammo Used: Factory new 190 GR BTHP Match Lot# 4513091811
Distance: 100 yards
Notes: After each round was fired, the barrel was allowed to cool back to its starting temperature to ensure a true cold bore shot was taken. Testing was conducted in accordance with MIL-STD-810.

Legend

Point of Aim (POA)

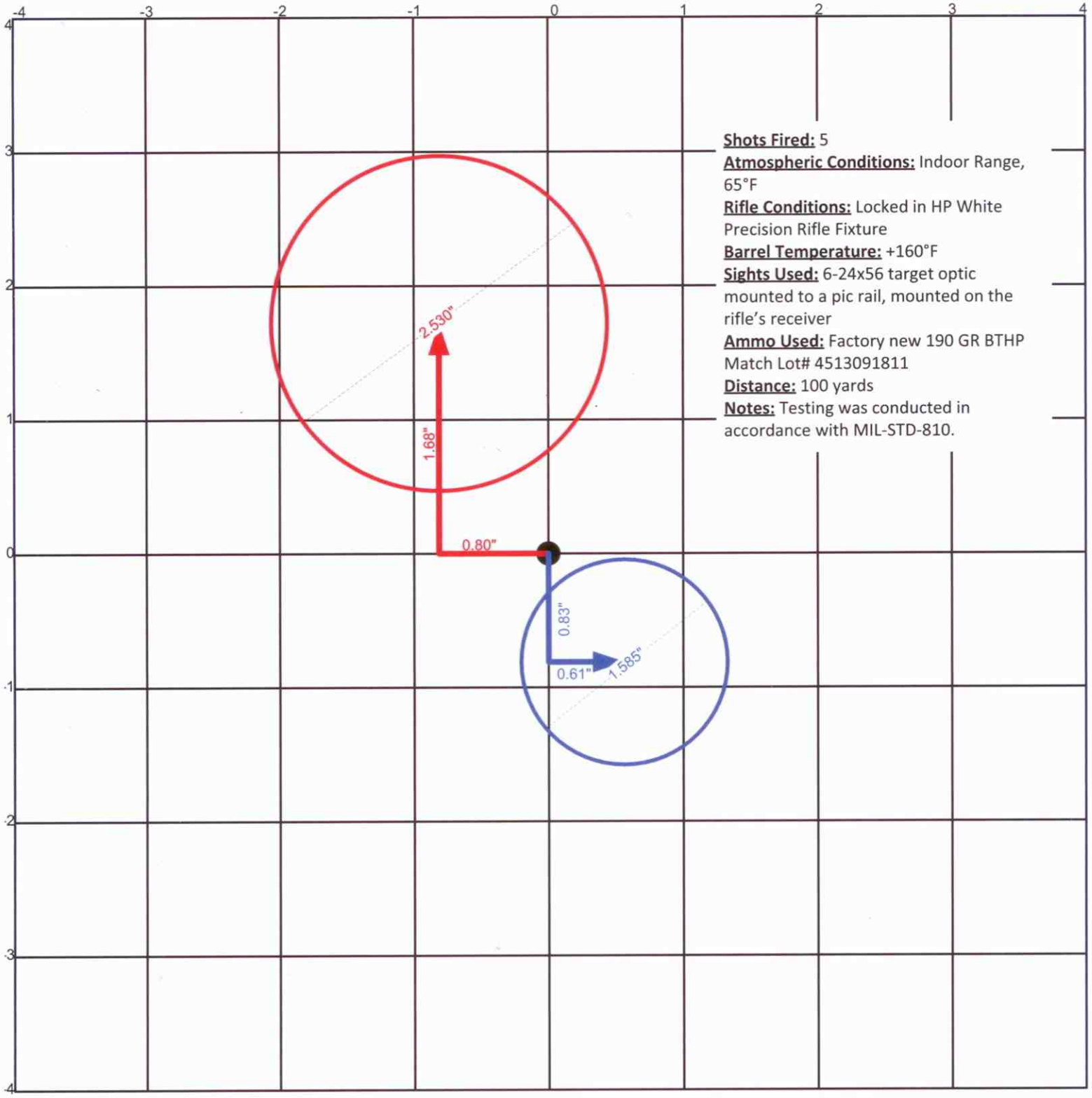
Test Rifle TTI-BR-01X

Remington M700, S/N G7058478, .300 Win Mag without StraightJacket® Barrel System

Remington M700, S/N G7058478, .300 Win Mag with StraightJacket® Barrel System

HP White Test Cycle - HPWLI 11988-01B-2

MIL-SPEC Extreme Temperature Test



Shots Fired: 5
Atmospheric Conditions: Indoor Range, 65°F
Rifle Conditions: Locked in HP White Precision Rifle Fixture
Barrel Temperature: +160°F
Sights Used: 6-24x56 target optic mounted to a pic rail, mounted on the rifle's receiver
Ammo Used: Factory new 190 GR BTHP Match Lot# 4513091811
Distance: 100 yards
Notes: Testing was conducted in accordance with MIL-STD-810.

Legend

Point of Aim (POA)

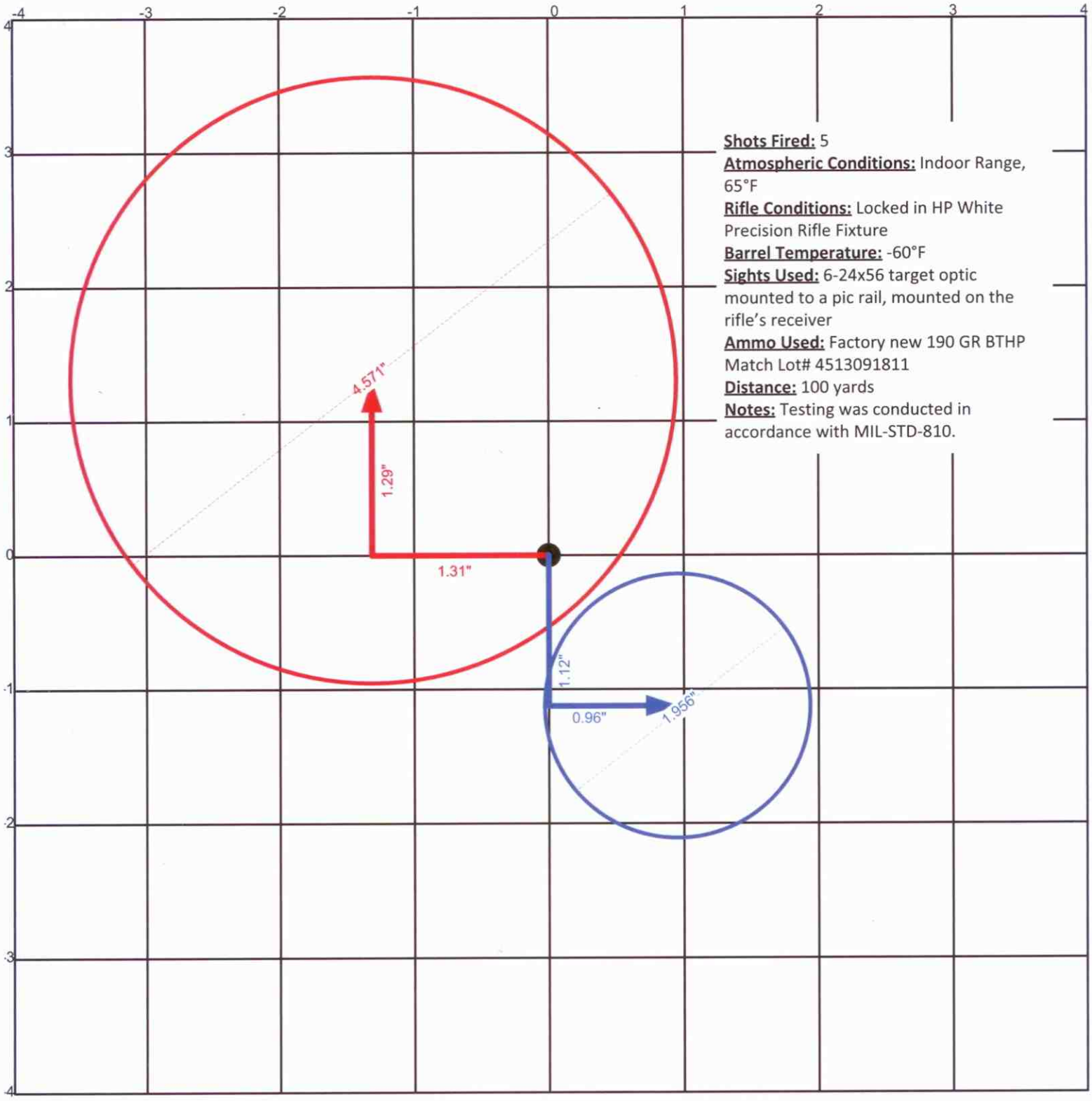
Test Rifle TTI-BR-01X

Remington M700, S/N G7058478, .300 Win Mag without StraightJacket® Barrel System

Remington M700, S/N G7058478, .300 Win Mag with StraightJacket® Barrel System

HP White Test Cycle - HPWLI 11988-01B-3

MIL-SPEC Extreme Temperature Test



Shots Fired: 5
Atmospheric Conditions: Indoor Range, 65°F
Rifle Conditions: Locked in HP White Precision Rifle Fixture
Barrel Temperature: -60°F
Sights Used: 6-24x56 target optic mounted to a pic rail, mounted on the rifle's receiver
Ammo Used: Factory new 190 GR BTHP Match Lot# 4513091811
Distance: 100 yards
Notes: Testing was conducted in accordance with MIL-STD-810.

Legend

Point of Aim (POA)

Test Rifle TTI-BR-01X

Remington M700, S/N G7058478, .300 Win Mag without StraightJacket® Barrel System

Remington M700, S/N G7058478, .300 Win Mag with StraightJacket® Barrel System

H.P. WHITE LABORATORY, INC.
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17 November 2011
(HPWLI 11988-01B)

Teludyne Tech
1018 S. Batesville Road 3-D
Greer, SC 29650

Attention: Noel Lasure

In accordance with your instructions, H.P. White Laboratory, Inc. conducted Velocity and Dispersion Testing of one Remington Model 700, chambered in .300 Winchester Magnum, identified as S/N: G7058478 received 17 October 2011 via Federal Express.

Testing was conducted using caliber .300 Win. Mag., Black Hills, 190 gr. Boat-Tail Hollow Point, Lot 4513091811. The test sample was fixtured on an indoor range using a universal firearms mounting system. Photoelectric infrared screens were positioned at 5.0 and 25.0 feet which, in conjunction with dual elapsed time counters (chronographs), were used to compute projectile velocities 15.0 feet forward of the muzzle. Dispersion target was fixtured 100 yards from muzzle. Sighting optics mounted on the firearm was used to determine point of aim. Temperature conditions; were achieved by placing the entire firearm in thermal conditioning chambers. Once the internal barrel temperature reached the desired condition, the firearm was removed from the chamber and tested immediately. Table I presents a summary of the enclosed data records.

Testing was conducted on 17 October 2011 with the firearm in its original configuration. On 2 November 2011 testing was conducted with the Teludyne Tech. Straight Jacket System installed. James W Armstrong, Firearms Examiner for Greenville County Crime Lab performed a bullet comparison on a single round fired 26 September 2011 with the firearm in its pre-jacketed state. On 1 November 2011 another single round was fired with the Straight Jacket system installed on the firearm. It was determined that the pre-jacketed bullet and the post-jacketed bullet were fired from the same barrel.

This report is based on data obtained from having tested only the sample submitted, and should NOT be interpreted as an endorsement by H.P. White Laboratory, Inc. of the continuing quality, or performance, of any other items of the same, or similar, design.

The test sample was returned into the custody of your on-site representative. Should you have any questions regarding this matter, or if we may be of any further service, please do not hesitate to contact us.

Sincerely,

H.P. White Laboratory, Inc.

Kevin Black

KB/sh
Enclosures

H.P. WHITE LABORATORY, INC.
3114 Scarboro Road
Street, Maryland 21154-1822
Telephone: (410) 838-6550
Facsimile: (410) 838-2802
Email: info@hpwhite.com
www.hpwhite.com

TABLE I. SUMMARY OF RESULTS

Condition	Bullet	Shots	Velocity (fps)		Dispersion At 100 Yards	Aim vs. Impact
			Mean	Extreme Variation		
-60 F	190gr. BTHP	5	2997	41	4.571"	1.29" High 1.31" Left
+160 F	190gr. BTHP	5	3035	48	2.530"	1.68" High 0.80" Left
COLD BORE (b)(d)	190gr. BTHP	5	3004	58	0.962"	3.42" High 1.00" Left
-60 F (a)	190gr. BTHP	5	2954	43	1.956"	1.12" Low 0.96" Right
+160 F (a)	190gr. BTHP	5	3002	84	1.585"	0.83" Low 0.61" Right
COLD BORE (a)(c)(d)	190gr. BTHP	5	2950	33	1.104"	1.75" Low 0.66" Right

(a) With Straight Jacket System
(b) Test Duration 55 Minutes
(c) Test Duration 15 Minutes
(d) Barrel returned to ambient temperature between shots.

H.P. White Laboratory, Inc.

VELOCITY DATA

Customer : TELUDYNE

Job No. : 11988-01 Test Date : 11/2/11

AMMUNITION

Manufacturer : BLACK HILLS
Type : 300 WIN MAG
Bullet : BOAT-TAIL HP
Catalog No. :
Lot No. : 4513091811

Case : 300 WIN MAG
Primer : UNKNOWN
Bullet Wt.(gr.) : 190
Powder : UNKNOWN
Overall Length (in.) : 3.309

Conditioning : AMBIENT
Loader : UNKNOWN
Date Rec'd : 11/2/11
Via : HAND CARRIED
Returned : REMINGTON 300 WIN

WEAPON

Type : G7058478
Ser. No.:

Barrel Length (in.) :
Reference Firing Date :

Velocity Correction (fps) :

SET-UP

Vel. Screen 1 : 5
Vel. Screen 2 : 25

Range No.: 6
Gunner : BLACK
Recorder : BLACK

Temperature (F): 70
Barometer (in Hg): 29.56
Rel. Humidity (%): 34

Shot No.	Time 1 (usec)	Velocity 1 (fps)	Time 2 (usec)	Velocity 2 (fps)	Average Velocity (fps)	Corrected Velocity (fps)	Include in Results	Remarks
1	6772	2953	6778	2951	2952	2952	Y	
2	6702	2984	6706	2982	2983	2983	Y	
3	6790	2946	6794	2944	2945	2945	Y	
4	6781	2949	6785	2948	2949	2949	Y	
5	6801	2941	6804	2939	2940	2940	Y	
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RESULTS	Measured	SAAMI
No. Data Points :	5	Reqmt.
Maximum :	2983	
Minimum :	2940	
Extreme Variation :	43	
Average :	**2954**	
Standard Deviation :	15.31	
Avg.+3 Std. Dev.:	3000	
Standard Error :	6.85	
Avg. + 2SE :	2967	
Avg. + 5SE :	2988	

REMARKS

WITH STRAIGHT JACKET SYSTEM
BARREL COOLED TO -60 F PRIOR TO TESTING
100 YARD DISPERSION (5 SHOT GROUP): 1.956"
POINT OF AIM VS. POINT OF IMPACT: 1.12" LOW, 0.96" RIGHT.

Filename: TELUDYNE POST 5 SHOT -60 F.xls

H.P. White Laboratory, Inc.

VELOCITY DATA

Customer : TELUDYNE

Job No. : 11988-01 Test Date : 11/2/11

AMMUNITION

Manufacturer : BLACK HILLS
Type : 300 WIN MAG
Bullet : BOAT-TAIL HP
Catalog No. :
Lot No. : 4513091811

Case : 300 WIN MAG
Primer : UNKNOWN
Bullet Wt.(gr.) : 190
Powder : UNKNOWN
Overall Length (in.) : 3.309

Conditioning : AMBIENT
Loader : UNKNOWN
Date Rec'd : 11/2/11
Via : HAND CARRIED
Returned : REMINGTON 300 WIN

WEAPON

Type : G7058478
Ser. No.:

Barrel Length (in.) :
Reference Firing Date :

Velocity Correction (fps) :

SET-UP

Vel. Screen 1 : 5
Vel. Screen 2 : 25

Range No.: 6
Gunner : BLACK
Recorder : BLACK

Temperature (F): 70
Barometer (in Hg): 29.56
Rel. Humidity (%): 34

Shot No.	Time 1 (usec)	Velocity 1 (fps)	Time 2 (usec)	Velocity 2 (fps)	Average Velocity (fps)	Corrected Velocity (fps)	Include in Results	Remarks
1	6771	2954	6762	2958	2956	2956	Y	
2	6636	3014	6628	3018	3016	3016	Y	
3	6582	3039	6576	3041	3040	3040	Y	
4	6668	2999	6658	3004	3002	3002	Y	
5	6672	2998	6667	3000	2999	2999	Y	
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RESULTS	Measured	SAAMI
No. Data Points :	5	Reqmt.
Maximum :	3040	
Minimum :	2956	
Extreme Variation :	84	
Average :	3002	
Standard Deviation :	27.49	
Avg.+3 Std. Dev.:	3085	
Standard Error :	12.30	
Avg. + 2SE :	3027	
Avg. + 5SE :	3064	

REMARKS

WITH STRAIGHT JACKET SYSTEM
BARREL HEATED TO 160 F PRIOR TO TESTING
100 YARD DISPERSION (5 SHOT GROUP): 1.585"
POINT OF AIM VS. POINT OF IMPACT: 0.83" LOW, 0.61" RIGHT.

Filename: TELUDYNE POST 5 SHOT 160 F.xls

H.P. White Laboratory, Inc.
VELOCITY DATA

Customer : TELUDYNE

Job No. : 11988-01 Test Date : 11/2/11

AMMUNITION

Manufacturer : BLACK HILLS
Type : 300 WIN MAG
Bullet : BOAT-TAIL HP
Catalog No. :
Lot No. : 4513091811

Case : 300 WIN MAG
Primer : UNKNOWN
Bullet Wt.(gr.) : 190
Powder : UNKNOWN
Overall Length (in.) : 3.309

Conditioning : AMBIENT
Loader : UNKNOWN
Date Rec'd : 11/2/11
Via : HAND CARRIED
Returned : REMINGTON 300 WIN

WEAPON

Type : G7058478
Ser. No.:

Barrel Length (in.) :
Reference Firing Date :

Velocity Correction (fps) :

SET-UP

Vel. Screen 1 : 5
Vel. Screen 2 : 25

Range No.: 6
Gunner : BLACK
Recorder : BLACK

Temperature (F): 70
Barometer (in Hg): 29.56
Rel. Humidity (%): 34

Shot No.	Time 1 (usec)	Velocity 1 (fps)	Time 2 (usec)	Velocity 2 (fps)	Average Velocity (fps)	Corrected Velocity (fps)	Include in Results	Remarks
1	6732	2971	6744	2966	2968	2968	Y	
2	6810	2937	6816	2934	2936	2936	Y	
3	6765	2956	6762	2958	2957	2957	Y	
4	6775	2952	6785	2948	2950	2950	Y	
5	6802	2940	6807	2938	2939	2939	Y	
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RESULTS	Measured	SAAMI Reqmt.
No. Data Points :	5	
Maximum :	2968	
Minimum :	2936	
Extreme Variation :	33	
Average :	**2950**	
Standard Deviation :	11.89	
Avg.+3 Std. Dev.:	2986	
Standard Error :	5.32	
Avg. + 2SE :	2961	
Avg. + 5SE :	2977	

REMARKS

WITH STRAIGHT JACKET SYSTEM
COLD BORE
100 YARD DISPERSION (5 SHOT GROUP): 1.104"
POINT OF AIM VS. POINT OF IMPACT: 1.75" LOW, 0.66" RIGHT.
TEST DURATION: 15 MINUTES

Filename: TELUDYNE POST 5 SHOT AMBIENT (WARM).xls

H.P. White Laboratory, Inc.
VELOCITY DATA

Customer : Teludyne

Job No. : 11988-01 Test Date : 10/17/11

AMMUNITION

Manufacturer : BLACK HILLS
Type : .300 WIN MAG.
Bullet : BOAT-TAIL HP
Catalog No. : UNKNOWN
Lot No. : 4513091811

Case : .300 WIN MAG.
Primer : UNKNOWN
Bullet Wt.(gr.) : 190
Powder : UNKNOWN
Overall Length (in.) : 3.309

Conditioning : AMBIENT
Loader : UNKNOWN
Date Rec'd : 10/17/11
Via : HAND CARRIED
Returned : REMINGTON MODEL

WEAPON

Type : G7058478
Ser. No.:

Barrel Length (in.) :
Reference Firing Date :

Velocity Correction (fps) :

SET-UP

Vel. Screen 1 : 5
Vel. Screen 2 : 25

Range No.: 6
Gunner : BLACK
Recorder : UNGER

Temperature (F): 65
Barometer (in Hg): 29.89
Rel. Humidity (%): 40

Shot No.	Time 1 (usec)	Velocity 1 (fps)	Time 2 (usec)	Velocity 2 (fps)	Average Velocity (fps)	Corrected Velocity (fps)	Include in Results	Remarks
1	6545	3056	6545	3056	3056	3056	Y	
2	6557	3050	6557	3050	3050	3050	Y	
3	6649	3008	6649	3008	3008	3008	Y	
4	6572	3043	6572	3043	3043	3043	Y	
5	6622	3020	6622	3020	3020	3020	Y	
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RESULTS	Measured	SAAMI Reqmt.
No. Data Points :	5	
Maximum :	3056	
Minimum :	3008	
Extreme Variation :	48	
Average :	**3035**	
Standard Deviation :	18.31	
Avg.+3 Std. Dev.:	3090	
Standard Error :	8.19	
Avg. + 2SE :	3052	
Avg. + 5SE :	3076	

REMARKS

BARREL HEATED TO 160 F PRIOR TO TESTING.
100 YARD DISPERSION (5 SHOT GROUP): 2.530"
POINT OF AIM VS. POINT OF IMPACT: 1.68" HIGH, 0.80" LEFT

Filename: 11988-01 Teludyne 160 F.xls

H.P. White Laboratory, Inc.

VELOCITY DATA

Customer : Teludyne

Job No. : 11988-01 Test Date : 10/17/11

AMMUNITION

Manufacturer : BLACK HILLS
Type : .300 WIN MAG.
Bullet : BOAT-TAIL HP
Catalog No. : UNKNOWN
Lot No. : 4513091811

Case : .300 WIN MAG.
Primer : UNKNOWN
Bullet Wt.(gr.) : 190
Powder : UNKNOWN
Overall Length (in.) : 3.309

Conditioning : AMBIENT
Loader : UNKNOWN
Date Rec'd : 10/17/11
Via : HAND CARRIED
Returned : REMINGTON MODEL

WEAPON

Type : G7058478
Ser. No.:

Barrel Length (in.) :
Reference Firing Date :

Velocity Correction (fps) :

SET-UP

Vel. Screen 1 : 5
Vel. Screen 2 : 25

Range No.: 6
Gunner : BLACK
Recorder : UNGER

Temperature (F): 65
Barometer (in Hg): 29.89
Rel. Humidity (%): 40

Shot No.	Time 1 (usec)	Velocity 1 (fps)	Time 2 (usec)	Velocity 2 (fps)	Average Velocity (fps)	Corrected Velocity (fps)	Include in Results	Remarks
1	6728	2973	6728	2973	2973	2973	Y	
2	6709	2981	6709	2981	2981	2981	Y	
3	6664	3001	6664	3001	3001	3001	Y	
4	6636	3014	6636	3014	3014	3014	Y	
5	6636	3014	6636	3014	3014	3014	Y	
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RESULTS	Measured	SAAMI
No. Data Points :	5	Reqmt.
Maximum :	3014	
Minimum :	2973	
Extreme Variation :	41	
Average :	**2997**	
Standard Deviation :	16.92	
Avg.+3 Std. Dev.:	3047	
Standard Error :	7.57	
Avg. + 2SE :	3012	
Avg. + 5SE :	3034	

REMARKS

BARREL COOLED TO -60 F PRIOR TO TESTING.
100 YARD DISPERSION (5 SHOT GROUP): 4.571"
POINT OF AIM VS. POINT OF IMPACT: 1.29" HIGH, 1.31" LEFT

Filename: 11988-01 Teludyne -60F.xls

H.P. White Laboratory, Inc.

VELOCITY DATA

Customer : Teludyne

Job No. : 11988-01 Test Date : 10/17/11

AMMUNITION

Manufacturer : BLACK HILLS
Type : .300 WIN MAG.
Bullet : BOAT-TAIL HP
Catalog No. : UNKNOWN
Lot No. : 4513091811

Case : .300 WIN MAG.
Primer : UNKNOWN
Bullet Wt.(gr.) : 190
Powder : UNKNOWN
Overall Length (in.) : 3.309

Conditioning : AMBIENT
Loader : UNKNOWN
Date Rec'd : 10/17/11
Via : HAND CARRIED
Returned : REMINGTON MODEL

WEAPON

Type : G7058478
Ser. No.:

Barrel Length (in.) :
Reference Firing Date :

Velocity Correction (fps) :

SET-UP

Vel. Screen 1 : 5
Vel. Screen 2 : 25

Range No.: 6
Gunner : BLACK
Recorder : UNGER

Temperature (F): 65
Barometer (in Hg): 29.89
Rel. Humidity (%): 40

Shot No.	Time 1 (usec)	Velocity 1 (fps)	Time 2 (usec)	Velocity 2 (fps)	Average Velocity (fps)	Corrected Velocity (fps)	Include in Results	Remarks
1	6690	2990	6690	2990	2990	2990	Y	
2	6711	2980	6711	2980	2980	2980	Y	
3	6582	3039	6582	3039	3039	3039	Y	
4	6661	3003	6661	3003	3003	3003	Y	
5	6644	3010	6644	3010	3010	3010	Y	
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RESULTS	Measured	SAAMI
No. Data Points :	5	Reqmt.
Maximum :	3039	
Minimum :	2980	
Extreme Variation :	58	
Average :	**3004**	
Standard Deviation :	20.07	
Avg.+3 Std. Dev.:	3064	
Standard Error :	8.97	
Avg. + 2SE :	3022	
Avg. + 5SE :	3049	

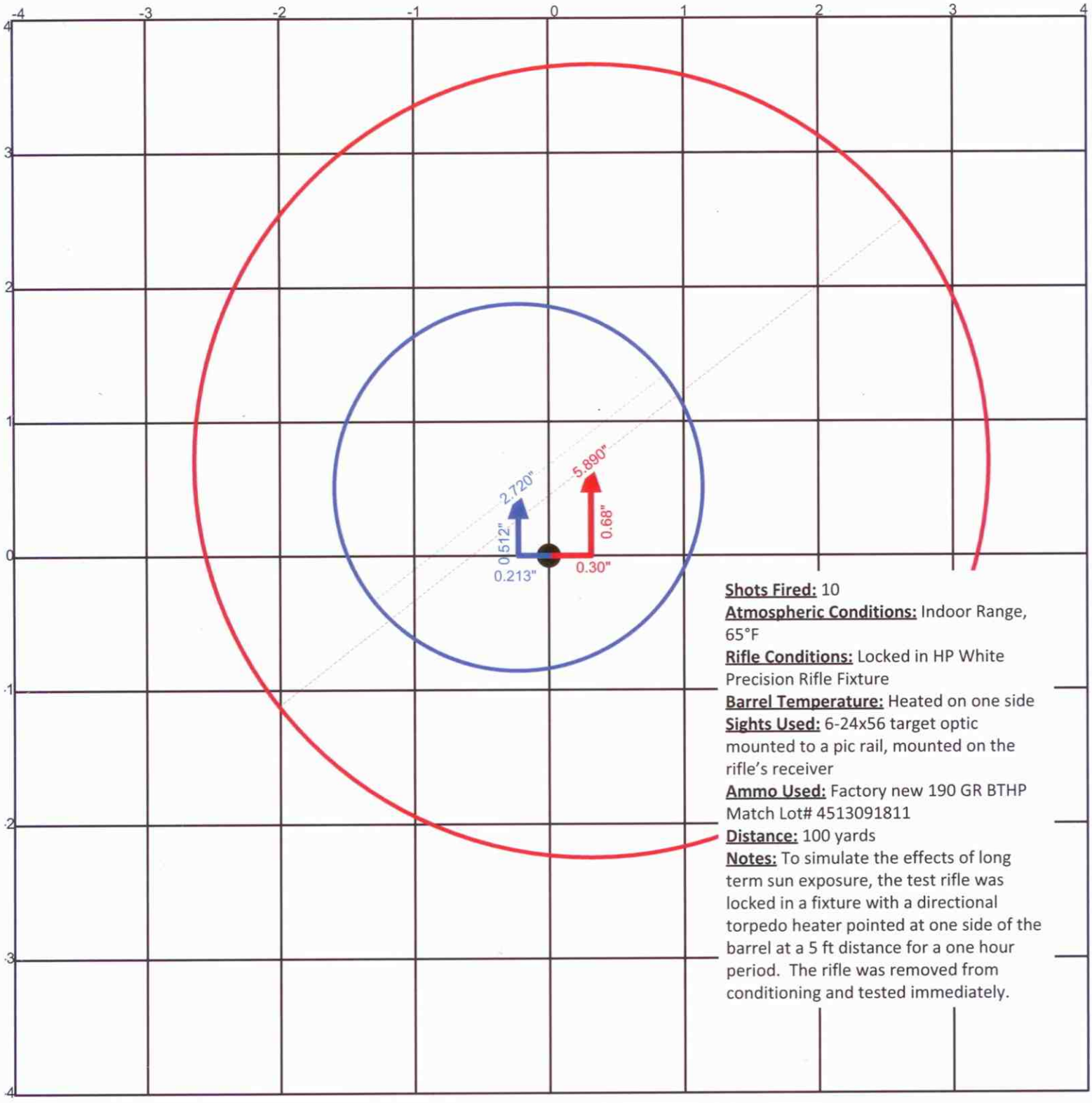
REMARKS

Cold Bore
100 YARD DISPERSION (5 SHOT GROUP): 0.962"
POINT OF AIM VS. POINT OF IMPACT: 3.42" HIGH, 1.00" LEFT
TEST DURATION: 55 MINUTES

Filename: 11988-01 Teludyne Cold Bore.xls

HP White Test Cycle - HPWLI 11988-01C-1

Directional Heat Influence Test



Shots Fired: 10
Atmospheric Conditions: Indoor Range, 65°F
Rifle Conditions: Locked in HP White Precision Rifle Fixture
Barrel Temperature: Heated on one side
Sights Used: 6-24x56 target optic mounted to a pic rail, mounted on the rifle's receiver
Ammo Used: Factory new 190 GR BTHP Match Lot# 4513091811
Distance: 100 yards
Notes: To simulate the effects of long term sun exposure, the test rifle was locked in a fixture with a directional torpedo heater pointed at one side of the barrel at a 5 ft distance for a one hour period. The rifle was removed from conditioning and tested immediately.

Legend

Point of Aim (POA)

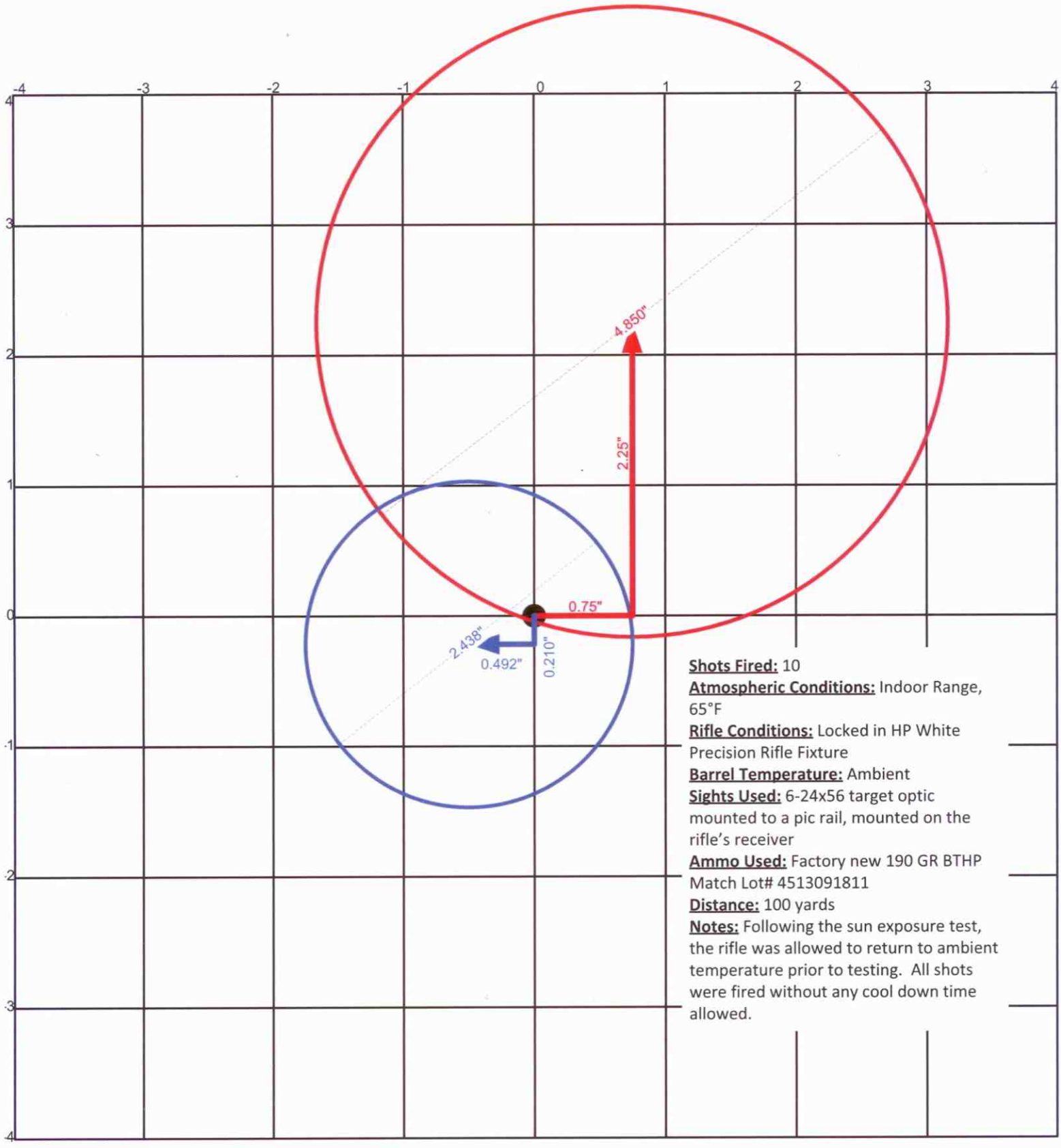
Test Rifle TTI-BR-01X

Remington M700, S/N G7058478, .300 Win Mag without StraightJacket® Barrel System

Remington M700, S/N G7058478, .300 Win Mag with StraightJacket® Barrel System

HP White Test Cycle - HPWLI 11988-01C-2

Directional Heat Influence Test



Shots Fired: 10
Atmospheric Conditions: Indoor Range, 65°F
Rifle Conditions: Locked in HP White Precision Rifle Fixture
Barrel Temperature: Ambient
Sights Used: 6-24x56 target optic mounted to a pic rail, mounted on the rifle's receiver
Ammo Used: Factory new 190 GR BTHP Match Lot# 4513091811
Distance: 100 yards
Notes: Following the sun exposure test, the rifle was allowed to return to ambient temperature prior to testing. All shots were fired without any cool down time allowed.

Legend

- Point of Aim (POA)

Test Rifle TTI-BR-01X

- Remington M700, S/N G7058478, .300 Win Mag without StraightJacket® Barrel System
- Remington M700, S/N G7058478, .300 Win Mag with StraightJacket® Barrel System

H.P. WHITE LABORATORY, INC.
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Email: info@hpwhite.com
www.hpwhite.com

30 November 2011
(HPWLI 11988-01C)

Teludyne Tech
1018 S. Batesville Road 3-D
Greer, SC 29650

Attention: Noel Lasure

In accordance with your instructions, H.P. White Laboratory, Inc. conducted Velocity and Dispersion Testing of one Remington Model 700, chambered in .300 Winchester Magnum, identified as S/N: G7058478 received 17 October 2011 via Federal Express.

Testing was conducted using caliber .300 Win. Mag., Black Hills, 190 gr. Boat-Tail Hollow Point, Lot 4513091811. The test sample was fixtured on an indoor range using a universal firearms mounting system. Photoelectric infrared screens were positioned at 5.0 and 25.0 feet which, in conjunction with dual elapsed time counters (chronographs), were used to compute projectile velocities 15.0 feet forward of the muzzle. Dispersion target was fixtured 100 yards from muzzle. Sighting optics mounted on the firearm was used to determine point of aim. Temperature conditions were achieved by placing a directional torpedo heater on one side of the barrel at a distance of five feet for a period of one hour. The firearm was removed from conditioning and tested immediately. Table I presents a summary of the enclosed data records.

Testing was conducted on 17 October 2011 with the firearm in its original configuration. On 2 November 2011 testing was conducted with the Teludyne Tech. Straight Jacket System installed. James W Armstrong, Firearms Examiner for Greenville County Crime Lab performed a bullet comparison on a single round fired 26 September 2011 with the firearm in its pre-jacketed state. On 1 November 2011 another single round was fired with the Straight Jacket system installed on the firearm. It was determined that the pre-jacketed bullet and the post-jacketed bullet were fired from the same barrel.

This report is based on data obtained from having tested only the sample submitted, and should NOT be interpreted as an endorsement by H.P. White Laboratory, Inc. of the continuing quality, or performance, of any other items of the same, or similar, design.

The test sample was returned into the custody of your on-site representative. Should you have any questions regarding this matter, or if we may be of any further service, please do not hesitate to contact us.

Sincerely,

H.P. White Laboratory, Inc.

Kevin Black

KB/sh
Enclosures

H.P. WHITE LABORATORY, INC.