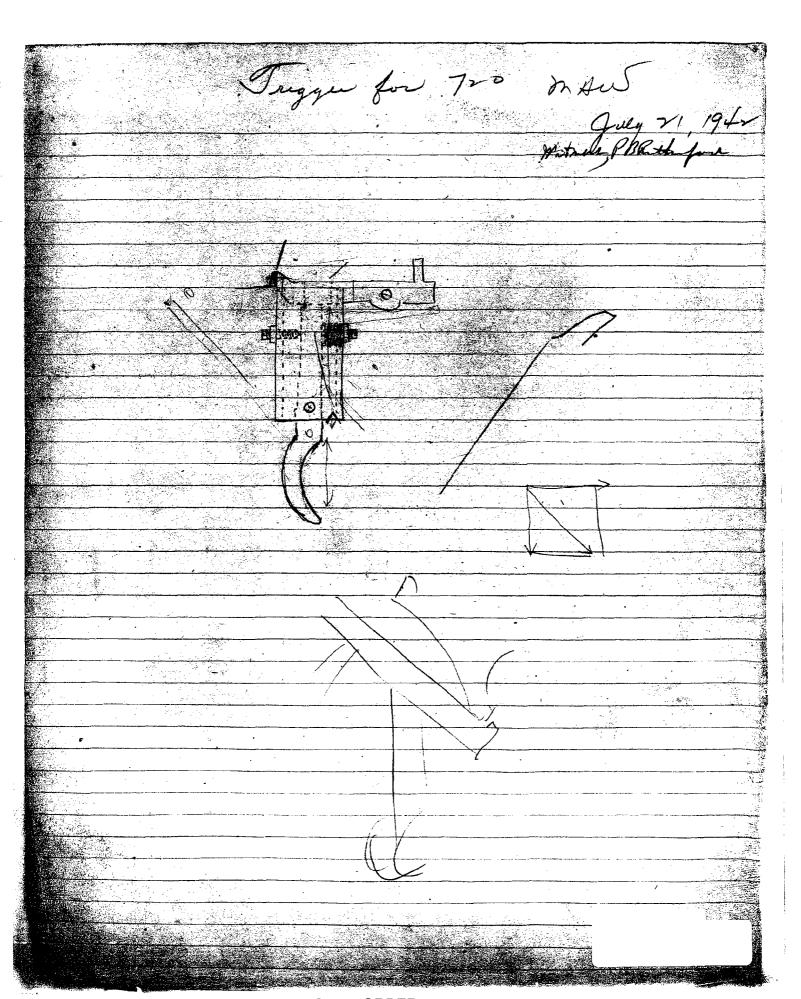
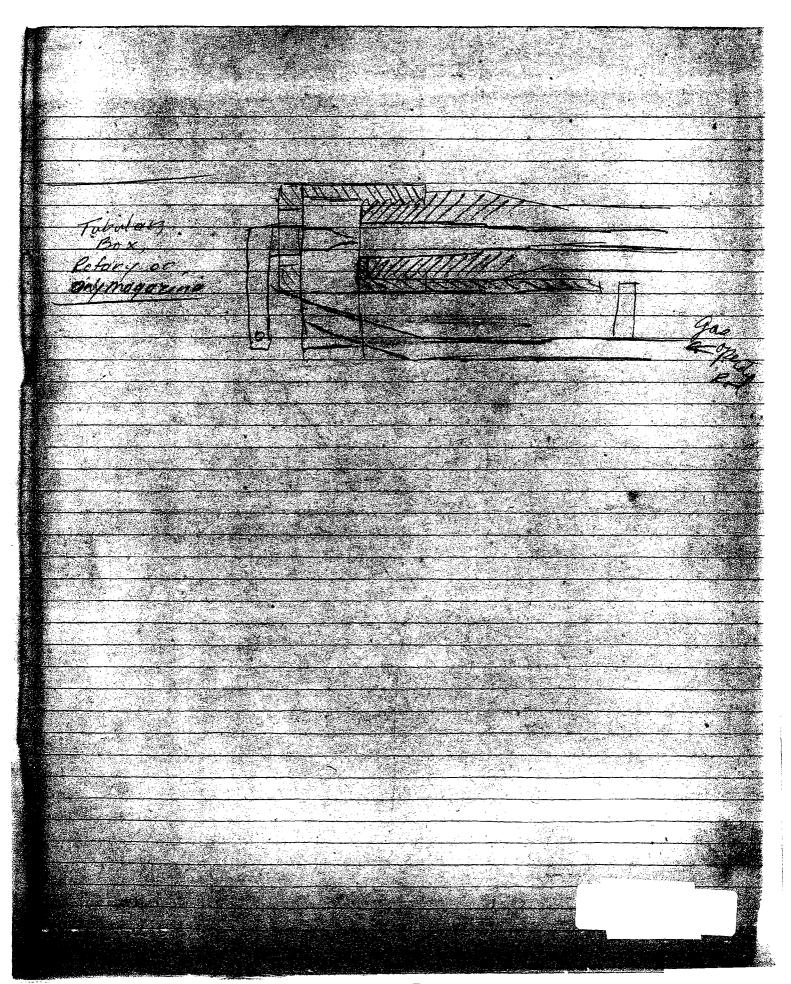
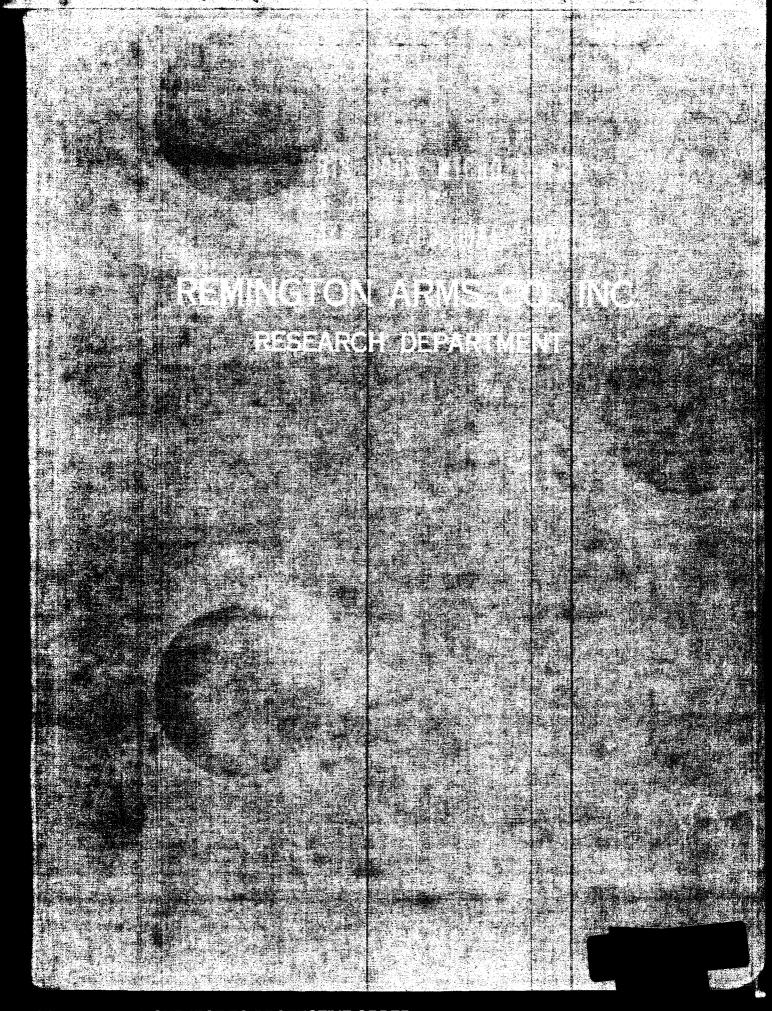


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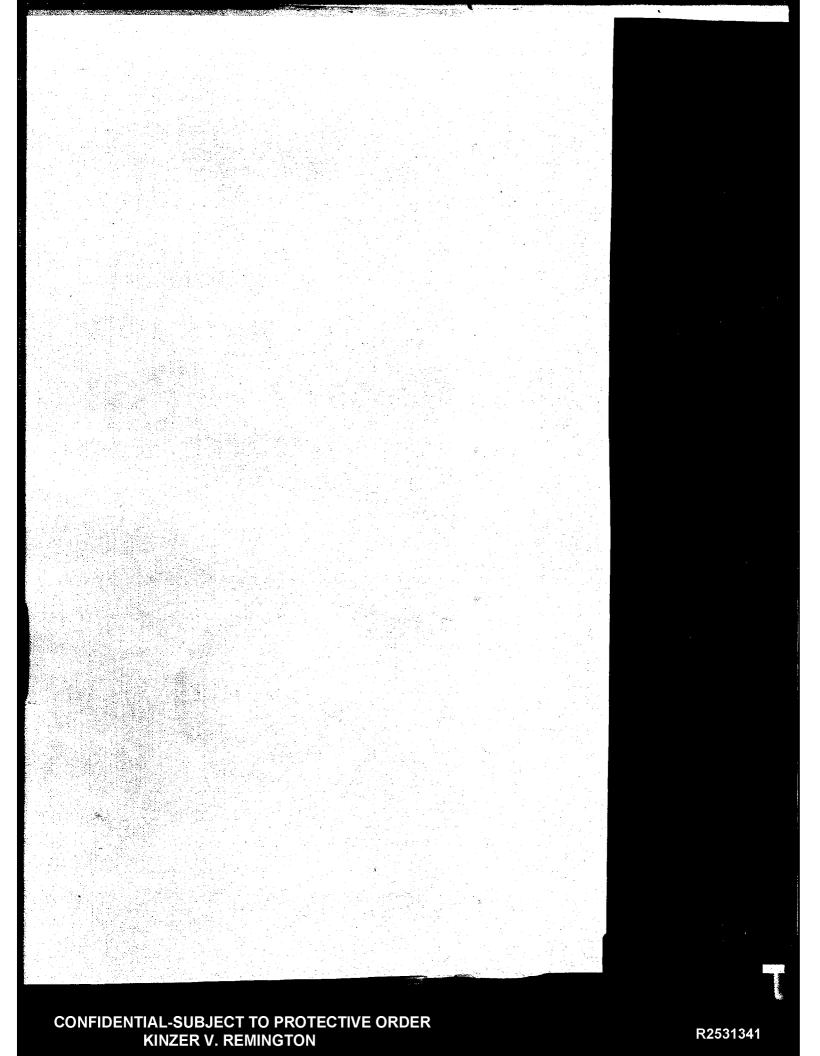


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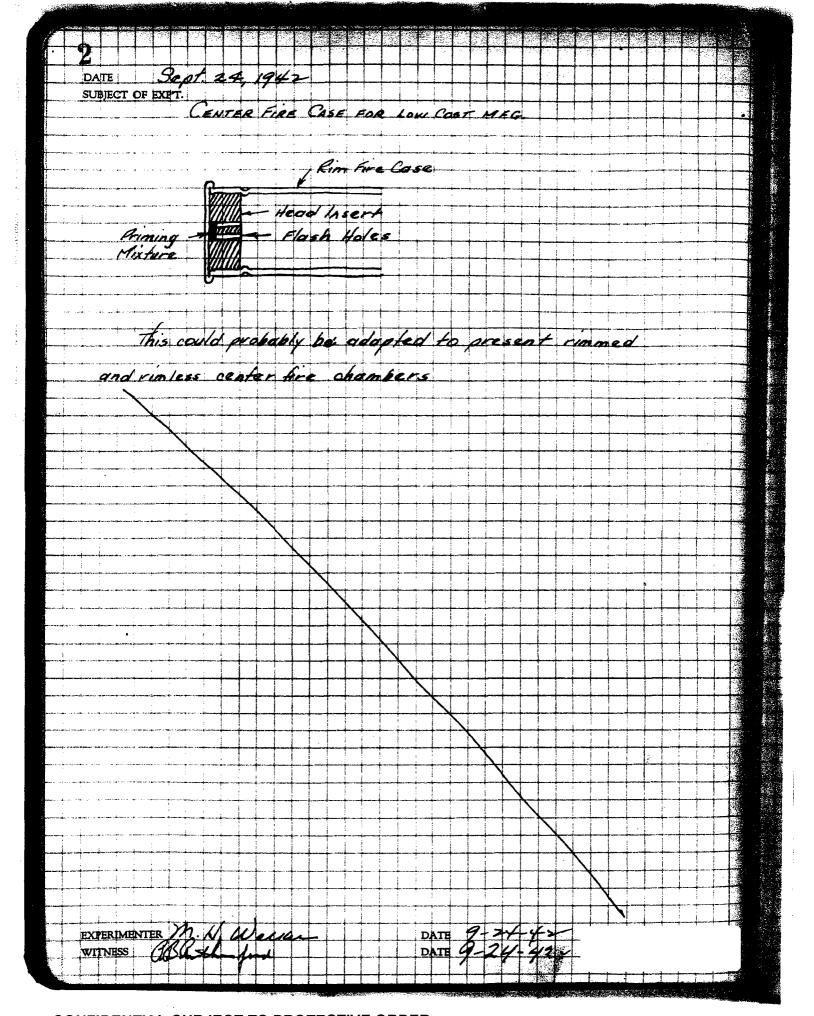


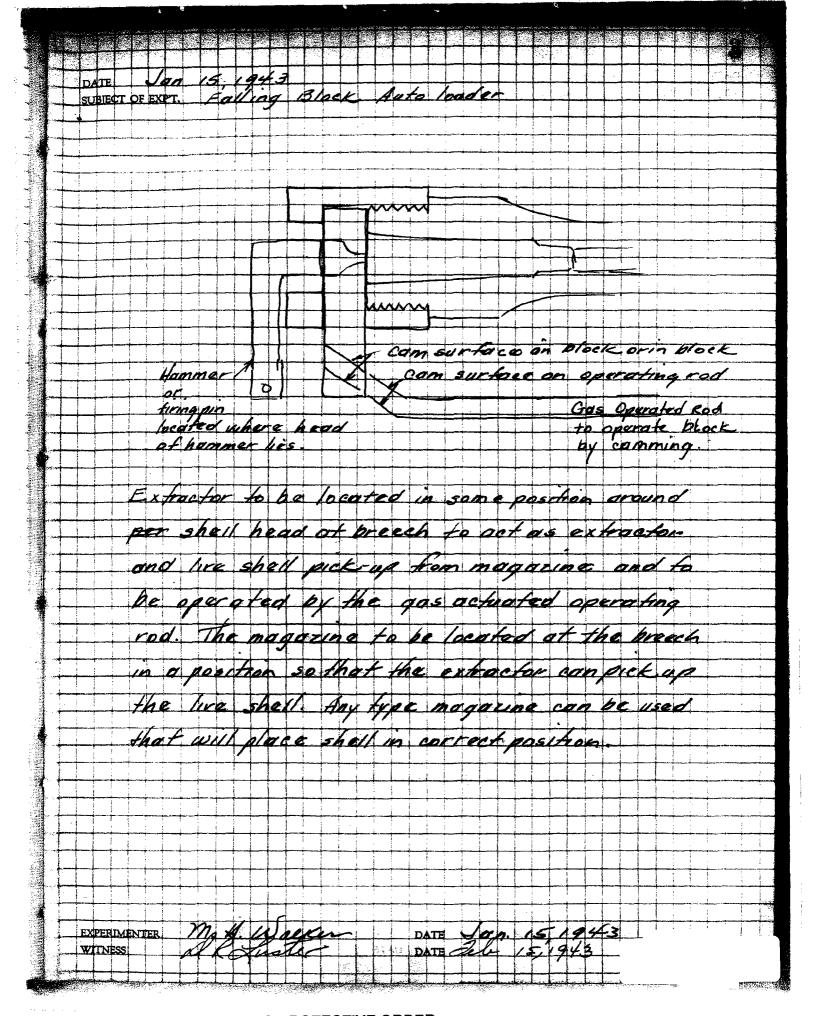
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RULES FOR RECORDING EXPERIMENTS

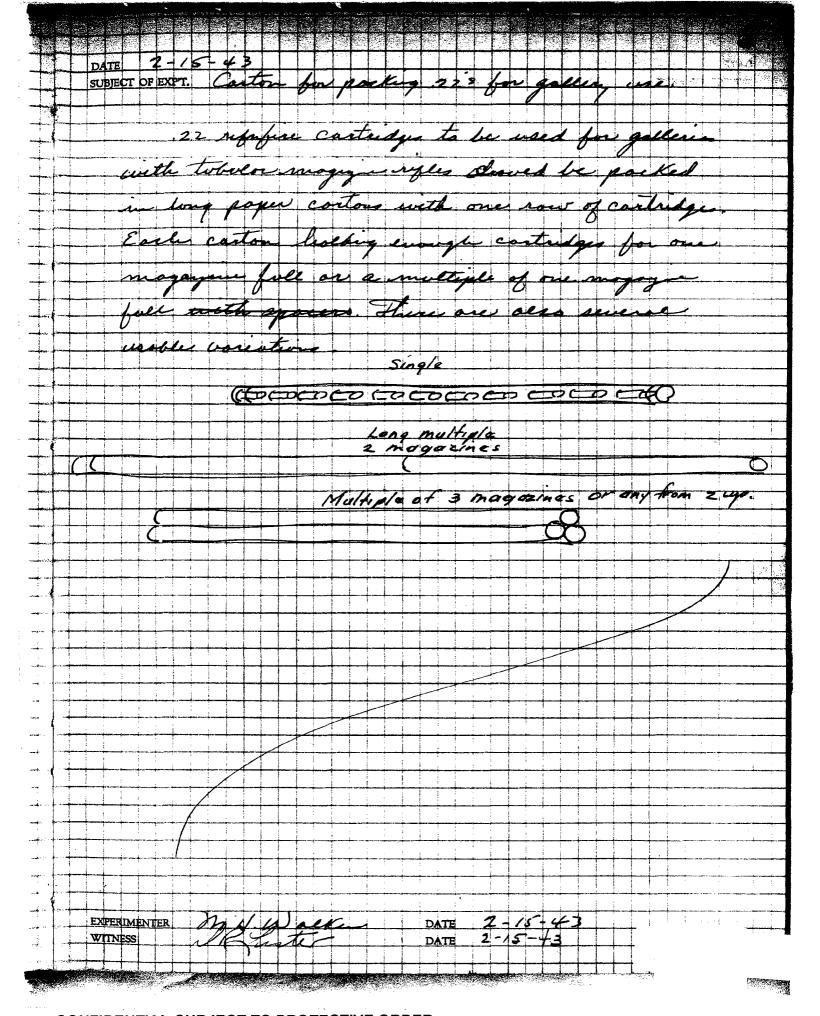
- 1. Original records are to be in ink.
- 2. Each notebook page whereon there is recorded a completed experiment should be signed and dated by the experimenter in the space provided.
- 3. Each notebook page containing a completed experiment should be read and signed by a witness who will place his signature and the date in the space provided. The witness is to be one who understands the purpose of the experiment and the result obtained but who is not likely to be the inventor or a coinventor. Preferably the witness signs on the same day as the experimenter and in any event as soon thereafter as possible.
- 4. Where entries on a single experiment do not completely fill a page, the remainder of the blank page should be ruled out. Where the record of the experiment extends over several pages which are not consecutive, proper cross-references should be inserted.
- 5. The bound notebook is to be preserved intact. In no case should any page or part of a page be removed.
- 6. No erasures are to occur in the record. Any corrections or changes should be made by cancellation, leaving the original entry legible.
- 7. The same rules as to signing, dating and witnessing are to be followed when the original data are recorded on loose sheets or forms other than the standard bound notebook.

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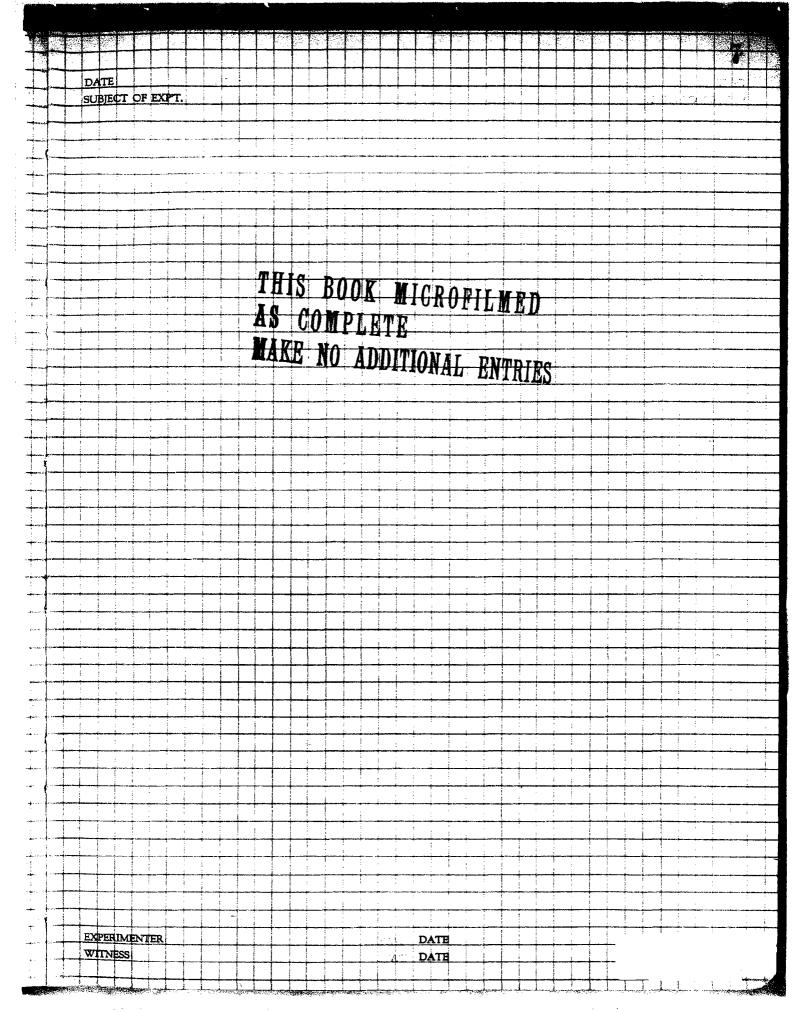




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RD-69-B

REMINGTON ARMS COMPANY, INC.

INTER-DEPARTMENTAL CORRESPONDENCE

Remington.

PETERS

"CONFINE YOUR LETTER TO ONE SUBJECT ONLY"_

May 3rd, 1945

CC: R. H. Grace H. C. Moss

C. F. Benner

TO:

M. H. Walker

FROM:

C, F. Benner

SUBJECT:

CHEMICAL ANALYSIS OF BARREL BLANKS

The chemical analysis of barrel blank forgings as supplied by you and obtained from a lot of barrels that were originally made for Steger Arms some years ago, is as follows:

Carbon

.34

Manganese

.68

Chromium

-86

Molybdenum

.2F

This analysis is comparable to our Specification #46 (Cr-Mo).

C. F. Benner

Engineering Section

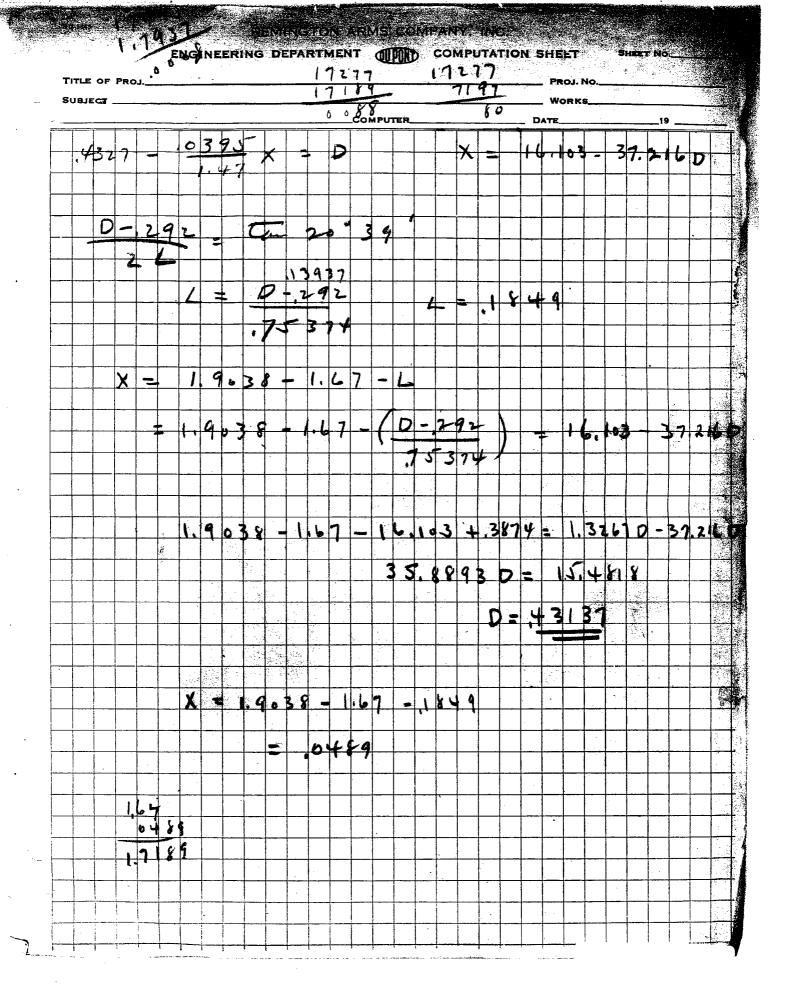
Technical Department

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PEMINSTON ARMS COMPANY INC. ENGINEERING DEPARTMENT COMPUTATION SHEET NO. W 100 9

REMINGTON ARMS COMPANY INC. ENGINEERING DEPARTMENT COMPUTATION SHEET TITLE OF PROJ._ SUBJECT _ COMPUTER

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cc: C. I. Bradford

R. A. A. Hentschel, Ilion

J. D. Howell, Ilion

Bridgeport, Connecticut, March 18, 1943

TO:

P. B. RUTHERFORD

ILION

PROM:

L. C. STIER

RESEARCH DIVISION

BUILDING 335

SUBJECT:

FORCE MEASUREMENTS ON SPRINGFIELD RIFLE

I am sending you the results which have been obtained to date on the Springfield belt project. The values listed are ratios of belt force, as measured by the ess gauge, to the force calculated from $F_{\rm max}$ = PA where P is breech pressure, measured by the pieze gauge and A is the area of the cartridge head, 0.17) in.2. The results show up more significantly when expressed in this way. Also included are the standard error, the number of observations, and the value of $F_{\rm max}$, as defined above. Obviously, the actual belt force is obtained from the product of the ratio given into $F_{\rm max}$.

The measurements in which the head space was varied and dry and ciled cases sompared, were made in a Woodworth sradle. The measurements with clamped barrel were made in a Frankford Arsenal rest. Free and rigid backing measurements were obtained in the setup designed for the accuracy study. In the latter case, 45 pounds of lead shot in a large steel cylinder were placed behind the stock; the recoil distance did not exceed 3/8 inch.

The results seem to justify the comments which

follow:

- 1. There is a significant difference in bolt force as between siled and dry cases, though the difference is smaller than was expected.
- 2. There is a significant difference in bolt force as between minimum and other headspace values but not between headspaces larger than minimum.
- 3. The type of force operative in the gun action apparently does

PORCE MEASUREMENTS ON SPRINGPIELD RIPLE

not alter the applicability of the F = PA formula. Originally, it was felt that the presence of "impact forces" would alter this view. However, the results appear reasonable upon a closer analysis of what can be meant by "impact forces". A force can be called an impact force when the time of application of the force is very small compared with the natural period of the system on which it operates. Now in the gun, the time from the initiation of the force to its maximum value is of the order of 10⁻³ seconds, whereas the natural period of the gauge body is of the order of 10⁻⁵ seconds. In other words, the bolt face "follows in step" with the application of the force in the breech. The absence of vibrations on the pseillograms would seem to support this view.

4. A significant difference in bolt force as a function of the method of supporting the gun appears only in the case of free resoil as against other methods of support. Shoulder shooting does not seem to behave like free recoil in this respect.

A general mathematical analysis has been made which shows the results to be at least qualitatively responsible.

In regard to the questions which you asked in your letter (February 19), I have no explanation of the negative force appearing on the curve for dry cases. Actually, this showed up only in these preliminary measurements, disappearing in later results. It could have been due to a defect in gauge insulation as this was renewed before the final measurements were made. As far as the height of these curves is concerned, the examples shown were picked at random and principally to show the form of the curves. No effort was made to provide particularly accurate drawings and the values given with the curves referred to average values.

1.98.

LGS:MAP Att.

	•			
	Minimum H	eadspace	(1.940*)	Fmex. (lbs.)
D.	0.82 ±	.016	33 observations	6407
0.	0.97 ±	.024	21 observations	6357
	Medium He		(1.946=)	
D.	0.93 ±	.016	38 observations	6513
٥.	1.005 ±	.014	17 observations	6230
٠	Meximum H	eadspace	(<u>1.950*</u>)	
D.	0.91 ±	.022	33 observations	6480
٥.	1.005 ±	-012	16 observations	6340
		Min. H.S. Dr	ry Cases	
Free	Recoil	0.83 ± .017	7 10 observations	6577

10 observations

10 observations

10 observations

6844

6720

6844

.010

.016

.012

0.93 ±

Shoulder Shooting

Rigid Backing

Barrel Clamped

ec: C. I. Bradford

R. A. A. Henschel, Ilion

J. D. Howell, Ilion

Bridgeport, Connecticut, March 25, 1943

TO:

P. B. RUTHERFORD

ILION

FROM:

P. J. DARBY

RESEARCH SECTION BUILDING 335

SUBJECT:

PORCE MEASUREMENTS ON SPRINGFIELD RIPLE

This letter supplants that of March 18, 1943 on the same subject. It gives the results which have been obtained to date on the Springfield belt project.

We have used combinations of dry and ciled cases, minimum, field, and maximum head space, Woodworth cradle, free receil, shoulder shooting, heavy backing, clamped barrel. The following is a table of the results:

Cases	Head SPACE	Method of Support	No. of observa-	Theoretical maximum force	Observed fraction of theoret- ical maximum	Standard error of result
Dry	1.940	Foodwort	b.	•		
~		cradle	33	6407	.82 ±	.016
Oiled	1.940	**	21	6357	•97 ₹	.024
Dry	1.946	*	38	6513	•93 ₹	.016
Olled	1.946		17	6230	1.005 ±	.014
Dry	1.950	**	33	6480	.91 ±	.022
011ed	1.950	**	16	6340	1.005 +	.012
Dry	1.940	Free				
		stocked	10	6577	.83 🛓	.017
Dry Dry	1.940		10	6844	•95 ≱	.010
		weight	10	6720	•94 ‡	.016
Dry	1.940	Barrel elemped	10	6844	·93 ±	.012

The values listed are ratios of the bolt force the force the break to the force animals of the break

follows

pected.

FORCE MEASUREMENTS ON SPRINGPIELD RIFLE

pressure and A is the area of the cartridge head .173 in. 2. Since both maximum pressure and maximum bolt force were measured on each shot, this ratio is easily calculated and has a small variation from shot to shot. The headspaces given are minimum, field and maximum. Dry cases were as received, oiled cases had a slippery layer of machine oil wiped on.

The free stocked gun slid back on parallel ways and was caught after the bullet had left the muzzle. Forty-five pounds were placed behind the stock in another case. In the slamped barrel case, the stocked gun was fastened in a rest by the barrel and the barrel did not slide in its grips. The rest was weighted with 100 pounds of lead.

The results seem to justify the comments which

1. There is a significant difference in bolt force as between ciled and dry cases, though the difference is smaller than was ex-

- 2. There is a significant difference in bolt force as between minimum and other headspace values but not between headspaces larger than minimum.
- 3. The type of force operative in the gun action apparently does not alter the applicability of the F = PA formula.
- 4. A significant difference in bolt force as a function of the method of supporting the gun appears only in the case of free recoil as against other methods of support. Shoulder shooting does not seem to behave like free recoil in this respect.

A general mathematical analysis has been made which shows the results to be at least qualitatively reasonable.

In regard to the questions which you asked in your letter (February 19), I have no explanation of the negative force appearing on the curve for dry cases. Actually, this showed up only in these preliminary measurements, disappearing in later results. It could have been due to a defect in gauge insulation as this was renewed before the final measurements were made. As far as the height of these curves is concerned, the examples shown were picked at random and principally to show the form of the curves. No effort was made to provide particularly accurate drawings and the values given with the curves referred to average values.

PFD

MYM.

RELATIVE STRENGTHS OF HIGH POWER CENTER FIRE RIFLES

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RD-49-E

REMINGTON ARMS COMPANY, INC.

INTER-DEPARTMENTAL CORRESPONDENCE

Remington.

PETERS

xc: W.H. Coleman, II
J.W. Bower

Tite - SAAMI

"CONFINE YOUR LETTER TO ONE SUBJECT ONLY"___

Ilion, New York April 30, 1985

E.F. BARRETT

PROPOSED ANSI/SAAMI STANDARD Z299.5-1984
ABUSIVE MISHANDLING

The Ilion New Product Research - Firearms recommends the adopting and accepting of the proposed ANSI/SAAMI Standard dealing with Drop and Jar-off tests with harder drop matt and word changes as written.

A.A. Hugick

New Products Research - Firearms

Technical Representative

AAH:js



REMINGTON ARMS COMPANY, INC.

SPORTING ARMS-AMMUNITION-TARGETS-TRAPS

ILION, NEW YORK 13357

TELEPHONE (315) 894-9961

June 7, 1985

Mr. Paul Eschrich
SAAMI
P.O. Box 218
Wallingford, Connecticut 06492

Re: TU 15/16 Unsafe Arms and Ammunition Combinations

Dear Paul:

308 Win. and 8mm Maus. cartridges were tested in a firearm chambered for 7mm Rem. Mag. Findings were that these cartridges can be made to chamber with varying difficulty and can be made to fire. When the cartridges did fire case failures occurred resulting in gas leakage from the firearm. The gas leakage was considered hazardous, and the cartridge - chamber combinations should be added to the unsafe arms and ammunition combination list.

Very truly yours,

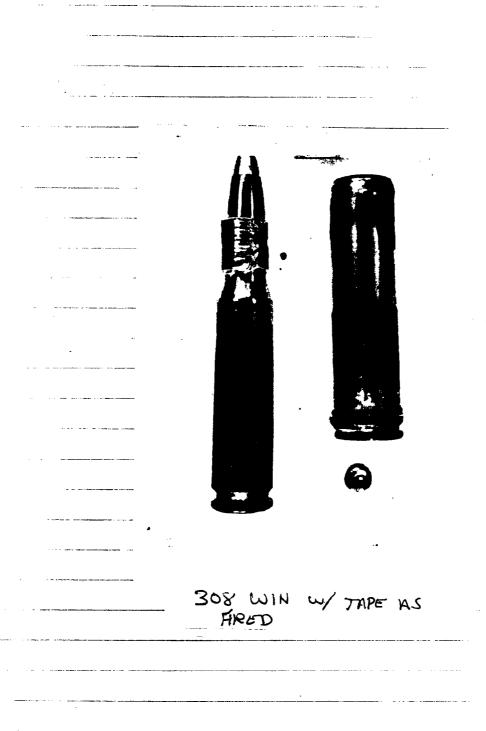
A.A. Hugick, SAAMI Rep.

New Products Research - Firearms

AAH:js



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RD-09-8

REMINGTON ARMS COMPANY, INC.

INTER-DEPARTMENTAL CORRESPONDENCE

xc: W.H. Coleman, II J.W. Bower

Remington.

PETERS

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A.A. Hugick

New Products Research - Firearms

Technical Representative

AAH:js

REMINGTON ARMS COMPANY, INC. Research Department

Japee File

cc: R. E. Fielitz

Bridgeport, Connecticut April 26, 1985

TO:

E. F. BARRETT

FROM:

W. H. COLEMAN, II

SUBJECT:

PROPOSED ANSI/SAAMI STANDARD Z299.5-1984 ABUSIVE MISHANDLING

Research has no problem with the proposed standard as submitted. The only comment is that perhaps some clarification on height during muzzle up and muzzle down drop tests is needed. Present standards call for the height to be measured to the center of gravity, and our assumption is that this holds true in the muzzle up or muzzle down positions, also. Adam Hugick will follow up with SAAMI.

WHC/dr WHC/dr Att.

