

A

Green Valley, Arizona

Jan. 15, 1982

To Clark Workman

From Wayne E. Leek

Subjects: December 1981 report on Silhouette activities
and an outline on ideas to support a new bolt
action line of rifles and shotguns.

Matches attended: 22 RF Silhouette

Dec. 20 Nogales Rifle Club

Match Winner	Leek	28/40
"	"	24/40

Dec. 27 Tucson Rifle Club

Match Winner	Leek	27/40
"	"	29/40

Jan. 1982 report on more details supporting new
bolt action designs.

Suggestions to support new bolt action rifle design:

I Analysis of M700 CF rifle

A. Positive features

1. Superior strength.
2. Adequate accuracy.
3. General appearance satisfactory.
4. Complete range of popular calibers.
5. Priced competitively.
6. Right and left-hand models.

B. Negative features

1. Weak recoil bracket.
2. Ring extractor (bad reputation).
3. Round receiver (unreliable bedding).
4. Trigger adjustment insecure and weak.
5. Lock time (slow)
6. Manual safety (inadequate)
7. Scope base mounting (inadequate).
8. Match rifles (not competitive).

II Proposed foundation for improved rifle.

- A. New bedding and recoil bracket.
- B. Redesigned claw extractor.



AL 0029868

- A
- C. Redesigned trigger elements.
 - D. Reduced lock time.
 - E. Manual Safety (function off cocking piece).
 - F. Scope base mounting (use 3/40 screws or permanent base mounting).
 - G. Match grade (superior to Anschutz) (Redesigned stock, accessories and trigger mechanism).

L

III Proposed ideas for future development of bolt action rifles.

- A. Recoil reduction
 - 1. Butt plate area.
 - 2. Barrel area.
 - B. Ultra-high velocities.
 - C. Elimination of cartridge case.
 - D. Accuracy improvements.
 - E. Improved barrel dampening and bedding methods.
 - F. Reduced lock time.
 - G. Improvements in aesthetics.
 - 1. Barrel finish.
 - 2. Stock finish.
 - H. Improvements in Match rifle design.
 - 1. Stock
 - 2. Trigger mechanism.
 - 3. Lock time.
 - 4. Accuracy.
 - 5. Sights.
- S
I
C
H

Suggestions to support new bolt action Shotgun design:

I Analysis of competitive products.

- A. Positive features.
- B. Negative features.

II Proposed foundation for new bolt action Shotguns.

- A. Gauge.
- B. Stock design.
- C. Feeding system.
- D. Sights.
- E. Locking mechanism.
- F. Trigger mechanism.
- G. Barrel length.
- H. Manufacturing facilities.
- I. Safety mechanism.

Enc. Letter from the Rogers Arms and Machine Co., Inc.
and my reply.