🚊 BARBER - PRESALE R 0105903

ILION RESEARCH DIVISION MONTHLY PROGRESS REPORT DECEMBER 1978

MODEL 1100 WEIGHTED LT-20, 28 & 410 GA. SKEET SETS

Marketings evaluation selected the weight system simulating the standard frame 20 Gauge. Small Gauge M/1100's are now being assembled for test purposes. Complete Signet Stand Standard Standard Model drawings have been turned over to Process for estimating only. <u>X S G</u>

The first model of the XSG Shotgun has temporarily stopped endurance Control of the testing at 2138 total rounds, due to a broken increase bar. The break occurred in the area where welding, for carrier dog notch adjustment, caused local annealing, and the broken increase bar.

This model has been retrofit with the floating one piece piston at 1999 This model has been retrofit with the floating one piece piston at 1999 The piece of the second second

New internal bar assemblies are now completed and testing will resume -bat grow on the same gun after fitting and heat treating. The second model, also will be containing a floating piston, is now being assembled and component parts Manc bar being heat treated.

The redesigned magazine cap detent system parts, containing larger J_{club} boosed detent wear surfaces are completed and installed in both test models. These components will begin testing upon resuming XSG model testing.

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER KINZER V. REMINGTON R2506891 BARBER - PRESALE R 0105903

BARBER - PRESALE R 0105904

at. . . .

ILION RESEARCH DIVISION MONTHLY PROGRESS REPORT DECEMBER 1978

-2 -

XSG (Cont.'d)

being designed for the external piston diameter to shaling hand is plus light utacturing rances for the piston.

MODEL 3200 4 GAUGE SKEET SETS

<u>Patterns</u> - The REMINGTON SKEET CHOKE can be used in .410, .28 and 20 gauge 3200 barrels. It cannot be used in 12 gauge because the end of the barrel gets too thin when counter-bored.

Changing the model drawings is all that is required **These with** to make this **will be complete the first week in Jan.**

Loading - The problem of "shell slips by ejector" is being investigated. Loud been The following solutions are explored and every setted:

- Bending ejectors after assembly this proved unsatisfactory when tried because of the loose fit of the ejector stems in the dove tail slots.
- Tight chambers By using a SAAMI minimum chamber, clearance is reduced only .003 inches in the best case. This alone is not enough to cure the problem.

mono-block and ejectors.

BARBER - PRESALE R 0105904

ILION RESEARCH DIVISION MONTHLY PROGRESS REPORT DECEMBER 1978

-3-

MODEL 3200 4 GAUGE SKEET SETS (Cont'd)

• Ejector sliding at an angle to the bore - this solution may work.

However, it would require extensive changes to the ejectors and to the mono-block.

Some competitive over/unders were measured to see how they solved the problem. The key seems to be very tight ejector stem fits in the mono-block. They have clearances from .000 to .005 where ours are .010 to .017.

The solution to the problem appears to be:

- 1. Tighten up ejector stem fits to the dove tail slot.
- 2. Retolerance the ejector so that the stem fit is assured.

South Stepson be to see

3. Tighten the chamber to SAAMI min. And the chambers-should

not he polished after they are cut.

The details of this solution are being worked out. It is expected that only for factory in the factory in the second chamber dimensions will be affected. Drawings should be modified out.

during the first wook in January. Maline, by mid-

CONFIDENTIAL-SUBJECT TO PROTECTIVE ORDER KINZER V. REMINGTON R2506893 BARBER - PRESALE R 0105905

: 25.7 : -

CH DIVISION

MODEL 870 COMPETITION TRAP

Formal drawing transmittal to Production will be completed upon approval of material and heat treat specifications by Chem. and Met. supervisor with this cheep Telen of the target three to be and MODEL 700-600 FIRE CONTROL (Get Target Target Maggie Kapel planning to be and

A layout of a new fire control has been completed. This fire control uses the sear block as found on the present safety and also has a trigger block that is actuated by the safety lever. Tolerancing and detailing will be done if the concept is accepted.

MODEL 600 CARBINE

Six rifles have been sent to H. Albaugh, Marketing, for the January Marketing focus panel.

MECHANICAL TRAP

Manuals ready for the printers. Should be received by mid-January.

R2506894 BARBER - PRESALE R 0105906