

cc: V. E. Leek

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R. P. KELLY

REPORT ON PROGRESS OF 30-30 CAL. MODEL 600

To date the model gun for this caliber has been shot some 180-200 rounds. No difficulties in firing have been encountered. However, as anticipated, some trouble has shown up in feeding.

The use of a double column, single feed magazine seems to be nearly impossible. At least, it is very inconvenient to load. Due to the short ejection port, through which we must load, it is very difficult to feed under lips in the rear of the magazine and move the shells rearward. These lips must be short so that the nose of the shell can not be held down. This of course means that the shells will stem high.

In lieu of this magazine a regular M/700 short action magazine was installed and a regular follower. With this setup, feeding of the first three rounds from the magazine was quite satisfactory. However, the fourth round was low at the nose. A piece of metal, approximately .120 high, was soldered to the follower just ahead of the shoulder of the shell. This helped tremendously in feeding this shell. At the same time it was found that by raising the nose of this shell it caused a bind when the rim of the top shell, or the first shell from the magazine, reached a point just ahead of the release point. The hump on the magazine was then ground down at the rear, which in effect moved it ahead. This seems to relieve the bind.

In the firing of the 180-200 rounds, overrides were encountered on the last round from the magazine. This apparently is due to the rear of the follower sticking low in the magazine. The rim of this shell is so large that the follower is held quite low and the coverage of the bolt for pick-up is small. At present a solution for this is being worked on.

If possible, I would like to do all the work on the feeding within the magazine. The receiver forms the feed rails, but economically it would be to our advantage to keep them the same for all calibers.

RLStJ:T

R. L. St. John  
Firearms Design Section