TO: T.C. Douglas
From: J. ب. こevie


Subject: Monthly Report
LEADLESS BULLET (Copper):
There have been 10 further quotes from other vendors for the manufacture of these bullets at the present time.

Apex Ina., the inly vendor to quote, which provides unfavorable economics. sent a small sample of 30 cal . bullets te test. Ten rounds were shot for accuracy and two for mush e 100 gds. Accuracy for the $2 / 5$ shot fronts was 2. $3^{\prime \prime}$ an g $0.4^{\prime \prime}$. Mush was shot through $\hat{o n}^{\prime \prime}$ of water which yielded a weight retention of $95 \frac{5}{5}$ with a mush diag. zee approx. 1. 6 X . These bullets were made from c110 copper that Remington supplied. contact was male with Apex to get the details of manufacturing of these bullets. The sample was not made on production equipment but were machined in the same namer as the present $R$ a $=$ bia: $5=$ ale machined. Apex stated that there jere problems using clio materisi ind that this material could not be run on production equipment such as a Davenport. .
 on mi?. The company is locking at the feasibility of purchasing a CNC machine to make the doper bullets and provide a quote for producing them. It was stated that the bullets could not be mace sin their current production, 三quipmeia such: as a Davenport due to the length-diameter ratio for forming.

A bullet drawing has been sent to the Nippert co. to view and Possibly determine alternate methods of fabrication. some information should be forthcoming shortly.

There should also be some quotes from choir Velujis the week of af i.
30 Cal - 165 gr. - Lat
 2690 Eps i 59000 psi. Accuracy 100 gds was 1.0 .

30 Cal 190 gr. - latest design was loaded in 30. ieathelvy Mag. with the following results: $\because \bar{r}$ inst. - 2958 fps/ 3015 fps : 64000 psi. Accuracy @ 100 gds. was inc". More handloading
 shotic be doit by f:18.







LEAD FREE PER TRAINING AMMO.




located; they will quote on rebuilding the existing 62A frame. Bliss persomel will have to cone and check the machine before a quote can be made.

The project request for the purchase or rebuilding of a 62A Eliss with moaifications has been approved.

Small and large lead-free pistol primers have been received from siociohi of Anerica. These primers will be tested in pemington shells using metal case bullets and compared to current Remington product. This shoula be dene ty eiso.

Larri Martin of Eiocchi said that they ale constantly working on the mix and that flature primeis could possibly be different than the ones that have been léseived.

## MISCELLANEOUS:

Smail =amplés jf a longii 12 ga. slug and sibot frsi z" mag. have jeen zin sin the Gic macizne. If results are favorabie, additional quantities will be made before machine is changed back fablilets.

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