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Ilion, New York
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From: S. M. ALVIS

PROGRESS REPORT NO. AI-72-3

XP-100 - 17 CALIBER - FEASIBILITY TEST

Attached is a letter form report showing results of exploratory test to determine feasibility of chambering the Model XP-100 Pistol for the new 17 Caliber cartridge. This work was done as result of questions being asked after the new 17 Caliber Remington cartridge was introduced.

Although the XP-100 Pistol is a limited production specialty model with an average annual sales of 1000 units, the factory margin has been exceeding 25%. Information on ammunition sales has not been checked.

From limited tests it appeared that muzzle velocities could exceed 3200 fps with a 25 grain bullet, and in the range of 3350 fps with 20 grain bullets. This compares to the 2650 fps advertised muzzle velocity using the current Caliber 221 Remington Fireball cartridge with 50 grain bullets. From this work it also became apparent that a 17 Caliber cartridge with less case capacity would be needed. Therefore justification for such a new cartridge would need to be determined.

No further work is planned; however, this information will be useful in answering questions.

SMA:T
Attach/

S. M. Alvis
S. M. Alvis, Manager
Ilion Research Division