

AT FIRING RANGE

When the piece is fired the gun moves to the rear—45 inches in the cradle, carrying with it the cylinder and compressing the counter recoil springs. The piston rod is attached to a non-recoiling part of the carriage, so that as the cylinder moves to the rear the oil in it must pass from one side of the piston to the other. The energy of the recoil is absorbed by the resistance which the oil offers being forced through openings past the piston and by the resistance of the counter recoil springs. The energy stored up by the springs returns the gun to firing position. This return movement is eased and regulated by the counter recoil buffer having to force the oil out of the space it formerly occupied in the piston rod. The piston rod pull and spring resistance are transmitted to the carriage, but owing to its weight and the resistance, opposed to the trial spade by

projectile being 15 pounds. Shrapnel is used against animate objects unprotected by defensive obstacles, and consists of a steel case filled with 252 lead bullets and the interces filled with a smoke producing matrix. When it bursts the bullets are projected into space, without rupturing the container, and at an additional velocity of 274 feet per second. The shell is steel case, filled with high explosive, which bursts on impact only; the entire case being disrupted and its fragments being hurled in all directions. The High explosive shrapnel is a combination of the two, being used as either shell or shrapnel. In order to train the A. and M. student in the duties of Artillery Officers, he is given class room work covering the theory of the subjects required, and, in addition he will receive practical work in the handling of horses, tractors; and the Artillery

cally by means of the actual use of the different instruments, consisting of metre base range finder, Sciasor glasses, aiming circles, etc.

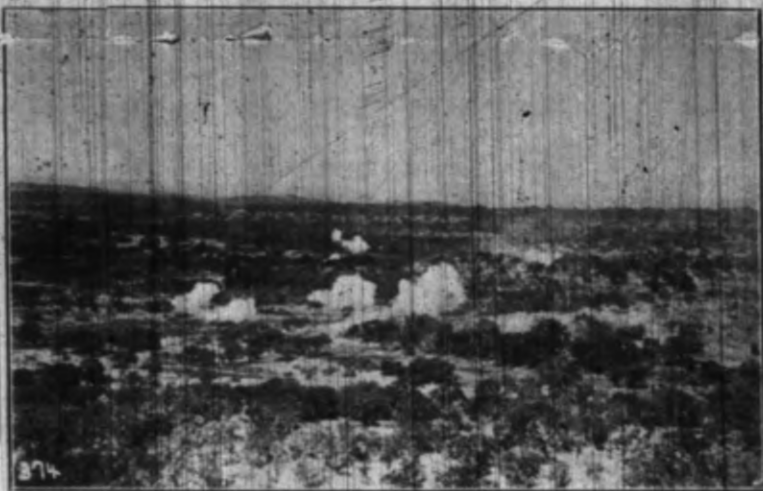
Horsemanship is taught on the field. The student is taught to ride and drive artillery teams hitched to the Artillery carriages.

The College authorities and the War Department believe that a student is accomplishing two missions when he completes the four year course in Military training. First, he demonstrates his patriotism and second, he betters himself physically, mentally, and in a disciplinary way for the great problems that are to confront him in future years. By accepting the Reserve Corps Com-

mission tendered him at the successful completion of his college course, he proves he is ready and willing to serve his country in case of trouble, and also makes it unnecessary for him to attend the preliminary three months training in an officers training camp but is assigned at once to duty with a regiment.

Texas A. and M. College is therefore ready to offer to you, in addition to the regular college work, a thorough military training in either Infantry, Field Artillery, Signal Corps, or Motor Transport service, and it is hoped that in the very near future Cavalry will be added.

Can this be equaled any other place?



SECTOR IN FRANCE.

the earth the carriage remains stationary.

The instruments for laying the piece consists of the panoramic sight, the sight shank of the left of the gun and the Quadrant the right of the piece. By means of these instruments a gun can be completely masked from view of the enemy and by means of laying on some object not the target, and any where in direction, with the proper data calculated and laid off on the instruments, the piece will be properly directed on the target correct for direction, range and difference in elevation.

A fuze setter is attached to the caisson chest, (the carriage fitted to carry the ammunition for one gun). This fuze setter is for the purpose of setting the fuzes on the shrapnel so that the shrapnel will burst at any desired point on the trajectory, from the muzzle of the piece to the ground at the target.

The ammunition used is the Shrapnel, Common shell, and High explosive shrapnel. The weight of the

material. His firing instruction will be taught by means of an electrical smoke bomb outfit, which gives the student all the results of firing a real battery, minus the noise, expense, and danger of bursting projectiles. When he has qualified in this work, he is taken thru a course of subcaliber practice. This consists of inserting in the bore of the piece a small tube fitted to take the Infantry cartridge. The student then conducts the fire of the battery in the same manner as though firing service ammunition, at the cost of \$20.00 per round. After the completion of this practice, the student will then be given the final firing instruction, which is Artillery target practice with service ammunition. Here the student will actually operate and control a war machine of great power and efficiency, and it should be the proudest day of his career, and this is a fit reward for efficiently performed work in the elementary Artillery work.

The fire control is taught practi-

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