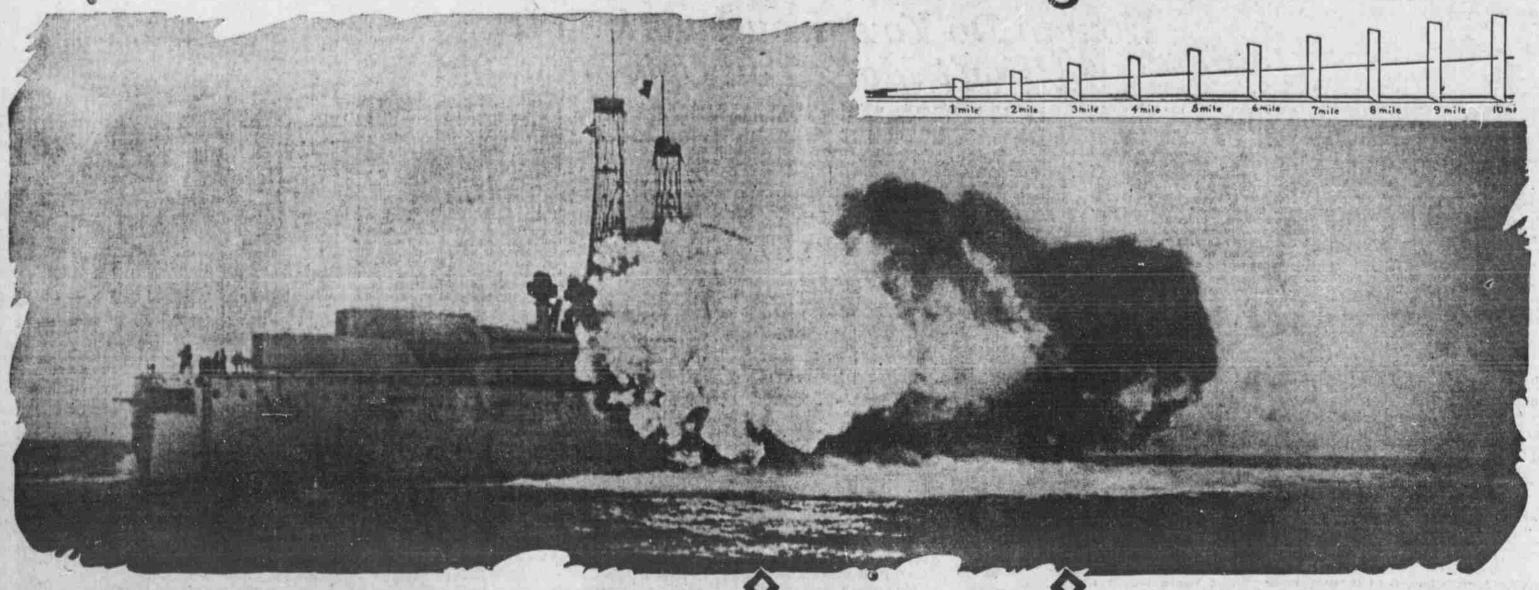
THE OMAHA SUNDAY BEE MAGAZINE PAGE

How We Smashed the World's Big Gun Record



of the Most Remarkable Photographs Ever Taken, Showing the Dreadnought Arkansas Firing a Big Guns During the Recent Target Practice Off the Virginia Capes, in which the World's Big Was Made. The Diagram Shows Why the Record, which Was Made On a Small Target at One Mile,

board the battleship New Hampshire fired four twelveshells at a moving target six distant and scored four hits. feat was accomplished in one schievement was regarded as phe-asmenal. It broke all previous recof our own gunners, and no

A few weeks ago, during elemen-tary target practise off the Virginia capes, the gunners on the dread-nought Arkansas made an even more remarkable record. Firing at a moving target only twelve feet high and twenty-one feet wide, the target moving at the rate of five knots and the battleship at ten knots, one of the big twelve-inch guns fired six shots in fifty-seven seconds and

While the range was only a little over a mile in contrast to the range of six miles in the case of the New Hampshire's previous record, the target was proportionately smaller, and the achievement of the Arkansas' gunners is therefore regarded as clearly establishing the world's record for rapid deepsea big gun

firing at a moving target.

The full significance of this feat will be better understood when it is remembered that the test was started with the gun unloaded. At a given signal shell and charge were brought from below and served to the gunners in the turrets, the guns were served and trained on the target, and when the range was de-termined and the psychological mo-ment for the discharge of the gun arrived the word to fire was given and the first shell was sent crashing at the moving target over a mile

away.
Almost before it reached its goal. the big gun, still reverberating from the shock of the last discharge, was loaded again with a fresh charge of powder and shell, again the distance of the target, the the target, the velocity of the wind and the various other factors upon which accurate shooting de-pends were determined and the word to fire was given a second time.
Again the shell sped true and found
its mark. Five times this feat was
repeated, and the total time which elapsed from the moment the gun was supplied with its ammunition for the first shot until the sixth shot was fired was less than a minute—

to be exact, fifty-seven seconds!

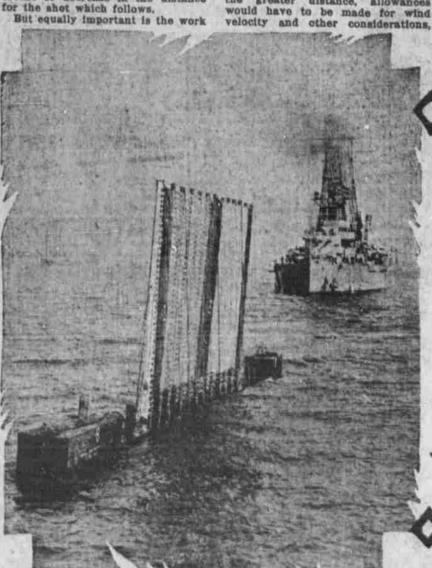
Such rapid work as that would, of course, have been out of the question but for the perfect team work which characterizes target practise on board our battleships. Not only the men participating in the actual firing of the guns but every soul on board is, to a certain extent, conboard is, to a certain extent, concerned in the general result. Ever the cooks, stewards, barbers, must clans and other members of the ship's complement who might otherwise be regarded as supernumeraries, have more or less important functions to perform during target practise. Each occupies what is known as his "battle-station," and

the slightest deviation from what is expected of even these minor operatives may directly or indirectly result in reducing the efficiency of the gun crews and spoiling the general result. Shooting straight on a bat-tleship is the work not merely of the turret crew but of the whole ship's complement They constitute a single team.

Of course, the function of the sight-setter is of the utmost impor-Unless he sets his sight accurately, the gun-pointer's work counts for nothing. The sight-set-ter receives his directions from the "spotters" of the fore-control party stationed in the cage-like masta which distinguish American battle-ships from those of other nations. These "spotters" watch the splash, or fan, of each shot and order an increase or decrease in the distance

of the gun-pointer, who follows the target in his telescope, and of the gun trainer, the man who swings the turret right and left, always following the target.

To return to the record made by the Arkaneas, the fact that the din-tance was only 1,800 yards com-pared with the range of six or seven miles, in the case of the regular Winter battle practise tests, does not in any way diminish the excelmatter to demonstrate that the gun ner who can hit a target twelve feet high at a distance of a mile would be able to hit a target 120 feet high at a distance of ten miles, provided the charge was powerful enough to send it that distance, and in the regular battle practise the larger targets are used. Of course, in firing the greater distance, allowances



This Is the Target, Only Twelve Feet High and Twentyone Feet Wide, Which Was Struck Six Times in Fifty-seven Seconds by Six Shells Fired from a Single Twelve-inch Gun. The Remarkable Feature About This Feat Was That the Target Was Moving at the Rate of Five Knots and the Arkansas at the Rate of Ten Knots When the Shots Were Fired.

ature by artificial means,

Remarkable Photographs Showing How the Dreadnought Arkansas Hit a Twelve-foot Moving

Target a Mile Away Six Times in Fifty-Seven Seconds

American Navy. They Are Made of Soft Steel and Are Constructed In Such a Way That Three-fourths of Them May Re Shot

Away Without Demolishing Them.- The Fighting Mast is One of the Most Vital Parts of a Battleship. It is from This Vantage Point That the Firing of All the Big Guns is Con-

The Fighting

Mast on Board

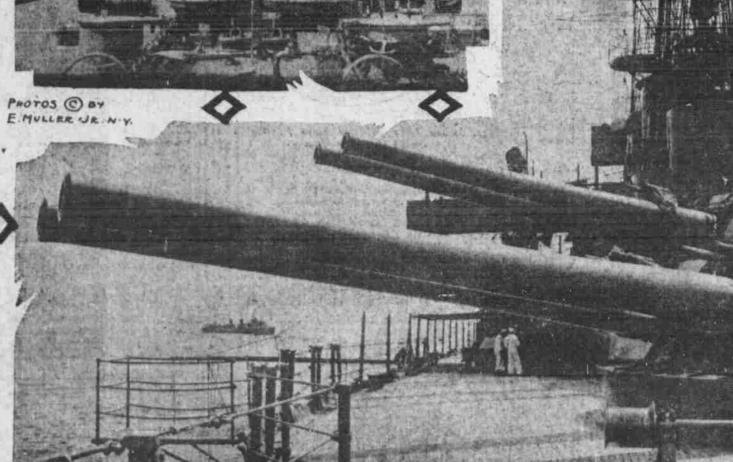
the Arkansas. These Fighting Masts Are Char-

acteristic of the

but such computations are readily For the purpose of target practise

special shells, known as "blind" shells, are used. A regular twelveinch shell costs from \$225 to \$250. and a full charge of powder to fire it costs about \$203. But the special shell used for target practise costs only \$36 and the powder used to send the shell a distance of a mile or so costs only a little more than \$100. To establish the world's record cost the Arkansas, by actual computation, just \$966.

The powder used for these tests, while perfectly good for immediate use, is of the kind which has about lived its life and which would, within a few months, so deterioriate as to become worthless.



I welve-inch Guns on Board the Dreadnought Arkansas, Which Made the World's Record. The Shells Used Are Specially Made for They Are Called "Blind" Shells. The Powder Charge Costs Considerably Less Than That Used in Actual Warfare.

Why Twins Grow Faster and Better

DECENT scientific investigations seem to establish the fact that twins or triplets brought up together will each grow faster and better than one child

brought up alone. In the case of various small animals with which interesting experiments have been made it has been found that they grow much more rapidly when not kept separate. One investigator beneves this had to the fact that two or more little animals cudding close to the fact that two or more little animals cudding close together do not have to develop so much bodily heat

as if they were kept alone, and are therefore able to turn more of the energy value of their food into

Another theory is that the faster growth is not a matter of heat, but simply due to the fact that animals

brought up together are less restless, sleep better and are more comfortable generally.

As one scientist points out, the cuddling theory would hardly apply to twins or triplets brought up in homes where their bodies are kept at a proper temper-

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