

Building a Website for World War I



Dr. Erik B. Villard, Digital Military Historian, CMH

Site template

**Era Icon
Button**

**Navigation
Bar 1:
Narrative**

**Navigation
Bar 2:
Resource**

Calendar and Map

Social Media Links

Javascript Lightbox viewing screen

**Narrative
Button 1**

**Narrative
Button 2**

**Narrative
Button 3**

**Narrative
Button 4**

**Resource
Button 1**

**Resource
Button 2**

**Resource Button
3**

**Resource
Button 4**

**Resource
Button 5**

Main Interface

1917 Springfield rifle rounds

4:3 ratio "card" system



Wood grain texture from 1917 Springfield rifle

Rifle sling texture



Slide Counter

Lightbox Controls

Download Slide

Exit Lightbox

1/5

Zoom In/Out

Auto Slideshow

Full Screen

Back

Forward

Prologue: The World War 1 Centennial Program
Section 2: The Historical Plan for the WWI website



The WWI Era

The Historical Plan for the CMH WWI website

1. CMH will tell the story of the US Army in World War 1 with the release of new historical content (a combination of original documents, photographs, maps, and audio/video clips) every month, week, and day via the website and through social media channels.
2. The story of the US Army in WWI will be told in four parts organized into thirty chapters.
3. CMH will publish one chapter each month from January 2017 to May 2019, with the events of that chapter designed to coincide as closely as possible to the historical events that occurred a century earlier.



Part 1: The Pre-War Army, Jan 1903-Mar 1917

Four Chapters: Dec 2016-Mar 2017

Part 2: Preparing for War, Apr-Nov 1917

Eight Chapters: Apr 2017-Nov 2017

Part 3: On the Western Front, Dec 1917-Nov 1918

Twelve Chapters: Dec 2017-Nov 2018

Part 4: Post-War Duties, Nov 1918-Jan 1923

Six Chapters: Dec 2018-May 2019

1

US Army Center of Military History



Slide Gallery View

Slide Gallery Toggle On/Off





The Historical Plan for the CMH WWI website

1. CMH will tell the story of the US Army in World War 1 with the release of new historical content (a combination of original documents, photographs, maps, and audio/video clips) every month, week, and day via the website and through social media channels.
2. The story of the US Army in WWI will be told in four parts organized into thirty chapters.
3. CMH will publish one chapter each month from January 2017 to May 2019, with the events of that chapter designed to coincide as closely as possible to the historical events that occurred a century earlier.



Part 1: The Pre-War Army, Jan 1903-Mar 1917

Four Chapters: Dec 2016-Mar 2017

Part 2: Preparing for War, Apr-Nov 1917

Eight Chapters: Apr 2017-Nov 2017

Part 3: On the Western Front, Dec 1917-Nov 1918

Twelve Chapters: Dec 2017-Nov 2018

Part 4: Post-War Duties, Nov 1918-Jan 1923

Six Chapters: Dec 2018-May 2019



Part 1: The Pre-War Army, Jan 1903-Mar 1917



Chapter 1: Army Reforms (Jan 2017)

- Reorganization of the Army, 1903-16

Chapter 2: The Pre-War Regular Army (Jan 2017)

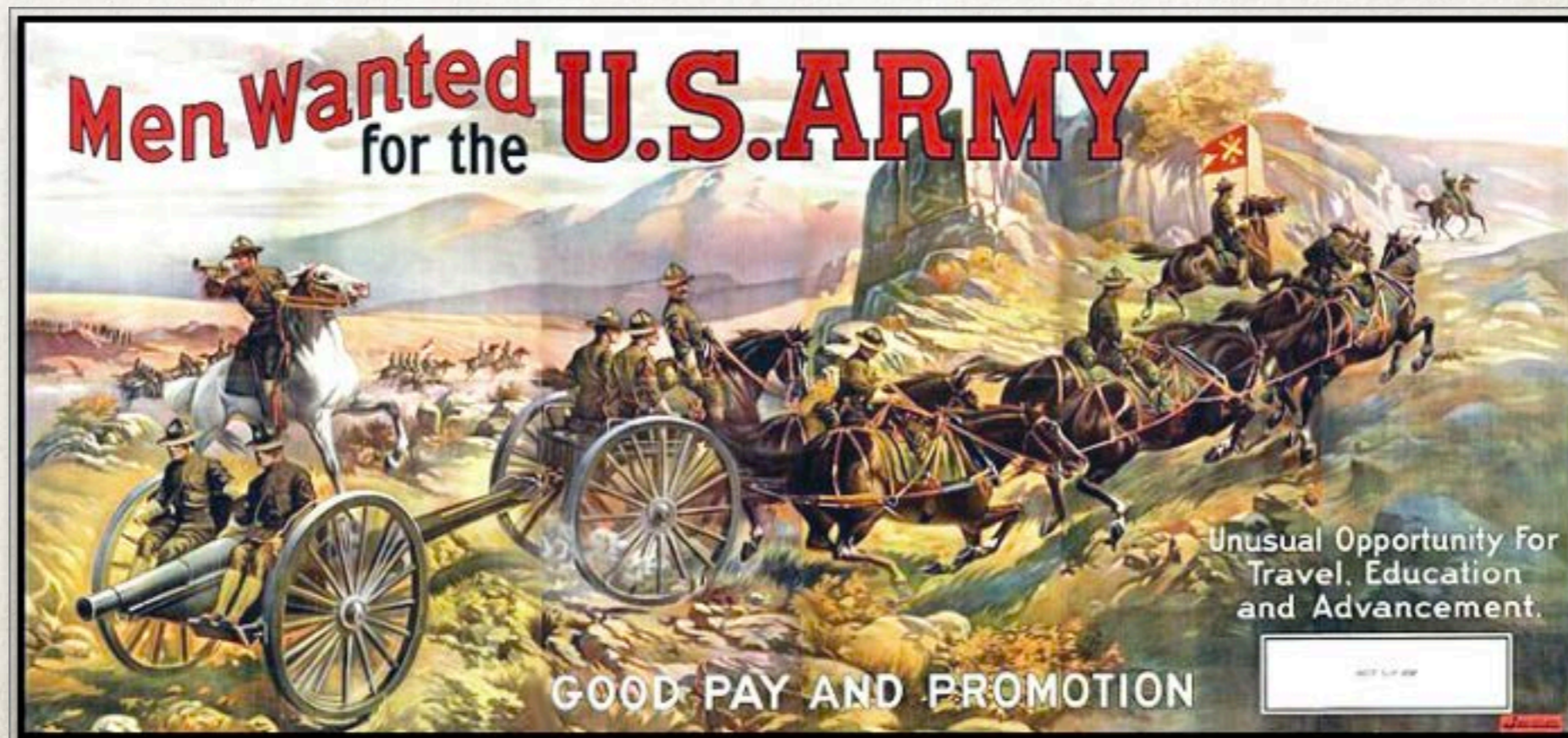
- Army life, training, equipment, installations 1903-16

Chapter 3: Citizen Soldiers (Feb 2017)

- National Guard and Coast Artillery, 1903-16

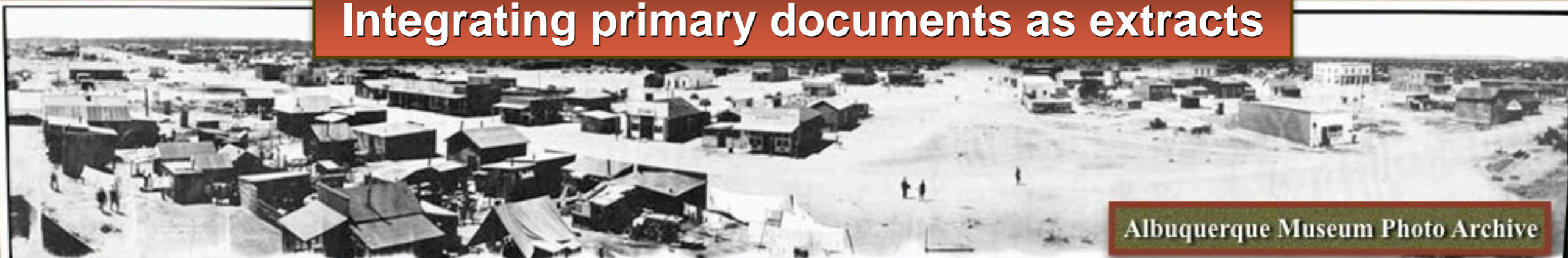
Chapter 4: Interventions in Mexico (Mar 2017)

- Expeditions of 1911, 1914, and 1916





Integrating primary documents as extracts



Albuquerque Museum Photo Archive

Excerpt from The Punitive Expedition Report by Maj. Gen. John J. Pershing, 10 October 1916

March 8,- The Villa forces left the Bocas Grandes Ranch Camp at 5:00 p.m., March 7, and followed a trail leading almost due north for about six miles, thence east for three miles to a ravine, arriving there at about 10:30 p.m. The purpose of this move was to eliminate the chances of their presence being known. Lieut-Colonel Gipriano Vargas, of Villa's staff and one other officer were detached on patrol duty during the afternoon to proceed to Columbus, for observation purposes. The advisability of attacking Columbus, N.M., was discussed by the leaders in view of the escape of the three cow-boys from the Bocas Grandes Ranch and the probability of their warning the garrison. Villa has already disclosed his attitude as opposed to proceeding with the expedition. Villa has decided on no definite plan as yet and awaits the return and report of Vargas. The dry camp in the ravine was left at about 5:00 a.m., and after an hour's march in a southeasterly direction the Bocas Grandes River was reached at a point about five miles east of Bocas Grandes Ranch, near the junction of the Bocas Grande-Palomas road and river, where camp was made. At about noon the Vargas' patrol arrived with the information that the American garrison at Columbus consisted of only about thirty men, that at 3:30 a.m. that morning he had no encountered outguards and that no one had been seen enroute. Despite this favorable report of the condition at Columbus, Villa was undecided, fearing that the attack, if made, would not be the surprise he had planned. Many of the other leaders were also opposed to the attack, but remained mute construing their Chief's opposition to the attack as a feint to test their own courage. Villa being pressed for a decision by a number of leaders who favored the attack, at about 2:00 a.m. consented to attack Columbus at daylight March 9; the necessary orders for the march were issued and the plan of attack discussed by the assembled leaders.



Col. H. J. Slocum,
commander of the 13th U.S.
Cavalry stationed at
Columbus in March 1916

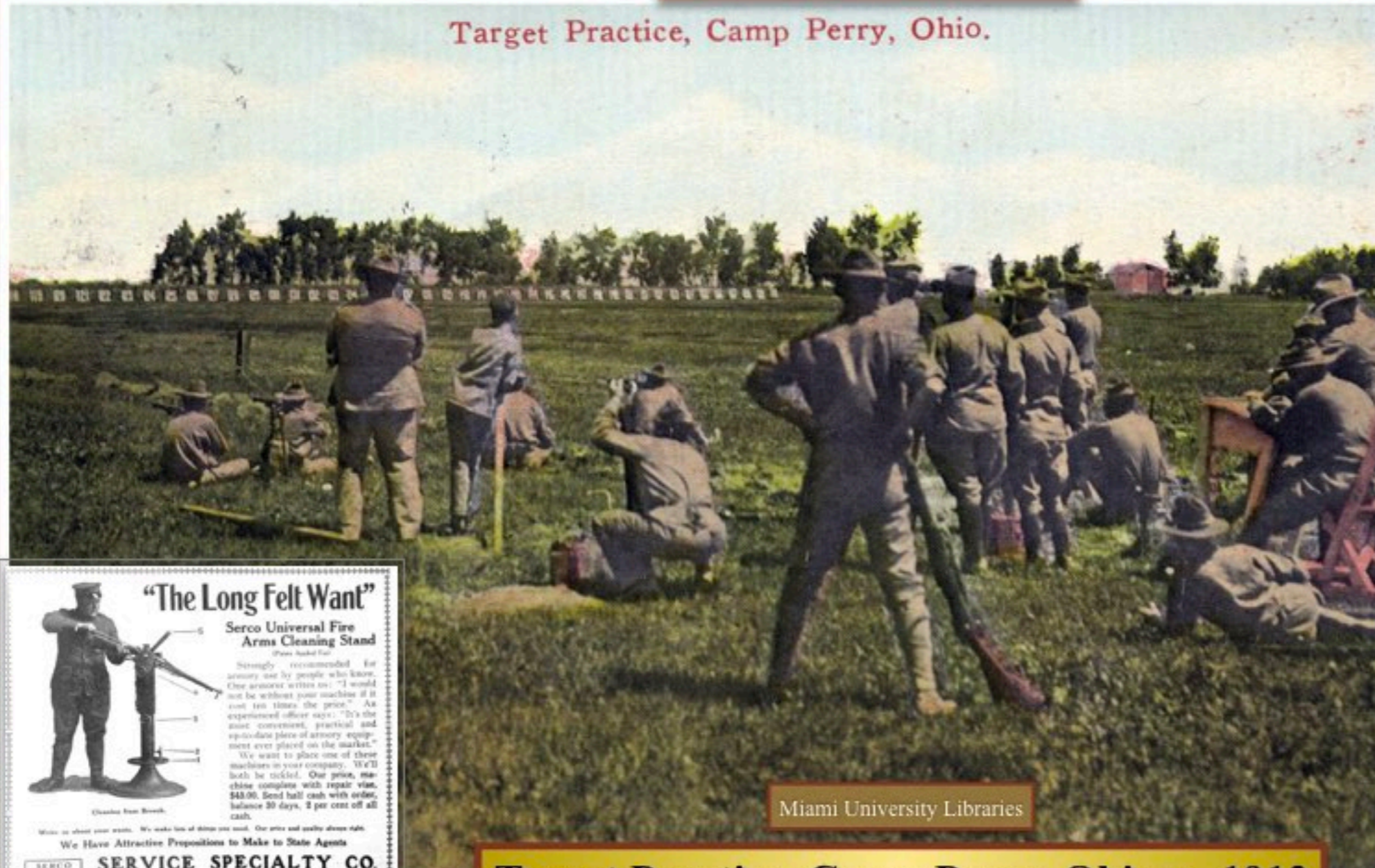


Mixing newspaper ads/articles with photos



Camp Perry, Ohio, c. 1913

Target Practice, Camp Perry, Ohio.



Miami University Libraries

Target Practice, Camp Perry, Ohio, c. 1913

"Best Cleaning Material I Know Of."
 Capt. C. B. Winder, Inspector Small Arms Practice,
 Ohio National Guard.

**SUPERIOR
 NITRO
 POWDER SOLVENT
 NO. 2**

FOR CLEANING HIGH POWER
 RIFLES, SHOT GUNS and
 REVOLVERS.
 PREVENTS RUST
 REMOVES RUST

Tested and Endorsed by most prominent officers of America.
 Superior Solvent of all high power powder as the market.
 Will not attack or rust the barrel, prevents rust if left in barrel.
 This solvent will dissolve the oil of the barrel to such an extent which is more or less porous to the
 enemy and should be used immediately after the day's shooting.
 The use of a rifle is complicated by the oil.
 Rusting is caused during shooting, and without the use of this solvent the rifle will soon
 be useless. The use of this solvent will keep the rifle in such a condition that it will give you the
 best of your shooting every day's shooting.
 The success of military operations can often be decided by the condition of the rifle.
 SOLD BY DEALERS IN GUN AND SPORTING GOODS, AND AT POST EXCHANGES.

FRANK A. HOPPE,
 1741 N. DARIEN ST., PHILADELPHIA.

**Put This Sight
 On Your Gun**

Stop missing those "only chance"
 shots at big game. Stop wasting
 ammunition. Get the sight
 that's always in
 position for correct
 shooting. Does not
 lock up but yields when struck.
 Automatically flies back to place. Cannot be injured
 by blows or knocks. For greatest accuracy and quickest
 work in any light—with any eyes, peep sights are acknow-
 ledged best by more than a hundred thousand sportsmen.

Marble's Flexible Rear Sight

has no equal. It can be locked down when not in
 use. Raised instantly when wanted. Spring guar-
 anteed not to weaken no matter how long folded.
 Get our Folders: "Peep Sights vs. Open
 Sights" and "Letters from Users."
 Marble's Improved Front Sight enables you to
 hold "over" and yet see objects. You can make
 shots at any range without stopping to adjust
 rear sight. Best for running shots.
 Ask your dealer. Sample Nitro-
 Solvent Oil for his name. Get
 catalog of Marble's 60 "Outing
 Specialties" and Game Getter Gun.

MARBLE ARMS & MFG. CO.,
 561 Delta Ave., GLADSTONE, MICH.



"The Long Felt Want"

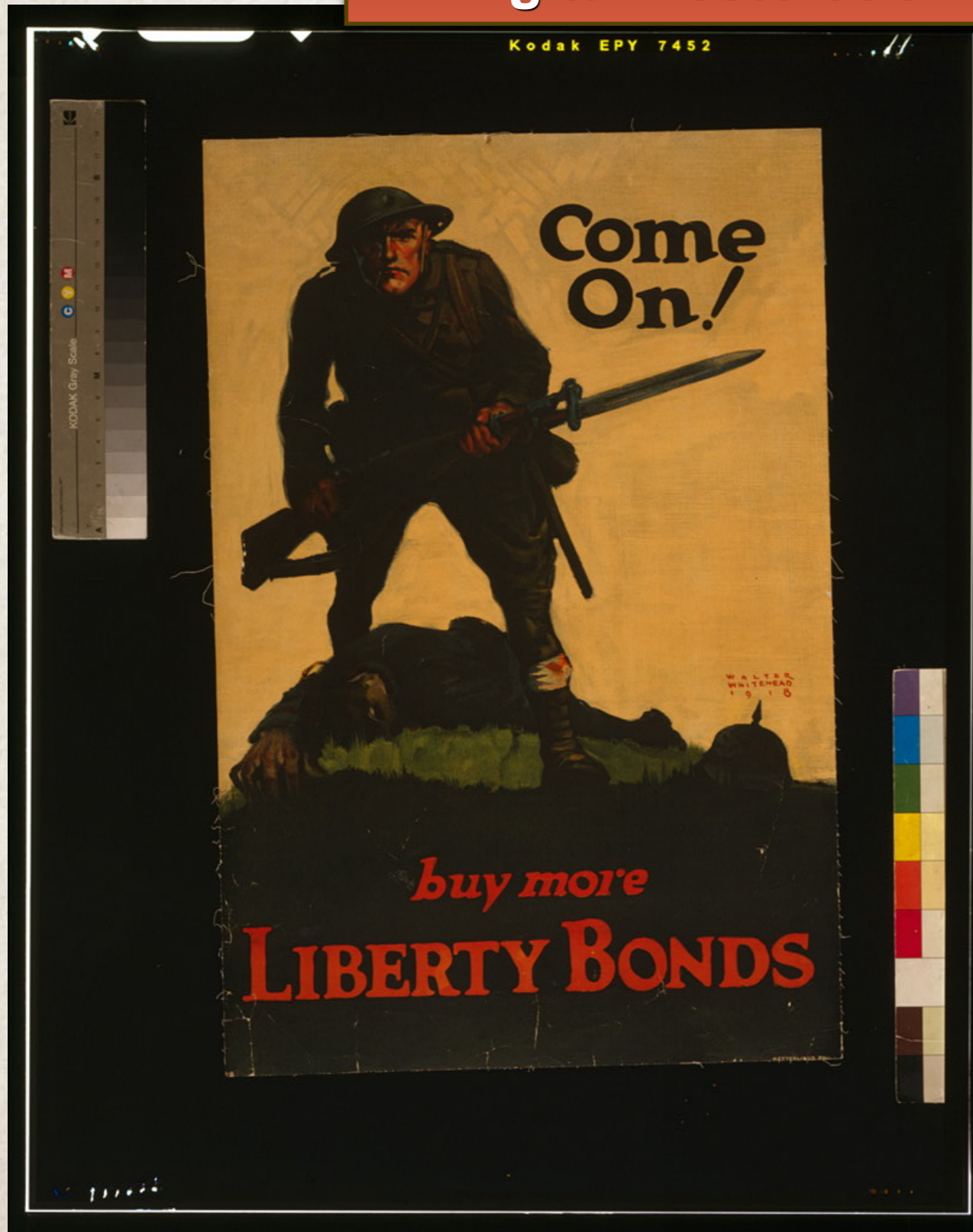
Serco Universal Fire Arms Cleaning Stand

Strongly recommended for
 armory use by people who know.
 One armorer writes us: "I would
 not be without your machine if it
 cost ten times the price." An
 experienced officer says: "It's the
 most convenient, practical and
 up-to-date piece of armory equip-
 ment ever placed on the market."
 We want to place one of these
 machines in your company. You'll
 both be tickled. Our price, ma-
 chine complete with repair vial,
 \$43.00. Send half cash with order,
 balance 30 days, 2 per cent off all
 cash.

Write us about your wants. We make lists of things you need. Our prices and quality always right.
 We Have Attractive Propositions to Make to State Agents
SERCO SERVICE SPECIALTY CO.
 Manufacturers of Military Supplies and Supplies and Gunsmith Supplies and Accessories
 Armory Equipment 469 State St., SCHENECTADY, NEW YORK



Digital Restoration and Enhancement





Data Tables

States, or District.	Regiments of Infantry.	Cavalry.	Field Artillery.	Engineers.	Signal Corps.	Sanitary troops.		Strength.	
								Peace.	War.
Alabama.....	1st, 2d, 4th.....	1st Regiment.....	Batteries A, C.....		1st Company.....	Ambulance Company.....	Field Hospital.....	4,410	7,616
Arizona.....	1st.....							990	1,915
Arkansas.....	1st, 2d.....							1,980	3,830
California.....	2d, 5th, 7th.....	1st Squadron.....	1st Battalion.....	Company A.....	Company B.....	Ambulance Company 1.....	Field Hospital 1.....	3,956	7,125
Colorado.....	1st, 2d.....	do.....	do.....	Companies A, B.....	Company A.....	do.....	do.....	1,558	2,621
Connecticut.....	1st, 2d.....	Troops A, B.....	10th Regiment.....		1st Company.....	1st Ambulance Company.....	1st Field Hospital.....	3,222	5,643
Delaware.....	1st, 2d.....							551	1,158
Dist. of Columbia.....	1st, 3d.....	Troop A.....	Batteries A, B.....		Company A.....		Field Hospital.....	1,731	3,104
Florida.....	2d.....						1st Field Hospital.....	1,028	1,988
Georgia.....	1st, 2d, 5th.....	2d Squadron, Troop A.....	1st Battalion.....				Field Hospital 1.....	3,823	6,891
Idaho.....	2d.....							990	1,915
Illinois.....	1st, 2d, 3d, 4th, 7th, 8th.....	1st Regiment.....	1st Regiment.....	Company A.....	Company A.....		Field Hospitals 1, 2.....	8,108	14,395
Indiana.....	1st, 2d, 3d.....		1st Battalion.....		do.....	Ambulance Companies 1, 2.....	do.....	3,656	6,691
Iowa.....	1st, 2d, 3d.....	1st Squadron.....	do.....	Company A.....		Ambulance Company.....	Field Hospital.....	3,874	7,043
Kansas.....	1st, 2d.....	Troop A.....	Battery A.....		Company A.....			2,268	4,191
Kentucky.....	1st, 2d, 3d.....				do.....	1st Ambulance Company.....	Field Hospital 1.....	3,143	5,988
Louisiana.....	1st.....	2d Separate Troop.....	Battalion Washington Artillery.....				do.....	1,528	2,611
Maine.....	2d.....							990	1,915
Maryland.....	1st, 4th, 5th.....	Troop A.....	Battery A.....			Ambulance Company 1.....	Field Hospital 1.....	3,267	6,185
Massachusetts.....	2d, 5th, 8th, 9th.....	1st Squadron.....	1st Regiment.....		1st Battalion.....	Ambulance Companies 1, 2.....	Field Hospitals 1, 2.....	5,561	9,762
Michigan.....	1st, 2d, 3d.....	Troops A, B.....	Batteries A, B.....	Company A.....	Company A.....	do.....	Field Hospital 1.....	3,674	6,801
Minnesota.....	1st, 2d, 3d.....		1st Regiment.....					3,966	7,055
Mississippi.....	1st.....							990	1,915
Missouri.....	1st, 2d, 3d, 4th.....	Troop B.....	1st Battalion.....		Company A.....	Ambulance Company 1.....	Field Hospital 1.....	4,633	8,556
Montana.....	2d.....	Troop A.....						1,058	2,018
Nebraska.....	4th, 5th.....				Company A.....		Field Hospital 1.....	2,100	3,985
New Hampshire.....	1st.....	Troop A.....	Battery A.....		do.....		do.....	1,316	2,349
New Jersey.....	1st, 4th, 5th.....	1st squadron.....	Battalion.....		1st Company.....	1st Ambulance Company.....	1st Field Hospital.....	3,885	6,954
New Mexico.....	1st.....		Battery A.....					1,128	2,091
New York.....	2d, 3d, 7th, 12th, 14th, 23d, 69th, 71st, 74th.....	1st Regiment, Squadron A, M-G Troops.....	1st, 2d, 3d Regiments.....	22d Regiment (6 companies); 2 separate companies.....	1st Battalion Aero Company.....	1st, 2d, 3d, 4th Companies.....	1st, 2d, 3d, 4th Field Hospital Companies.....	12,820	22,665
North Carolina.....	1st, 2d, 3d.....	Troops A, B.....		Companies A, B.....		Ambulance Company 1.....	Field Hospital 1.....	3,339	6,454
North Dakota.....	1st.....							990	1,915
Ohio.....	2d, 3d, 4th, 5th, 6th, 8th.....	1st Squadron.....	1st Battalion.....	1st Battalion and Company D.....	1st Battalion.....	1st, 2d Ambulance Companies.....	1st, 2d, 3d Field Hospitals.....	7,373	13,727
Oklahoma.....	1st.....	Troops A, B.....		Company A.....		Ambulance Company 1.....	Field Hospital 1.....	1,283	2,449
Oregon.....	3d.....	Troop A.....	Battery A.....					1,196	2,194
Pennsylvania.....	1st, 3d, 4th, 6th, 8th, 10th, 13th, 16th, 18th.....	1st Regiment.....	1st, 2d, 3d Regiments.....	Companies A, B, C.....	1st Battalion.....	Ambulance Companies 1, 2.....	Field Hospitals 1, 2.....	13,304	23,148
Rhode Island.....		Troops A, B, C, M.....	Battery A.....			Ambulance Company 1.....		496	876
South Carolina.....	1st, 2d.....	Troop A.....		Company A.....			1st Field Hospital.....	2,157	4,177
South Dakota.....	4th.....							990	1,915
Tennessee.....	1st, 3d.....	Troops B, C, D.....				Ambulance Company 1.....	Field Hospital 1.....	2,270	4,296
Texas.....	2d, 3d, 4th.....	1st Squadron.....	Battery A.....	Companies A, B.....			1st Field Hospital.....	3,603	6,756
Utah.....		1st and 2d squadrons.....	1st Battery.....				do.....	796	1,081
Vermont.....	1st.....							990	1,915
Virginia.....	1st, 2d.....	1st Squadron.....	1st Battalion and Battery C.....	Company A.....	Company A.....		Field Hospital 1.....	3,051	5,298
Washington.....	2d.....	Troop B.....			do.....			1,140	2,100
West Virginia.....	2d.....							990	1,915
Wisconsin.....	1st, 2d, 3d.....	Troops A, B.....	Battery A.....				Field Hospital 1.....	3,287	6,204
Wyoming.....	1st, 2d.....							554	1,158
								140,016	254,814

National Guard Organization, 1912





Mixing newspaper headlines with primary sources

The leaders were charged with their own wounded, and as these arrived from the town they were strapped and tied to their mounts. Cervantes joined at about 7:30 o'clock a.m., when the retreat of the Villistas into Mexico began in earnest, but with great confusion. Villa, in person, with an escort of about thirty men occupied a

16 AMERICANS SLAIN BY BANDITS
IN ATTACK ON COLUMBUS, N. M.

The

Evening

World.

FINAL
EDITION

Fair and colder to-night; Saturday clear and warm.

"Circulation Books Open to All."

"Circulation Books Open to All."

PRICE ONE CENT.

Copyright, 1916, by The News Publishing Co. (The New York World).

NEW YORK, FRIDAY, MARCH 17, 1916.

22 PAGES

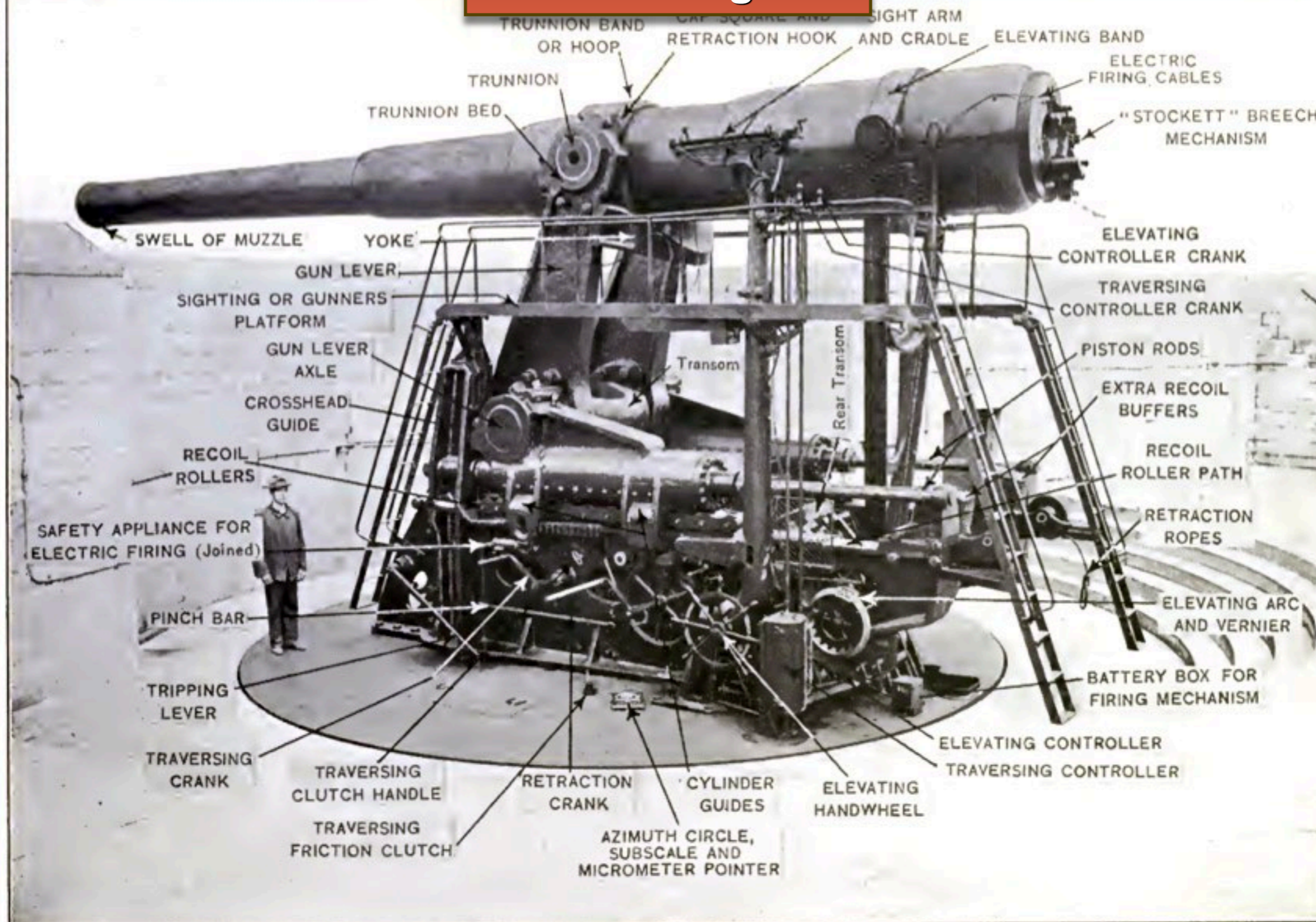
PRICE ONE CENT.

VILLA SCATTERS HIS BANDITS; CLASH AT THE BORDER FEARED

ridge about three miles southeast of Columbus in order to cover the retreat of groups that had been delayed. The retreat was continued to the north bank of the Bocas Grandes River at a point about one mile west of Vade de Fusiles, which was reached at about 1:00 p.m. Orders for a halt were here given; the horses were unsaddled and an effort made to check the losses. Villa, in person, made the check assisted by Manuel Baca and Ramon Tarango; he there announced that about one hundred men were unaccounted for as killed, wounded or missing. Twenty-six wounded had been brought away and among them were "General" Pablo Lopez and Lieut-Colonel Chavez; both were so seriously injured that they had to be carried on litters. Chavez was thought to be especially in a critical condition; the bullet having lodged on his left side. Villa himself extracted it with his pocket knife. The march was resumed at 2:30 o'clock p.m.



Technical diagrams



12-inch B. L. Rifle M. 1900. Mounted on D. C. L. F. M. 1901. "In Battery" (Firing Position);



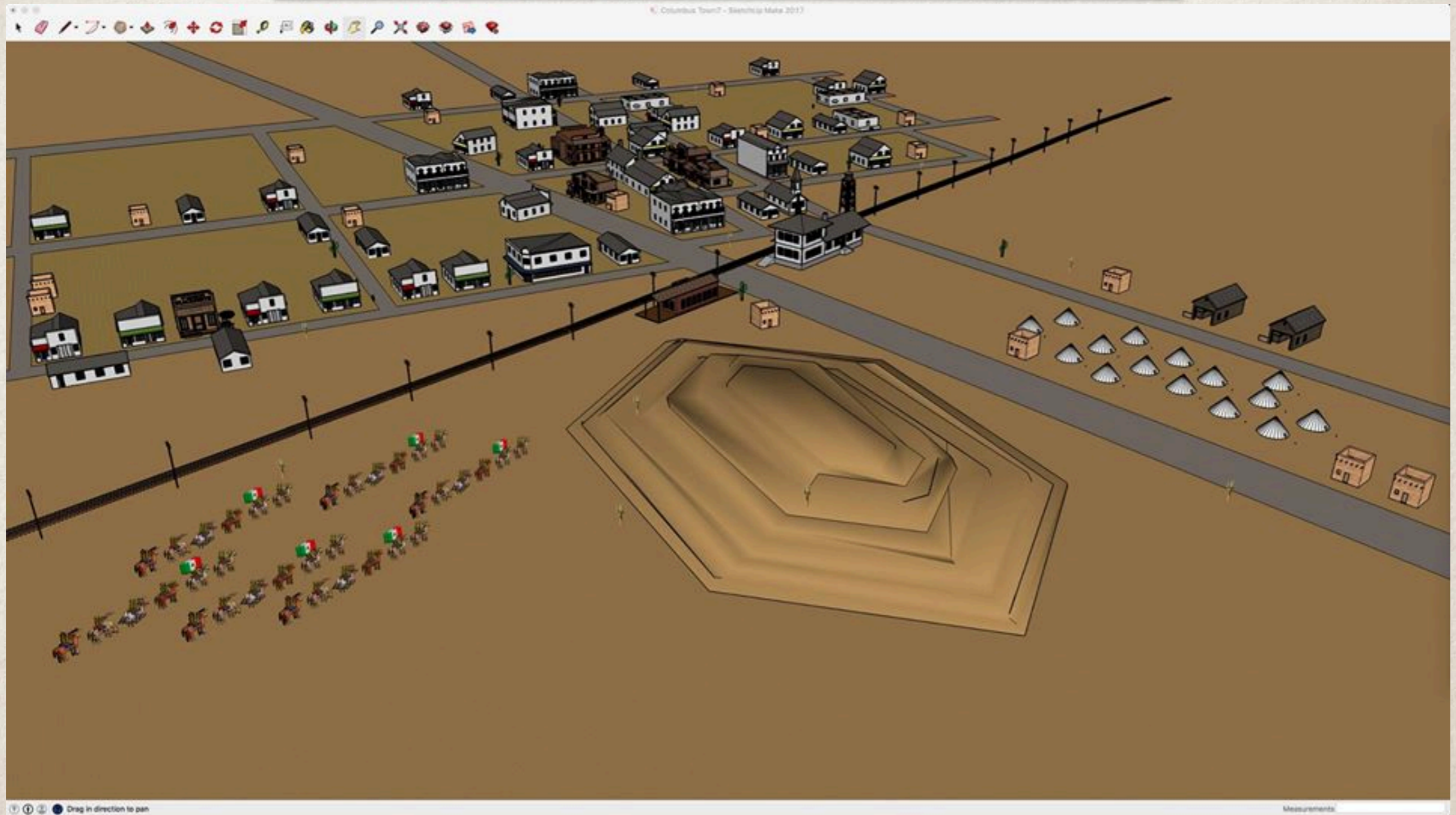
Archival Video from NARA/LOC

Chemical Warfare Training, 1918-1919





Detailed 3-D Environments





Detailed 3-D Objects





3-D objects applied to geospatial mapping

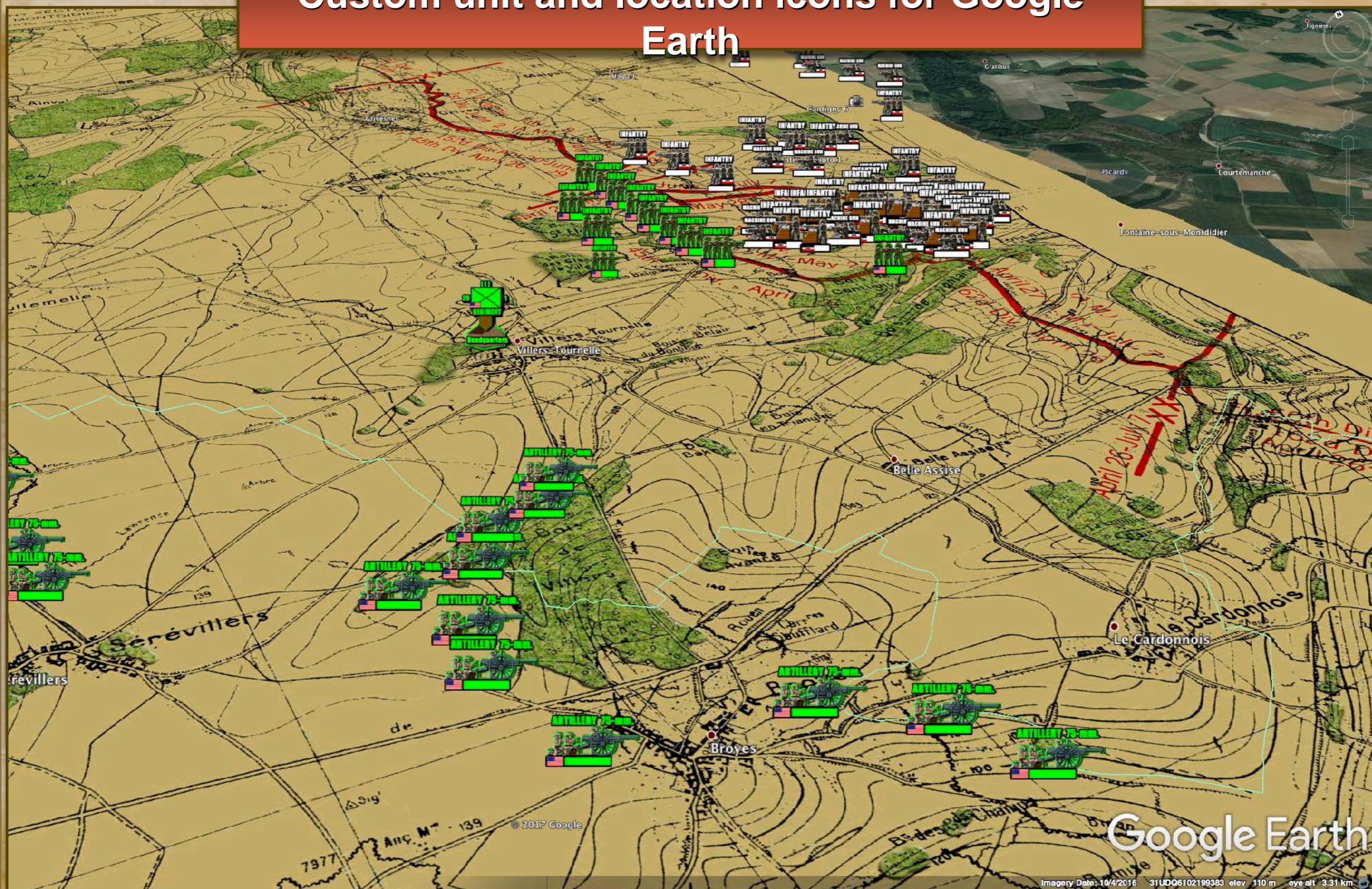
Washington Barracks (Fort McNair), 1904, with color enhanced map and simple shapes to represent buildings



Washington Barracks in 1904, with color-enhanced map and simple shapes built with Google Earth.



Custom unit and location icons for Google Earth





Embedding text in pop-up Google Earth icon balloons



Excerpt from "The 1st Division Summary of Operations in the World War"

American Battlefield Monuments Commission, 1944.

Upon completion of the first phase of training, the 1st Division was ordered, on October 6, 1917, to make the necessary arrangements with the French 18th Division, French IX Corps, for a 10-day tour in the front line for each infantry and artillery battalion. While occupying the front line, each battalion was to become an integral part of the regiment with which it was serving. [6]

On October 20, in accordance with these orders, the 1st Battalions of the four infantry regiments of the division entered the Sommerviller Sector, in Lorraine, about 30 kilometers east of Nancy. It was while in this sector that the first German raid against American troops was made. In the course of this raid the first American soldiers were killed in action in a front-line engagement of the World War and the first American soldiers were taken prisoner by the enemy. [11]

On October 23 the first elements occupied front-line positions, relieving French units. On the night of November 2-3 the 2d Battalion, 16th Infantry, entered the front line in the subsector held by the French 77th Infantry, about 3 kilometers northeast of Bathelémont-les-Bauzemont. The order of battle was:

CENTERS OF RESISTANCE

Aero	Artois	Yser
Company G, 16th Infantry	Company F, 16th Infantry	Elements of French 77th Infantry

Company H, 16th Infantry, armed with machine guns, was distributed among the units in the subsector. [7, 8, 9, 10]

In the Artois center of resistance, Company F placed the 1st Platoon in Est trench, facing northeast, while the 2d and 3d Platoons held Boyau Nord, facing north. The 1st Platoon

placed three sentry posts of five men each about 100 meters northeast of Est trench, at P1, P2 and P3. Est trench was garrisoned by 20 men divided into three groups. The artillery support consisted of French and American units under French command. All agencies of communication, except runners, were French. French machine-gun detachments remained to the left and right of the Artois center of resistance with the mission of covering the area with flanking fire. [11]

At 2:30 a. m., November 3, enemy artillery began to fire on the Artois center of resistance. The fire was concentrated on Boyau Nord, Boyau Sud, and Est trench, and effectively isolated this locality. After 20 minutes, the fire on Est trench moved to between Raffin trench and Boyau Pin, continuing meanwhile on Boyaux Nord and Sud. [11, 12, 13, 14]

When the artillery fire shifted, a German raiding party passed through the French wire northwest of the junction of Est trench and Boyau Nord at approximately point "A". It then separated into small groups, some of which entered the trenches and proceeded through Boyau Nord and Est trench toward P1 and P2. [11, 12, 13, 14]

A group moving west in Boyau Nord killed a sentry at close quarters. It then engaged in a short fight with Americans encountered near the entrance to Raffin trench, and withdrew toward the south. A party entering Est trench drove off a group of six Americans, captured 12 others and killed two. [11, 12, 13, 14]

At P1 and P2 the garrison of five men at each post came out after the artillery fire had lifted and drove off a party of the enemy, who were presumably the raiding party from Est trench returning to their own line. [11, 14]

Several attempts by Americans to call for a friendly counter-barrage as soon as the bombardment began were overruled by French advisers, although later on, after all wire communication had been broken, rocket signals were fired. These were observed by the artillery, which fired a light barrage. However, this barrage began after the Germans had returned to their lines. Machine-gun units did not fire. [11, 12]

The total American casualties were three killed, five wounded and 12 captured. The German known loss was one wounded, who was captured. [11]

Directions: [To here](#) - [From here](#)

© 2017 Google

© 2009 GeoBasis-DE/BKG

Google

32ULU2130498487



Photo integration in Google Earth

Camera Cantigny 5 May 1918



During the battle at Cantigny, France, 28 May 1918

Google

Imagery Date: 10/4/2016

eye a

Questions?