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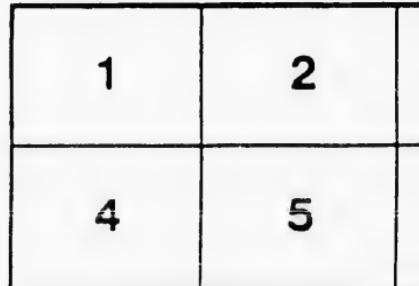
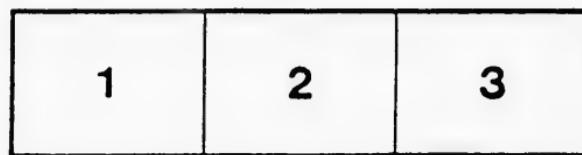
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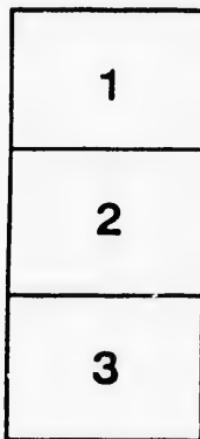
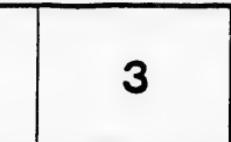
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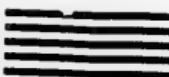
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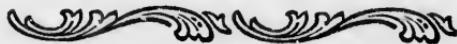
5th Regiment, Canadian Artillery.

VANCOUVER, B. C.

Detail for 64-Pdr.

R. M. L.

March, 1897.



General Duties

64-Pr. R. M. L. Converted Gun of 71 cwt.

Converted from 8 inch. S. B. of 65 cwt. by boring out and inserting rifled wrought iron tube, which is prevented from moving by screw-collar in muzzle and screw-pin through chase.

Length—Nominal. 9 ft.

Calibre—6.3 inches.

Nominal Weight—71 cwt.

Rifling—Three "Plain" grooves. Twist one in 40 calibres, uniform.

Charge—8½ lbs. R. L. G. 4.

FUZES.

Percussion—Direct Action and Royal Laboratory.
(Used with Common Shell.)

Time—15 sec. M. L. and Middle Sensitive. (Used with Shrapnell.)

PROJECTILES.

Natures.	Weight Empty. lbs. oz.	Burster. lbs. oz.	Mean Total Weight lbs. oz.
Common Shell,	57 6,	8 8, P. & F. G.	65 14
Shrapnell,	66 14,	9,	67 7
Case Shot,	49 14½

Wrought Iron Standing Carriage.

64-Pr. 71 cwt. Weight, 17 cwt. 1 qr.

The carriage consists of 2 skeleton brackets, connected by axle-trees and transom bolts ; trucks of elm, metal bushed and iron shod. Metal trucks are issued to save others. Elevating screw of ratchet head and lever pattern.

Side Sights, { 2 Tangent sights.
 { 2 Trunnion sights.

Muzzle velocity, 1260 ft. per second.

The Gun Captain commands a gun and its crew, and is responsible to the Gun Group Commander for the efficient service of his gun in all respects.

The Gun is never to be fired without his command. At practice he is responsible for the target ordered.

Reads and gives Quadrant Elevation numbers when they cannot read the marks.

When time fuzes are employed, he directs them.

The Gun Layer.—His special duty is to lay the gun. When laying at a moving target, the Gun Layer will invariably lay on the bow unless otherwise ordered by the Gun Group Commander.

He directs the elevating and traversing signals or otherwise.

He always attends to vent and make ready.

No. 2 searches, rams home, replaces up, traverses and sponges.

No. 3 loads, uncaps fuze or removes it, rams home, runs up and traverses.

No. 4 supplies side arms, runs up and fires.

No. 5 supplies wedge wads and other stores.

No. 6 attends cartridge store and supplies cartridges.

No. 7 attends shell store, fixes up projectiles.

General Duties.

Captain commands and is responsible
Group Commander for the regular and effi-
cient gun in all respects.

never to be fired without his word of
practice he is responsible that the Gun
the target ordered.

gives Quadrant Elevation to elevating
they cannot read the means themselves.

fuzes are employed, he bores or sets

Layer.—His special duty is the laying
When laying at a moving target, the Gun
riably lay on the bow waterline, unless
red by the Gun Group Commander.

the elevating and traversing numbers by
wise.

tends to vent and makes ready.

ches, rams home, replaces rammer, runs
and sponges.

s, uncaps fuze or removes safety pin,
as up and traverses.

plies side arms, runs up, elevates and

plies wedge wads and runs up.

nds cartridge store and supplies No. 3

nds shell store, fixes fuzes and brings

To Prepare for Action and Examine Gun.

Gun Group Commander

"Prepare for Action and
Examine Gun."

Gun Captain

"Prepare for Action."

At "Prepare for Action" each number brings up his
stores as follows :

Gun Layer.—Sights, tubes, tube box, lanyard,
pricker, vent service, and 6 ft. handspike, and for drill
purposes a drill tube.

No. 2.—Side arms and support, and a 6 ft. hand-
spike.

No. 3.—A 6 ft. handspike.

No. 4.—Elevating screw, 6 ft. handspike, and as-
sists No. 2 with side arms.

No. 5.—6 ft. handspike, wedge wads, and assist
No. 7.

No. 6.—Two cartridge cases, bucket filled and
brush, and for drill purposes a drill cartridge.

No. 7.—Fuzes, and fuze implements, piece of chalk,
waste, and for drill purposes a drill shell, running back
tackle and one or two selvagees.

The stores having been brought up, they will be laid
down as follows :—

Gun Layer.—Receives the tubes from the shell
store. He straps the tube box round his waist on right
side, and lays the lanyard over the cascable, placing the
loop over, and the hook through the lanyard guide.
He fixes sights, taking care that the fore-sights fit cor-
rectly, and that the deflection leaves of the hind sights
work easily. He places the pricker in the loop on the
side of carriage, examines the vent server and places it
in the vent with the loop over one of the hind sights,
and his handspike in rear of the carriage, bevel up,
clear of the recoil.

2 places the side arms on right of carriage, parallel
to gun, heads to the rear rammer nearest gun. He

places his handspike close to the carriage, point to the front, bevel up, the point to be in line with the centre of the front axletree.

3 places his handspike close to the carriage on the left side, point to the front, bevel up, the point to be in line with the centre of front axletree.

4 places the elevating screw in rear of the carriage, and his handspike inside of 2's, and about 2 feet in rear, point to front, bevel up.

5 places the wedge wads on the right of his position when under cover, and his handspike inside of 3's, and about 2 feet in rear, point to front, bevel up.

6 places the sponge bucket and brush near the sponge head and takes the cartridge case to the cartridge store.

7 places the time fuzes, hook borer, and piece of chalk in a convenient position for the gun captain. Assisted by 5, overhauls the tackles.

The **Gun Captain** now gives "*Examine Gun*," and sees :—That the gun itself is properly examined by the numbers whose duty it is to do so, and that the fuzes and fuze implements have been brought up and are ready to his hand, and that a piece of paper is placed in the gas escape hole. He receives reports from the numbers responsible of any irregularity or deficiency in connection with the different parts of the gun, carriage, stores, &c.

Gun Layer drifts the vent and replaces pricker and vent server.

2 supplies himself with a searcher and searches the gun, taking care that the pricker is not in the vent, and replaces searcher ; he then supplies himself with the sponge, sponges, and replaces it.

3 examines the bore to see that it is clear, and that the grooves are free from grit.

4 sees that the elevating gear is oiled and in working order.

2 and **3** now take a purchase with handspikes over the cheeks and under the breech (**5** doublemans 3's handspike), the quoin is withdrawn and the elevating

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screw put in by 4; the Gun Layer holding up the stool bed with a handspike applied over the bottom step of the carriage.

The Gun Captain then gives the order "*Come Up;*" 2 and 3 withdraw their handspikes and lay them down.

In laying the gun after loading, no elevating of the breech with handspikes, or movement of the quoin, should be necessary. The quoin should be properly adjusted, half way in, also the elevating screw run down till the gun is elevated two or three degrees, when preparing for action. Afterwards all elevation should be done by the screw. Should any variation of elevation greater than that obtained be required, quoins should be re-adjusted at the command "*With handspikes elevate,*" when 2 and 3 apply their handspikes (5 doublemans 3's).

After each number has completed his work as above, he goes "under cover."

The positions of the various numbers "under cover" are as follows. They should then, if possible, be sitting or lying down :—

Gun Captain—Where he can best regain his position for superintending the working of the gun.

Gun Layer—On the left of No. 4.

Nos. 2 and 4 on the right of the gun, 2 next the muzzle.

Nos. 3 and 5 on the left of the gun, 3 next the muzzle.

No. 6 outside the cartridge store.

No. 7 outside the shell store.





