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APPENDIX No. 4.

ANNUAL REPORT OF THE INSPECTOR OF ARTILLERY.

OTTAWA, December, 1887.

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To the Adjutant-General of Militia, Ottawa,

do

do

Hamilton,

Welland Canal

1st Brigade, 2 Batteries do

Camp Ottawa

do London

do Sydney

do Newcastle

Toronto

Ottawa,

London

Sydney

Newcastle

1 do

Montague, 1

1

Digby,

Pictou,

Souris,

Gaspé

do

do

do

do

1 Battery, Digby do

Montreal Brigade, 6 Batteries, Montreal

do 1 Battery, Gaspé

do

Sia,—I have the honor to report for the information of the Lieut. General Commanding the Militia, that the following Artillery Corps performed their Annual Drill as under, during the past year, and were inspected by me, or by the Assistant Inspectors of Artillery, whose reports are herewith attached:—

FIELD BATTERIES.

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Camp Niagara. - Inspected by Lieut. Colonel Irwin.

Kingston	do King	ston	do	Lieut Colonel Co	otton.
Gananoque	do d	0	do	do	
Durham	do d	0	do	do	
Winnipeg	do Winn	nipeg	do	do	
			Commanding	" B" Battery, C.A.	1.
Montreal	do	do	0	do	
Shefford	do	do		do	
Richmond	do	do		do	
Woodstock-	Camp St. A	indrew's In	aspected by L	ieut. Colonel Maur	nsell.
Carl manage and	100 To 10	GARE	ISON BATTER	ES.	
					De La La La Company of the
Prince Edwa	rd Island B		eries, Charlot	tetown, inspected	by LCol. Irwin.
Halifax Briga		6	do Halifax	do	do
Yarmouth Ba			Yarmor	th do	do
New Brunsw	ick Brigade	9, 5	do St. Joh	n do	do
No. 1, Quebe	c-Quebec-	-Inspected b	y Major Shor	t.	
2 do	do	do	do		
3 do	do	do	Lieut,-Color	el Montizambert.	
2 Lavis-	-Távis	do		do	

Major Short.

District Staff.

Camp Charlottetown—Inspected by District Staff.

do

do

do

do

do

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do

The above inspections, with the exception of those by District Staff, were conducted on the system of giving marks for each detail, according to a specified scale. This plan has been in operation for several years; its results have been extremely satisfactory, and a comparison of the credits obtained, as shown by the tabulated statement herewith, affords a convenient means of ascertaining the relative efficiency of each Corps.

I have also attached a summary of the results of the Annual Gun Practice, and

have the honor to submit the following brief notes of the several inspections :-

FIELD BATTERIES AT NIAGARA CAMP.

This Camp was formed on the 14th June, under the Command of Lieut. Col. Otter, Deputy Adjutant General, and in addition to the authorized detail of Cavalry and Infantry Battalions, comprised the Hamilton, Toronto and Welland Canal Field Batteries, and on the 17th June, was augmented by the arrival of the 1st Brigade Field Cavalry, two Batteries under the Command of Lieut. Col Macdonald.

These five Field Batteries were placed under my immediate Command and formed two Brigade Divisions under the respective Command of Lieut.-Col. Gray,

Toronto Field Battery, and Lieut.-Col. Macdonald, 1st Brigade.

The general results of this Artillery Camp were in every respect most satisfactory. The Batteries seemed to vie with each other in the efficient performance of their various drills and Camp duties, the discipline maintained was extremely good, and the union of so many Batteries enabled combined Brigade Drill to be carried out with manifest advantage.

The annual gun practice of these Batteries was carried out at Port Colborne during the Camp, each Battery detachment being 1½ days absent from Camp for this purpose. The arrangements for gun practice were under the direction of Captain Drury, "A" Battery, assisted by Lieut. Irving, Toronto Garrison Battery, and Captain Donaldson, M.S., and were very satisfactorily carried out.

The Artillery Brigade joined the rest of the Force in Camp on two occasions, but for parade purposes only, on future occasions it is to be hoped that some combined

operations on a more extended scale may be practised.

Captain Mead, Toronto Field Battery, performed the duties of Brigade Major during Camp with zeal and efficiency and to my entire satisfaction.

LONDON FIELD BATTERY

Inspected at Brigade Camp, London, on the 22nd June. Lieut Col. Peters in Command. His Battery although very creditably turned out and extremly well horsed, was scarcely up to its usual state of efficiency. This may possibly be accounted for by the fact of two days' instruction having been practically lost on account of the Jubilee celebrations at London.

The annual gun practice was carried out by a detachment of the Battery at

Port Colborne during Camp.

OTTAWA FIELD BATTERY

Inspected at Brigade Camp, Ottawa, on 29th June, Major Stewart in Command. This Battery had to encounter some disadvantages in the rocky and somewhat cramped site chosen for their Camp and in the extreme heat of the weather during most of their drill. They were as usual very efficient in the field and their good driving and drill ensured their becoming the winners, by a small fraction of time, of the Gzowski Cup for Field Battery competition.

This Battery sent a firing detachment for annual gun practice to Kingston,

during Camp.

SYDNEY FIELD BATTERY

Inspected in Battery Camp at South Sydney, on 20th and 21st July, Major

McLeod in Command.

This was the first occasion on which this Corps turned out for drill, and thanks to the instruction which they received from the Commanding Officer, Captain Crowe, and one or two Sergeants, all of whom had recently passed through a short course at the Royal School of Artillery, Quebec, the Battery showed a very creditable amount of efficiency.

If voluntary drills can be carried on during the year the Battery ought soon to become efficient, but from what I could learn during my short visit I tear a supply of suitable horses will be very difficult to obtain, and the almost impossibility of removing the Battery from Sydney to join any Brigade Camp, will always be a

drawback to its usefulness.

The Battery is armed with the obsolete 9-pr. S. B. guns, which are very inaccurate even at ordinary rifle range, so that if the Corps is intended to be maintained in a serviceable condition its re-armament should be seriously considered.

NEWCASTLE FIELD BATTERY

Inspected at Battery Camp, Newcastle, 29th August, Lt. Colonel Call in command. This Battery was short of officers, one vacancy not being filled and Lieut. Fish being absent without leave, and there being a large number of recruits in the ranks, their general efficiency was not quite up to its usual standard.

Annual gun practice was satisfactorily carried out during my inspection. The gun drill and driving was very good, and the Battery only requires more careful preliminary instruction and an increased staff of qualified Officers and non-commis-

sioned Officers, to become very efficient.

The arrangements for the care and safe custody of Battery equipment in a commodious building which has been rented at the sole expense of the Officer commanding, are very satisfactory.

GABRISON ARTILLERY.

Prince Edward Island Brigade.

I inspected No. 1 and 2 Batteries at Charlottetown on the 12th August, and found as usual both Batteries very well turned out and in a very efficient state. The Souris and Montague Batteries formed part of the Brigade Camp at Charlottetown and were inspected by the District Staff.

It is hoped that the issue to this Brigade of two 40 pounder B. L. guns before next year's drill, will enable the rural Batteries to obtain much needed instruc-

tion in artillery exercises.

Detachments were sent from three Batteries to the Garrison Artillery competition at Quebec.

Halifax Brigade

Inspected at Halifax on the 16th and 17th August, and superintended the Gunpractice of four of the Batteries at Point Pleasant. The remaining three Batteries

sent detachments to the Quebec meeting.

There was a good attendance at the inspection parade, which also included the annual muster, and the general appearance of the Corps showed a decided improvement on that of the previous year. There was however a very poor attendance at gun drill, and much remains to be done to make this Brigade as thoroughly efficient as it should be. It is, however, confidently expected that recent changes in its organization and increased attention to voluntary drills on the part of both officers and men will have the desired effect.

Yurmouth Battery

Inspected at Yarmouth on 19th August, Lieut. Lewis in command during the absence in England of Capt. Jolly.

Battery very well turned out and very efficient.

A detachment was sent to join the Artillery competitions at Quebec from this Battery, and also from the Battery at Digby. The latter Battery did not drill until October and was inspected by Lt.-Colonel Worsley, Deputy Adjutant General.

New Brunswick Brigade.

Superintended Gun practice of two Batteries at Fort Dafferin on 22nd and 23rd August, and inspected the Brigade, 5 Batteries, on the former afternoon, when they were also mustered by the Deputy Adjutant General.

The general appearance and state of efficiency of this Corps is very satisfactory, and reflects great credit upon the interest and zeal shown by the Officers and non-

commissioned Officers.

Three detachments were sent to the Quebec competitions from this Brigade.

Montreal Brigade.

Although this Corps, from want of sufficient accommodation to enable them to practise the necessary artillery exercises, were only inspected as Infantry by the District Staff, yet they were able to furnish a Detachment from each Battery to take part in the Garrison Art llery competitions at Quebec.

The knowledge of standing gun drill shown was, with few exceptions, very creditable, and the shifting ordnance detachment showed very careful training.

In some cases it was apparent that the Officers in charge did not pay sufficient attention to the instruction and control of their Detachments at gun practice.

GENERAL REMARKS.

Field Batteries.

I am very glad to be able to report in most favorable terms of the general efficiency of these Corps. So far, indeed, as regards the individual and comparative efficiency of the Batteries which have obtained the highest number of marks, in the accompanying Return, during the past five or six years, I censider that under the present system of annual drill and practice, they are as efficient as it is possible or reasonable to expect, and the fluctuations in their actual standing are mainly due to accidental causes, such as the absence of an Officer or the presence of a greater or ices number of recruits.

The assembly this year of five Batteries at the Niagara Camp, and three and one half Batteries at the Kingston Camp, under the immediate command of the Artillery Staff, was of undoubted benefit to all concerned, and it is to be hoped that a similar advantage may also be enjoyed next year by the Batteries in the Province of Quebec. To enable Batteries to obtain the greatest possible advantage from this system of combined instruction it is very necessary that much attention should be previously paid to theoretical instruction, and to standing gun drill, and as under the present system this can only be obtained by voluntary drills, a very great deal of credit is due to those Corps which have attained to such efficiency by this means.

The annual gun practice was carried out very satisfactorily, and the use of Major Scott's revolving sights was found to be very advantageous, and had the general effect of equalizing the scores made by individuals.

It has been recommended for more general adoption next year.

Garrison Batteries.

As a necessary consequence of the universal use of rifled ordnance, the efficiency and usefulness of corps which have only the opportunity of being instructed in the use of the obsolete smooth bore gun becomes more and more difficult to maintain.

It is not possible to send rifled ordnance with their costly equipment and ammunition to individual Batteries at isolated stations, and as one of the principal considerations which determine the advisability of maintaining such corps is the aid which they would bring to the reinforcement of defensible Forts or Redoubts and strategical points, it becomes evident that if the corps themselves can be organized and maintained in the immediate vicinity of such localities, they can be more easily trained and their services in time of need will necessarily be of much more value.

As previously pointed out in my Reports on this subject, the re-armament of our existing Fortifications, and the greater concentration of our Garrison Artillery at or near their immediate vicinity, are subjects of the greatest importance in a defensive

point of view.

With reference to the organization of Garrison Artillery west of Kingston, it appears evident that this can most usefully be accomplished by the maintenance of a small Brigade of two or three Batteries at Toronto. These Batteries should be armed with guns of position such as the 40-pr. B.L. or the 20 pr. R.B.L. and would be sufficiently mobile to take their place in the defence of any previously selected position. The existing Garrison Artillery Force in the Province of Quebec and the Mari-

The existing Garrison Artillery Force in the Province of Quebec and the Maritime Provinces, has, with a few exceptions, made very satisfactory progress this year. The opportunity of a partial meeting of representatives from different corps, which was afforded by the artillery competitions held at the Island of Orleans, Quebec, has been productive of such gratifying and satisfactory results that it is strongly recommended for annual recurrence. I append herewith a special report upon this competition.

REPORT ON THE GARRISON ARTILLERY MEETING FOR COMPETITIVE GUN PRACTIGE AT. THE ISLAND OF ORLEANS, QUBBEC.

The above meeting began on the 5th September, and was participated in by detachments of one Officer and seven Non-Commissioned Officers or Gunners from each of the following Corps:—

	Batteries.
Montreal Brigade	. 6
Halifax do	. 3
New Brunswick Brigade	3
Prince Edward Island Brigade	. 3
No. 2 Battery, Quebec	1
No. 1 do Lévis	1
No. 2 do do	
Digby Battery	1
Yarmouth Battery.	1
	4111114
	20
	=

Each of the above detachments fired from the 64 pr. M. L. R. and 40-pr. B. L. guns as follows, seven men each:—

4

Or a total of 28 rounds from each nature of gun.

One Officer with each detachment was allowed to fire 4 rounds of common shell, plugged, from the 40-pr. B. L. gun, and with the exception of five, they all availed themselves of the opportunity of actual competitive practice.

At the commencement of the practice, one 64-pr. and one 40-pr. were used, each firing at a separate target; that for the former being at about 1,700 yards range, for the latter about 1,500 yards. It was soon found, however, that owing to the great delay caused by the frequent replacement of the targets, the practice would be much retarded, another 64-pr. gun was consequently brought into action, and a 40-pr. procured from Montreal, and on the last three days of the week all four guns were kept continuously in action.

The firing commenced each morning at 8 a.m. and was continued without cess-

ation until dark. The practice was concluded on Saturday.

Tents and blankets were provided on the Camp ground by the Store Department at Quebec, who also delivered all the ammunition required for the gun practice, all arrangements being most satisfactorily carried out. The targets and working party on the Range were provided by contract, and the necessary camp fatigues, distribution and preparation of ammunition, care of stores, &c., &c., by a working party

from "B" Battery, Royal School of Artillery.

The duties of superintending the gun practice, and umpiring the various competitions were performed by the Inspector of Artillery, who also acted as Camp Commandant, Lieut Col. Cotton, Asst. Inspector of Artillery, and Lieut. Col. Fairtlough, R.A. Capt. Peters, R.S.A., acted as Executive Officer and Camp Adjutant, and Major Crawford Lindsay, Quebec Field Battery, acted as Camp Quartermaster and had entire charge of the transport and commissariat arrangements. Capt. Farley and Capt. Fages, acted as Range officers during the entire meeting, and Capt. Donaldson, Militia Store Dept., performed the duties of Register Keeper and Paymaster. The duties of the Staff Officers were very satisfactorily performed, and to their energy and zeal must be attributed the entire success of the meeting.

The expenses of the meeting, including transport of detachments to and from Battery headquarters, camp allowance of 75 cts. per diem to each competitor, extra duty pay to local staff officers employed, and working pay to fatigue party, expenses consequent upon targets and range party, telephone, &c., &c., were all met by the Government grant of \$2,000 in aid of these competitions, and out of this fund was also provided a liberal prize list both for aggregate and individual scores and for the

shifting ordnance competition.

The general results of the meeting were extremely satisfactory. The scores made were generally very good and the interest and emulation incited by the wholesome competition between the representatives of corps so widely separated cannot

fail to be of the greatest benefit to the Garrison Artillery of the Dominion.

It was noticed that in several cases individuals in the different detachments were insufficiently grounded in a knowledge of gun drill. At future competitions this will have to be made a reason for disqualification. On the other hand, it was remarked that the drill for the 40-pr. B. L. gun was very rapidly acquired by detachments previously unfamiliar with this gun.

I am very glad to be able to report that the conduct of the detachments was

uniformly good, no irregularity of any description being noticed in camp.

If the difficulty arising from the expense of transport by the Intercolonial Railway can be overcome, it will be advisable in future to increase the strength of each detachment by one or two men, specially selected as cooks and for fatigue purposes, in order that the arrangements for messing and camping may be carried out as on service.

The shifting ordnance competitions were carried out very satisfactorily and in a very creditable manner. The Local Corps were conspicuous by their absence from this competition, which want of zeal is the more to be regretted, as the facilities for preliminary practice and instruction are more easily obtained at Quebec than elsewhere.

I have the honor to be, Sir, Your obedient servant,

> D. T. IRWIN, Lieut. Colonel, Inspector of Artillery.

INSPECTION REPORT—ASSISTANT INSPECTOR OF ARTILLERY FOR QUEBEC.

CITADEL, QUEBEC, 16th November, 1887.

Sir, —I have the honor to submit herewith my report, with tabulated efficiency returns, upon the two Garrison Batteries, inspected by me this year, for the year 1886.

Owing to illness I was unable to inspect any other Batteries. This duty was performed by Major Short, Commanding "B" Battery, whose report is enclosed herewith.

QUEBEC GARRISON ARTILLERY.

No. 3 Battery.

Inspected at Drill Shed, Quebec, on the 19th March, Captain Morgan in command, Lieut. Morgan and Lieut. Panet, 37 non-commissioned Officers and men.

Salute and march past, very good; clothing, arms and accourrements in good

order and well turned out.

Four squads in standing gun drill. Answers to questions indifferent.

LEVIS GARRION ARTILLERY.

No. 2 Battery.

Inspected at Lévis on 20th May, Captain Vien in command, Lieuts. Lemelin

and Bourgest, 31 non-commissioned Officers and men.

Company drill fair; clothing in good order, but not well fitted; only two squads instructed in standing gun drill, and deficient in theoretical instruction; answers to questions indifferent.

I have the honor to be, Sir, Yeur obedient servant,

> C. E. MONTIZAMBERT, Lieut, Colonel, Assistant Inspector of Artillery.

The Inspector of Artillery.

REPORT OF MAJOR SHORT, COMMANDING "B" BATTERY, ACTING ASSISTANT INSPECTOR.

CITADEL, QUEBEC, 9th December, 1887.

Sir,—I have the honor to submit my report on the Field and Garrison Batteries of Artillery inspected by me during the year 1887.

The credits for general efficiency for each Battery herewith submitted.

Montreal Field Battery-Lt. Col. Stevenson Commanding.

I inspected this fine Battery on St. Helen's Island on the 28th of June and found it as usual in an excellent state of efficiency.

The horses, guns, harness, clothing and equipment in the most perfect order.

The horses, guns, harness, clothing and equipment in the most perfect order.

The Field Manœuvres, Marching past, Gun drill, answers to questions and Gzowski shift, excellent. In fact the whole turn out reflects the greatest credit on all concerned.

Gun practice was performed at Quebec.

Richmond Field Battery -Lt.-Col. Hon. H. Aylmer Commanding.

I inspected this Battery at Granby on the 29th June and was rather disappointed at their turn out, considering their excellent condition in 1885; allowance, however, must be made for their want of smartness on parade, as they had a long and tedious march from Richmond in very bad and rainy weather, the majority of the Battery being recruits. The Captain of this Battery, who did so well in 1885, appeared to have forgotten the most simple movements of Field Artillery.

Gun practice was performed at Granby.

Shefford Field Battery-Lt. Col. Amyrauld Commanding.

Inspected on the 1st July; their turn out was very fair, considering the state of the weather during camp. Horses, Guns, Harness, Clothing, &c., fair; Field Manceuvres and gun drill excellent.

Gun practice was performed at Granby.

Quebec Field Battery-Major Lindsay Commanding.

Inspected at Point Lévis on the 15th July, 1887.

Too much praise cannot be given for the smartness with which this Battery always turns out. The guns, harness, clothing and equipment excellent. Major Lindsay has an able assistant in Capt. Garneau, a young officer who passed one of the best Short Course examinations in Field Artillery and who affords an example of discipline and efficiency to his N. C. officers and men.

Gun practice performed at Isle of Orleans, 27th July, 1887.

Garrison Artillery.

I inspected Nos. 1 and 2 Batteries, Quebec Garrison Artillery, in the Drill Shed

in August and found them as usual very smart and well turned out.

The Gun drill, Company drill and marching past of these two Batteries was most creditable, especially No. 1 Battery; but they are very deficient in proper accourrements, having to borrow from one another to turn out for inspection.

Nos. 1 and 2 Batteries, Lévis Garrison Artillery.

I inspected these Batteries at Point Lévis and found them also in a very creditable condition. These Batteries are very deficient in accourrements and borrow from one another when they turn out for inspection.

Gun drill, Company drill, marching past and answers to questions by No. 1

Battery very good.

I have the honor to be, Sir, Your obedient servant,

> C. J. SHORT, Major, Commanding "B" Battery, R. C. A.

To the Assistant Inspector of Artillery.

REPORT OF THE ASSISTANT INSPECTOR OF ARTILLERY FOR ON-TARIO.

Kingston, 1st December, 1887.

Sin - I have the honor to submit herewith my report on the Batteries inspected by me during the year 1887.

The efficiency marks of each Battery, compiled in tabulated form, have already

been forwarded to you, as have also the scores made at gun practice.

The general efficiency remains about the same, and the number of recruits still

large.

The Kingston, Durham and Gananoque Field Batteries, with detachment of "A" Battery, composed Artillery Brigade in Camp here in June, 1887. All worked hard and cheerfully. These Batteries carried on their gun practice at Kingston and were joined for this purpose by two gun detachments of the Ottawa Field Battery.

The Scott sight was used throughout the practice, but having only one it had

to be changed from gun to gun, entailing a certain loss of time.

KINGSTON FIELD BATTERY.

Major Drenvan commanding.
Inspected by me in Brigade Camp at Kingston.
Efficient and very well turned out.
Marked improvement on recent years.

GANANOQUE FIELD BATTERY.

Lt.-Col. Mackenzie commanding. Inspected by me in Brigade Camp. Efficient and smart. Gun Carriages require painting.

DUBHAM FIELD BATTERY.

Major McLean commanding. Inspected by me in Brigade Camp. Efficient and in good order.

This Battery was unfortunate enough to lose a horse by accident during the

They made excellent time in the competition for Gzowski Cap, and lost only by the fraction of a second.

WINNIPEG FIELD BATTERY.

Major Coutlée commanding.

Inspected by me at Winnipeg on the 20th and 22nd July.

Not very efficient. It would seem that sufficient advantage had not been taken of the opportunities afforded, otherwise the result must have been different

The knowledge of duties and stores among the Non-Commissioned Officers was

very poor.

Practice was carried out at Little Stoney Mountain with fair result.

Since the inspection one Officer has obtained Special Course Certificate, and another is about to join for Short Course.

GENERAL REMARKS.

In all Batteries the majority of Non-Commissioned Officers were not sufficiently well acquainted with a knowledge of their duties, and the use and application of stores.

Excepting in City Corps, this is of course attributable to the difficulty of men. whose residences are far apart, assembling for voluntary drills, and to the large number of recruits.

The ground on which the Artillery was encamped, at Kingston, was very unsuitable, extremely muddy and wet during rain, and very dusty in dry weather. The consequence was an immense amount of otherwise unnecessary cleaning.

I desire to strongly recommend that before starting to Camp another year, all Field Batteries be issued with good strong picketing posts, and heel ropes and pegs. The accident to a horse in the Durham Field Battery lines, originated from want of proper picketing arrangements.

Major Drennan, Kingston Field Battery, brought his forge waggon to Camp, and the shoeing smith of "A" Battery was able to attend to minor repairs and shoeing

in an emergency.

The Paysheets, as supplied for Annual Drill, are not suitable for Field Batteries.

Special forms would be desirable.

I desire to again urge the yearly inspection, at Battery Headquarters, of the guns, carriages and equipment, harness and reserve ammunition.

The fuzes and tubes used during practice were all good. The 15 second fuze is

recommended for next year's practice.

Suits of canvas working clothes should be issued to Field Batteries, particularly so to the Drivers, otherwise it is impossible for them to be neat and maintain the regimental clothing for the period it is expected to last.

I have the honor to be, Sir,

Your obedient servant,

W. H. COTTON, Lieut.-Colonel, Assistant Inspector of Artillery.

INSPECTION REPORT OF PICTOU GARRISON BATTERY.

MILITIA BRIGADE OFFICE, HALIFAX, N.S., 12th December, 1887.

SIR,-In compliance with your order, I inspected the Pictou Battery on the 6th inst. No gun drill had been performed, nor had the written questions forwarded by the Inspector of Artillery been prepared. The time for drill had been devoted to Part 2, F. E. Company drill, which was fair, considering the absence of preliminary squad and arms drill by numbers.

The best thing that can be said for this inspection is that the turn out was excellent, the personnel of the Battery being exceptionally good; the clothing, though old, very clean and well fitted; belts, slings and accourrements scrupulously clean and bright; every man having every article of equipment issued to him complete,

and helmets of their own besides.

Annexed is parade state, showing 16 rank and file present in excess of the number authorized to drill for pay, this including a very good band of 13 performers.

I have the honor to be. Sir.

Your obedient servant.

J. R. MACSHANE, Lieut Colonel, Brigade Major.

To the Deputy Adjutant General of Militia, Commanding Military District No. 9, Halifax, N.S.

CREDITS AWARDED EACH BATTERY FOR GENERAL EFFICIENCY.

FIELD BATTERIES.

	tal.	oT	2311.4 2266.8 2267.6 220.0 200.0 200
One-fifth Total Score at Competi- tive Practice.			800 tr 00 80 0 + 50 0 80 40 80 40 80 40 80 40 80 40 40 80 40 40 80 40 40 40 40 40 40 40 40 40 40 40 40 40
-dmsU g	Discipline, includin ing Details.	12	107 100 100 100 100 100 100 100 100 100
fficers.	Sword Drill by Mour cers and NO. O	90	00 * * 00 * * 00 00 * * 00 00 * * 00
1	Field Manœuvres.	16	6110888188188188188188181818181818181818
Answers to Questions.	NC. Officers.	1 9	044888888888888888888888888888888888888
Ans	Officers.	40	F 20 20 20 20 20 20 20 20 20 20 20 20 20
1; Posi- Duties.	Standing Gun Dril Lion and General	28	84588888888888888888888888888888888888
	Marching past.	16	48800474* 8447881184
.auis	Harness and Harness	16	4-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2
	Horses.	12	0 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
Gun Oarriages and Equip-		16	25 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Olothing and Accoutrements.		12	110011111111111111111111111111111111111
Inspecting Officer.			LtCol. Irwin do d
Officer Commanding Battery.			Major Van Wagner. LtCol. Gray LtCol. Peters Major Nicoll. Major Stewart Major Stewart Major McLeod LtCol. Call Major McLeod LtCol. Wekenzie LtCol. Wekenzie LtCol. Stevenson Major Orennan Major Coutlee LtCol. Stevenson Major Aylmer Major Aylmer Major Lindsay
Name of Battery.			Hamilton. Welland Canal Toronto London. Ist Brigade. [No. 1. Ottawa Sydney Durham Gananoque Kingston Winnipeg. Montreal Richmond Shefford. Quebec.

+ Practised with S. B. guns; results cannot be compared. * Unable to show proficiency in this subject.

D. T. IRWIN, Lt.-Col., Inspector of Artillery.

D. T. IRWIN, Lieut.-Col., Inspector of Artillery.

CREDITS AWARDED EACH BATTERY FOR GENERAL EFFICIENCY.

GARRISON ARTILLERY.

	Remarks.		For 1886. LtCol. Mowbray in command. LtCol. Armstrong in command.
Present at Inspection.	NO. Officers and Men.		20 00 00 00 00 00 00 00 00 00 00 00 00 0
Pre	Отпорта .		N-000000000000000000000000000000000000
	Total.	129	886 773 773 800 800 800 800 800 800 800 800 114 72 800 800 800 800 800 800 800 800 800 80
Answers to Questions.	NO. Officers.	24	44401-8 622333355415 22333355415 2233355415 2233355415 23355415 23554 2355415
Ans	Officers.	30	1 1 1 2 2 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4
	Discipline.	10	10 4 4 4 4 4 10 10 14 4 4 10 14 4 14 10 10 10 4 10 4 1
Gun Drill, each Detach-		10	11 11 11 11 11 11 11 11 11 11 11 11 11
	Company Drill.	10	-0000-0*** 0004000
-xy Zui	Manual and Firing Ex-		000000000000000000000000000000000000000
	Olothing and Accourte-		4400400400000004470704704
	Inspecting Officer.		LtCol. Mcntizambert 4 9 7 29 6 18 Major Short do 33 7 7 29 4 4 18 do do 33 7 7 88 32 4 4 24 LtCol. Irwin 33 7 7 88 35 5 7 7 7 38 do do 33 7 8 8 35 7 7 7 7 8 8 36 6 9 4 18 do do 3 7 6 8 7 19 do do 3 7 7 8 10 do do 5 8 8 6 8 5 26 do do 5 8 8 6 8 5 26 do do 5 8 8 8 8 15 8 18 * Unable to show proficiency in this subject.
Officer Commanding the Battery.			3 Capt. Morgan do Vien. do do Martineau. do Martineau. 2 do Boulanger. (2 do Boulanger. (3 do Carrison. (4 do Boggs. (4 do Boggs. (5 do Boggs. (6 do Gordon. (7 do Boggs. (8 do Gordon. (8 do Jones. (4 do Jones. (6 do Scammell
Batteries,			Quebec G.A., No. 3 Lévis G.A., No. 2 do No. 1 Quebec G.A., No. 1 do No. 1 P.E.I. Brigade. { (2. 2

SUMMARY OF TARGET PRACTICE RETURNS.

Battery.	Prelimin- ary Instruc- tional.	Final Competitive	Total.	Remarks.
Royal Military College	236	146	382	Fired with 6-pr. B.L.G.

FIELD BATTERIES-9-PR. R. M. L. GUNS.

Ourham	291	188	479	
Welland Canal	311	148	459	
No. 1 Battery, 1st Brigade	278	180	458	
)ttawa	345	106	451	
ondon	286	164	450	
Quebec	257	190	447	
Vo. 2 Battery, 1st Brigade	305	138	443	16 competitors in pre-
Hamilton	295	147	442	liminary, and 8 in
fontreal	260	165	425	the final practice:
Kingston	288	118	406	range about 1,790
Coronto	242	125	367	yds.
Vewcastle	242	108	350	2 700
Jananoque	194	108	302	
Winnipeg	174	113	287	
Shefford	186	93	279	
Richmond	136	97	233	
Woodstock				
Sydney				
Janey and an and a second				

GARRISON BATTERIES-64-PR. R. M. L. GUNS.

No. 1 Battery, Halifax	66 84 74 35 67 84	34 62 41 63 35 26	100 146 115 98 102 110	8 competitors in the preliminary and 4 in the final practice; range about 1,800 yds.
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BRITISH COLUMBIA BRIGADE-VICTORIA.

No. 2 Battery	132	61 78 45	153 210 114	Fired under same sys- tem of marking as for 9-pr. R. M. L. guns; range 1,350 yds.
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SUMMARY OF TARGET PRACTICE RETURNS-Concluded.

ARTILLERY COMPETITION-ISLE OF ORLEANS, QUEBEC.

Battery.		64-pr.	40-pr.	Remarks
Lévis {	No. 1 " 2	149 75 117	110 93 91	
Montreal Brigade	1 1 1 2	94 124 115 66 163	89 137 108 108 153	Each detachment consisted of 7 N.
Prince Edward Island { Brigade.	" 6 " 1 " 2 " 5	73 141 158 101 95	130 138 112 115 105	C. Officers or gunners who fired four rounds each from each nature of gun. Range with 40-pr., 1,500 yds.
NewBrunswick Brigade	tt 3	121 151	70 164	do 64-pr., 1,700 do
Halifax Brigade { Yarmouth Digby	(t 5 (t 6	162 139 147 147 126	111 128 153 135 136	

D. T. IRWIN, Lieut.-Colonel, Inspector of Artillery.

APPENDIX No. 5.

REPORT OF THE INSPECTOR OF ENGINEERS.

Kingston, 25th November, 1887.

SIR,—I have the honor to submit the following report of my inspection of the Companies of Engineers during the present year:—

BRIGHTON ENGINEERS.

2. I reached St. Andrews, N.B., late on Saturday night, the 2nd July. The Company was present in the Brigade Camp at its full sanctioned strength, under the command of Lieut. Tompkins, Commanding Officer, Bt. Major Vince, having been appointed Instructor of Musketry Gentleman Cadet Barker, of the Royal Military

College, performed the duties of and Lieut.

3. The Company had completed its Musketry course before I arrived, making, I understand, the second best Company score in the Brigade. The first few days after my arrival were spent in steady work at both Engineer and Infantry drill, the former consisting chiefly of trestle bridging, use of brushwood, tool drill, &c. The Infantry drill included some portions of the attack formation. Alight trestle bridge for Infantry in single file was built during the Camp. It was 160 feet long and over a very rocky gap, from 15 to 18 feet deep. The roadway was of continuous hurdle work.

4. On the 7th July, the work for the Gzowski competition was done; it consisted in the construction of a defensible log house, capable of containing the whole of the Company and of the necessary Camp conveniences. The amount of work undertaken was, I think, rather too great for the time allowed, but all ranks worked with such a will that when "cease work" sounded, the task was to all intents and purposes finished. For this piece of work the Company was subsequently awarded the 1st prize, which it also gained last year. For details of the work see Appendix C.

5. On the following day the Infantry inspection took place; the turn out was very good, but the drill was not quite so satisfactory as last year and there was some confusion in performing the extended order movements; but from what was done on previous days, I have reason to believe that the Company can drill very much better than it did at the inspection. I have again this year to thank the Officer Commanding "A" Company, I.S.C., for kindly allowing his Band to play the march past for the Engineers at their inspection.

6. I am glad to be able to report this Company as being still in a very satisfactory condition. Considering their opportunities, all ranks deserve great credit for what they have done. Major Vince's place was well filled by Lieut. Tompkins, an

officer who shows a special aptitude for superintending Engineer work.

CHARLOTTETOWN ENGINEERS.

7. The inspection of this Company was to have taken place on the 29th September, but owing to the wet weather; it had at the last moment to be put off till the next day. In consequence of this, the Company was unable to parade in quite its full strength.

i)

8. The morning of the 30th was occupied with the Infantry inspection. The turn out was very smart and the drill was decidedly good. I was especially pleased with the progress made in the extended order movements, practised this year, I

believe, for the first time.

9. In the afternoon the task for the Gzowski competition was done. Capt. Week's project included the erection of four huts of light poles, thatched with spruce boughs, the necessary Camp conveniences and a defensible breastwork guarding the approaches to the Camp. The Company worked exceeding well and a large amount of work was done for which the 2nd prize was afterwards awarded. For details see Appendix C.

10. I am glad to be able to report that the expectation I expressed last year of finding a marked improvement in this Company, has been fulfilled. It is now in a very satisfactory condition and should, I think, continue year by year to steadily

improve.

MONTREAL ENGINEERS.

11. In June last I had an opportunity of seeing this Company at drill in the Bonsecours Market, when the difficulty of attempting any Engineer drill, properly so called, in that building, was so evident that I suggested to Lt.-Col. Kennedy, amongst other things, the advisability of taking up signalling as one of the subjects of instruction. A little had been attempted in previous years, but no proficiency had been attained.

12. On the evening of Friday, 28th October, the signalling squad paraded in the Bonsecours Market for my inspection. I found that their instruction had been confined to signalling with flags from one end of the hall to the other, but both the sending and reading was so well done, that it was arranged to try some signalling on the following morning between parties stationed respectively on the tower of the City Hall and the mountain. Unfortunately, however, there was a thick fog in the morning and so the second party had to be stationed closer at hand, on the tower of the St. Denis Street Church. Several long messages were sent both ways in fair time and almost, I may say, without mistake. This was the more satisfactory as the day was most unfavorable and field glasses had to be used; moreover, it was the first attempt at signalling out of doors.

13. The Infantry Inspection took place on Saturday afternoon, 29th October, unfortunately at the last moment the weather became so bad that the drill had to be done under cover in the Bonsecours Market. The turn out of the Company was not as good as it should have been. Most of the men were very clean and smart, but the appearance of the Company was spoilt by a few who were neither. It is however only fair to remark here that Lt.-Colonel Kennedy informs me that the Company has not received its full issue of clothing, and that this to some extent may account for the dirty appearance of some of the uniforms, as in several cases very old ones had to be worn. The close order drill was satisfactory, but owing to the limited space there was no opportunity of judging fairly of the extended order movements.

14. After the Infantry inspection the Company was broken up into squads for Engineer drill; a barrel pier, a spar trestle and a gyn were lashed in good time and

some tool drill was done.

15. This Company did not enter for the Gzowski competition.

state, still I think there is decidedly more life in it than there was last year. The signalling squad has done good work and the infantry drill has improved. Although better equipped than the others this Company labors under many disadvantages. It is still short of its complement of officers, and still without proper facilities for Engineer work, although when the quarters in the new Drill Hall are taken possession of, its position in this latter respect will be enormously improved. Indeed, I think a marked improvement will certainly occur as soon as the move from the present most unsuitable quarters takes place.

GENERAL REMARKS.

17. During the year nine Non-Commissioned Officers and Sappers have attended the Engineer courses at the Royal Military College, all of whom have qualified.

18. The benefit resulting to the Engineers from these courses is very great. Indeed in the absence of any permanent Engineer School of Instruction I do not think it would be found possible to keep up a force of Engineers in anything but the name without this means of giving the Officers and Non-Commissioned Officers some

real knowledge of what is meant by Military Engineering.

19. I beg in conclusion to refer to the suggestions make in the last paragraph of my report for last year. And with reference to the recommendation made by the Major General Commanding in his report for last year that the number of Engineer Companies should be increased, I beg to suggest that this might to some extent be done without increasing the strength of the Militia by gradually converting any suitably situated infantry companies into Engineers. into Engineer Companies.

I have the honor to be, Sir, Your obedient servant,

> STUART DAVIDSON, Capt. R.E., Inspector of Engineers.

The Adjutant General of Militia, Ottawa.

APPENDIX A.

GZOWSKI ENGINEER COMPETITION, 1887.

The first prize was again taken by the Brighton Engineers; the Charlottetown Company obtaining the second prize for a piece of work of very nearly equal merit.

2. I regret to say the Montreal Company was again unable to compete.

3. The task for this year's competition was the construction of a defensible camp. The full conditions are contained in Appendix B.

First Prize.

4. Brighton Engineers, under Lieut. Tompkins. I was much pleased with the smart way in which the working parties were told off and the tools distributed, and with the judgment shown by Lieut. Tompkins in making his arrangements, so as to avoid waste either of time or labor.

5. The work undertaken was rather too much for the time, and had not all concerned worked remarkably well, would certainly not have been finished. A good deal of trouble was also caused by the crooked growth of the trees and the conse-

quent difficulty of getting the logs to lie flat on each other.

6. Considerable ingenuity was displayed in the construction of the door, which was made entirely of wood, including the very latch and hinges, and formed a very good sample of what a skilled man can do in the woods with only an axe and auger for tools.

Second Prize.

7. Charlottetown Engineers, under Captain Weeks. The amount of work undertaken was here also perhaps rather much for the time available, still I think it would have been done had the men had the advantage of being in camp and work-

ing together as a company for a few days before the competition; but as it was owing partly to this and partly to the unavoidable absence of some of the men, and partly also to some slight mistakes in the arrangements, the work was not quite finished. The camp itself was quite completed and very well done too, but the defences were left till too late, and were consequently in an unfinished state at the end of the six hours. Still the work, as a whole, was exceedingly good and falls but little short of that which took the first prize.

STUART DAVIDSON, Captain, R.E.,

Inspector of Engineers.

APPENDIX B.

GZOWSKI ENGINEER-CONDITIONS FOR THE COMPETITION, 1887.

General Idea.

In an expedition into an enemy's country a company of Engineers has been left behind on the line of communications for the purpose of constructing and subsequently guarding a bridge across a considerable stream. There are none of the enemy's forces in the neighborhood, but the country is in a disturbed state and the sparse population is decidedly hostile.

The company is left to its own resources about six hours before nightfall, and in this time it has to construct its encampment and the necessary defences, in order to be ready to commence work on the bridge the following morning at daybreak.

Work for the Competition.

The work for this year's competition will be the construction of this encampment, and the defences which may be judged necessary for it,—no notice being taken of the imaginary stream and bridge.

Instructions.

The commanding officer will select the most convenient spot for the encampment which he can obtain permission to work upon.

He will furnish a sketch plan of the proposed encampment and its defences;

this should be as accurate as circumstances will permit.

He will also furnish a general description of the work he proposes to do, with any special details which he may consider necessary. This description must include a table showing approximately the distribution of the working parties, the tools and materials they will require, &c., &c.

In preparing the above sketch plan and project the commanding officer should avail himself, as much as possible, of the assistance of his subaltern officers and senior

non-commissioned officers.

His attention is specially directed to the following points:-

(a). The nature of the site.(b). The water supply.

(c). The cooking and sanitary arrangements.

(d). The arrangements for obtaining shelter from the weather. (N.B.—No use whatever is to be made of tents or existing buildings.)

(e). The size and arrangement of the camp and its defences.

Finally, special attention is directed to rules 2 and 4 of the Competition, published on page 160 of the Militia Report for 1885.

STUART DAVIDSON, Captain R.E., Inspector of Engineers.

ROYAL MILITARY COLLEGE, KINGSTON, 1st April, 1887.

APPENDIX C.

CAMP ST. ANDREW'S, 7th July, 1887.

From the Officer Commanding Brighton Engineers to the Inspector of Engineers :-

SIR,—In accordance with your instructions I have the honor to report:—
1st. That I have available for work (if no casualties occur):

3 Officers (including myself).

1 Sergeant Major.

9 Non-Commissioned Officers.

25 Sappers (3 of whom are employed on Camp duty) making the total authorized strength of the Company in Camp, viz.:—

3 Officers.

35 Non-Commissioned Officers and Sappers.

2nd. I have the following tools:-

15 Axes:

1 Cross-cut saw.

1 Hand saw.

3 Augers,

2 Hammers.

1 Two-inch chisel.

2 Six-foot rods.

1 Measuring tape.

1 Tracing line.

1 Field level.

And the necessary picks and shovels.

3rd. I propose to encamp on the brow of a hill commanding some 800 yards of the shore of a lake and the site of the proposed bridge over a considerable stream emptying into the lake. (Note—this is a supposition.)

The land about the encampment is supposed to be cleared for a distance of about 600 yards, with the exception of a small grove which I propose to fell and utilize in

constructing the encampment and for firewood.

The water is good, and the supply can be made sufficient with but little work.

I propose to shelter my men by building a double block house (according to the annexed plan) and place it in a condition for their protection from any marauding parties or from any body of organized men taken from the undisciplined population of the country.

4th. I propose to make the following distribution of my Officers and men:-

Work.	Officers.	NC. Officers.	Sappers.	Tools.
For general superintendence	1 2	1 6	12 6	5 axes, 3 bill-hooks. 6 axes, 1 hand-saw, 1 auger, 2 hammers, 1 2-inch chisel, 2 6-foot rods, measuring tape, tracing line, field level and cross-
For reeding. For water supply, latrine, kitchen and drains. For cooks. For picquet.	*****	1	3 2 1	cut saw. 2 axes, 1 angar. 2 axes, 1 auger, 2 picks, 2 spades.
Total	3	9	26	

5th. Before the lumber is on the ground, I propose to use the building party to

lay out and work and commence latrine, &c.

6th. After the block house is completed I propose to utilize the men for the further strengthening of the position and in work for their own comfort.

I have the honor to be, Sir,

Your obedient servant,

J. R. TOMPKINS, Lieutenant., Commanding Brighton Engineers.

CHARLOTTETOWN, September, 1887.

From the Officer Commanding Charlottetown Engineers to the Inspector of Engineers:

SIR,—I have the honor to report that the general description of the work I propose to do with the Charlottetown Engineers competing for the Gzowski prize is as follows:—

Having selected a site near the river in the neighborhood of spruce trees and young undergrowth of brushwood, and adjacent to a small spring, I shall lay off the Camp as nearly as possible to the description given on the plan annexed. The men on being marched to the ground will be told off into working parties. A Corporal or Lance Corporal, with a small squad, will immediately prepare the water supply by sinking and enlarging the spring and protecting it from defilement; another small squad will prepare the latrines. A few sentries or picquets will be posted to protect and warn the working parties. The largest number will be detailed for the hutting and will be divided into four squads, the whole of whom will, under the command of a Sergeant, cut the poles and brushwood required for the huts, before being divided into squads for huts. When a sufficient quantity of poles and brushwood has been cut, this large squad will be subdivided into smaller ones for each hut. The hut will be gable shaped, each half of which is constructed on the ground, and when completed will be raised each half locking in like a lock bridge. A sapper will then place himself upon the gable and fix the top with boughs or thatch. A squad will also be detailed to construct a field kitchen.

After the completion of the huts, which is calculated to take about four hours, the whole company will prepare its defence, being divided into squads, the superin-

tendence of which will be under the direction of an Officer.

Time and tools required:

Field Kitchen-1 corporal, 5 men, 4 hours, 3 pick axes, 1 bill hook, bundle of

pickets, 4 spades, 1 camp kettle, measuring rod.

Wood Party—1 sergeant, 2 corporals, 2 lance corporals, 18 men, time, 1 hour. The wood for each hut to consist of poles about 3 or 4 inches in diameter and 12 feet long, and for each of the men's huts there will be required 30 or 36, also of smaller stuff for being lashed across these poles to hold the thatch work of spruce boughs, about 100 pieces, 1 cart or waggon load of spruce boughs. The beds will be made of mats of grass, straw or seaweed.

After the wood has been brought up, each squad in charge of the Non-Commis-

sioned Officer will lay off and construct each hut.

For each men's hut there will be 1 Non-Commissioned Officer and 4 men. Tools—2 shovels, 1 pick axe, 2 bill hooks, 2 gabion knives, measuring rod, bundle of pickets, spun yarn, twine, nails and hammer, 1 saw.

For mats for bedding—bundle of stakes and twine. Each hut will accommo-

date a corporal and 12 men.

For latrines-1 lance corporal and 4 men.

Tools—4 shovels and picks, 1 measuring rod, spun yarn or rope, 4 poles, 4 to 6 inches in diameter, 12 feet long, for seat and rest, 8 stakes, 5 feet long, 4 inches in diameter.

One Non-Commissioned Officer and 6 men will take charge of the Officers', Non-Commissioned Officers' and guard huts, which will be much smaller than the other huts. The tools required, the same as for the other huts.

When the squads detailed for latrines and perfecting of water supply have finished, they will assist in the construction of the Officer, Non-Commissioned Officer

and guard huts.

It may perhaps be better to make the huts for the men a little larger, when only two will be required. *

I have the honor to be, Sir, Your obedient servant,

WILLIAM A. WEEKS, Captain
Charlottetown Engineers.

[.] This was done.

APPENDIX No. 6,

ANNUAL REPORT OF "A" TROOP, CAVALRY SCHOOL CORPS AND ROYAL SCHOOL OF CAVALRY.

CAMP POINT LEVIS, 1st December, 1887.

Sir,—I have the honor to submit, for the information of the General Commanding, my annual report respecting the Royal School of Cavalry and the Corps under my command.

I acknowledge with gratitude the title of "Royal" given to the School by Her

Most Gracious Majesty in this year of Jubilee.

I regret to say that the disadvantages of having hitherto had no proper stables or barracks was made only too evident by the temporary wooden sheds erected over the Citadel casemates and occupied by the Corps as stables, taking fire, and being in a few minutes consumed, together with the twenty-three horses they contained.

I ordered a Court of Inquiry to assemble and report upon the loss sustained and enquire into the cause; but no light was obtained as to the origin of the fire, which would seem to have been purely accidental. The loss to the Royal School of Cavalry was estimated at about \$5,000.

The attendance at the School has in consequence been reduced, and the number of certificates granted is only half that of last year, the want of a fixed residence and the very small establishment, increasing the difficulties so much as to strain to the utmost the endurance of all ranks and interfere with instruction.

These difficulties I hope very shortly to overcome, as the buildings hitherto occupied as the Provincial Armory are being converted into barracks and stables,

and when completed will prove to be a most suitable permanent residence.

Consequent upon this, it is in every way desirable, and I recommend, that the much needed increase in the establishment of the school be made without delay, and that Lieutenant Heward be gazetted Captain Commanding the Troop, as is done in each of the other Military Schools of Instruction.

The following statistics indicate the work performed as a School of Instruction,

and the changes in the personnel of the Corps.

RETURN of Certificates and Attendance.

Grad	e A.	Grad	le B.	ance.			ion.		Remarks on the Course o
1st.	2nd.	1st.	2nd.	Attend	1st.	2nd.	Equitat	Total.	Instruction.
********		3 8 4	3	1 2 4			3 2 2 1	10 1 2 9 11	Did not compete.
	********	*******		1	********	********		9	do do
	1st. 4	4 1	1st. 2nd. 1st.	1st. 2nd. 1st. 2nd. 4 1	1st. 2nd. 1st. 2nd. 24 4 1 3 3 1 1 8 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	1st. 2nd. 1st. 2nd. 2 1st. 4 1 1	1st. 2nd. 1st. 2nd. 2 1st. 2nd. 4 1	1st. 2nd. 1st. 2nd. 1st. 2nd. 1st. 2nd. 1st. 2nd. 1st. 2nd. 2nd. 2nd. 2nd. 2nd. 2nd. 2nd. 2nd	1st. 2nd. 2nd. 2nd. 2nd. 2nd. 2nd. 2nd. 2nd

In the above it will be seen that 5 Officers and 15 Non-Commissioned Officers and men were attabced for Equitation only, the latter being the Bandsmen of the Queen's Own Canadian Hussars.

There still remain in the School attached 4 Officers and 7 Privates, several of

whom will leave this month.

Return of the changes in the Corps :-

Recruits enlisted	16
Re-enlisted	8
Discharged on completion of service	5
do by purchase	2
do as unserviceable	2
Deserted	1
	-

This return I consider highly satisfactory, showing that suitable recruits have been obtained to fill the vacancies; and the fact that but one man deserted and only two others purchased their discharge I attribute entirely to the esprit de corps which exists, and the care taken by me in refusing anyone who cannot give good references as to character and sobriety.

Defaulters' Sheets.

Nothing can surpass the admirable conduct and devotion of all ranks to duty. There has not been a single court-martial necessary during the year, and there are only a total of seventeen entries on the regimental defaulters' sheets during the same period of time, those occasional cases brought to office being almost entirely for "minor offences." The total amount of fines for drunkness is only \$11, or, to be more exact, £2 5s sterling, for the whole twelve months, received from but two men, one of whom (who contributed the greater part of this) has now become a teetotaller.

Remounts.

I have had the greatest difficulty in obtaining a suitable lot of remounts, as none were shown at the Provincial Agricultural Exhibition in this city. However, by dint of perseverance and a very considerable amount of travelling, very fine, well bred, sound, young horses have been obtained at a reasonable price, their average age being 5 years and height 15-23. By next summer I expect they will be equally well trained with those destroyed by fire.

It is perhaps as well to state the principal points required in a cavalry horse, as

farmers do not seem to understand the stamp of horse we desire to purchase.

Dark colored horses, with little or no white about them—geldings preferred; from 4 to 6 years of age, and from 15-2 to 15-3 hands in height. Must have:

1. A short and broad back and loin.

2. A broad and deep chest.

The neck cannot be well too light and long for riding purposes. Pasterns moderately long. The horse himself cannot be too long, provided the length is not in the back or hind legs. The horse must also, above all things, walk well, and of course be perfectly sound.

Veterinary.

Not the least important part of a cavalry soldier's knowledge is that he should be skilled, to a certain extent, in veterinary science, and that he should thoroughly understand all about the animal which is to carry him, and on the proper condition of which much of his own efficiency depends.

I expect, shortly, to arrange for a short course of lectures on this subject with the Veterinary College of the Laval University, which will be a great additional

advantage to those attached for a short course of cavalry instruction.

Shoeing, too, is no less important. A lame horse is like a sick soldier, not only

of no use, but a serious impediment in the field.

I am glad to be able to report that all the duties required to be performed by a Veterinary Surgeon, during the year, have been satisfactorily done, at a cost of less than \$100; and that the shoeing of the horses is also most satisfactorily performed, at a minimum of expense, by a civilian contractor.

Musketry Instruction.

The loss of so many horses has enabled me to devote more time this year to musketry instruction and target practice, and the progress made by each and all has been considerable, notwithstanding the inferior weapon in possession of the Corps, viz., the Winchester Carbine, still, by care ful practice in correcting the sights, a good average score has been obtained, as will be seen from the enclosed Target Practice Returns, marked A, at 200, 400, 500 and 600 yards, five rounds at each range; every Officer, Non-Commissioned Officer and man firing his twenty rounds, not one failed to hit the target, the total average points being 39 each; the highest score was made by Sergt.-Major Dingley, namely, 69 points, and the lowest score was 12 points.

Gymnastics.

The R. & O. Mil. say, "gymnastic exercises will be encouraged in all the Schools." I have, therefore, recently obtained from England and enlisted a valuable Non-Commissioned Officer in Sergt. Major Elliott (late gymnastic and fencing instructor to the 9th Lancers), and now that we are to have permanent barracks of our own, I hope before long to be able to establish a gymnasium, in accordance with the regulations.

Saddlery.

The saddlery destroyed by fire has not yet been replaced, but orders have been given to do so, with Canadian make, and if it should prove to be as good as the Canadian made numnahs already received, there will no longer be any necessity to import saddlery to ensure a first-rate article.

Clothing.

MARKET THE STATE OF THE STATE O

The tunics and serges received of Canadian make are excellent, both as to cut and make, but not so the overalls, which are cut too much like trowsers, nor is the quality of the cloth sufficiently strong to stand the wear and tear of hard mounted work, for which purpose specially made pantaloons should be issued.

The greatcoats are warm and comfortable in winter, and so are the fur caps and

winter gloves.

Carbines.

The Winchester Carbine in possession of the Corps I recommend being replaced by the Martini-Henry for reasons already given by me in previous annual reports, particularly too as there is no Winchester ammunition in store here and the new carbine buckets received are made for the Martini-Henry carbine.

Toll Gates.

The Quebec Turnpike Trust Commissioners having demanded the payment of tolls upon their roads I caused a test case to be tried before the Courts of Justice and duly forwarded the full text of the Judge's decision, which was to the effect that the Army Act, 1881, has never been put into force in Canada by the Dominion Parliament and that the Consolidated Militia Act, while it places the Canadian Militia under the Army Act for all the penalties it contains, gives none of its exemptions or privileges

to the force, and, therefore, all Canadian troops, whether "on duty or on the line of march" must pay toll. This decision affects the status and interests of the permanent corps in so many other ways that serious difficulties are certain to arise unless the Dominion Act be amended, so that the Permanent Corps, at least, be placed on an equal footing with the British army.

General Remarks

The first period of service having expired, I desire to draw attention to the position attained in general public opinion by this School as a military educational institution and a model disciplinarian for civil life.

Something over 200 young men have already passed through the school, with a few exceptions of liberal education, and of as high conduct and character, of nerve, energy and of physical qualities equal to any in the world. This success has been attained by the support I have received from my zealous and high-minded staff, both commissioned and non-commissioned, and the conduct, intelligence and good will of the rank and file.

I hope, therefore, there will be no further delay in the high political and military authorities of Canada placing the Royal School of Cavalry upon the same footing as regards its "Establishment" in common with all the other Military Schools of the

courtry.

I have the honor to be, Sir,

Your obedient servant,

J. F. TURNBULL, Lt. Colonel. Commandant, Royal School of Cavalry.

The Adjutant General of Militia, Ottawa.

APPENDIX No. 7.

ANNUAL REPORT ON THE REGIMENT OF CANADIAN ARTILLERY AND THE ROYAL SCHOOLS OF ARTILLERY.

OTTAWA, Dec., 1887.

Sir,—I have the honor to forward herewith, for the information of the Lieut. General Commanding the Militia, the Annual Reports of the Commandants of the Royal Schools of Artillery for the year ended 31st Dec., 1887.

1. The following statistics show the strength of each Battery, and the work

performed as Schools of Instruction :-

REGIMENT of Canadian Artillery.

			Batte	eries.			Total.	
	**	"A" (B" (C") "	Total			
-		and		and		and		and
	Officers.	NC. O.	Officers.	NC. O. Men.	Officers.	N-0. 0.	Cfficers.	NC. O. Men.
Authorized establishment	9	151	9	161	7	100	25	412
Present strength	8	143	9	158	6	97	23	398
Enlisted, or re-enlisted Discharged by purchase do as unsuitable do as invalided Deaths		86 6	1	98 9 8	2	97	3	280
Joined for Instruction. Long Course	13	1 28 1	3 3 8	3 41	1	1	3 3 9 13	70
Certificates Granted. Cong Course Course	3	13 14 1 2 6	8	7 24 11 *8			8	3 2

^{*}Granted under exceptional circumstances to N.-C. Officers and Gunners of Montreal Brigade.

2. As shown by the Commandant R.S.A., Kingston, the number of officers, N.C. officers and men of Field Batteries attending that school for instruction is out of all proportion to those of Garrison Batteries. Similarly, on reference to the certificates granted at the Quebec School this year, it has been ascertained that forty-one were for Garrison and only twelve for Field Artillery. It would therefore appear to be very desirable were the Field Artillery establishment at Kingston increased to the extent recommended by Lt.-Col. Cotton so as to enable practical instruction to be given in all the details of the management of a Field Battery.

3. The organization of "C" Battery was effected in accordance with General Orders of 6th October. The Battery is composed of volunteers from "A" and "B" Batteries. Two Officers and 51 N.C. Officers and men from the former and 1 Officer

and 44 N.C. Officers and men from the latter,

The detachment left their Battery Headquarters on the 4th November, and arrived at Victoria on the 10th November, where they are at present stationed in

temporary barracks.

4. The following changes in the staff and organization have been made during the year:—Lieut. and Brevet Captain J. Peters to be Major Commanding "C" Battery; Lieut. and Brevet Capt. T. Benson and Lieut. G. H. Ogilvie transferred from "A" Battery to "C" Battery, 6th October; Captain G. R. White appointed Quarter-Master "C" Battery, 6th October; Surgeon J. A. Duncan appointed to "C" Battery, 9th November; Veterinary Surgeon W. P. Hall appointed to "B" Battery, 29th January; Veterinary Surgeon J. Massie appointed to "A" Battery, 9th May; Staff Sergeant J. Cornish appointed Master Gunner "C" Battery; Staff Sergeant J. Mulcahey appointed Sergeant Major "C" Battery.

5. I have the honor to call attention to my remarks, made last year, with reference to the increasing unsuitability of the Tête du Pont Barracks for the headquarters

of a School of Instruction and barracks.

The extreme lowness of the water and the impossibility of obtaining proper

drainage have combined to render this locality very unwholesome.

6. During the year the Bands of all three Batteries have been placed upon a similar footing, and the supply of instruments from Government has given general satisfaction.

I have the honor to be, Sir,

Your obedient servant,

D. T. IRWIN, Lieut. Colonel, Commanding Canadian Artillery Regiment.

The Adjutant General of Militia, Ottawa.

ANNUAL REPORT OF "A" BATTERY. REGIMENT OF CANADIAN AR-TILLERY AND ROYAL SCHOOL OF GUNNERY.

Kingston, 1st December, 1837.

Sir,—I have the honor to submit herewith for the information of the General Officer Commanding the Annual Report on the Royal School of Artillery under my command.

I desire to call attention to a comparison of the number of Garrison and Field Artillery who have attended the Royal School of Artillery during the past two years—1st October, 1885, to 30th November, 1887:—

		the same of the sa	Officers.	N.C.O. & Men.	Total
Garrison	Artiller	у	1	7	8
Field	do		per .	75	80

This is due to the small number of Garrison Batteries in the Province, and as they have been still further reduced it is recommended that the means of instructing the Field Artillery at the Royal School of Artillery be increased.

Owing to the limited number of horses, and which from accident and sickness were during the year reduced to eight, the field work was exceedingly restricted.

The Field Artillery Division of "A" Battery with 2 guns and 9 horses joined the Brigade Camp in June, 1857, but owing to the small number of horses little or no drill could be done. The plan, however, is a good one and has a beneficial effect on the other Batteries in Camp.

Within the last few days, however, an increase of eight horses has been authorized, so that by the spring matters will be somewhat improved, and I trust next year to have a more extended practice of duties in the field, such as forced marches, bivouacking, bridging, &c., &c., &c. I would, however, as in my reperts of the last two years, recommend that the number of horses be increased to 26 in all, which number would allow the horsing of 4 guns for drill instruction, and for active service of 2 guns, 2 waggons and 1 forge waggon.

I would suggest that a general service spring waggon and ambulance waggon be

imported for this station.

A tri-weekly equitation class for the gentlemen Cadets of the Royal Military

College has been maintained.

A drill shed is very much needed for the use of the Royal School of Artillery. In winter when the classes are largest its want is very much felt. Understanding that the present Government drill shed is shortly to be abandoned, I would recommend the erection of the next on some site in proximity to the Barracks in ord or that it could be utilized by all.

A detachment of Engineers, consisting of eleven Non-Commissioned Officers and men attending the Royal Military College course, were instructed in Company drill

and general regimental duties. These men worked hard and cheerfully.

I have received every assistance from the Staff of the R.S.A. in carrying on the duties connected therewith.

"A" Battery Regiment, C.A.

The conduct of the men has been very good.

Refle practice was carried out during the summer months on the same system as that of last year, and with satisfactory results.

Owing to the reduction of the Batteries by the drafts for "C," the annual competition between "A" and "B" Batteries did not take place this year as usual.

A new supply of Short Enfield Rifles have been received and issued.

On the 4th November, a draft consisting of 2 Officers and 51 Non-Commissioned Officers and men were sent from "A" Battery to Victoria, B.C.

The clothing is not yet perfectly satisfactory.

The greatest fault lies in the cut of the tunics and serge patrol jackets. The latter, as supplied by a Hamilton firm, being good. Large sizes have to be taken for men of medium height, and are therefore cut to waste in the fitting. The dye of some is inferior, and clothing, blue when issued, shortly turns to a green or claret color. The ankle boots are too low in the instep in proportion to sizes, but are otherwise very good.

I would recommend that for the future enlistments for the Battery should be probationary for three months, with a reduced kit. At the end of that time men to

be allowed to go, or remain for three years.

This, I consider, would be a means of checking desertion and preventing the loss of a large and costly kit. It would also permit undesirable men being got rid of.

I desire to strongly urge the fitting up of a proper recreation room for the Non-Commissioned Officers and men on the modern plan of soldiers' libraries, &c., &c. The room now used in the Tête du Pont Barracks is not in decent repair, and is anything but attractive. The resources of the funds are taxed to the utmost to keep

it in its present shape. Gas has been introduced out of the private funds of the reading room for the purpose of affording enough light and adding to its comfort

and attractiveness.

"A" Battery went into Camp for three weeks in the month of August, the change of air from Barracks being highly beneficial. During that period the annual games and sports were held with great success, the different events being keenly contested.

Repairs.

Some repairs have been affected to fortifications and buildings, but the work was delayed till so late in the season that it has not been as efficiently and completely performed as it should have been.

Forts and Armaments.

The gun carriages and platforms, excepting those in the towers, are all unserviceable.

Barracks.

The introduction of gas into men's barrack rooms, stables, &c., &c., would be little more expensive than coal oil, but much more convenient and safe, and the comfort of the Non-Commissioned Officers and men would at the same time be greatly increased thereby.

The old fashioned latrines should be changed for the dry earth system.

Ordnance Armorer Sergeant R. Parrett, R.A., left the Battery on the 24th November on account of ill health, and returned to England to join the Royal Artillery to which he belongs.

I have the honor to be, Sir,

Your obedient servant,

W. H. COTTON, Lt.-Colonel, Commanding Royal School of Artillery.

ANNUAL REPORT OF "B" BATTERY, REGIMENT OF CANADIAN ARTIL-LERY AND ROYAL SCHOOL OF GUNNERY.

CITADEL, QUEBEC, 31st December, 1887.

Sir,—I have the honor to submit herewith my Annual Report on "B" Battery, R. C. A. and R. S. A., under my command for the year ending 31st December, 1887.

Camps and Outside Instruction.

Staff Sergeant Hamann gave instruction to No. 3 Battery, Quebec Garrison Artillery at evening drills during the winter, and also acted as Camp Sergeant-Major of the District Camp at Lévis in July.

Staff-Sergeant Newnham acted as Instructor to the Quebec Field Battery while in the Brigade Camp at Lévis. Gunner Jordan had charge of and instructed the

Trumpeters of that Brigade.

Sergeant Bouchard, No. 2 Battery, Quebec Garrison Artillery, while going through a Long Course, instructed his Battery during their drill.

10-123

Annual Competitions.

The annual competitions between "A" and "B" Batteries had been arranged for this year but did not take place in consequence of the large drafts from each of these Batteries for "C" Battery, British Columbia.

"B" Battery furnished the staff and a large fatigue party for the Dominion

Artillery Association Garrison Artillery Competition at the Island of Orleans.

Remarks on Armament.

There has been no change except that effected by the fire of the 6th July, when carriages and stores of various kinds, but mostly obsolete; were destroyed, and three 7-inch and one 40-pr. R. B. L. guns were rendered useless. There are in the Citadel only a few rifled guns; none of which could pierce an ironclad at 50 yards range.

General list of Repairs to Armament.

General repairs to Gatling Gun.

Venting S. B Ordnance.

Copper bouching and ringing vent pieces of two 40-pr. R. B. L. (Montreal and Kingston) guns for Dominion Artillery Association competition.

Examination of S. B. and Rifled Ordnance. Repairs to gun carriages, Quebec Field Battery. Sighting and repairs to one S. B. gun, Lévis Garrison Artillery. Fitting Scott's patent revolving sight to four Field Batteries. Repairs to Garrison gun carriages.

Artificers Work.

General repairs and painting Field Division gun carriages and sleighs. Setting up engine and general repairs to engine and machinery.

Examination of ordnance and stores destroyed by fire.

Making gun platforms, Garrison Artillery competitions at Island of Orleans. Building new covering to chain gate (snow sheds). General jobbing and repairs to Barrack stables, saddlery and equipment, which were absolutely necessary, and have been done by the artificers at small expense to Government.

Clothing.

(a.) The material of the great coats issued to the men is so indifferent that it does not wear as it should. I recommend strongly that the red collars should be done away with; they get dirty very quickly, and are a constant source of expense

(b.) The cut of the tunics and trousers is so faulty that expensive alterations are necessary in every case, and in many suits, the size does not agree with the marks. Either properly cut clothing should be supplied, or the allowance to the men for alterations should be increased from 50 cents to \$2 or \$3. The quality of the material -especially in cloth tunics-is very inferior.

(c.) Hospital clothing has been repeatedly asked for, and is badly wanted. (d) Boots are of very bad quality, and are supplied in an unsatisfactory manner.

GENERAL REMARKS.

(a) Citadel Fire.

On the night of the 6th July, a fire took place in the Citadel, starting from some unknown cause in the stables of the Royal School of Cavalry, and burning the wooden constructions on Richmond and Dalhousie Bastions, containing a quantity of stores. Officers and men worked with a will, but it was found impossible to arrest the flames and the sheds were entirely destroyed.

(b) Water Supply.

Water pipes were introduced into the Citadel last year, and this year the supply pipes were carried into the buildings. I would strongly recommend, however, that the present tanks existing in the Citadel, or at least, the large one in front of the Officers' Quarters which can contain 300,000 gallons should be kept in perfect order in case of any accident to the lake pipes.

(c) Married Soldiers.

I concur with other Commandants in strongly recommending the issue of rations to the families of married soldiers up to the number allowed.

(d) Signalling.

A class of Non-Commissioned Officers and men passed in flag signalling this summer and are very efficient.

(e) "C" Battery.

A draft of 44 Non-Commissioned Officers and men under command of Major Peters left on the 4th November, for British Columbia to form, with a similar contingent from "A" Battery, "C" Battery of the Regiment.

Sergeants Newnham and Saunders were sent to Montreal and Halifax to recruit, with satisfactory results. There was no difficulty in obtaining a fine class of young men—intelligent and of good physique—and the Battery is now full strength.

These Batteries are called Garrison Batteries, but include a mounted division, and are each as strong as four Volunteer Batteries. I would respectfully suggest that, as promotion is slow, the senior subalterns should be given the rank and pay of Captains.

(g) Battery Games.

The usual annual games were held this year on the Plains of Abraham, and prizes were given out of the Canteen Fund.

(h) Sanitary State of Barracks.

The surgeon reports that the health of the troops in the Citadel is good, and that the Sanitary condition of the quarters, &c., is better than last year owing to the great improvement in the water supply, and to the new system of drainage and closets.

Major Short acted as Commandant for several months this summer, during my illness and absence on leave. We concur in saying that the conduct of the N.-C. officers and men has been excellent, and that the staff of the School has, as usual, cheerfully given every assistance during the past year.

I have the honor to be, Sir,

Your obedient servant,

C. E. MONTIZAMBERT, Lt.-Colonel, Commandant Royal School Artillery, Citadel, Quebec.

To the Officer Commanding Regiment of Canadian Artillery, Ottawa.

REPORT ON "C" BATTERY, REGIMENT OF CANADIAN ARTILLERY AND ROYAL SCHOOL OF ARTILLERY.

VICTORIA, B. C., 19th December, 1887.

Sir,—I have the honor to submit the following Report on the "C" Battery, R. C. A., and the Royal School of Artillery under my command for the year ending

the 31st December, 1887.

Owing to the recent arrival of the Battery in the Station, viz., the 10th November last, there is very little to report. The behavior of the men since their arrival has been very good and they seem to be well contented. Major Peters, the Officer in command of the Battery en route Quebec to Vancouver, reports that the arrangements made by the Canadian Pacific Railway, both as regards train accommodation and meals, were very good.

and meals, were very good.

'The single Non-Commissioned Cfficers and men are quartered in the Agricultural Hall, Victoria, which was fitted up under my supervision as Barracks and answers the purpose fairly well. Considerable work had to be done both to the main building and the outbuildings. I attach plan showing the amount of room

provided.

The Mayor and Corporation of Victoria have aided me in every possible way in making the Battery comfortable, and the people of the city very generously provided a good supper and gave the Battery a hearty welcome the night of its arrival.

The present arrangements, however, which compel the Officers and married Non-Commissioned Officers and men to reside out of Barracks, owing to want of accommodation, are not satisfactory, and it is to be hoped that the new Barracks to be built on Work Point will be fully completed by the 1st October next year, when the lease of the present premises expires.

Arms and Equipment.

The arms, accourrements and equipment being new are in good order. I regret, however, that the Martini-Henry Rifle was not issued instead of the antiquated Snider-Enfield. The former weapon being for many reasons, especially here on the Pacific, much to be preferred.

Barrack Stores.

These are in good order, and of serviceable pattern. The only exception being the wooden beds which had to be made here owing to the absence of iron ones. The iron pattern bed should be provided at an early date.

Established Strength.

The established strength of the Battery is rather low considering the importance of the position it has to aid in defending, and the fact that the local Force of the Active Militia is, although good in quality, numerically weak, owing to the smallness of the population.

If it is not thought advisable to increase the strength of the Regiment a redistribution of the Batteries, making each equal in strength, would, perhaps, meet the

necessities of the case.

The strength of "C" Battery should, in my opinion, be increased by not less

than one Lieutenant and thirty Non-Commissioned Officers and men.

The provision of twelve horses with a supply of harness and saddlery for two Sub-Divisions of Field Artillery would also add much to the effective fighting strength of the Corps and be of invaluable service in case of attack.

I beg to call your attention to the fact that we are still without one of our three Lieutenants on the present establishment. This makes it very hard work for the two already serving, and I hope that this vacancy may be filled at an early day.

Forts and Armaments.

These have not yet been taken over by me from the Store Department owing to the fact that there is no Storekeeper yet appointed. This is a matter which, however, will be attended to at an early date.

Band.

The formation of a Band will be proceeded with as soon as the instruments which have been asked for arrive.

There are a number of trained Bandsmen in the ranks, so that I hope to have no trouble in forming a Band that will do credit to the Corps and to the service.

Sergeants' Mess, Canteen, &c.

The Sergeants' Mess, Battery Canteen, Library, &c., are already in good working order, as also Tailor's and Carpenter's shops.

Hospital.

This, under the management of Surgeon Duncan is well conducted. Fortunately there have been no serious cases, as owing to the Hospital Ward being in the main building it would have been difficult to treat them. Should these occur they would have to be sent to the City Hospital, where quieter and more isolated accommodation can be provided.

Recruiting.

No public notice has as yet been given that men will be enlisted here. I have no fear, however, but that a considerable number will be obtainable owing to the increased pay allowed at this Station to Non-Commissioned Officers and men.

The case of the Officers, however, deserves consideration. The increased cost of living in this Province over that in the Eastern Stations is at least 33\frac{1}{3} per cent. and this is felt with greater force by the Officers who have to provide nearly everything for themselves, than by the men. It is in my opinion only simple justice to them to give them the same proportionate increase in their pay, viz., 25 per cent.

The question of forage for Officers' horses is still in abeyance; an early and favorable answer to my application for this allowance to each of the Officers is looked for. Every Officer on the permanent establishment should be able to ride

well, and he can only do so by constant practice and exercise.

In conclusion permit me to say that I have every reason to think that "C" Battery, R. C. A., will prove equal in every respect to the other and older Batteries in the Regiment, and although it is not able as yet to boast of active service in the field, it has the honor of being the first completely organized Corps in Her Majesty's service that has crossed the North American Continent from Ocean to Ocean.

I have the honor to be, Sir,

Your obedient servant,

J. G. HOLMES, Lt. Col., R.C.A. Commandant.

To the Officer Commanding Regiment Canadian Artillery, Ottawa.

APPENDIX No. 8.

ROYAL SCHOOL OF MOUNTED INFANTRY.

WINNIPEG, 10th December, 1887.

Sir,—I have the honor to submit for the information of the General Officer Commanding this my annual report of the "Royal School of Mounted Infantry" under my command.

Strength.

I am glad to be able to report that the School is now in good working order and of full strength (except Officers), the present strength being 5 Officers, 100 Non-commissioned Officers and men, and 50 horses.

Heavy Duties.

But I find the duties come very heavy on the men, for they have not only to perform all duties and clean their arms and accourtements, the same as infantry (being Infantry soldiers), but they have also to clean their saddlery and equipments and attend to and groom their horses, which though a labor of love to most of them (for they take a great pride in their horses), still it not only gives to them a great deal of extra work, but it also wears out their uniform much quicker, for no stable fatigue suits have yet been issued.

Daily State.

Out of the total strength of 100 Non-Commissioned Officers and men, the following is the average "daily state": —

	Staff and Duty Sergeants.	Corporals, Lc Corporals and Acting L.C.	Privates.	-
Band and buglers. Servants, batmen and grooms Hospital and average sick In Quartermaster's store. Orderly room clerk and orderly Cooks Pioneer Mens' mess orderlies. Canteen Library and recreation room In Officers' mess In Sergeants' mess. Farrier and blacksmiths. Tailor, saddler and carpenter Staff instructors and color sergeant Recruits at drill. Total "employed."	1 1 1 1 1 1 1 3 3	1	11 6 3 1 1 2 1 2 2 2 2 3 3 3	49
Leaves "for duty."	3	7	41	51
Total strength	10	10	80	100

" Employed Men."

In examining the above state it will be noticed that the employed Non-Commissioned Officers and men are about one-half of the total strength of the School, and are really the cadres for a Battalion which could thus be raised to five times its present number with a very small increase to the staff and employed Non-Commissioned Officers and men.

" Duty Men."

But as to the other half of the Corps which are the duty men, there are nine men daily on guard and gate duty, three on piquet., and four orderly men of rooms, making a total of sixteen for daily duties. It therefore follows that the forty-one duty men are not sufficient to make three reliefs (it would take forty-eight men for this), and so some men must go on duty every other day, and when there are more than the average number of sick or men otherwise off duty, as in the case at present, the duty comes round to all every other day, which in this cold climate is very trying. This is irrespective of all fatigue duties, such as coal carrying, &c., which is a heavy fatigue duty in winter.

Increase applied for.

If to the above duties are added the daily Drill, mounted exercise, and routine of stables, also cleaning not only his horse and equipments but also infantry accountements, it will be seen that a Mounted Infantry Soldier has an exceptionally busy time compared with other Corps; and as he is on guard or duty every other day; I do most respectfully beg that his case may be considered, so that by an increase to the number of the School his now very heavy tour of duty may be lessened.

Brown leather accourrements.

During this year brown leather accourrements have been issued to the Corps and are found very satisfactory in every respect, while they look far more soldierlike than would be anticipated by one accustomed to the white belts.

Clothing and Riding Breeches.

The Riding breeches issued lately are of a very good material and fit very well, and the whole issue of Clothing this year is most satisfactory.

New Stables.

Since my last report the new stables have been finished, they are very convenient and healthy; the iron faced partition doors which divide them in 3 parts are a wise precaution in ease of fire and work well and easily.

Barrack Improvements.

The fence round Barracks has been completed and also the drainage and sidewalks. The new officers quarters will be fit to occupy as soon as the heating furnace is finished.

The men's huts have been newly floored, and a few repairs to the roofs and plastering will make them last for some time, until brick huts can gradually replace them.

Inspections.

The Hon, the Minister of Militia and Defence visited Winnipeg early this month and inspected this Corps on the 7th instant; he also went through the whole Barracks, and his visit resulted very much to our advantage, for he was able to judge for himself how badly some of the buildings wanted repairs, which he authorized to be done; and also other important improvements made, including a Laboratory and Bath house.

The General Officer Commanding the Militia also visited the School on the 5th instant, and after a thorough inspection, was pleased to express himself satisfied with the result.

Horses.

Since my last report we have had the number of horses completed, from 16 to 50, all bronchos, which though very wild at first have turned out well and tractable.

Riding School.

But a Riding School is much required for the winter months, not only to exercise the horses in very cold weather, but also to instruct attached officers who can best spare time in winter.

Field Drill and Rifle Practice.

The Corps has had weekly "field firing" on the prairie as long as the weather would permit, and also constant drill in outpost duties, scouting and skirmishing, besides dismounted drill and Target Practice. A Regimental Rifle Association has also been formed, which has done much to increase the interest in Rifle Shooting, and will, I trust, be the means of making the men good rifle shots.

Gardens.

Acting on the wishes of the General I partitioned off part of the spare ground and laid it out in small gardens for the men. It proved very successful; so many of them took up gardens and attended carefully to them that at the end of the season we had a show and prizes given for best garden and vegetables, which gave them an interest in the Barracks as a home and a pleasant occupation for spare time.

Canteen.

As there is no hospital we use the hut that was made for a Canteen; not only is it a very poor substitute, but having no Canteen that can be called such the men have no comfortable place for social enjoyment (which is now acknowledged as necessary in every properly arranged Barracks) thus men are tempted into bad company in town which they might have avoided if there was a comfortable Canteen to keep them in Barracks.

Attached Officers and Men.

The following is a Return of the Officers, Non-Commissioned Officers and men who have attended this School since my last report.

RETURNS of Certificates and Attendance.

	Grad	le A.	Grad	ie B.	апсе.	ding ol.		Remarks.	
	1st.	2nd.	1st.	2nd.	Attendance	Remaining at School.	Total.	Actual as	
Officers	· · · · · · · · · · · · · · · · · · ·	***********	2	1	5	39	4 1 5 2 15 10 1 5	Did not complete course do do do do Each of those have rec a course of instructio	eive
Total	3	1	2	1	5	13	43		

It must be remembered there are only three Battalions from which we draw applicants to enter the School for instruction. It is a pleasure to be able to report the interest shown by all those attending course of instruction, and I always endeavor to give them every facility and to make their course of instruction pleasant to them as well as instructive.

Quartermaster.

I beg to ask consideration of the importance of appointing a Quartermaster; the Adjutant has his time fully taken up with the discipline, instruction, and duties of the School, and really has not time to attend to the very important duties of Quartermaster.

I am glad to be able to report that I have been ably and willingly assisted by

all the Officers in carrying on the duties of this School.

I have the honor to be, Sir,

Your obedient servant,

JOHN B. TAYLOR, Lieut. Colonel, Commandant Royal School of Mounted Infantry.

The Adjutant General of Militia, Ottawa.

APPENDIX No. 9.

ROYAL SCHOOL OF INFANTRY.

INFANTRY SCHOOL CORPS, "A" COMPANY AND STAFF.
FREDERICTON, 5th December, 1887.

Sir,-I have the honor to submit this my third Annual Report of the Royal

School of Infantry and Corps under my command.

I have already in my Annual Report for 1887, as Deputy Adjutant General, referred at some length to the advantages of both School and Corps in the District under my command. I am glad to know that the Deputy Adjutant General of Nos. 9 and 12 Districts, shares my opinion respecting the presence in Brigade Camp of a porition of the Corps, as may be observed in the memorandum of Lt. Colonel Worsley—copy enclosed. I can with truth repeat what I stated in my previous report, viz, that not only has the Corps as a body been useful as a means of impartparting instruction, but the general work of the School, in the three annual courses, has gone on satisfactorily.

The subjoined Return shows the number of Officers, non-commissioned Officers and men who attended the School since last report, 27th November, 1886, and

obtained certificates :-

Officers.

Grade A, 1st Class (1 Long Course)	7
Now attending	2 2 -
Non-Commissioned Officers and Men.	
Grade B, 1st Class	27
	-

Royal School of Infantry.

Her Majesty has been graciously pleased to signify Her approval of the Cavalry and Infantry Schools of Military Instruction of the Dominion being in the future designated Royal. This is considered a high honor, not only amongst the Officers, non-commissioned Officers and men of the Corps, but amongst those who attend the School for instructional purposes.

Inspection by Major General Sir Frederick Middleton, K.C.M.G., C.B.

The Corps was inspected by the Major-General Commanding at St. Andrew's Brigade Camp on the 8th and 9th of July last.

Target and Judging Distance Practices.

The Corps remained in Camp at St. Andrew's after the breaking up of the Brigade Camp, until the 4th August, and there carried out the usual course of preliminary drills and Target and Judging Distance practices.

Name of best shot, Lance Corporal Gill.

Name of best in Judging Distance practice, Private H. Hazen.

· Music.

The Band continues to be very efficient.

On the completion of the first period of service—three years—it was expected that some of our skilled musicians would take their discharge; the Bandmaster, however, with forethought, is always enabled to recommend a substitute for any man on discharge. Swords, and I hope cross belts, are about to be issued to the Band.

Temperance Lodge and Canteen.

The Temperance Club, in which Major Gordon takes active interest in "A" Company under his Command, formed in 1885, has taken an advanced step during the past year in the formation of a Temperance Lodge in the Corps, with increased

members and renewed efforts for good.

I cannot speak too highly of the advantage of these efforts; crime and misconduct have, as a result, been reduced to the minimum, and the Canteen, at all times conducted with regularity, strictly in accordance with Queen's Regulations, is now considered as a branch of the Coffee Room, where harmless beverages can be obtained, more than as an ordinary Canteen for the supply of ale and porter. There is also a Recreation Room in connection with the Canteen.

Library and Recreation Room.

The Library Committee is as active as usual, and the stock of books has largely

increased.

The Recreation Room, with refreshment stall (coffee room), has been rendered more attractive. I must here state, with pleasure, that during the period of our encampment at St. Andrew's last summer, Neville Parker, Esq., M. D., assisted by several citizens, most thoughtfully placed a Reading and Recreation Room, well supplied with periodicals and papers, &c., at the disposal of the Corps. These kindly actions are duly appreciated by all ranks.

I have submitted a recommendation for new Library and Recreation Rooms,

which may, I hope, be favorably considered.

It is well known that too much importance cannot be attached to the amusement in Barracks, as well as to the useful occupation of the soldier.

Barracks.

Both Officers' and men's Barracks have undergone repairs since last report.

Both buildings, previous to the formation of the Infantry School Corps, had been long unoccupied, requiring much in the way of repairs. These repairs are being efficiently carried out under the supervision of the Clerk of Works, F. Hilyard, Esq.

The number of Officers' quarters is insufficient when the quota of attached

Officers is complete.

Barrack Rooms.

That which I stated in last report as to the interest taken by Major Gordon in the welfare of his men may here be repeated with equal justice. Nothing can exceed the cleanliness and tidiness of the Barrack rooms, all being uniformly arranged and in conformity with the standing orders, while nothing is left undone for the comfort of the soldier with the view to his considering the Barrack Room his "home."

Non-Commissioned Officers and Men.

By means such as those above referred to the "morale" of the men is not lost sight of, and, as already stated, the varied routine of the soldier's duty in Camp or Quarters becomes attractive, discipline is easily maintained and no difficulty is experienced in keeping the ranks filled with men of the best class—those of good

character, well fitted for the service.

As regards the useful occupation of the men above referred to (there is no room for the idler in this country), not only have drill and practice in their varied courses been carefully attended to, but the men of the Corps—which includes many skilled mechanics in its ranks—have been employed with advantage in the different works of repairs; and besides, increased interest is, I am glad to think, being taken in the improvement of Barrack Grounds, knowing that, as in the case of Brigade Depot Barracks and grounds of Imperial Army, occupied from time to time by detachments of the same Territorial Regiment, however frequently changed, on a change of quarters taking place in our case the advantage of any improvements of Barracks and grounds will be felt by our brethern in the same Corps, though perhaps drawn from a distant part of the same Dominion.

The Non-Commissioned Officers have again given valuable proofs, individually

and collectively, of their usefulness and efficiency.

In addition to the important work of instruction in the different "courses"—faithfully done by Sergt. Instructors Fowlie and Polkinhorn—and in the performance of regimental and other duty in the Corps, the following have been employed with advantage in the positions named:—

District No. 8, Brigade Camp, St. Andrews.—Sergt.-Major McKenzie, Sergt.-Major; Quartermaster Sergeant Walker, Quartermaster Sergeant; Sergt.-Instructor Fowlie, Sergt.-Instructor of Musketry; Bandmaster Hayes, Bandmaster; Sergt.

Gregory, Orderly Room Clerk; Sergt. Cochran, Hospital Sergeant.

District No. 9, Brigade Camp, Aldershot, N. S.—Sergt.-Instructor Polkinhorn, Sergt.-Major; Lance-Corporal Fancutt, Instructor; Lance-Corporal Lynch, Sergt. Musketry Instructor; Lance-Corporal Duncan, Supply Sergeant.

Lance-Corporal Lynch was subsequently employed in Regimental Camp at

Cape Breton.

Of the above Non-Commissioned Officers employed in District No. 9, Lt.-Colonel Worsley, D.A.G., states "they answered all his expectations of them, and their conduct in every way was exemplary. The Major General was pleased to express his entire satisfaction with what he saw, and much is due to the detachment from the Royal School of Infantry, Fredericton."

Lance Corporal Fancutt attended a course of signalling, attached to the Royal Engineers at Halifax, where he obtained a 1st Class Certificate, with special men-

tion as to his proficiency.

Recommendations.

1. The want of a permanent Quartermaster in each School has been referred to by more than one Commandant and this want has already been supplied in one instance in the corps, viz, at St. John's, Quebec. I quite concur in the opinion expressed as to this want, by Commandant Royal School of Mounted Infantry, viz., "as most requisite for the comfort of the men and the insuring the Department against waste and loss of stores, &c."

I have submitted and recommended the application for this appointment in the School and Corps under my command, from Sergeant Major McKenzie, who has experience both in District and Regimental work, and if appointed, I consider he would

prove a zealous and efficient Quartermaster.

The recommendation has also been submitted for favorable consideration by the Commandant Royal School of Infantry, St. Johns, Que., as to the appointment of an Adjutant in addition to the authorized strength of the Corps at each station. The necessity for this appointment is also obvious. I concur in the recommendation, while desiring most earnestly to retain the services, as such, of my present Adjutant, Lieut. Douglas Young, whose services have been valuable and at all times cheerfully rendered.

2. Permit me again to refer to my recommendation that N. C. officers and men married with leave and their families be placed on the same footing, as regards the

issue of rations, as those in the Her Majesty's Regular Army.

Conclusion.

It only remains for me to express my sincere thanks to the officers for their continued assistance, their zeal and energy in the discharge of their duties, viz., to Major Gordon, Surgeon Brown, Major and Paymaster Armstrong, Lieutenant and Adjutant Young, and Lieutenants Hemming and Lieutenant and Captain Bremner. These two last named officers have been very useful in the performance of District duties, besides their regimental work.

I have the honor to be, Sir, Your most obedient servant,

> GEO. J. MAUNSELL, Lt.-Colonel, Commandant, Royal School of Infantry.

The Adjutant General, &c., &c., &c., Ctawa.

"B" COMPANY, AND ROYAL SCHOOL OF INFANTRY.

St. Johns Barbacks, 15th December., 1887.

SIR,—I have the honor to submit the following report for the information of the Major-General Commanding, together with such remarks and recommendations I think necessary for the better management and in the interests of the Corps

placed under my command.

The conduct of the men has been good. My officers and N.C.O. have, as usual, performed their duties with zeal and carried out with attention the orders laid down for the discipline of the School. Everything would have gone as nicely as possible had we not been marred by the desertion of six of my musicians during the summer, who were enticed to cross the frontier to form a band.

The details of our work are known to you, day by day, by the weekly returns

sent to Headquarters.

The corps was inspected by the Major General Commanding, accompanied by Lieut. Colonel Duchesnay, D.A.G., of Quebec, and Capt. Wise, A.D.C., on the 20th July last. Before leaving, the General kindly caused his satisfaction to be recorded in a regimental order.

Instruction.

During the year 81 officers, N.C.O. and privates attended the School, with the results shown in the annexed tabular form. To this number must be added 10 N.C.O. and privates of the Company, making a total of 91 who attended the different courses

of instruction. As I remarked in my last report, not sufficient care is taken by commanding officers in selecting their N.C.O. or men for the School. The unsuccess of many is due to their want of education. Often their letters of application are copied, and when left to their own resources they cannot pass the final written examination.

RETURN of Officers, Non-Commissioned Officers and Men who have been attached to the Royal School of Infantry, St. Johns, P.Q., from the 1st to the 31st December, 1887.

	who have		8.I.	C	ERTI	FICAT	ES.		sion.			ly unfit.
RANKS.	rank		B.		Gri	des.		permission	t permission		ol.	medically
	attended.	course	Company,		A		В.	with	Without	Attendance.	at School	Discharged.
	Total	Long	"B"	1.	2.	1.	2.	Left	Left	Atte	Still	Discl
Japtairs	6 23 21	1 2		4	1 10	6			****	1 1 2	1	***
orporals	6 5 20		3	*****		4	1			4 4 8	1	
Total	81	3	10	15	11	14	24	1	1	20	4	

Long Course.

As shown in the above tabular form, one Long Course Officer, Lieut. Arthur d'Orsonnens, attended the Royal Military College and left us in the beginning of June with a first-class Long Course certificate.

During the year changes have been made as to the duration of this Course. I do not know yet how it will work; the Royal Military College Course being of one term only and at a fixed date, the Officer following the Long Course will necessarily have to wait some time to join the Royal Military College, and an interval will occur when he will be without instruction and military supervision. I pray to be allowed to recommend that the Course at the Infantry Schools be extended to nine months, the same as the Artillery Course, thus enabling the Officer to catch the term at the Royal Military College during the year, and as the two courses are concurrent I strongly recommend that the results of the two examinations be added and that from the percentage of the whole, the class of certificate for Long Course be granted by the Commandant of the School of the arm, to which the Officer belongs.

Instruction Outside of the School.

During the year two Brigade Camps were formed not far from St. Johns and I divided my instructors amongst Districts Nos. 5 and 6. I regret I was unable to send any to Quebec. I am glad to say that from reports from the Deputy Adjutants-General the duties of my Non-Commissioned Officers were satisfactorily performed.

RETURN of Non-Commissioned Officers and men detailed for outside duties from 1st January, 1887, to 31st December, 1887.

Rank and Name.	On what Duty.	Fro	m	То		
		188	7.	188	37.	
SergtInstructor Rivet do do do DuPlessis Corp. Goodfellow	Instructor, Joliette College	May		do	15 11 11 14	
	Granby Camp.					
Corp. Goodfellow	Brigade SergtMajor	do	21 21 21	do	1	
	Loprairie Camp.			-		
Sergt. Lamontagne Bugler Walsh do Powell	Brigade Bugler	do	21 21 21 21 19	do do do	1 1 1 1 7	

Administration.

I beg to refer to my last report upon that subject, and beg to draw specially the attention of the Major General Commanding upon the insufficient number of Non-

Commissioned Officers and men to carry on the work of the School.

During the year some changes have taken place in the Corps. Captain and Major Vidal has been transferred to "C" Company in Toronto; Lieut, and Captain C. Coursol has been promoted to the command of "B" Company. This opening to promotion in the School Corps by seniority has been well received and is giving much hope and confidence to subaltern Officers who look up to it to qualify for higher ranks.

A Quartermaster has also been added to the strength, in honorary Captain L. E.

Frenette, formerly of the 9th Battalion.

The regimental system of each School should be thoroughly established by the appointment of a 2nd Captain and the division of the Corps into two Companies. I was unable the other day to order a Regimental Court-Martial, having no Captain to preside, my only Captain being on the sick list at the time.

I am in need of more Staff Sergeants and I pray that an Hospital Sergeant, an Orderly Room Sergeant and a Signalling Instructor be added to the present establishment, giving those, who have performed these duties for merely nothing, a fresh encouragement and a status they deserve, as well as the uniform of their ranks.

Bands and Buglers.

My past experience with the militia has proved to me the necessity of good buglers in every camp of training for the militia. Some means should be taken to have in the band establishment a N. C. O., specially entrusted with the care and duties of training young buglers, and special certificates should be granted to young men who

10 - 13

have proved themselves steady and able to sound all the calls required, in the field

as well as in garrison.

The Bugle Major I also recommend to rank as Warrant Officer, and that bandsmen be classified into two or three classes with different rates of pay, as an incentive to young musicians and the means of keeping in the corps well trained men.

Ranges.

Steps have been taken to obtain a suitable range for our own musketry training as well as for the attached men. I have not been able, as yet, to conclude any arrangements, but correspondence is being exchanged with the Militia Department, and I hope soon for a favorable settlement of the affair.

Recreation, Library and Study:

Efforts of all kinds are made to build a home for the soldier in Barracks, and a permanent committee presided by Sergt.-Major Jos. Phillips, and composed of the Staff Sergeants and others, are continually at work seeking for them amusements which will benefit them physically and keep them out of harm.

Under that committee the library has attained a standard not usually found in Barrack libraries. More than 1,000 volumes, consisting of selected works on history, biographies, travels, science, arts and literature are now at the disposal of the Corps.

To aid and correct, as much as I can within the limits of my power, the want of education in some of the N.C.O. and privates attached to the School, I have established a temporary evening class, where men, during a short course, can go and perfect their writing, learn a little of arithmetic and book keeping, &c. This course is only voluntary but has rendered some service. I can only hope that some day this institution will be officially recognized, as it would be real philanthropy to use the time a soldier has to serve the State to improve his education and render him to society fitted for other works.

Repairs.

Much has been done this year to repair and improve the barracks. The militia architect has successfully drained Barrack A, of which the cellars were for a long

time filled with stagnant water.

The old hospital has been covered with sheet iron and rendered water proof, but nothing more. In my estimates, I again ask for a small amount to continue the repairs of that fine old building, and to divide it into married quarters, stores, gy mnasium, and shooting gallery for the use of Morris's tubes in all seasons.

Water Supply.

Last year I considered it my duty to draw your attention on the insufficiency of the water power to fight a fire in case of accident. I feel obliged to draw again your attention on the subject, and in the meantime pray for the issue of a fire engine for the Barracks, as well as a telegraphic alarm from the Barracks to the fire department in the town of St. Johns.

> I have the honor to be, Sir, Your obedient servant,

> > G. D'ORSONNENS, Lt.-Colonel, Commandant Royal School of Infantry.

To the Adjutant General of Militis, Ottawa, "C" COMPANY, AND SCHOOL OF INFANTRY.
NEW FORT BARRACKS,

TORONTO, 3rd December, 1887.

Sir,—I have the honor to submit, for the information of the Major-General Commanding, the Annual Report of the progress and state of the Royal School of Infan-

try under my command, for the year 1887.

Again, as in 1886, has the School been in operation for the whole year without ceasing, a "Special" course being given during the usual summer vacation for the convenience of Officers of the City Corps and others who could not attend during the regular terms.

As up to the present time this has been the only Military School in the Province of Ontario, it has been found impossible to pretend to meet the requirements of the

force, in the way of instruction, without an extra term.

Below is given a summary of the number admitted and certificates granted since my last report:—

Distribution.	Officers.	NC. O. and men
Remaining from 1886	1	5
Joined in 1887		80
Passed do		38
Withdrawn or failed	. 16	44
Remaining	. 0	3
	=	=
The certificates given were classified as under :-		
1st Class, Long Course, Grade A		2
1st do Short do do		
2nd do do do		8
1st do Special do		4
2nd do do	********	20
1st do Short do Grade B	********	2
2nd do do do do	*********	28
Buglers		8

In a former report I complained of the want of care in the selection, by Commanding Officers, of those sent for instruction as Non-Commissioned Officers, and I have a second time to refer to the same subject; a glance at the summary above given shows that not half the Non-Commissioned Officers and men sent obtain certificates, and even with many of those successful, the required number of marks was only just obtained and no more.

Drill Shed.

I must again press for the erection of a Drill Shed at this School. We are terribly at a loss, in the winter months, for a building sufficiently large to meet the requirements of instruction.

Equitation.

The necessity for adding equitation to the course of instruction at the Schools of Infantry appears more prominent each year. In my capacity of Deputy Adjutant General I find the majority of Infantry Mounted Officers poor horsemen, and in consequence more attention is bestowed by them on parade to their horses than to their men.

Camp.

"C" Company, I. S. C., under Lient. Wadmore, was present in the District Camp at Niagara, and rendered most effective assistance in the form of instructors 10-13-

as well as soldierly examples. Under authority at the time given, the attached Officers about finishing a Short Course also joined the Camp, and being distributed among the different Corps proved of great use.

Repairs and Works.

I have to report all the repairs and works to barracks, &c., authorized during the year as satisfactorily completed, still leaving, however, very much yet to be done in replacing the remaining old floors, ceilings and window frames, worn out through

long use.

The alteration in the system of heating, as recommended by me, has not yet been carried out, but I hope in the interests of economy, comfort and convenience means may be found during the coming year whereby this much needed change may be effected. I would also strongly recommend the substitution of gas or electric light for coal oil in lighting the barracks and approaches thereto, as another necessity and advantage to the service. During the past two years the sea wall on the lake front of the barracks has received a great deal of repair and very little more money expended will make it sound and good for years to come. Along the lake shore, on either side of the barracks, however, the bank is very fast disappearing through the action of the water, and immediate steps are necessary if the land is to be preserved. An esplanade or line of piles should be laid down.

By the artificers and men of "C" Company, a large amount of work has been

done during the past year in addition to the regular duty.

A good dock 100 feet long, begun in 1886, is now completed; the main road to the city regraded, together with an entirely new piece of road built to secure a shorter way to the west end of the town, have been among the principal works undertaken and carried out.

Staff.

The Officers and Non-Commissioned Officers doing duty in connection with the School at this station I have pleasure in reporting as most earnest and zealous in their endeavors to promote its efficiency, also Lieut. Colonel Alger, the District Paymaster and Superintendent of Stores.

By the establishment of an Infantry School at London the promotion from here of Major (now Lieut. Colonel) Henry Smith, has followed, and I cannot permit the opportunity to pass without recording my opinion of this Officer, as one of the most

enthusiastic and hard working in the Militia force.

Major Vidal, from "B" Company, I. S. C., his successor, has reported and taken up his duties.

I have the honor to be, Sir,

Your obedient servant,

W. D. OTTER, Lieut. Colonel., Commandant Royal School of Infantry, Toronto.

"D" COMPANY, AND ROYAL SCHOOL OF INFANTRY,

London, December, 1887.

This School, of which Lt.-Col. Smith is Commandant, is only in course of organization, and therefore no report on it has been received.

APPENDIX No. 10

CERTIFICATES, ROYAL SCHOOLS OF MILITARY INSTRUCTION.

Names of Officers, Non-Commissioned Officers and Men of the Active Militia, who have obtained Certificates during the Year 1887.

ENGINEER.

			Dat Certif	0	ours	Grade.			
Name and Rank,		Corps.	First Class.	Second Class.	Long.	Short.	Special.	A	В
Balfour, Sergeant E Brown, Sapper T Burpee, Sapper F Hamilton, Sapper J Mills, Sapper A. F Ronald, Sapper J. R Troy, Corporal J J Turner, Sapper B. Young, Sapper J. R	do Brighton do do do do Montreal	Co	do 9	May 10 do 10 do 10 do 10	L	00 00 00 00 00 00 00 00	*****		88888888

ARTILLERY.

							7 7	
Amyrauld, 2nd Lieutenant A. H	Shefford Field Battery	Dec. 21			S	Service .	A	*****
Balfour, Gunner R					8	****		В
Bartlett, Gunner J	Halifay Brigade		Mar. 31					200
Benton, Brigade Sergeant Major J.	Montreal do	*********	Dec 11				*****	100
Bergeron, Lieutenant J. E. P	No 2 Rettown Lovis	Out 26	000. 41	T.	*****		A	
Paraba Consent Vaion A	do a Battery, Mevis	000, 20	Mor 21	-	2	*****		B
Berubé, Sergeant Major A Blinkhorn, Corporal G. W	Fander Wald Pattern	Man 91	mat. or		20		*****	
Billikhorn, Corporal G. W.	Educion Field Battery	de 21		******	00			1900
Brewer, Corporal H. N	Woodstock do	00 21	T	12752		****		1
Bridgeford, Sergeant J. S	" A" Battery, R. U. A.	**** *****	Jan. 1	L				- 25
Brimstone, Gunner G	do		Sapt. 2		S		-	
Cameron, Bombardier E	Toronto Field Battery		Mar. 31	*****			*****	
Campbell, Gunner C	Woodstock do	Mar. 31		*****	S		****	B
Capes, Gunner S. R	Gananoque do	do 31		6668 M	8	*****	*****	B
Carroll, Corporal H	Halitax Brigade	do 31			S		*****	
Chamberlain, Gunner W						-		B
Christopher, Gunner A	New Brunswick Brigade		Mar. 31		8			
Olayton, Gunner J. P	do	Mar. 31		-41661	S	****	****	
Connolly, Corporal M	Levis Battery		Mar. 31	*****	S	INTRA		В
Craig, Bombardier E	Digby do	Mar. 31			S	*****		В
Crawford, Gunner W. M	Winnipeg Field Battery.		Mar. 31		S		*****	B
Crowe, 2nd Lieutenant W	Sydney do	Mar. 30	*****		S		A	
D'Aoust, Acting Bombardier G	"R" Battery, R. C. A.	Dec. 28	*****		8			940
DeChamard, Acting Bombardier C.	u An do do	1200000	Sept. 2				*****	
De Wolfe, 2nd Lieutenant J. C	Halifay Brimada	June 5				Sn	A	
Dimock, 2nd Lieutenant J. S	do do	do 5				Sp.	A	
Donaldson, Sergeant H	I D Reignada P A	Sent 2		T.		oh.	-	B
Drannan Contain W M	Vinceton Field Dettern	April 19	******	M	· ·		A	-
Drennan, Captain W. M	Inmagaton rield percera."	white 12			13	*****	at .	

			e of ficate.	C	ourse		Gra	de.
Name and Rank.	Corps.	First Class.	Second Class.	Long.	Short.	Special.	A	В
Ducharme, Corporal L. J. O	"A" Battery, R. C. A	Jan. 1	**********	L		***		В
Faragher, Gunner W	Montreal Brigade		Dec. 11	***	*****	Sp.	****	B
Fellows, Acting Bombardier W	"B" Battery, R. C. A	Dec. 11 Feb. 28			8	Sp.		B
Fellows, Sergeant W	do	Oct. 26	******	L	*****			B
Field, Bombardier S J. A	Montreal Brigade	Dec. 11		****	S	Sp.	`A	В
Fisher, Gunner U. H.	New Brunswick Brigade.		Mar. 31		S	mann.		В
Fyfe, Bombardier A	"A" Battery, R. C. A	Dec. 11	Sept. 2	*****	S	Sp.		B
ryle, bombardier W. U.	do	do 11	*********	****		Sp.	****	B
Galloway, Corporal A	Hamilton Field Battery. Shefford do	July 14	******	*****	S	****	*****	B
Gibson, Staff Sergeant G. M	Montreal Brigade		Oct. 26	L		*****	,,,,,,,,	B
Gore, Bombardier R	Ourham Field Battery 'A' Battery, R. C. A	Sept. 2		L	S	****	*****	B
Gowling, Gunner P	Montreal Brigade		Dec. 11		12000	Sp.		B
Grant, Gunner J. C	New Brunswick Brigade.		Mar. 31	*****	8			B
Halliday, Gunner S.	do		do 31		SS	****		B
Harper, Gunner T	Montreal Brigade	Dec. 11		** 651		Sp.		B
Harrison, Bombardier B	do			*****	88		****	B
Hogg, Gunner J.	Picton Battery		do 31	****	S	,,,,,,		B
Homer, Corporal W. J Irving, Lieutenant P A	Hamilton Field Battery. British Columbia Brigade	Mar. 31 Dec. 19	**********	*****	S	Sp.	A	B
Reough, Bombardier D	"B" Battery, R. C. A	do 28	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		8	mp.		B
Kirkpatrick, Gunner W	Montreal Brigade	Mar. 31			S	Q.		B
Lavoie, Sergeant L.	"B" Battery, R. C. A		Oct. 26	L	*****	Sp		B
Little, 2nd Lieutenant H. R	DRIBA DEIGROE	June D				Sp.	A	*****
moore, Uaptain F. S.	P. E. Island Brigade	June 27			SS		A	*****
Mulcahy, Sergeant A McDonald, Sergeant J	P. E. Island Brigade "A" Battery, R. C. A	Jan. 1		L				B
McGowan, Corporal H	New Brunswick Brigade.				88		****	B
McKenzie, Lieutenant S. A	do		Mar. 31		8	The second second	******	B
McLeod, Captain W. McK.	Sydney do	Mar. 31	******		88		A	
Nealy, Bombardier J	New Brunswick Brigade	do 31			S		158(8)	B
Ogilvy, 2nd Lieutenant J O'Leary, Gunner M	Montreal Brigade	April 16	-4141114411/	*****	CV	Sp.	A	B
U Leary, Acting Bombardier J	do		Oct. 26	141		****	2000	B
Parker, 2nd Lieutenant F. W	Halifax Brigade	June 5	do 26	200	*****	Maret Mare	A	*****
Pilton, Corporal W	Hamilton Field Battery	Nov. 30		CONTRACT.	Q	8p.	A	B
LIEVORD AND DEF W.	BATIATE H. II A	A TIPIL 18			53	****	ine	B
Prevost, Bombardier W Prower, Captain J. E	8th Battalion	Sept. 13		L	*****		A	В
Reid, Bombardier E	Suchord Field Dattery	Mar. 31	******		8	*****		B
Michards, Gunner J.	Montreal Brigade		*****	******	20.00			B
Ross, 2nd Lieutenant A. G	Winnipeg Field Battery.		Aug. 21	*****	*****	Sp.	A	NOO!
Seale, Corporal W. R.	Shefford do	Vaniana and	Dec. 22		200		*****	B
Secord, Bombardier H. C	Welland Canal F. B	Mar. 31	***** *****		8	*****		B
Scott, Gunner H	Richmond do	do 31	Sent 2		8	2000		
Stephen, Bombardier W. R.	Sault Ste. Marie M. A	*****	Sept. 2 Mar. 31		200	****	****	B
Swallow, Gunner A Swallow, Acting Bombardier A	" B" Battery, R. C. A	April 16			S		****	B
Makin Market Barret Market	Digby Battery	20		T.	S	ARPAT	****	B

		Dat Certif	C	ours	0.	Gra	de.	
Name and Rank.	Corps.	First Class.	Second Class.	Long.	Short,	Special.	A	В
Turnbull, Acting Bombardier J Vaughan, Gunner J Wallace, Gunner M Willis, Corporal T Wood, Bombardier J	Halifax Brigade New Brunswick Brigade "B" Battery, R. O. A	Feb. 28	Mar. 31	*****	00000	****		BBBBBB
Total 94	************************	63	31	15	63	16	18	76

CAVALRY.

Bartlett, Corporal H	Royal School	Cavalry.	Dec. 31, '86			8	****		B
Billings, Lieutenant J. S						8	*****	A	****
Bliss, Lieutenant G. W						S	awal s	A	****
Bliss, Captain L. D. C. F	Ottawa Field	Battery	Sept. 17	***** ****		22.5	Sp.	A	
Bryant, Corporal J						S	*****		B
Caines, Troop Sergeant Major J						8	-		B
Dickson, 2nd Lieutenant R. C						S	****	A	14831
Gerow, Corporal G	3rd Regiment		Mar. 31		*****	8			B
Hewson, Private C	8th do	**********	·	April 30		8	*****		B
Hunter, Corporal T	4th do	**********	Mar. 31	******	*****	S		*****	B
Hewson, Private C	4th do	******** ***		Nov. 30		8	*****		B
Maunsell, Captain G. S	8th do	********	Dec. 31		L.			A	
Methot, Corporal A	Royal School	Cavalry	do 31		-	S			B
Murray, Private J. E	8th Regiment		Mar. 31			8	*****	******	B
Dewald, Private C	GG. Body	Guard	Dec. 31, '86			S	****		B
Phinn, Private W						8	*****	*****	B
Pomroy, Captain A. L	5th do	**********	April 30	******		8		A	400
Ross, Corporal W. D	Q. O. C. Hus:	sars	Mar. 31	******		8			B
Ryan, Corporal C. E	8th Regiment	*** **** * ***	*****	Mar. 31	*****	8			B
Servis, Sergeant A	2nd do	*********	14000000	Jan. 10	******	S			B
Servis, Sergeant A	8th do	***********	War. 31	********		8			B
Sherman, Corporal W. W	3rd do	**********	do 31			S			B
Street, Private J. A	P. L. D. Guar	da Eb		July 12	*****	S		*****	B
Sutton, 2nd Lleutenant D	3rd Regiment		April 30	*****		S		A	
Lufford, Private M. W						S	*****		B
Wallace, Sergeant F. W			********			8		100000	B
Warner, Private E			Mar. 31			S			B
Whelpley, Lieutenant F. E							Sp.	A	
Wiles, Private J. H		*********		Mar. 31		S			B
Wood, Sergeant R. W			Mar. 31			8			B
and mark-market it termine termine	- Servoop					_			-
Total 30			20	10	1	27	2	8	25

INFANTRY.

	1000	20.000						~		
Allan, 2nd Lieutenant J. A. W	12th	Battalion		***********	Dec 3	*****	20.51	Sp.	A	****
Alves, Corporal J	66th	do			June 30	*****	S			B
Arnold, Sergeant G. B	94th									
Ashworth, Usptain G. J	12th	do		June 30			****	Sp	A	
Badgley, 2nd Lieutenant G W	3rd	do		Nov. 30				Sp.	A	*****
Bangs, Private E	et Bis	Company, I.	8. 0.	April 1	*****	******	S			В
Barrett, Private D	67th	Battalion		***** ********	Mar. 31	*****	8		*****	B
Barton, Private H		do	** *****		do 31		S			B
Beckett, 3nd Lieutenant D. W	56th	do	*******	************	do 31		8			В
Bell, Private W	67th	do	** ** ***	**** ********	do 31	*****	S			В
Bentley, 2nd Lieutenaut W. D	64th	do	****	April 30			-	Sp.	A	
Birchard, Lieutenant J		do			Aug. 13	*****		Sp.	A	

	-			Date Certifi		(Dours	10.	Gra	de.
Name and Rank.		Corp	a.		1			1 .		,
		- page	-	First	Second	4	45	18.1		-
				Class.	Class.	n n	OF	Special	A	B
				Constant Const	2.11012	Long.	Short.	Sp		
	-				_	-	-	-	-	-
Bloomer, Private R. F	u an	Compa	ny,I.S. C.		Don 2		0			D
Betsford, Lieutenant A. W	31st	Battalion	1			*****	20 20	****	A	B
Boulter, Sergeant F	82nd	do		Dec. 14	ound ou		8	12521	A	B
Bourke, Corporal J	c. C	Compar	1y, I. S. C.	******	April 15	*****	8			B
Bowman, 2nd Lieutenant J. W	13th	Battalio	n		Aug. 13		14991	Sp.	A	41110
Boyer, Captain G E	Soha	do	- 2 To 6	Mar. 31	****		8	****	A	*****
Braithwaite, Sergeant C. P Brearley, Private M	эспо	do					8	******		B
Bredin, Lieutenant Colonel J. H	59th	Battalion	*****	Mar. 31			8	Sp	A	В
Brock, Lieutenant H	2nd	do					*****	Sp.	A	*****
Brondgeest, Corporal T. W	95th		******	do 31	**** ******		8	*****	*****	B
Broughall, 2nd Lieutenant G. L. W	90th	do	**********	April 20	*********	******		Sp.	A	
Brown, Private H. L.	2641	M. I	*******	Aug. 3	*****	-	S		*****	В
Brown, 2nd Lieutenant J. S Burland, Captain J. H	6th	do	n	Inly 8	Aug. 13		170000	Sp.	A	****
Burnham, Corporal W. F		Compan	y,I.S. C	July 6	Dec 3	******	8	Sp.	A	B
Calder, Sergeant C	11th	Battalio	n	*********		****	S			B
Caldwell, Private J	" B"	Compan	y, 1. S. C.	********			179		*****	B
Cameron, 2nd Lieutenant A. B	10th	Battalio	D	*******				Sp.	A	*****
Campbell, Private H	55th	do	******			*****	S	*****		B
Campbell, 2nd Lieutenant J. S	191h	do	**********	Inly 0			*****	Sp.	A	
Cartle, Private E. H	67th	do	***************************************	July 6	···········		0	Sp.	A	D.
Chambers, 2nd Lieutenant E. H		do	* ***	Mar. 31			8	Sp	A	В
Charest, 2nd Lieutenant C		do		*		******	8	meres.	A	*****
Charter, Private A. B	57th	do	*********				8			B
Chute, 2nd Lieutenant N. E	69th	do		Mar. 31	********	****	S	*****	A	*****
Clark, Sergeant F. J		do		Aug. 3					*****	B
Cleveland, 2nd Lieutenant G. M		do					8	0-	*****	B
Coote, 2nd Lieutenant F		do	*************	*********			6.9	Sp.	A	24000
Côté, Captain J. G		do	**********	**************					A	******
Crockett, Lieutenant G	82nd	do	******	Mar. 31	*********			*****	A	
Cullingworth, Sergeant J. E		do	******		Mar. 31		8			B
Davies, Private J. B.	74th	do		Nov 30	************	*****	S	****	-	B
Davison, 2nd Lieutenant T. E	66th 17th	do	********			The same of		Sp.	A	
Desbarats, 2nd Lieutenant E	3rd	do	**********	Dec. 1	Mar. 31		S	Sp.	A	
Desnoyers, 2nd Lieutenant M. G. E.		do	******	**********		******		Sp.	A	******
Dewson, Lieutenant W. W	21st	do	*********	******				Sp.	A	*****
Dickie, Sergeant A. W.	681h	do	**********	********	Mar. 31		8		*****	B
The state of the s	Bist	do	**********	16.00 07				****	20.50	B
Dobell, 2nd Lieutenant W. M.		do	******	Mar. 31	************		8	Q.,	A	*****
	87th	do	******	April 1		L		Sp.	A	*****
Downie, 2nd Lieutenant E		do	ann inno	War. 31	apin 10		8	op.	A	*****
Doxtader, Sergeaut P		do		Dec. 3		******	S	*****		B
Dunn, 2nd Lieutenant C. J.	8th	do	***********	Mar. 31			ver.	Sp.	A	
Eston, Lieutenant D. I		do	******	June 30				Sp.	A	*****
English, Corporal d. H	14th	do	*** ******				8			B
Ferry, Sergeant E	lat	do		************	April 1	******	88		. 64441	B
Findley, Sergeant W	54th	do	#**********	Dec. 3	do 1	*****	28	****	****	8 B
Finnie, Private W		Compan	y,I. S. O.				3			B
Flett, Sergeant T. R	90th	Battalio	D		**********	146291	S		*****	B
Forster, Private W. D	16 A "	Compar	1y, L. S. C.	do 31			8		****	B
Forsyth, Sergeant R			d		June 30	******	8	5.80		B
Foster, Private A	35th	do	*** ********		July 6	200000	8		*****	B
Fox, Captain T. W	83rd 201h	do	*** *******	War 31		****	S	Qr.	·****	B
	78th	do	**** *****	Mar. 31 June 30		****	8	Sp.	A	*****
	100000	44.0	*** *****	- MALO UUISI			10.7	*****	-62	

Name and Rank. Corps. First Second Sec						-	_			_	_
Giraci, Sergeant J							C	ours	0.	Gra	de.
Girard, Sergeant J	Name and Rank.		Corr	8.				1			
Girard, Sergeant J							80	rt	cia	A	В
Girard, Sergeant J					Ulass.	Class.	nor	Sho	be		
Goodfellow, Corporal R. "B" Company, I. S. C. April June 30 S A Grierson, Lieutenant J. F. 34th do Aug. 13 Sp. A Gusy, Private J "B" Company, I. S. C. July t S B" Company, I. S. C. July t S B A Mar. 31 S Sp. A B Hamilton, Sergeant M STth do Mar. 31 S Sp. A B Hebert, 2nd Lieutenant Z. J. R. 65th do Mar. 31 S Sp. A B Heinricks, Corporal J. S. G-G-Foot Guards July 6 S B B Heinricks, Corporal J. S. St. B B Hill, Jeuvenant F. W 44th do Dec. June 36 S A Hillsey, Lieutenant F. W 44th do Dec. June 36 S A Hillsey, Lieutenant W July 6 S B B Hillsey, Lieutenant W July 6 S B B Hillsey, Lieutenant W July 6 S S A Hillsey, Lieutenant F. W 44th do Dec. June 36 S A Hillsey, Lieutenant W July 6 S S A B July 6 S S A B July 6 S S A Hillsey, Lieutenant W July 6 S S A B July 6 S S A Hillsey, Lieutenant W July 6 S S A B July 6 S S A July 6 S S A July 6 S S A B July 6 S S A		_					_	- 00		_	-
Goodfellow, Corporal R. "B" Company, I. S. C. April June 30 S A Grierson, Lieutenant J. F. 34th do Aug. 13 Sp. A Gusy, Private J "B" Company, I. S. C. July t S B" Company, I. S. C. July t S B A Mar. 31 S Sp. A B Hamilton, Sergeant M STth do Mar. 31 S Sp. A B Hebert, 2nd Lieutenant Z. J. R. 65th do Mar. 31 S Sp. A B Heinricks, Corporal J. S. G-G-Foot Guards July 6 S B B Heinricks, Corporal J. S. St. B B Hill, Jeuvenant F. W 44th do Dec. June 36 S A Hillsey, Lieutenant F. W 44th do Dec. June 36 S A Hillsey, Lieutenant W July 6 S B B Hillsey, Lieutenant W July 6 S B B Hillsey, Lieutenant W July 6 S S A Hillsey, Lieutenant F. W 44th do Dec. June 36 S A Hillsey, Lieutenant W July 6 S S A B July 6 S S A B July 6 S S A Hillsey, Lieutenant W July 6 S S A B July 6 S S A Hillsey, Lieutenant W July 6 S S A B July 6 S S A July 6 S S A July 6 S S A B July 6 S S A	Gland Samont I	CA+h	Pattalia			April 1		0			D
Gray, Lieutenant J. F. 34th do	Goodfellow, Corporal R	et B 11	Compa	ny, I. S. C.	April 1						200
Gusy, Private J	Gray, Lieutenant J	35th	Battalio	n	********	June 30	THE RESERVE		4444	A	
Guy, Zhotenant Colone H. C. 77th do	Grierson, Lieutenant J. F	34th	Compa	T S C		Aug. 13				1	
Gwyn, Lieutenant Colonel H. C. 77th do	Guy, 2nd Lieutenant E P	3rd	Battalio	n	****** -*******	Nov. 30		2011			11000
Hebert, 2nd Lieutenant Z. J. R. 65th do	Gwyn, Lieutenant Colonel H. C	77th	do	*********		Aug. 13	*****				
Heinricks, Oorporal J. S.								1			1
Henry, Private W										1000	
Hillary, Jieutenant R. M. 12th do June 30 S A Hiscott, Oaptain J. 19th Battalion Dec. 3 S A Hiscott, Oaptain J. 19th Battalion Dec. 3 S A Holden, 2nd Lieutenant W J. 32nd do do 3 S A Horan, Sergeant W 34th do April 30 Sp A Howel, 2nd Lieutenant J. H. 90th do April 20 April 16 Sp A Howel, 2nd Lieutenant J. H. 90th do April 20 April 16 Sp A Jackson, Private J 19th do Dec. 3 Sp A Jackson, Private J 19th do Dec. 3 Sp A Jewell, Oorporal B. K. 82nd do Mar. 21 Sp A Johnson, Private P 0 "A" Oompany, I. S C Nov. 30 Sp B Johnson, Private P 0 "A" Oompany, I. S C Nov. 30 Sp B Johnson, Private A E 62nd do Dec. 3 S B Johnson, Leutenant R G 2nd Battalion Dec. 3 S A Johnson, Private A E 62nd do Dec. 3 S A Johnson, Private A E 62nd do Dec. 3 S A Johnson, Private A E 62nd do Dec. 3 S A Johnson, Private A E 62nd do Dec. 3 S A Johnson, Leutenant R G 2nd Battalion Mar. 31 S B Kenrey, Corporal G "A" Oompany, I. S O Nov. 30 S B Kelly, Private T J "B" Oompany, I. S O Nov. 30 S B Kenledy, Private L 57th Battalion Mar. 31 S B Kennedy, Private L 57th Battalion Mar. 31 S B Kennedy, Private L 57th Battalion Mar. 31 S B Labelle, Lieutenant A E 65th do do 31 S B Labelle, Lieutenant A E 65th do do 31 S B Lamontagne, Sergeant E 59th do Mar. 31 S B Lamontagne, Sergeant E 59th do Mar. 31 S B Lamontagne, Sergeant E 59th do Mar. 31 S B Lamontagne, Sergeant E 59th do Mar. 31 S B Machen, Sergeant E 65th do Mar. 31 S B Machen, Sergeant E 59th do Mar. 31 S B Machen, Sergeant E 65th do Mar. 31 S B Machen, Sergeant E 59th do Mar. 31 S B Machen, Sergeant T 6 70th 70th	Henry, Private W	57th	Battali	OD 100000		Mar. 31			100		1
Hinley, Private H	Hillary, Lieutenant R. M	12th							The state of		
Hiscott, Captain J									Mark Committee	1 20	
Hole, 2nd Lieutenant C. C	Hiscott, Captain J	19th	Battali	on	Dec. 3			8		A	100000
Horan, Sergeant W											1
Howden, 2nd Lieutenant J. 90th do	Horan, Sergeaut W										
Jackson, Private J 18th do Oct. 18 Sp. A B Jackson, Private J 19th do Dec. 3 S B Jewell, Oorporal B. K 82nd do Mar. 21 S B Johnson, Private P. O "A" Oompany, I. S. C. Nov. 30 S B Johnson, Idu Lieutenant R. G 2nd Battalion Mar. 31 S A Johnson, Lieutenant R. G 2nd do Dec. 3 S A Johnson, Lieutenant R. G 2nd do Dec. 3 S A Johnson, Lieutenant R. G 2nd do Dec. 3 S A Johnson, Lieutenant R. G 2nd do Dec. 3 S A Johnson, Lieutenant R. G 2nd Battalion Mar. 31 S A Johnson, Private T. S Sand Battalion Mar. 31 S B Kelly, Sergeant M. S 2nd Battalion Mar. 31 S B B Kennedy, Private L. 67th Battalion Mar. 31 S B B Kupkey, 2nd Lieu	Howden, 2nd Lieutenant J. H										
Jackson, Private J											
Johnson, Corporal C	Jackson, Private J	19th									
Johnson, Private P. O. "A" Company, I. S. C	Jewell, Corporal B. K	82nd	do	********	*****	Mar. 31		S	No.		
Johnson, 2nd Lieutenant R. G.	Johnson, Corporal C	12th	do	n P I an		Nec. 3	-			1000	
Johnson, Lieutenant R. G.		2nd	Battalio	Il	***********	Mar. 31	*****		100000		
Really, Sergeant M S	Johnson, Lieutenant R. G	2nd	do		Dec. 3		*****	8	1000		
Reilly, Private T J	Vernor Corners G	62nd	Compe	DETS C	************	Mar. 31	*****				23
Kennedy, Private L 67th battalion Mar. 31 S B Kirkman, Sergeant E. S. 95th do Mar. 31 S B Kupkey, 2nd Lieutenant J. J. 67th do do 31 S A Labelle, Lieutenant A. E. 65th do do 31 Sp. A Sp. A Laframboise, 2nd Lieutenant C. A. 65th do do 31 Sp. A Sp. A Lamarre, Color Sergeant A. 85th do Dec. 3 S. B A B Lamontagne, Sergeant E. 9th do Sept. 1 L. L. B Levaless, 2nd Lieutenant W. T. 43rd do Mar. 31 S. A B Levaless, 2nd Lieutenant G. A. 69th do Mar. 31 L. B B Levaless, 2nd Lieutenant G. A. 69th do Mar. 31 S. A M Lee's Oorporal T. O. 71st do Mar. 31 S. A M Lee's Oorporal T. O. 42nd do Aug. 13 S. B Lester, Corporal G. W.	Keilly, Sergeant M S	82nd	Battali	Ou	**************	Mar. 31	C 42.41				Tr
Strikman, Sergeant E. S.	Keliy, Private T. J	"B"	'Comps	ny, I. S. C.	April 1		****				
Rupkey, 2nd Lieutenant J. J. 67th do do 31 S A Labelle, Lieutenant A. E 65th do do 31 Sp A Laframboise, 2nd Lieutnant C. A 65th do do 31 Sp A Lamarre, Color Sergeant A 85th do do 31 Sp A Lamarre, Color Sergeant E 9th do Sept. 1 L Lamarre, Color Sergeant E 9th do Sept. 1 L B Lawless, 2nd Lieutenant W. T 43rd do Mar. 31 S A LeCain, 2nd Lieutenant G. A 69th do Mar. 31 S A LeCain, 2nd Lieutenant G. A 69th do Mar. 31 S B Lester, Corporal G. W 42nd do do 31 Sp A Lester, Corporal G. W 42nd do do do 3 S B B Lighthall, Osptain A Lieth do Mar. 31 S B Lighthall, Osptain A Lieth do Mar. 31 S B Lighthall, Osptain A Lieth do Mar. 31 S B Macbee, Sergeant B. E 75th Battalion Mar. 31 S B Macdonell, Sergeant H. E R. S. M. I Iune30, 86 S B Mackay, 2nd Lieutenant F. S 65th do Mar. 31 S B Mackay, 2nd Lieutenant N 2nd do Mar. 31 S B Maleod, 2nd Lieutenant N 2nd do Mar. 31 S B Maleod, 2nd Lieutenant J 62nd Battalion Oct. 31, 786 S A Maruning, 2nd Lieutenant J 62nd Battalion Oct. 31, 786 S A Maruning, 2nd Lieutenant J 62nd Battalion Oct. 31 Sp. A Maruning, 2nd Lieutenant J 62nd Battalion Oct. 31 Sp. A Maruning, 2nd Lieutenant J 62nd Battalion Oct. 31 Sp. A Maruning, 2nd Lieutenant J 62nd Battalion Oct. 31 Sp. A Maruning, 2nd Lieutenant J 62nd Battalion Oct. 31 Sp. A Maruning, 2nd Lieutenant C St. A Maruning, 2nd Lieutena	Kirkman Sargespt E S										
Labelle, Lieutenant A. E. 65th do do 31											
Lamarre, Color Sergeant A	Labelle, Lieutenant A. E	65th	-								The State of the S
Lamontagne, Sergeant E											
Lawless, 2nd Lieutenant W. T. 43rd do Mar. 31 Dec. 3 S A A Dec. 2nd Lieutenant G. A 69th do Mar. 31 Dec. 3 S A B Lester, Corporal T. C 71st do do 31 Dec. 3 S B B Lester, Corporal G. W 42nd do Dec. 3 S B B Lighthall, Captain A 16th do Mar. 31 Sp A B Lighthall, Captain B Mackay, 2nd Lieutenant F. S 65th do Mar. 31 Sp A B Mackay, 2nd Lieutenant F. S 65th do Mar. 31 Sp A Margue, Captain W. C 62nd do Mar. 31 Sp A Margue, Captain W. C 62nd Battalion Mar. 31 Sp A Marguis, Sergeant T. G 73rd do Nov. 30 Sp A Marguis, Sergeant T. G 73rd do Nov. 30 Sp A Marguis, Sergeant G. B 11th do Maryli Captain G. B 11th do Maryli Captain G. Sp A Marwell, Private R 55th do Maryli Captain J 66th do Sept. 30 Dec. 3 Sp. A Malony, Captain J 67 Company, I. S. O Miller, Captain G. St. B Miller, Captain G. St. B Markalion Maryli Captain J 67 Company, I. S. O Marguis, Sergeant T. G 8th Battalion Sept. 30 Sp. A Marwell, Private R 55th do Sept. 30 Dec. 3 Sp. A Marwell, Private R 55th do Sept. 30 Dec. 3 Sp. A Marwell, Private R 55th do Sept. 30 Dec. 3 Sp. A Marwell, Private R 55th do Nov. 30 Sp. A Marwell, Private R 55th do Sept. 30 Dec. 3 Sp. A Marwell, Private R 55th do Nov. 30 Sept. 30 Sp. A Marwell, Private R 55th do Nov. 30 Sept. 30 Sp. A Marwell, Private R 55th do Nov. 30 Sept. 30 Sp. A		9th	200						1.	1	
Lee, Corporal T. C	Lawless, 2nd Lieutenant W. T				AF	Dec. 3					
Lemay, Sergeant E.			-								
Lester, Cotporal G. W							10000	8			В
Lloyd, Sergeant W. K.	Lester, Corporal G. W	42nd									
Mabee, Sergeaut J	Lloyd Sargeant W K	35th	200					S	1000		
Macdonell, Sergeant H. E. R. S. M. I June 30, '86 S								8			B
Mackay, 2nd Lieutenant F. S. 65th do	Macdonell, Sergeant H. E	R. S.	M. I		June30, 86	*****					
Macleod, 2nd Lieutenant N. 2nd do Dec. 31,786 Aug. 13 Sp. Au. Aug. 13 Magee, Captain W. C. 62nd do Dec. 31,786 S Aug. 13 Sp. Au. Malony, Corporal M. "B" Company,I S C. July 6. S. Sp. Au. B Manning, 2nd Lieutenant J. 62nd Battalion Oct. 31 Sp. Au. Sp. Au. Marquis, Sergeant T. G. 73rd do Nov. 30. S. Sp. Au. B Markin, Captain G. B. 11th do April 1 Sp. Au. B B Maxwell, Private R. 55th do Nov. 30. Sp. Au. B Menger, Captain J. 66th do Sept. 30. Sp. Au. Middleton, Captain J. "O" Company, I. S. O Dec. 3 Sp. Au. Miller, Captain C. 8th Battalion Dec. 3 Sp. Au. Monette, Private W. 64th do April 1 Sc. Sp. Au.	Mackey 2nd Lieutenant F S	65th	Battan	0Д	Mar. 31	Mar. 31		0			D
Magee, Captain W. C. 62nd do "B" Company, I S C. B" Company, I S C. S S. A B B Maning, Captain G B. S S. A S S. B B B B B B B B B B B B B B B B B B B										A	
Manning, 2nd Lieutenant J. 62nd Battalion. Oct. 31. Sp. A Marquis, Sergeant T. G. 73rd do Nov. 30. S Martin, Captain G. B. 11th do April 1. S Maxwell, Private R. 55th do April 1. S Meakins, 2nd Lieutenant C. W. 3rd do Nov. 30. Sp. A Menger, Captain J. 66th do Sept. 30. Sp. A Middleton, Captain J. "O" Company, I. S. O Dec. 3 Sp. A Miller, Captain C. 8th Battalion Dec. 3 Sp. A Monette, Private W. 64th do April 1 S. Sp. A	Magee, Captain W. C	62nd							100000		P
Marquis, Sergeant T. G. 73rd do Nov. 30	Manning, 2nd Lieutenant I	62nd	Battali	on	Oct. 31	***********					
Martin, Captain G. B. 11th do April 1 S A B Maxwell, Private R. 55th do April 1 S S B Meakins, 2nd Lieutenant C. W. 3rd do Nov. 30. Sp. A Sp. A Menger, Captain J. 66th do Sept. 30. Sp. A Sp. A Milder, Captain C. 8th Battalion Dec. 3 S Sp. A Monette, Private W. 64th do April 1 S B	Marquis, Sergeant T. G	73rd			Nov. 30	**********		8	1		B
Meakins, 2nd Lieutenant C. W	Martin, Captain G. B	11th				4 75 3			10000	100	
Menger, Captain J 66th do Sept. 30 Sp. A Sp. A Middleton, Captain J "O" Company, I. S. O Dec. 3 Sp. A B Miller, Captain C 8th Battalion Dec. 3 Sp. A B Monette, Private W 64th do April 1 Sp. A B											100
Middleton, Captain J	Menger, Captain J	66th	do	***** *****	Sept. 30	A	****	*****	100	274.7	
Monette, Private W	Middleton, Captain J	- C ,	Comp.	any, I. S. O	Dog 2						
D D			-							1000	
	Moore, Sergeant R. J	59th		*** *******		Mar. 3		(3)			B

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				Date	of					
				Certifi		C	ours	e.	Gra	de.
							-		-	_
Name and Rank.		Cor	ps.	Pinet	Rosand	10.1		-		
				First Class.	Second Ulass.	Long.	Short.	Special	A	В
				01400	0 10001	Lo	Sh	Spe		
	-					-	_	-	-	-
Mannhy Liantament H O	and .	Dattali	0.7	A a 21		T				
Morphy, Lieutenant H. O Munro, Lieutenant G		do		Aug. 31		L	S		A	******
Murdoch, Sergeant N		do		-00000 20000000		10000	S		*****	В
Murray, 2nd Lieutenant A. G	36th	do			do 3			Sp.	A	****
Mutton, Captain W. G		do		June 30		01.000	S		A	D
McCarthy, Private F	G-G	Foot		3000000		*****	S		40001	B
McCaskill, Sergeant R. M	llth						S	****		B
McClaverty, Sergeant W. J	62nd	do		Mar. 31			8	***	inves	В
McDonald, Private J	"B"	Comp	any, I.S.C.	July 6	M 01		S	*****	X+++)	B
McGee, Corporal F. E	43rd						S	Sp.		В
McKee, Lieutenant H E		do					S	op.	A	*****
McKeen, Sergeant J. R	93r1	do		June 30		*****	S	300000	20107	B
McKnight, 2nd Lieutenant W	73rd	do		Mar. 31		CREEK	S	***	A	*****
McLaren, 2nd Lieutenant A		do		June 30		I DECTRONS AND	S	121224		*****
McLaren, Major H	13th 67th	do			**********	L	15 111	*****	A	
McLeod, Captain T. S		do		June 30	*****	****	S		A	
McManus, Private F	" A		any, I.S.C.				S	****	*****	В
McManus, Corporal J						*****	S	****	****	B
McNeil, Corporal A. J		do				••••	8	Sp.	Α	В
Nicholl, 2nd Lieutenant J. L		do		Mar. 31		.,,,,,,,	8	Sp.	A	40.44
Ostell, 2nd Lieutenant J. B		do	**********					Sp.	A	*****
Paquin, Lieutenant J. G		do		*************	Mar. 31	00001	S	*****	A	
Perreault, Private H Phillips, 2nd Lieutenant A. A		do					S	****		В
Pickett, Sergeant D. W		do	**********		Mar. 31		S		A	В
Proudfoot, Sergeant J. G		do	******		do 31		S			B
Purdy, Major E. F		do	MATERIAL CO.					Sp.	A	
Rainsford, Private T. W	71st	do	******	Mar. 31			8	****	****	В
Ray, Major S. W	96th 2nd	do		mai. 31			S	Sp.	A	
Robinson, Corporal H		do	**********				S			D
Rochon, Sergeant A	81st	do	X44 -27944+	April 1			S			В
Ross, Sergeant W		do	******	June 30			S	49000	*****	
Savard, Sergeant H	filst 71st	do	*******				S			B
Scott, Lieutenant J. H		do	************	A 0			S		A	D
Secton, Lieutenant E. A	36th	do	**********	April 30			*****	Sp.	A	*****
Shaw, Sergeant W. M	68th	do	0	*** *******			S	***	****	B
Shea, Private E Shea, Private J. R							S	1000000	*****	B
Sheriff, Lieutnant J. G			*** ******				S	*****	A COL	
Skinner, Q. M. Sergeant W		do					S	*****		В
Smith, 2nd Lieutenant A. H	49th	do	*************				****	Sp.	A	*****
Smith, Sergeant W. H	77th	do	*****		Mar. 31	10 0 0 01	S	*****	III) /C/A/A/A	D .
Snider, Private G. J Soy, 2nd Lieutenant R. C	74th 93rd	do		Mar. 31	June 30		S	*****	A	В
Sparham, Captain T. W		do	00000 07001					40000		*****
Spurr, Major 8	72nd	do	******	do 31	*** ****		S	****		11000
Stather, Corporal G. F		do		No= 20			S			D
Stevens, Sergeant A. J		do	*********	Nov. 30			8			Fa
Street, Bugler F Stroulger, Private C							0			D
Sturton, Sergeant H. A							0			0
Sullivan, Sergeant J	64th	do		do 1	F-1- C	****	0	*****	***	B
Swartz, Private E. O	32nd	do			July 6 Dec. 3	****	0		*****	D
Talbot, 2nd Lieutenant A. H		do		April 20		*****	0	*****	A	
		40	************				2		-	-

				Date Certific		0	Jours	θ.	Grade.	
Name and Rank.		Cor	ps.	First Class.	Second Class.	Long.	Short.	Special.	A	В
Frousdale, 2nd Lieutenant F	13th B 554th S 59th 66th 33rd 68th E 16-G. 47th E 55th 11th 69th 43rd 88th 74th 24th 59th 19th	do attali do do do do Compatatali Foot	on	Dec. 1 Mar. 31 Dec. 3	April 1 Dec. 3 April 1 Mar. 31 May 4 Nov. 30 Mar. 31 Dec. 3		w www www www w	Sp. Sp.	A A A A A A	B B B B B B B B B B B B B B B B B B B
Total 219		*******	* *********	92	127	5	159	55	101	118

MILITARY QUALIFICATION.

Knight, Cadet M. S	Royal Military College do do	Nov. 21 3ep. 30 do 30	 	00000		A A A	*****
Total 3		3	 	3	****	3	*****

RECAPITULATION.

Certificates.	First Class	Second Class.	Long.	Short.	Special.	A	В	Total.
Engineer	3	6	1	8			9	9
Artillery	63	31	15	63	16	18	76	91
Cavalry	20	10	1	27	2	8	22	30
Infantry	92	127	5	159	55	101	118	219
Military Qualification	3			3		3	*********	3
Total	181	174	22	260	73	130	225	355

APPENDIX No. 11.

ROYAL MILITARY COLLEGE OF CANADA.

ANNUAL REPORT.

(From the Commandant Royal Military College, to the General Officer Commanding the Militia of Canada.)

KINGSTON, 25th October, 1887.

Sir,—I have the honor to submit the Annual Report on the Royal Military College for the year 1887.

Graduates of June, 1887.

The undermentioned gentlemen Cadets having completed their four years' course at the College, have received Diplomas of Graduation dated 30th June, 1887:—

Diploma with Honors-

Battalion Sergeant-Major A. L. P. Davis—distinguished in Mathematics, Military Engineering, Artillery, Engineering Drawing, English, Chemistry, Physics, Civil Engineering, Drills and Exercises.

Ordinary Diplomas-

Company Sergeant Major F. M. Gaudet—Distinguished in Artillery, French, English, Civil Engineering, Drills and Exercises.

Company Sergeant-Major J. M. Clapp—Distinguished in Civil Engineering, Drills and Exercises.

Company Sergeant-Major A. Adams—Distinguished in Civil Engineering.
Sergeant R. J. Macdonald—Distinguished in Freehand Drawing and Conduct.
Company Sergeant-Major H. A. Morrow—Distinguished in Conduct and Discipline.

Cadet R. B. Jack-Distinguished in Civil Engineering.

2nd Class Diploma-

Sergeant G. S. Bowie.

Medals Presented for General Proficiency.

The medals presented annually by His Excellency the Governor General for general proficiency throughout the whole course have been awarded as follows:—

Gold Medal—Battalion Sergeant Major A. L. P. Davis. Silver Medal—Company Sergeant Major F. M. Gaudet. Bronze Medal—Company Sergeant Major A. Adams.

Sword for Good Conduct and Discipline.

The sword awarded annually for good conduct and discipline was won by Company Sergeant Major H. A. Morrow.

Prizes.

The undermentioned Cadets of the Graduating Class obtained prizes for the subjects specified, having gained, respectively, the highest total of marks in each during the entire Course:—

Mathematics and Mechanics-Battalion Sergeant-Major Davis.

Surveying, Military Topography and Practical Astronomy—Co. Sergt.-Major Gaudet.

Reconnaissance—Co. Sergt.-Major Gaudet.

Military History, Tactics, Military Administration, Law, &c.—Batt. Sergt.-Major Davis.

Military Engineering-Batt. Sergt.-Major Davis.

French—Co. Sergt.-Major Gaudet. English—Batt. Sergt.-Major Davis. Chemistry—Batt. Sergt. Major Davis. Physics—Batt. Sergt.-Major Davis. Geology—Co. Sergt.-Major Gaudet.

Freehand Drawing and Painting-Sergt. Macdonald.

Civil Engineering—Co. Sergt, Major Adams. Drills and Exercises—Batt. Sergt. Major Davis.

The following Cadets obtained the prizes awarded for the highest total of marks obtained during the term in their respective classes:

1st Class-Batt. Sergt.-Major Davis.

2nd Class—Sergeant Joly. 3rd Class—Cadet Fraser. 4th Class—Cadet Campbell.

The prizes for Artillery and for Engineering Drawing which are awarded at the end of the third year were gained as follows:—

Artillery—Sergeant Farwell.
Engineering Drawing—Sergeant Grant.

Highest Total of Marks Obtained in Each Subject During Year.

The following list gives the names of the Cadets who gained the highest total of marks during the year in the different subjects:—

Subjects.	1st Class.	2nd Class.	3rd Class.	4th Class
Mathematics and mechanics Practical geometry and engineer-	Davis	Joly	Fraser	Campbell.
ing drawing		Grant and Joly	do	Lanca de la constante de la co
Military engineering		Farwell	Johnston, G	Leckie.
graphy	Gaudet	do	Fraser	
Reconnaissance		***************************************		
Artillery	***************************************	Farwell	Whitehead	
administration and law)	Davis	do		
French		Panet		
Rnglish Ohemistry	Osvis	Farwell	Murray	Williams, L.
Physics	do	Joly	**********	
Geology		Danas		taulite
Freehand drawing and painting Civil engineering				Peckie.

Commissions in Her Majesty's Regular Army.

The following graduates of 1887 have received Commissions in the Imperial Army :-

For Royal Engineers, Batt. Sergt. Major A. L. P. Davis.

For Royal Artillery, Sergt. R. J. Macdonald. For Infantry, Co. Sergt. Major H. A. Morrow.

An additional Commission in the Royal Artillery having recently been offered

to the graduating class, Lieut. Morrow has been recommended for it.

Since the Report for 1886 was written, Sergt. C. C. Van Straubenzee, who had only completed three years at the College in June of that year, has been (as a special case) gazetted to a Commission in the Royal Artillery.

The two Infantry Commissions annually offered have again lapsed, there being

no candidate for them.

Examiner's Reports.

The several Examiners report as follows:-

Artillery-

2nd Class.-The obligatory portion is well up to the average, but I regret that pressure of work causes the general neglect of the voluntary sections in favor of higher marked subjects.

Messrs. Farwell, Joly and Lesslie made a close run for first place

There are no disqualifications in this class.

3rd Class.—This class, on the whole, is hardly up to the mark, and there is

one disqualification. Mr. Whitehead is the best.

With regard to drills and exercises, I have nothing of a special nature to report; the time for Field Artillery drill, always dependent on the weather, has been very short this year. Sergt, Major Clapp voluntarily undertook the instruction under me, and has proved himself very efficient.

Military History, Administration, Tactics, &c .-

1st Class.—The general average is low, only one cadet having obtained Mr. Davis is first in the class and is recommended for 70 per cent. the prize.

2nd Class .- Farwell, Heneker, Lesslie and Joly have all done well. The

rest are below the average.

3rd Class.—A very poor class. Rogers and G. Johnston have done fairly well, but several have failed to qualify. I consider that this class has had greater opportunities for learning and more careful instruction than any previous class, and it must be solely due to want of application that so many have failed.

Mathematics and Mechanics-

1st Class,-Three Cadets took up the Elements of Mechanism as a voluntary subject and got fair marks. During the whole course Batt. S. M. Davis came out first with a decimal of .84 and .54 respectively in obligatory and voluntary sections. Mr. Davis would have been a mathematician if he had application and had been pressed by others in his class. Co. S. M. Gaudet got '67 and '37 in obligatory and voluntary

sections, and is fairly good.

2nd Class.-In this class all the Cadets but one have obtained the requisite decimal. This class is not as good as appears from the decimals obtained, as the papers I set this year were decidedly easier and the subject of Graphic Statics and Work were altogether omitted. Cadets Joly, Lesslie and Farwell have done well in the obligatory portion, and the same three with Cadet Heneker have worked well at the Integral Calculus as a voluntary section.

3rd Class.-This class varies from indifferent at the top to very bad at the bottom. The many failures show themselves in the marks, and unless a great improvement takes place next year I doubt if there will be any Cadet in the class who will be fit for recommendation for a commission in the R. E. or R. A.

4th Class.—There is excellent promise in this class. Cadets Campbell. Williams, Morris, Newman and Browne did especially well. some of these I believe there is both ability and application. In this

class, as usual, there are some very bad ones at the bottom.

Surveying, Military Topography and Reconnaissance-

1st Class.-The survey work proper has been good; astronomical work only fair. Color Sergeant Majors Gaudet and Clapp attempted the higher voluntary work. Sergeant Macdonald has proved himself to be an admirable draughtsman; also in the Reconnaissance work, Sergeant Macdonald made the best marks.

2nd Class.—The work done by this class has been very fair as a whole. while that of some individual members, such as Sergeants Joly, Lesslie and Farwell has been very good both in survey work and astronomy. Sergeant Farwell promises to be a good draughtsman and good at Re-

3rd Class .- I regret to say that I can only report on the work of this class as fair, and that there are no especially good cadets whose names I can bring forward.

Military Engineering-

1st Class,-The seven cadets forming this class have all qualified, both on this term's work and on the full four years' obligatory course.

The class is and always has been a very poor one, and but for hard work among those low down there must have been several failures this term.

No one has, however, done really well this term. Mr. Davis obtains the prize with five marks over 75 per cent. on the full obligatory course. Mr. Gaudet is second, but nearly 500 marks behind, and Mr. Macdonald third, but nearly 400 marks further behind.

No voluntary work has been taken up by this class during the

four years' course.

2nd Class .- All who were examined have qualified, with the exception of one who has failed completely, a result I can only attribute to his own idleness.

Messrs. Gunn and Crawford were absent from the final examination. Mr. Farwell is first in the term's work, closely followed by Mr. Heneker. I regret to say that the work of this class during the term has not been so satisfactory as the results of the examinations would seem to indicate. Some of the cadets have worked well, but several with application might have done much better, and a few have been exceedingly idle.

3rd Class. - This class has done fairly well, rather to my surprise, as it began the term very badly. Mr. G. Johnston is first; Mr. Rogers

second. Four failed to qualify.

4th Class.-This class has done exceedingly well on the whole; no less than twelve cadets out of twenty-four have obtained over 70 per cent, and of these nine have obtained 75 per cent. Mr. Leckie is first with the high figure of 88 per cent. Mr. Campbell is second with 79 per cent. and Messrs. Amos, Newman, Williams and Jones each obtained 70 per cent.

This is the more creditable on Mr. Newman's part, as he did not join till some months after the remainder of the class. I regret to add, how-

ever, that four Cadets failed to obtain half marks.

Engineering Drawing-

2nd Class.—There is no obligatory work for this class. Eight Cadets took up the voluntary work; of these seven qualified. The only good papers were those sent in by Messrs. Grant and Panet.

Mr. Grant takes the prize in this subject, closely followed by Messrs.

Joly and Farwell.

3rd Class.—This class has done much better than I expected. Only two Cadets have failed to qualify and six have done very well, viz, Messrs. Fraser, 84, Williams, 81, Whitehead, 80, Rogers, 79, Baker, 75 and Gillmore, 74 per cent. This result is, however, partly due, I believe, to the fact that the examinations were a little easier than usual.

4th Class. -This class has worked exceedingly well. Mr. Campbell is first in the obligatory work, very closely followed by Messrs. Leckie, Amos and Morris, R. On the obligatory and voluntary work combined Mr. Leckie is first. Five Cadets have, however, failed to obtain 10.

A very large number took up the voluntary work, eighteen in all, of whom all but two qualified.

Freehand Drawing-

1st Class.—In submitting examination returns, I beg to state that Sergeant Macdonald of the 1st Class has obtained the highest number of marks for obligatory and Freehand Drawing and is consequently entitled to the prize. The class is but a moderate one, owing to several of its members having taken commissions in H. M's. Regular Army.

2nd class.—Several members of this class have done very well, but there has

been a marked want of diligence in some of its members.

3rd Class.-This class is doing very good work as will be seen by their drawings, &c., but Messrs. Armstrong and Murphy have not qualified.

4th Class .- I cannot speak too highly of the diligence and intelligence of the members of this class, the work of which manifests the most satisfactory advancement.

Civil Engineering-

Graduating Class.—Considering the object of the College to be the training of its graduates to become highly educated and trained men of action and high character, I am confident that this object has been gained. There can be no doubt that each Cadet of the class is likely to become a highly useful man in Canadian life. I can with confidence recommend them as desirable assistants on the staff of any public work. Mr. Morrow is a young man possessing valuable elements of character, such as will I hope and expect enable him to take a distinguished place in any profession.

Mr. Adams and Mr. Davis are also young men of high principle and good attainments in Civil Engineering. I know that both these gentlemen are to be relied on for faithful work and I trust they will

meet with the encouragement that they deserve.

The remaining members of the class Messrs. Jack, Bowie, Gaudet

and Clapp have shown themselves good students.

Mr. R. J. Macdonald is a man who is to be firmly relied on for honor, ability and energy and, I believe he will have a distinguished career.

English-

The subjects of English Language, Literature, Rhetoric and Composition have been studied with diligence and success. Much progress has been made by the 3rd and 4th Classes in Composition.

I beg to call your attention to the very high marks obtained by Cadet L. Williams of the 4th Class in the late examination. He gained the maximum in both papers. For the whole term he made 733 marks

out of a possible 800.

Cadet Morris, R., obtained 93 out of a possible 100 in the Language and Rhetoric papers, while in the same paper Cadets Campbell and Newman each obtained 90. In the 3rd Class, Cadet Roger obtained 90 marks out of 100 in the English Authors and Rhetoric paper, while in the same paper Cadet Fraser obtained 80.

French-

1st Class .- Good. Mesers. Morrow, Davis, and as was to be expected, Mr.

Gaudet (a French Canadian gentleman) have done very well.

2nd Class.-Noticeable improvement since last year. Mr. Leslie and also Messrs. Joly and Panet (same remark with those two gentlemen as the one above concerning Gaudet) deserve a special mention.

3rd Class .- Not very bright, in toto Messrs. Fraser and Kerr are striking exceptions though, and to their names may be added those of Messrs.

Murphy, Johnson H, and Johnson W.

4th Class.-Rather good on the whole. Messrs. Amos, Browne, Campbell, Houliston and Newman have done very good work. I beg to call particular attention to Mr. Leckie whose success may be considered as typical of what natural aptitude combined with an energetic will can achieve.

Physics and Geology.

Owing to the death of Dr. Bayne, the attendance, during the first four mouths of the term were divided between Professor Harris and Captain Cochrane, while I did

not enter upon my duties till the beginning of January.

Only the men of the first class have been under my immediate tuition. Captain Cochrane has had almost entire control of the instruction of the second class; besides, he has had the conducting of the Practical Chemistry of the first class. The courses in Geology and Physics were not quite so extensive as usual, owing to loss of time at the commencement of the term; in Chemistry nearly the ordinary amount of work was done.

The marks obtained in the different examinations were not high, except in the case of obligatory Physics, where Mr. Davis made 815 per cent., and six members

of the class obtained more than 50 per cent.

In Chemistry Mr. Davis obtains distinction, and is easily ahead of his competitors, though in one examination, Mr. Gaudet was only slightly below him, and in

another Mr. Clapp was somewhat his superior.

In Practical Chemistry Mr. Davis far outstripped the others and obtained over 75 per cent. The work on this subject was not so satisfactory as that of previous classes. Four men, Messrs. Clapp, Davis, Gaudet and Jack obtained the marks required to qualify.

In Geology Mr. Gaudet has taken the first place, followed closely by Mr. Clapp,

the percentages being respectively 65 and 61.

The second class showed a great interest during the term in both Chemistry and Physics. The examination in Chemistry was not so well done as that in Physics; probably because the former subject is the more difficult. In Physics, nine Cadets took the voluntary examination, seven of whom passed. Mr. Joly and Mr. Farwell are first and second, obtaining 80 per cent. and 78 per cent. respectively. Mr. Joly's paper on Voluntary Physics was well worth 87 per cent.

In Chemistry, Mr. Farwell was first, with 74 per cent, and Mr. Joly second, with 63 per cent. Five Cadets did not obtain qualifying marks at the examination -four of them, however, redeemed themselves by the extra marks given for notes

and recitations, and thus passed on the total.

Cadets who have failed to pass.

I regret much to have to report that at the close of the last term nine Cadets had to leave the College under Clause 27 of the General Regulations, having failed to qualify for class promotion. Six of these failures occurred in the 3rd Class. It is evident that when Cadets, owing either to indolence or want of ability, show themselves unable to keep up with the course, it is better that they should leave the College and make room for others who would give the country a better return for the money expended on their education.

Instruction of Militia Officers.

A class of thirteen Militia Officers joined the College in March for the purpose of going through the three months' course required for Long Course Certificates, Grade "A." At the termination of the course certificates were awarded as follows:—

First Class.

Special Montio

		phenut menuon.
Capt. A. McLaughlan	67th Battalion.	M.E., M.T., and Tactics.
Lieut. F. Hill	44th do	M.T., and Tactics.
do G. Maunsell	8th Cavalry.	M.E., M.T., and Tactics.
do H. O. Morphy	Q O. Rifles.	M.T., and Tactics.
do J. E. P. Bergeron	Lévis Gar. Art.	M.T.
Capt. J. C. Prower		Tactics.

Second Class.

Capt. E. Palmer	P.E.I	. Garrison	Artillery.
Lieut, G. Thairs		Battalion.	
do A. D'Orsonnens	87th	do	
Four Officers failed to qualify.			

I have recommended that the decimal of qualification for "special mention "shall be raised from '75 to '80.

Instruction of Militia Engineers.

A Detachment consisting of nine Non-Commissioned Officers and Sappers, Militia Engineers, arrived in February, and went through the Engineer Short Course, under Capt. Davidson, R.E., and Sergt. Major Birtles.

The Staff.

All the members of the College Staff have been diligent and zealous in the discharge of their duties, and I have nothing but what is favorable to report about them. The only change in the Instructional Staff that has taken place was the appointment of Dr. J. Waddell to the vacancy caused by the death of the late lamented Dr Bayne. I have every reason to be satisfied with the selection that was then made.

The services of Sergt. Major Birtles have been most valuable, and I think it highly desirable (considering his long and faithful service both in the Royal Engineers and at the Royal Military College) that he should be granted a Commission in the Militia.

Staff and Cadets in general.

I am thoroughly satisfied with the general good feeling and spirit which prevails in the College. I continue to receive a large number of applications from intending candidates for Cadetships, and feel confident that the competition for admission will be keener year by year. Twenty-five new Cadets joined the College on the 1st September, making up the total strength to 78.

New Works completed during the past year.

Since the last report was written the greater part of the rooms, halls and passages in both buildings have been kalsomined, and the woodwork repainted.

In the Educational Block self-flushing water-closets and urinals have been intro-

duced, in place of the old objectionable trough arrangement.

A rough breakwater has been built on the site of an old wharf, with blocks of rock raised from the shoal in Kingston harbor. This will prove of great use in protecting the wharves, &c., from the effect of the southerly gales.

A new double tennis ground has been constructed near the gymnasium.

In the outer enclosure a board walk has been laid down from the inner gate to the outer back gate. The grounds round Nos. 1 and 2 Officers' Quarters have been properly fenced in with wire, the old picket fence having been utilized in setting up a proper fence along the front of the servants' cottages.

A drain has been laid from Sergt.-Major Birtles's house to the harbor.

New Works Required.

An additional wing as a dormitory for Cadets, with an Officer's Quarters at each end, is most urgently needed. At present eleven of the sleeping rooms have two Cadets each, and seven other Cadets have to sleep in the basement rooms where the hospital is, while next year the pressure is sure to be still greater.

A proper hospital is much required; also a drill shed and other buildings,

which have been recommended in previous reports.

I have the honor to be, Sir, Your obedient servant,

> J. R. OLIVER, Colonel, R. A., Commandant Royal Military College.

APPENDIX No. 12.

REPORT OF THE DIRECTOR OF STORES, &c.

DEPARTMENT OF MILITIA AND DEFENCE, STORE BRANCH, OTTAWA, 31st December, 1887.

SIR,—I have the honor to submit the following report of the operations of this branch of the Department, under my charge, for the past year:—

Clothing.

The clothing this year, as in previous years, has been supplied under contract with Canadian manufacturers, and has proved satisfactory on inspection.

During the year 11,979 cloth and serge Tunics, 10,961 pairs of cloth and serge Trousers, 7,497 Forage Caps, and 3,748 Great Coats have been issued.

The following tabular statement shows the issues in detail:-

ISSUES.

Tunics, Cloth.			Tunics, Serge.			Trousers, Cloth, Pairs.		Trousers, Serge, Pairs.		Forage Caps.			os.	Great Coats.							
Cavalry.	Artillery.	Engineers.	Infantry.	Rifles.	Cavelry.	Artillery.	Infantry.	Rifles.	Cavalry.	Artillery.	Infantry.	Artillery.	Infantry.	Rifles.	davalry.	Artillery.	Infantry.	Rifles.	Cavalry.	Artillery.	Infantry and Rifles.
531	1360		6019	2093	117	763	1096		577	781	669	1424	5981	1529	517	1429	4328	1223	92	754	290

Ammunition.

The quantity of ammunition issued to the Militia force for practice during the year was 339,890 rounds of "Snider" ball and 204,090 rounds of blank, being a slight

decrease as compared with last year. (Vide Appendix "A.")

The re-payment issues for the year were 549,417 rounds of "Snider" ball, 129,343 rounds of "Martini-Henry" ball, 2,312 rounds "Colt's" revolver ball, and 700 rounds "Snider" blank ammunition, making a total of 682,272 rounds to Rifle Associations and Militia Corps for rifle practice and competitions, for which deposit receipts, credited to the Receiver General, amounted to \$11,712.72, including the price of powder and friction tubes issued for the noon-gun at Oltawa. (Vide Appendix "B.")

The Field and Garrison Batteries of Artillery received the usual annual supply of gunpowder, friction tubes, shot and shell, for practice and salutes. (Vide Appen-

dix " C.")

The Cartridge Factory at Quebec has not only supplied the demands for small arm ammunition—ball and blank—during the year, but has also added considerably to the reserve in Magazine charge, the reserve supply of gunpowder being obtained in Canada from the Hamilton Powder Company. Shot and shell, with requisite friction tubes, have, up to the present time, been obtained from the Imperial Government on re-payment. The experiment in the manufacture of common shell for R. M. L. Guns, made under the direction of Major Prévost, Superintendent of the Cartridge Factory at Quebec, has been attended with success. It is therefore expected that the shell required for artillery practice will in future be obtained from that source.

Ordnance.

A return of the Ordnance in charge will be found in Appendix "D."
Two additional 40-pounder Guns, and four 9-pounder Field Guns, with Carriages, &c., have been ordered from the Imperial Government. When the 9-pounder Guns are received and issued, the whole of the Field Batteries—with the exception of the Sydney Battery, which is still armed with the S.B. Guns—will be armed with Rifled Guns, in place of the old smooth bore Ordnance.

Arms.

The Armorers at the several stations are fully employed in repairing the Arms sent in from Corps for that purpose. At Winnipeg, extra assistance has been necessary for the Armorer, owing to the large number of Rifles requiring cleaning and

repairs, consequent upon the North-West service during the rebellion.

I have to direct attention to the necessity of appointing an Armorer at London, Ont., and one at St. John, N.B., to attend to the Arms in these Military Districts. Hitherto it has been found necessary to send Arms from these stations to Toronto and Halifax respectively; this course has been attended with some inconvenience, delay and extra expense.

Boards of Survey.

The Annual Boards of Survey, as required by Regulations and Orders, have been

held in the respective Military Districts.

The condemned stores have been sold by public auction at most of the stations, when the quantity and probable value of such stores warranted the expense of a sale. The amounts realized from these sales have been placed to the credit of the Receiver General, by deposit receipts, in the usual manner.

The reports of the various Boards on the state of the stores, store ledgers, build-

ings, &c., in charge of Superintendents, are, on the whole, satisfactory.

The following changes in the store staff in Military Districts have taken place

within the past year :-

Major A. J. Armstrong was appointed Superintendent of Stores at St. John, N.B., upon the retirement of Lt.-Colonel W.T. Baird, an old and valued officer of the Militia in that Province, who, while serving in the Store Branch, performed his duties.

with zeal and efficiency.

The death of Major R. J. McDonell, which I reported with much regret, in the early part of the summer, caused a vacancy in the store branch at Victoria, B.C., which has been filled by the appointment, as Superintendent of Stores at that station of Captain A. W. Jones, of the Victoria Garrison Artillery, an officer highly recommended for the position.

Camp Losses and Deficiencies.

As compared with former years the percentage of losses and damage to Camp Equipment has been considerably reduced. The total amount reported in the several Military Districts was \$375.31, of which sum \$131.99 has been paid in to the credit of the Receiver General, by deposit receipts, leaving a balance of \$243.32 yet to be recovered.

Issues and Receipts of Stores.

The number of requisitions for issues from stores, and the orders for receipts into store, show a large increase over previous years. The establishment of the Permanent Schools of Instruction and the Royal Military College will account to a large extent for this increase.

The supervision of these issues, the local purchase of burrack stores and supplies, and also the preparing of tenders and contracts for military clothing and other stores, now manufactured in Canada, have added very materially to the work in the Store Branch of the Department.

Militia Properties.

The reports upon the state of the Military properties in charge are satisfactory. The annual estimate of the cost of repairs necessary for the maintenance of buildings, &c., prepared with regard to economy, has been submitted, and no doubt will receive due consideration at the proper time.

The statement underneath shows the number of tenants at the several stations, the amount received for rents of military properties for the year from 1st January

to 31st December, 1887, and the arrears due at that date.

It is proposed to furnish in future a return of the receipts for rents, &c., for the fiscal year ending on the 30th June, instead of the calendar year, as hitherto, in order to harmonize the same with the public accounts of the Dominion.

Military Museum.

The Museum at Ottawa continues to attract the attention of Militia Officers and others. A number of articles have been added to the collection during the year. Show cases are now being placed in the room to secure a more convenient arrangement of the smaller articles on exhibition.

Tenants and Rental.

Number of Fenants	Station.	Rents received.	Arrears.	Remarks.		
		\$ cts.	\$ cts.			
1	Chatham, Ont	1 00	-			
2 3	Niagara, Ont	216 00	12 00			
3	Toronto, Ont	365 00	1			
22	Kingston, Ont	537 24	5 38			
3	Ottawa, Ont	6 00	2000			
2	Laprairie, Que	51 00	1 00			
4 2	Montreal, Que	250 50	1 00			
2	Ile-aux-Noix, Que	106 00	The same			
1	St. John's, Que	*********	80 00			
23	Quebec	2,863 83	134 75			
27	Lévis, Que	571 00	446 45			
8	New Brunswick	179 00	0 25			
15	Nova Scotia	78 17	179 42			
2	P. E. Island	5 87				
115	Total rent received, 1887	5,231 61	860 25			

Deposit Receipts.

The amount received by the Store Branch for stores and ammunition issued on re-payment, and for rents collected on Military property during the year, is shown in the following statement, being from 1st January to 31st December, 1887:—

Ammunition.		Cloth	ing.	Arms and Accou-	Deficien-	Rents.	Miscel-	Total Amount.	
Rounds.	Amount. Officers.		Men.	trements.	0.00		macoust	Amounts	
682,272	\$ cts.	\$ cts.	\$ cts.	\$ ets.	\$ cts.	\$ cts.	\$ ets.	\$ cts. 21,636 68	

I have much pleasure in bringing under your notice the efficient assistance afforded me by the staff in the Store Branch at Headquarters, and the District Superintendents of Stores.

I have the honor to be, Sir,

Your most obedient servant,

J. MACPHERSON, Lt.-Colonel, Director of Stores and Keeper of Militia Properties.

The Deputy of the Minister of Militia and Defence, Ottawa.

[A.]
S. A. Ammunition issued for Practice during the Year 1887.

-		1								Rou	nds.
Da	te.			Corps and	1 54	atio	on.			Ball.	Blank.
188	37.	100	Mil	itary Distric	t No	. 1,	London.				
Jan.	15	Captain	Cox. Comm	anding No. 5	Co	mp	anv. 7th F	siliers		840	
lune	15	Camp Q	uartermaste	r, Camp Lon	don			*** ****** *****			35,730
Sept.	12	Captain	Macqueen,	do do	No.	1	Company,	22nd Batt	alion	840	********
do	12	do	Williamson	do	No.	2	do	do	450	840 840	
do	12	do	Hegler	do	No.		do	do	***	840	***************************************
do	12	do	Bleakley	do	No.		de	do		840	******
do	12	do	Ball	do	No.		do	do	***	840	********
do	12	do	Stoddard	do	No.		do	do	***	840	
do	12	do	Day	do	No.		do	do	lion	840	
do	12	do	Cooke Patterson	do	No.		do	28th Baita 24th Baita		840 84)	-24000
do	14	do	Atkinson	do	No.		do	do		800	***************************************
do	14	Lieut	Watson	do	No.		do	do		740	
do		Captain		do	No.		do	do	***	800	*******
do	14	Lieut.	Johnston	do	No.		do	do	***	760	***** ***** *****
do		Captain		do	No	6	do	do		700	
do	16	do	Mason	do	No.		do	30th Batts	1000000	840	******
do	16	do	Porter Beattie	do	No.	3	do	do	***	800 800	
do	16	do	Allan	do	No.		do	do	***	800	
do	16	do	Kingston	do	No.		do	do	***	760	**********
do	16	do	Johnston	do	No.		do	do	***	740	********
do	16	do	McDowell	do	No.		do	do	***	800	
do	16	do	Jamieson	do	No.		do	do	***	700	
do	16	do	Booth	do	No.		do	do	***	800	
do Oct.		Lieut.	Hudson	do	No.		do	do Dotte	12	800 740	******* ******
Nov.		Captain	Williams	do			do siliers	26th Batts		2,000	****** ***** ****
do		Captain		do			Comp'y, 26			820	***************************************
		Les	s_Returned	by Camp Q	nart	arm	aster			24,440	35,730 2,250
		2000									
				al Issues						24,440	33,480
-	20	50.30		tary District							
NOV.	30	Correction.	Otter, Com	manding " (),, (Jon	ipany, R.S	.1	*******	2,000	*************
July	18	Lt. Uol	Rellacher	r, Camp Nia Commandin	gara	+ h	Rattalian	******* -10407 51	******	35,000 5,040	5,040
do	27	do	Otter	do			'Company			6,000	1,000
do	30	do	Gibson	do			Battalion			6,720	6,720
Sept.	27			do			Troop Ca			840	***************************************
do	27	do	Gregory	do	N	0.6	do	*****	* ****	840	****** ****
Oct.	27	LtCol.	Grasett	do	10)th	Royal Gre	nadiers	* *****	6,720	**
										63,160	12,760
		LES		by Camp Qu						7,500	
			do	by LtCol.	Hog	g	***********	**** ********	******	1,200	2,900
			Tot	al Returned			************	*************		8,700	2,900

S. A. Ammunition issued for Practice during the Year 1887-Continued.

Date		Rounds.		
Date.	Corps and Station.	Ball.	Blank.	
1887.	Military District No. 3, Kingston.	-112		
une 27 uly 9 do 14 lug. 6	LtCol. H. R. Smith, Commanding 14th Battalion	5,040 20,000 5,040 2,000 840 5,040 4,000 4,000	5,040 9,000	
	LESS—Returned by Camp Quartermaster	45,960 2,120	14,040	
	Total Issues	43,840	12,090	
do 18 June 10 Aug. 3 Nov. 26			2,500 3,000 2,500 700 20,000	
4	LESS—Returned by Camp Quartermaster	24,560 3,750	28,700 20,000	
	Total Issues	20,810	8,700	
	Military Districts Nos. 5 and 6, Montreal.			
do 20 do 20 do 21 do 21	do Kennedy do Montreal Engineers	3,360 1,700 5,040 29,500 24,000 5,040	5,000 3,360 1,700 5,010 29,500 20,500 5,040 1,000 5,040	
	LESS—Returned by Camp Quartermaster, Granby	10,500	25,600- 20,500 2,000	
	Total Returned	10,500	47,500	
	otal Issues	68,220	28,680	

S. A. Ammunition issued for Practice during the Year 1887—Continued.

	Corps and Station.		Rounds.	
Date.			Blank.	
1887.	Military District No. 7, Quebec.			
July 28 Aug. 8	do Hulon, Commanding 89th Battalion do Montizambert do "B" Battaly R. S. A.	34,880 6,720 4,000	34,880 6,720 4,000	
	LESS—Returned by LtCol. Duchesnay	45,600 20,880	45,600 38,440	
	Total Issues	24,720	7,160	
	Military District No. 8, St John, N.B.			
Jane 13	LtCol. Armstrong, Commanding N. B. Brigade G. A	4,200	4,200	
do 28	Camp Quartermaster, Camp St. Andrews	14,200	14,200	
do 28 July 21	do Maunsell do R. S. Infantry	3,360 5,000	3,360- 1,000	
do 27	Lieut. McMillan do St. John Rifle Company	700	700	
do 27	LtCol. Blaine do 62nd Battalion	4,200	4,200	
300	Total Issues	31,660	27,660	
	Military District No. 9, Halifaz.			
2000			80000	
	Lt -Col. Mowbray, Commanding Halifax Brigade G. A	5,880	5,880 5,040	
do 12	do McDonald do 68th do	5,040 6,720	6,720	
	Captain Jolly do Yarmouth Gar. Battery	840	840	
Sept. 2	do Ryan do King's Troop Cavalry	840	840	
do 2	do Blair do 68th Battalion	7,560 5,880	7,560 5,880	
do 2	do Biair do 78th dodo Harrison do 93rd do	4,200	4,200	
do 6	do Bingham do 94th do	4,200	4,200	
Det. 17	Captain Gordon do Pictou Gar. Battery	840	******** ******	
do 17	do Daley do Digby do	840	********	
	Total Issues	42,840	41,160	
20	Military District No. 10, Winnipeg.			
May 3	LtCol. Taylor, Commanding Mounted R. S. I	2,000	2,000	
June 24	do Boswell do 90th Battalion	5,040	5,040	
	Major Thibedeau do 91st do	2,000	5,040	
	do Houghton do D. A. G., M. D. No. 10	2,000	6,000	
do 29	do Taylor do Mounted R. S. I		2,000	
Aug. 16 Sept. 24	do Taylor do dodo	2,000 1,600	4,000	
aspec sam	Total Issues.	17,680	24,080	
	Military District No. 11, Victoria, B.C.			
		2322	1	
May 16	LtCol. Wolfenden, Commanding B. C. Brigade Gar. Artillery	2,400	2,400	

S. A. Ammunition issued for Practice during the Year 1887-Concluded.

Date.	Command Station	Rounds.	
Dave	Corps and Station.	Balls.	Blank.
1887.	Military District No. 12, Charlottetown, P. E. I.		
July 16 Aug. 10 do 10	Capt. Weeks, Commanding Engineer Company	900 4,520 3,400	900 4,52 0 3,400
	Total Issues	8,820	8,820

RECAPITULATION.

		Districts.	Rounds.	
			Balls.	Blank.
Military	District No. do	1, London 2, Toronto 3, Kingston 4, Ottawa 5 and 6, Montreal 7, Quebec 8, St. John, N.B 9, Halifax, N.S 10, Winnipeg 11, Victoria, B.C 12, Charlottetown, P.E.I	24,440 54,460 43,840 20,810 68,220 24,720 31,660 42,840 17,680 2,400 8,820	33,480 9,860 12,090 8,700 28,680 7,160 27,660 41,160 24,080 2,400 8,820
		Total	339,890	204,090

J. MACPHERSON, Lt-Colonel, Director of Stores and Keeper of Militia Properties.

The Deputy of the
Minister of Militia and Defence,
OTTAWA, 31st December, 1887.

[B.]
S. A. Ammunition issued on repayment during the Year 1887.

Military District No. 1, London.

Date.		Purchaser.	Corps.	Rounds.	Amount,	
						_
1886.					\$	cts
Dec.	24	Capt, J. Stevenson	26th Battalion	1,000	16	00
18	87.					
April	2	Capt. Ellis	27th Battalion	500	8	00
do		Capt. Moore		500	8	00
do		Capt. J. Stevenson		1,000	16	00
do		Capt. E. McKenzie		1,000	16	
do		Major Wilson	33rd Battalion	2,000	32	
fay		Capt. Ellis	27th do	1,000	16	
do		LtCol. Dawson		1,000	16	700
do			29th Battalion	500	8	700
do			Huron Rifle Association	500	8	
do		W. Lawrence	Perth do	1,200	19	
do	30	do	do do	1,500	24	7.00
do	31	John Crowe	Guelph do	1,500	24	300
une		LtCol. Dawson	Western District Rifle Association	1,000	16	
do		N. Robson		500	16	00
-		Lt -Col. Dawson		1,000	16	
do.		N. Robson		1,000		00
	10	Capt. J. Templeton	(2.1)	2,000)	1 100	
do	13	LtCol. Dawson	Western District Rifle Association Snider.	500	42	00
do	16	do	do do do	1,000	16	OF
do	-	W. Lawrence	Perth do do	1,000	16	
do			27th Battalion	1,250	20	
lept.		Oapt. W. Ley.		500		00
do		Major Wilson		1,000	16	
do			Guelph Rifle Association	1,500	24	
do	26			1,000	16	60
do	30	D. H. Henderson		500	8	00
et.		Capt. Ellis	37th Battalion	1,000	16	00
do	6	C. H. Henderson	Ingersoll Rifle Association	500	8	00
do		W. R. Elliot		1,000	16	00
do	11,	Capt. Macqueen	22nd Battalion	1,000	16	00
do	12	Capt. Hegier	22nd do	500		00
do		D. H. Henderson	Ingersoll Rifl: Association	500	1	00
do		Capt. Jones		1,000	16	
Vov.		LtCol. Dawson	Western District Rifle Association	1,000	16	
do	14	Capt. Dawson	21st Battalion	500		00
do		LtCol. Dawson		500		00
Dec.	8	do		2,000	32	
do	19	do	do do do	1,000	16	00

S. A. Ammunition issued on repayment during the Year 1887-Continued.

Military District No. 2, Toronto.

Date.	Purchaser. Corps.		Rounds.	Amount
1887.				\$ cts.
Jan. 7	Cant. Drinkwater	35th Battalion	1,000	16 00
do 12	Major Carpenter	77th do	1,000	16 00
	Capt. Drinkwater		500	8 00
	A. Pain	Ontario Rifle Association	11,840	189 44 24 00
April 7	J. O. McGregor	Waterdown do	1,000	16 00
do 13	Capt. Cooper	12th Battalion M. H.	600]	22 40
do 13	do	do Snider.	500 5	44 40
do 15	J. Crowe	Guelph Rifle Association M. H. do do Snider.	1,500	36 50
May 5	Lieut, A. Bucknell	Victoria do	1,000	16 00
do 13	Lieut. A. Johnston	20th Battalion Snider	1,500 }	31 20
do 13	do	do M. H.	300 5	
	Capt. E. G. Zealand	do	5,000 1,000	80 00 16 00
	Lt -Col. Alger		6,400	128 00
do 9	J. O. McGregor	Waterdown do	1,000	16 00
do 9	A. Pain		1,000	20 00
do 29 do 29	Capt. Cleland	31st Battaliondo	1,000 2,000	16 00 32 00
do 29	Major Leslie	26th Battalion Blank	500	5 00
July 4	A. Campbell	Owen Sound Rifle Association	1,000	16 00
do 13	Capt. Cooper	12th Battalion M. H.	600 }	28 00
do 13		do Snider. Victoria Rifle Association M. H.	1,000 5	-
do 16 do 19	A. Pain	12th Battalion	2,000	40 00 7 00
do 20	W. Cowboy	Erin Rifle Association	500	8 00
do 20	Capt. White	Whitby do	500	8 00
		37th Battalion	750	12 00 16 00
do 28	A. Campbell Major S. W Ray	Owen Sound Rifle Association	1,000	16 00
	I II Magrana	Watardawa	1,000	16 00
do 3	Capt. Grant	20th Battalion M. H.	200 [20 00
do 3	do	do Sand Bid Association Snider.	1000 5	16 60
	A. Campbell	Owen Sound Rifle Association	1,000 1,000	16 00
	W. Cowboy	Erin Rifle Association.	500	8 00
do 11	Lieut Ewan	35th Battalion M. H.	200]	7 20
do 11		do Sanda Bilda Association Snider	1,000	16 00
do 18	A. Campbell	Owen Sound Rifle Association	2,000	32 00
	A. Miller	Elgin do	1,000	16 00
Sept. 1	W H McFaddon	Brampton do	500	8 00
do 1	R R Harris	38th Sattalion	2,000	32 00 8 00
do 5	Capt. Paterson W McDowell	Brin Rifle Association	600	9 60
do 12	Capt, Jamieson,	30th Battalion	1,500	24 00
do 14	A. Miller	Elgin Rifle Association	2,000	33 00
do 14	A. Campbell	Owen Sound do	1,000	32 00 16 00
do 14	A. Pain		500	8 00
do 14	G. T. Ware	Port Arthur do	2,000	32 00
do 19	Lieut. A. Bucknell	Victoria do M. H.	300 [22 00
do 19	do	do do Snider	1,000 \$	67.5
do 19 do 20	Major Dunn	Governor General's Body Guard	1,200	32 00 19 20
	J. Crowe.		500	10 00
do 20	Capt. Grant	20th Battalion M. H	200 }	36 00
do 20			2,0005	30.00

Military District No. 2, Toronto-Concluded.

Da	te.	Purchaser.	Corps.	Rounds.	Amount
188	87.				\$ ets
Sept.	23		Erin Rifle Association M. H.	500 2,000]	8 00
do	27	do	doSnider.	3,000	88 00
do		Capt. White	Whitby Rifle Association	500	8 00
do		Capt. J. Ward	35th Battalion	1,000	16 00
do		A Campbell	Owen Sound Rifle Association	1,000	16 00
do		J. Crowe	Guelph Rifle Association	500	8 00
Oct.		Major Dunn	Governor General's Body Guard	2,000	32 00
do		J. O. McGregor	Waterdown Rifle Association	2,000	32 00
do	18		do do	1,000	16 00
do		Major Dunn	Governor General's Body Guard	3,000	48 00
Nov.		Lieut. Torry	31st Battalion	500	8 00
do	12	do do	20th do M. H. do Snider.	120]	10 40
do	24	400		500	8 00
do		A. Miller.		1,000	16 00
Dec.	9	Major Dunn	Governor General's Body Guard	2,000	32 00
do	13	Capt. Griffiths	37th Battalion	400	6 40
do	31	Capt. Cooper	12th do M. H.	600 }	28 00
do	31	do	doSnider.	1,000 5	20 00
			Total	101,910	1,696 34

Military District No. 3, Kingston.

-						
May	10	N. S. Young	Bowmanville Rifle AssociationM.H.	1,000	24	00
do	11	do	do do	1,000	16	00
do	17	Major R. Dingwall	46th Battalion	2,000	32	00
June	14	N. S. Young	Bowmanville Rifle Association M.H.	1,000	20	60
do			15th Battalion	2,000	32	00
do			47th do	500	8	00
do			Peterboro' Rifle Association	2,000	32	00
July			Bowmanville do	1,000		00
do			46th Battalion M.H.	1,006	20	-
Aug.	6	Captain Machachtan	Garrison Artillery M. H.	50071		20.
do	6			2,000	43	00
do			46th Battalion	2,000	33	00
do	11	N. S. Young	Bowmanville Rifle Association	500	-	00
Sept.	1	Cantain Panton	15th Battalion	1,000	16	
do			Bowmanville Rifle Association	2,000	32	-
do	15	Major R W Rell	Peterboro' do	3,000	48	
do	20	N S Young	Peterboro' do	1,000	16	700
do	22	Major R Dingwall	ACth Pottalian	2,000)	10	UU
do		do do		1,000	52	00
do			49th Battalion	1,500	24	CO
Oct.	2	N S Voung	Bowmanville Rifle Association,	3,000	-	00
do.			46th Battalion			00
Nov.				3,000		-
			14th do	1,000	-	00
de			47th do	500	10000	00
******	*******	N. S. Toung	Refilling cartridge cases		15	74
			Total	35,500	605	74
		The second secon				

Military District No. 4, Ottawa.

Date.	Purchaser.	Corps.	Rounds.	Amount.
1886.				\$ cts.
1886.	Const Const	And the second s		\$ cts.
Dec. 18	H. L. B. Ross	Governor General's Foot Guards	500	8 00
do 30	Captain McKay.	41st Battalion	600	14 40
1887.	State of the last	2000		2.5
	Ottawa College		200	2 00
April 5	A. Menzies.	Arnprior Rifle Association M. H. do do Snider.	500	20 00
	Sergeant Cawdron		560	8 96
do 7	H. L. B. Ross	do do	1,120	17 92
	ergeant Cawdron	do do do	840	13 44
do 14	F. C. Lightfoot		600	20 96
do 14	Sergeant Cawdron	Governor General's Foot Guards M H.	250	5 00
do 14	do	do doM.H.	600	12 00
do 15	T. W. Wilson	Lanark Rifle Association M H.	500	12 00 12 00
do 23	Captain McKay	Ottawa Rifle Club M. H. 41st Battalion M. H.	600	14 40
do 26	Dominion Police	1100 0000001001001000	1,000	16 00
do 30	Mr. Ellis	Ottawa Rifle Club M.H.	600	12 00
	Lieut. Winters		500	8 00
do 2	A. Menzies.	Arnprior Rifle Association M. H. do do Snider.	1,000 }	40 00
do 8	Sergeant Cawdron		560	8 96
do 9	T. W. Wilson	Lanark Rifle Association M.H.	1,200 }	40 00
do 9	do	do do Snider. Governor General's Foot Guards M. H.	1,000 1	30 00
do 15		do do Snider.	1,000	26 00
	Sergeant Cawdron		600	13 00
do 27	do	do do	560	8 96
do 30.,	H. S. O'Brian	Cornwall Rifle Association	1.000	16 00
July 6	r W Wilson	Governor General's Foot Guards	1,120	17 92 20 00
do 8	Captain McKay	41st Battalion M H.	720	14 40
do 15.	Lieut. Winters	41st Battalion	600]	28 00
do 15	do	do doSnider.	1,000 }	777
do 16	Centein Rlies	Arnprior Rifle Association Ottawa Field Battery	1,000	16 00
do 28	do Billings	43rd Battalion	150	2 40
do 28	Private Sutherland	Governor General's Foot GuardsM. H.	600 }	20 96
do 28.,	do	do doSnider.	560 J	24 00
	J. S. Huntington	56th Battalion M.H.	400)	100000
do 29		doSnider.	2,000 5	40 00
	E. A. Grant	Governor General's Foot Guards	500	8 00
	Sergeant Cawdron		560 500	8 96
	Dominion Police		250	4 00
	G. E. Myers	Morrisburg Rifle Association	1,930	31 00
	Captain Bell	43rd Battailon	500	8 00
	G. H. Mailleux		500 500	8 00
	Major Uarmichael	Lanark do M. H.	1,000	20 00
	Captain Billings	143°d Ballalion M. H.	100	2 00
do 16.	Lient. Winters.	Governor General's Foot Geards	1,000	16 00
do 18	Lient Col Lewis	Brigade Major Pistol.	4,000	64 00 1 00
do 31.	A Mangior	Arnprior Rifle Association M.H.		20 00

Milltary District No. 4, Ottawa-Concluded.

Da	te.	Purchaser.	Corps.	Ronnds.	Amount.
-	_				
188	7.				\$ cts
Bept.	2	T. W. Wilson	Lanark Rifle Association	1,500	21 00
do				1,000	16 00
do	8		43rd Batralion	1,500	24 00
do	12	Lieut. Thompson.	Governor General's Foot GuardsM.H.	300)	8 00
do	12	do	do doSnider.	1,000	22 00
do	12	T. W. Wilson	Lanark Refle Association M.H.	600	12 00
do	15	Captain Billings	43rd Battalion	500	8 00
do	15	R H. Bradfield & Co	Morrisburg Rifle Association	2,000	32 00
do	15	W. H. Mossman	Prescott do	3,000	48 00
do	17	Centain Rell	Governor General's Foot Guards43rd Battalion	500 500	8 00
go		J. S. Huntington		1,000	8 00 16 00
do		Major Walsh		500	8 00
do	20	J McLeod	Almonte Rifle Association	500	8 00
do			43rd Battalion	500	8 00
do	24			1,200]	30 00
do	24			370 5	
do	26	do Billings	43rd do	500	8 00
Oct.	3	A Mangies	Arnprior Rifle Association M. H.	3,000 7	8 00
do	3	do	do do Snider	2,000	93 00
do	3	Captain Motherwell	Perth doM.H.	500	10 00
do	10	G. W. Armstrong	Cornwall do	1,000	16 00
do	10	Captain McKay	Cornwall doM.H.	600	13 00
do	10	Sergeant Cawdron	Governor General's Foot Guards M.H.	600 }	20 00
do	10			500 ∫	
do	12	T. W. Wilson.	Lisgar Rifls Association	2,000	32 00
do	3.5	W H Massman	Dunnantt do	1,000	16 00
do	15	G. W. Armstrong	Uornwall do	500	8 00
do	19	Major Anderson	43rd Battalion M H.	1,200)	
do	19.	do	doSnider.	3,000	72 00
do			Governor General's Foot Guards M.H.	200	4 00
do		Lieut. Winters		1,500	24 00
Nov.			49th Battalion	250	4 00
do	3	Captain Gunrdean	Princess Louise Dragoon Guards	1,000	8 00 16 00
do	3	Mr. Snider	56th Battalion M.H.	400	8 00
do	10	James McLeod	Almonte Rifle Association	500	8 00
do	15	do	do do	500	8 00
Dec.	1	Captain Wright	43rd Battalion	500	8 00
do	17	do Irving	142nd do M. H.	250	5 00
do	22	D. McMaster	M.H.	200]	5 00
40	40.00		Pistol.	100 \$	
			м.н.	4,200 32,792	524 67
			M.H.	17,293	345 86
		do do		400	8 00
				462	4 6
		Gunpowder for noon gun	600 lbs.; friction tabes, 420	***** *******	159 26
		LieutCol. Cole	Friction tubes	*********	2 60
		G. Taylor, M.P	do		2 53
			Total		

Military Districts Nos. 5 and 6, Montreal.

Da	te.	Purchaser.	Corps.	Rounds.	Amount.
18	87.				\$ cts.
May	13	Sergt. J. C. Marks	Rifle Association	5,000	80 00
do	13	do	do	5,000	80 00
do	23	Major McLaran	do M. H. 50th Battalion M. H.	1,200 2,000	24 60 32 00
do		Lieut. R. J. Spearing		500	8 00
June	2	do	53rd do	500	8 00
do		Sergt. J. C. Marks	Rifle Association Suider.	6,000 }	120 00
do	2	do	do M. H.	1,200 { 3,000 }	
do	16	do	do Snider.	8,000	188 00
do	20	do	do M. H.	600	12 00
do	20	Capt. Dixon	86th Battalion Blank.	150	1 50
do		Lieut. R. J. Spearing		1,000	16 00
July			Rifle Association M. H. 5. st Battalion	4,200	84 00
do		Lieut. R. J. Spearing		500	10 00
do		Sergt. J. O. Marks,	Rifle Association M. H.	4,200	84 00
do	22	J. F. Scriver	51st Battalion	500	8 00
do	28	Sergt. J. C. Marks	do M. H.	8,000	128 00
do	30	Lieut R. J. Spearing	53rd Battalion	3,600	72 00 8 00
Aug	. 1	Capt. Baker	58th do	1,000	16 00
do	4	Lieut. R. J. Spearing	53rd do	500	8 00
do	5	Capt. T. L. Brown	54th do Snider.	500 }	18 00
do	6	It Col Martin	54th do M. H. Rifle Association M. H.	500 S 4,310	68 96
do	17	Lieut, R. J. Spearing	53rd Battalion M. H	500	10 00
do	17	Sergt. J. C. Marks	Rifle Association M. H.	3,000 7	156 00
do	17	do	do	6,000 \$	1000
do			Rifle Association	500 4,000	8 00 64 00
do			51st Battalion	4,000	64 00
do	31	Capt. C. M. Bowen	52nd do	500	8 00
Sept	6	Major T. Lamb	11th do	2,500	40 00
do		do J. D. Bulman		1,000	8 00 16 00
do	7	LtCol. Cushing.		500	8 00
do		Sergt. J. O. Marks	Rifle AssociationSnider.	2,0007	100000
do	15	do	do M. H.	1,800 }	68 00
do		Capt. Brooks		2,500	40 00
do	19,	do Macfarlane Major McLaren		1,000	8 00 16 00
do		Lieut Beattie		1,500)	
do	21			50 }	25 00
do	26	Capt. Bowen.	52nd do	500	8 00
do	28	do Hall Lieut. R. J. Spearing	52nd do	1,000	16 00
Oct.	7	Major McLaren	53rd do	500	8 00
do		Capt. Baker		500	10 00
do	24	Sergt J. C. Marks	Rifle Association M. H.	300	6 00
do	28	Lieut. R. J. Spearing	53rd Battalion	2,000	32 00
Nov.		H. A. Johnson Surgeon Smith		500	8 00
Dec.	A Let	LtCol. Stevenson	150 filled cartridges; 250 friction tubes		63 10
			Filled cartridges		7 44
			Total	102,110	1,804 00

Military District No. 7, Quebec.

Da	te.	Pur	chaser.	Corps.	Rounds.	Amou	nt.
188	7.					\$	cts
Jan.	3	L+ Col H	J Miller	8th Koyal Rifles	700	11	20
do	13			Superintendent of Stores	100		60
April	1		J. Miller		1,000	16	
do	9	do	do	8th do	500		00
do	29	do	do	6/1	1,000	16	
May	18	do	do	Contraction of the Contract of	1,000	16	
do	23		ourget	17th Battalion	1,000	16	2000
June	8		. J. Miller	8th Royal Rifles	1,000	16	100
do	14		G. Scott		100	1	40
do	23		Richard		500	7	00
do			. J. Miller	8th Royal Rifles	1,000	16	100
do	28	do	do	8th do	2,500	40	00
July	21	do	do	8th do	1,000	16	00
do	29	do	do	8th do	1,0007	00	00
do	29	do	do	8th do	300	22	00
Aug.	4	Captain D	unbar	8th do	200	3	20
do	9	do Pi	inault	9th Battalion	1,000	16	00
do	10	Major R. S	tewart	Wegantic Rifle Association	2,100	33	60
do	12	4. Couilla	rd		2,000	32	00
do	13	Lt -Col. H	J. Miller	8th Royal Rifles	1,000	16	00
do		Major Dem	ers	17th Battalion	2,000	32	00
do	22	do d		17th do	1,000	16	00
do			** ******* *******	Fraserville Rifle Association	2,520	40	32
do	26	do		do do	1,260	20	16
Sept.	6		assicotte		1,500	24	00
do	16		10TS		1,000	16	00
do			. G. Scott		500	8	00
do			inault	9th Battalion	500	8	00
Nov.				8th Royal Rifles M.H.	300 }	22	00
do	8	do	do	do Snider.	1,000 \$	20	00
Dec.	5		cott		100		00
do	17	do H	. J. Miller	8th Royal Rifles	300	4	80
	-			Total	30,980	499	20

Military District No. 8, St. John, N.B.

-			-	-	-
May	6	Captain Loggie 71st Battalion	1,000	16	00
do	10	Major Baird			00
do	11	Lient. Lordley 62nd do	1,000	16	00
do	13.	C. Elliot Westmoreland Rifle Association	1,00	16	00
do	15	do do do	1,000	16	00
do	25	Captain Langstroth 8th Cavalcy	500	8	00
do	30	Major F. H. Hartt 62nd Battalion	2.00		00
June	2	G. F. Sticking Charlotte County Rifle Association			00
do		Captain Loggie			00
do		do T. J. Hartt St. John's County Rifle Association			00
July	14	do Langstroth 8th Cavalry	1,00		00
do	16	C. Elliot Westmoreland Refle Association	1,00		00
do	23	Lieut, McMillan St John's County Rifle Association			00
do	26	Captain Langstroth 8th Cavalry	M.H. 50	10	00
do	26	Lieut. Lordley 62nd Battalion	M.H. 50		00
Aug.	2	Major F. H. Hartt do	M.H. 500		00
do	3	Lieut. McMillan St. John's County Rifle Association	M.H. 60		00
do	8	Major F. H. Hartt 62nd Battalion	12.00		00
do		do62nd do			00

Military District No. 8, St. John, N. B .- Concluded.

-				
Date.	Purchaser.	Corps.	Rounds.	Amount.
1886.				\$ cts.
Ang 10	Cantain Laggie	71st Battalion	7 000	16 00
do II	Major Arnold	74th do	1,000	16 00
do 11	C Elliot	Westmoreland Rifle Association	2,000	32 00
do 12	Major Baird	74th Battalion	1,600	25 60
Sept. 6	Captain Loggie	Westmoreland Rifle Association	1,000	16 00
do 7	Lient, Mackenzie	Northumberland Kitle Association	1,000	16 00
do 9	C. Elliot	Westmoreland do	1,000	16 00
		62nd Battalion	2,000	32 00
do 13	Captain S. D. Crawford	Garrison Artillery	1,000	16 00
do 17	Lt Cal Roor	Sackville Rifle Association	1,000	16 00 26 88
do 21	Captain Loggie	71st do	1,000	16 00
do 28	do	71st do	500	8 00
	Major Baird		1,000	16 00
Dec. 20			1,000	16 00
	The second second		-	-
		Total	46,880	766 48
-	Milite	ary District No. 9, Halifax, N.S.		
-		1		-
Dec. 29	LtCol. Mackintosh	63rd Battalion	1,000	16 00
do 30		63rd do	500	8 00
1887.				
20011	The same of the sa		7 700	100
Jan. 28	Captain Black	-3rd do	250	4 00
Feb. 24	P. F. Grant	Picton County Rifle Association	500	8 00
April 28	Major T. J. Egan.	63rd Battalion	500	8 00
May 4	Captain Garrison	Hulifax Garrrison Artillery	500	8 00
do 5	do do	63rd Battalion	500 500	8 00
do 18 do 26			2,000	34 00
do 30	Lt-Cal Mowbrey	Halifax Garrison Artillery	1,000	16 00
June 7	Captain Gordon	Pictou do	500	8 00
do 7	do Lawrence	Pictou do	5007	1000
do 7	do do	78th do Snider.	500 5	18 00
do 7		Halifax Garrison Artillery	500	8 00
do 11		63rd Battalion	2,500	40 00
do 11		63rd do M. H.	500	10 00
do 14	do do	63rd do	3,500	56 00
do 23	Lieut. Dimock	78th do M.H.	2,000	10 00 32 00
do 23 do 27	Captain McLeod	78th do	500	8 90
do 27	LtCol. Mowbray	Halifax Garrison Artillery	500	8 00
do 28			500	8 00
do 30		Halifax Garrison Artillery M. H.	260]	
do 30		An Snider	500}	13 20
July 2		do	200 }	20 00
do 2	do	doSnider.	1,000 5	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
do 2	Lieut. Dimock	178th Batiation M. C.	500	10 00
do 4	Maior T I Bray	Halifax Garrison Artillery	2,500	8 00
do 4	do do	63rd BattalionM.H.	500)	
do 8			500	18 00
	LtCol. Mackintosh	63rd do	500	8 00
do 18	Captain Church	93rd do	500	8 00
do 18	Lieut. Dimock		1,000	16 00
	-15½		1000	

Military District No. 9, Halifax, N.S .- Concluded.

Dat	е.	Purchaser-	Corps.	Rounds.	Amount,
188	17.				\$ cts
July	18	LtCol. Mowbray	Halifax Garrison Artillery M. H.	600)	
do	18	do	do Snider.	500	20 00
do		Captain Lawrence	78th Battalion	500	8 00
do		LtCol. Starratt		5007	*0.00
do	18	do do		500	18 00
do	25	do Mowbray	Halifax Garrison Artillery	1,000	16 00
do	25		63rd Battalion	1,000	16 00
do	26	Major T. J. Egan	63rd do M. H.	500	10 00
do	29	LtCol. Mowbray	Halifax Garrison Artillery H. H.	600	12 00
Aug.	9		63rd Battalion M. H.	5,000]	244 00
do	9	do do		9,000 5	
do			Lunenburg Rifle Association M.H.	800	16 00
Sept.				1,000	16 00
do	8	do		500	8 00
do			Digby Garrison Artillery	1,000	16 00
do				500	8 00
do		LtCol. Starratt	69th do	500	10 00
Oct.		Captain Lawrence	78th do	1,000	16 00
do	3	do Gordon	Pictou Garrison Artillery	1,000	16 00
do	4	do Harrison	Cumberland County Rifle Association	1,500	24 00
do		Major T. J. Egan	63rd Battalion	1,000	16 00
do	11	do Marshall	Annapolis Rifle Association	1,000	20 00
do		Lieut. Bland	Halifax Rifle Club	1,800	28 80
do		Captain Jolly	Yarmouth Garrison Artillery	1,040	16 00
Dec.	17		63rd Battalion	500	8 00 2 50
qo	Liter	do aony	100 friction tubes	******	2 00
			Total	61,010	1,028 50

Military District No. 10, Winnipeg.

			Brandon Rifle Association	1,000	16 0
do	22	Hingston, Smith Arms Co	М.Н.	600]	78 4
do		do do		4,000 \$	
May	7	Major G W. Street	Manitoba Rifle Association	500	8 0
do	9	F. W. Peters	Brandon Rifle Association	1,000	16 0
do	16	Lieut. W. R. Dow	91st Battalion	500	8 0
do	21	F. W. Peters	Brandon Rifle Association	1,000	16 0
do	25	E. L. Drewry	Winnipeg Rifle Association	1,2007	56 0
do	25	do	do do Sniger.	2,000	00.0
do	30	N. Dickie	Carberry Rifle Club	500	8 0
une			Portage la Prairie Rifle AssociationM.H.	1,0007	20.0
do	2	do	do do Snider.	1,000	36 6
do	2	F. W. Peters.	Brandon Rifle Association	1,000	16 0
do	9	Thomas Wastie	Western Rifle Association	500	8 0
do	9	N. Dickie	Carberry Rifle Club	500	8 (
do	17	Major L. Buchan	Mounted Infantry School	2,000	32 0
do	18	F. W. Peters	Brandon Rifle Association	1,000	16 (
do	20	E. L. Drewry.	Winnipeg Rifle Association M.H.	1,2007	
do	20	do	do do Snider	2,000	56
do	24	N. Dickie	Carberry Rifle Club	2,000	32 (
do	28	E. L. Drewry.	Winnipeg Rifle Association	4,000	64 (
do	28	R. C. Brown	Portage la Prairie Rifle Association	2,000	32 (
uly	4	Bingston, Smith ArmsCo	М. Н.	1,200)	200
do	4		Snider.	4,000	88 (

Military District No. 10, Winnipeg-Ooncluded.

Da	te.	Purchaser.	Corps.	Rounds.	Amo	int.
188					\$	cts
July			Manitoba Rifle Association	2,000	32	
do	11			4 000	64	
do	19			6,000	96	
do		A. Gothard		3,000	48	
do	29	LtCol. Boswell	91st Battalion Winning Bids Association W.H.	2,000 1,200	32	00
Aug.	1	Major G. W. Street	Winnipeg Rifle Association	1,800)		
do	2	do	do do Spider	6,000	132	00
do	2	Major L. Ruchan	Mounted Infantry School	1,500	24	00
do	4	A. L. Ashdown	Portage la Prairie Rifle Association M. H.	1,000)	38	22
do	4	do	do do Snider.	2,000	52	00
do	5	H. Swinford	Manitoba Rifle Association	2,400	38	40
do	6			1,000	10	00
do	18	Major G. W. Street	do do	2,400	48	00
Sept.	24	W. Pierce	Edmonton Rifle Association M.H.	2,000		00
do	26	A. L. Ashdown	Portage la Prairie Rifle AssociationM. H.	1,500		10
do	30	Major L. Buchan	Mounted Infantry School	1,200	19	20
Oct.	11	Hingston, Smith Arms Co	М.Н.	600]	44	00
do	11	do do	Snider.	2,000 }		100
do	11	A. L. Ashdown	Portage la Prairie Rifle Association	1,000		00
do	27	Major G. W. Street	Neepawa Rifle Association	500	8	00
Dec.			Winnipeg Rifle Association M. H.	1,200 }	56	00
do	5	do	do doSnider.	2,000 }		
			Total	84,000	1,408	00

Military District No. 11, Victoria, B.C.

12	Capt. W. H. Dorman	Garrison Artillery	2,000	32 00
		do	2,000	32 00
		do	1,375	22 00
		do M. H.	500	12 00
6	* do	do	2,000	32 00
1.	Assist. Surgeon Trew	New Westminister Rifle Association	2,000	32 00
2	Capt. W. H. Dorman	Garrison Artillery M. H	TOOLS	12 00
10	do	do M. H.		10 00
11	do	do		32 00
10	do	do M. H.		10 00
14	Capt. E. H. Fletcher	British Columbia Rifle Association	THE RESERVE OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TW	32 00
		Garrison Artillery	2,000	34 00
		200	10 400	000 00
		Total	17,475	290 00
	23 6 6 1 2 10 11 14	23 do A. W. Jones	3 do A. W. Jones do do M. H. do do do M. H. do do M. H. do do do M. H. do do do M. H. do do do do M. H. do do do M. H. do	23 do A. W. Jones do do 2,000 6 do W. H. Dorman do M. H. 500 1 Assist. Surgeon Trew New Westminister Rifle Association 2,000 2 Capt. W. H. Dorman do M. H. 600 10 do do M. H. 500 11 do do M. H. 500 11 do do M. H. 500 11 do do M. H. 500 12 do M. H. 500 14 Capt. E. H. Fletcher British Columbia Rifle Association 2,000 14 do W. H. Dorman Garrison Artillery 2,000

Military District No. 12, Charlottetown, P. E. I.

Date.	Purchaser.	Corps.	Rounds.	Amount.
1887.				\$ cts
do 21 do 24 do 24 do 29	do F. G. Moore do T. S. McLeod	82nd Battalion	500 500 500 500 500 1,000	8 00 8 00 8 00 8 00 8 09 16 00
Jan. 28 April 22 May 26 do 30 June do 1 do 1 do 22 July 5 do 13 do 23 do 28 do 28 do 28 do 28 do 28 do 30 do 12 do 30 do 30 do 30 do 32 do 38 do 3 July 5 do 38 do 40 do 23 do 23 July 5 do 38 do 12 do 38 Nov. 11 do 28	Major Irving Lieut. Stewart Capt. Weeks do Stewart Major Irving. Capt. Weeks do Passmore Major Irving do Weeks Major Irving do Capt. Weeks Major Irving do Capt. Weeks Major Irving Capt. Weeks Major Irving Capt. Longworth Major Irving Capt. Longworth Major Irving Capt. Alexander Major Irving Capt. G. Crockett do Henderson	do do M. H. Provincial Rifle do M. H. 82nd Battalion	500 700 500 500 500 500 500 600 500 5	8 00 10 40 8 00 64 00 10 00 10 00 8 00 16 00 12 00 8 00 16 00 8 00 8 00 8 00 10 00 8 00 96 00 10 00 8

RECAPITULATION.

	Military Districts.	Rounds.	Amount.
Military District No. do do do do do do do	1, London	37,950 101,910 35,500 137,357 } 102,110 30,980	\$ cts, 609 20 1,696 34 605 74 2,554 78 1,804 00 499 28

8, St. John, N.B. 9, Halifax, N.S.

10, Winnipeg 11, Victoria, B.C. 12, Charlottetown, P.E.I.

do

do

do

do

do

Snider—Ball	Rounds. 549,417 700 129,343 2,812
	682,272

J. MACPHERSON, Lt.-Colonel, Director of Stores and Keeper of Militia Properties.

46,880

61,010

84,000

17,475 27,100

682,272

766 48 1,028 50

1,408 00 290 00

11,712 72

450 40

[C.]

RETURN of Gunpowder and Friction Tubes issued for Practice and Salutes during the Year 1887.

Military Districts.	Stations.	Corps.	Gun- powder.	Friction Tubes.
No. 1	London	London Field Battery	Lbs.	No. 50
No. 2	Toronto	Field and Garrison Batteries of Artillery Field and Garrison Batteries of Artillery. Royal Military College and Royal School	1,910	1,690
		of Artillery Field Batteries of Artillery and Salutes Field and Garrison Satteries of Artillery and	1,1834 486	1,128 385
		Salutes	1,716 7,796§	1,165
0. 8	Quebec		1,693	869
0. 10	Winnipeg	Winnipeg Field Battery and Salutes	3901	390 372
VI 20 1111		Total	18,069	7,935

[D.]—RETURN of Ordnance in possession of the Militia

_												Gu	NS-	- F	IRI	m,	Sn	eG S	A	ND	G A	RR	180	N.
						I	Rifl	ed.					-				_				-	Sm	00	th
		-		W	rou	gh	t-ir	on			i	ron	,		Bro	onz	e.						-	
t.	STATION.				ch- ng.			M	uzz	le-	loa	din	g.							10 11	ro-br.	24	1-p	r
Military District.		6-pr.	12-pr.	20-pr.	40-pr.	7-in.	9-pr.	l 64-pr.	7-inch.	8-inch.	64-32 pr.	7-inch-68 pr.	8-inch-68 pr.	7-pr.	3 pr.	6 pr	9 pr.	12-pr.	12. pr. 34 cwt.	38 cwt,	42 cwt.	20 cwt.	48 cwt.	50 cwt.
1	London Field Battery	***					***		***	4						***			: :		***		***	***
1	Charge of Uity		***		***	***	4		***				***				4				***	* *	***	***
	do Charge of Town Straford do						1 1 1		***		111			1 1 1						***	***			***
	Kincardiae do Toronto Drill Shed Pield Sattery Charge of City	***		**		***	4			_	44	: : : :								1				
	York Pioneers		2									***			1		6		1 : 1	2	**			
	Hamilton Field Battery Prill Shed		444	***		***	4						***		100	***	: : : :	4 4 4	1 13			***		
	Port Robinson, Welland Canal Field Battery St. Catharines Garrison Battery Sault Ste. Marie Mountain Battery.	***		***					***		_		***			***			: :	1 2				***
3	Cobourg Garrison Battery Port Hope do						4	***					_		-					***				***
	Frentou do		***		***		***	**	***	***		: : :				4		***	·	***	***	4		17
	Store charge Té e du Pont Barracks Fort Henry Fort Frederick do Tower	***	***			1		***		***	140		***			***	***			1	***	6 1 2		15
	Murney do Snoal do East Branch do	***	***	*	***							***	***							***	•••	1		***
4	West do do Cedar Island do Royal Military College Gananoque Field Battery	6		1									***				***				***			***
	Ottawa Field Battery		***		***	***	4		***	***	**	***	***											
1	Store charge				100	***	***	***	***	201		40	***	***	2	2	+++	150			***		***	

and in Dominion Store charge, on 31st December, 1887.

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_											0.	ARE	ON T-I	ADI ROZ	ES.		-	TZE	R	100	Moi	TATA	RS,				
Во	re.					-						-			-	Bulman	DI HEE	Cast-	iron.		10-	inc	eh.				
C	st-	iro	n.																								1
		3	2-p	r.	1000			8-	in.					-						7					Guns.		Remarks.
32 cwt.	42 cwt.	45 cwt.	48 or 50 cwt.	56 cwt	58 cwt.	63 cwt.	56-pr.	54 cwt.	65 cwt.	68-pr., 95 cwt.	12-pr.	18-pr.	24-pr.	32-pr.	68-pr.	12-pr.	24-pr.	54-inch.	8-inch.	8-inch, 9 cwt.	16 cwt.	18 cwt.	47 or 52 cwt.	13-inch, 36 cwt.	Gatling Machine Guns.	Russian Guns.	
				1 2 1 1											11:1:	11111						1:1:1:				2	
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[D]-RETURN of Ordnance in possession of the Militia

-	[U]—RE						- 14	110												-		ARR		=
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	STATION.	-			ch-			_	zzle	-		ivr		1					-	-	Dr.	21	1-p1	-
ict.		_	los	adi	ng	-			dial		-		5.							10	ro-br.			_
Military District,		6-pr.	12-pr.	20-pr.	40-pr	7-in-	9-pr	64-pr.	7-inch.	8-inch.	64-52 pr	7-inch-68 pr.	8-inch-68 pr	7-pr.	3-pr.	6-pr.	9-pr.	12-pr.	Z-pr , 34 cwt	38 cwt.	4 cwt	20 cwt	48 cwt.	50 cwt.
_	Ottawa, Time Gun	_	-	-	1 :	-	-	-	-	-	-	-	-	-			-	- :	1	733	1 3		***	1 1
	Montreal Field Battery	-		***	1	***	4		***		1:			-			***	***		***	***		***	***
6 46	Store charge				444					-41			100	4				2		3		** #		19
10)	Granby, Shefford Field Battery				***		4	***	***	***			***		*	141			*	(60)			**	***
	Richmond Field Battery	100		***	***	***	4		***			***	491		***		***					170	ï	***
7	Quebec Field Battery			***	***		4	***	***	***	**	***	*		**		***			***		***		
	King's Bastion Mann's do	***		***	***		**	,.,	e43		1	1	-			***	***					1	7	***
	Richmond do		***	***	-41	2			***	***	ä		247			***				1			3	
	Dalhousie do	**		***	144	1	-	**		***	***	***	- 47			***		100	124	***	***	1		***
	Parade Ground	_	1100		147	***	2	101							199	***	.44	443	***	***	***	***	0	***
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	do Bastion Ursulines' Curtain	-	***	***	***	**				144	1000				**	***	***		***		14.0			***
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	Barrack do	151		***		1	4	***	477	14		***					***	***				***	***	10
3	Armory Battery, No. 1 do 2	_	-		***	**	***	***	***			***	465							***		***	***	***
	Artillery Barracks	e # 1.	***			.,.			***	-						***	144	***			+++	(m)		1
	Drill Shed, Louis Road Towers No. 1		***	***	1	***		***	***	**		***			201	***		***	***	***	***	***	1	1
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	Nunnery Battery No. 1		***													***		***	44	***	143		2	
-	Montcalm Battery,		***	***	***	***	162	194	***	***		***	***		744	***	***	***			2		***	***
	Hope Gate do	141	***	***		***	***	***	***	***		***	***		***	(exc	***	335	144	***	1	***		
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	Island of Orleans		***	***		***	***	***			2	***		***						***	***			2

and in Dominion Store charge, &c .- Continued.

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32 ewt	42 cwt.	45 ewt.	48 or 50	56 cwt.	58 CWT.	63 cwt.	56-pr.	54 cwt	65 cwt	1 68-pr.,	12-pr.	18-pr.	24-pr.	32-pr.	68. pr.	12-pr.	24-pr.	54-inch	8-inch.	8-inch,	116 cwt.	18 cwt.	47 or 52	13-inch,	Gatling	Russian	
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[D.]—RETURN of Ordnance in possession of the Militia

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and in Dominion Store charge, &c .- Concluded.

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-			cwt							5 cwt										9 cwt.			cwt.	36 cwt.	Gatling Machine	Guns	
32 cwt.	42 cwt	45 cwt	48 or 50	56 cwt.	58 cwt.	63 cwt.	66-pr.	54 cwt.	65 cwt.	68-pr. 95	12-pr.	18-pr.	24-pr.	32-pr	68-pr.	12-pr.	24-pr.	64-inch	8-inch.	8-inch	16 cwt.	18 cwt	47 or 53 cwt.	13-inch, 36 cwt.	Gatling	Kuseisu	
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APPENDIX No. 13.

REPORT OF THE ARCHITECT, ENGINEER BRANCH.

DEPARTMENT OF MILITIA AND DEFENCE, OTTAWA, 31st December, 1887.

Sia, — I have the honor to transmit herewith my report upon works and repairs made to the military buildings and fortifications under control of the Department from 1st January last to date.

London.

The contract awarded for the main building of new Infantry School, has been satisfactorily completed. A full description of this building is given in last year's report. The necessary outbuildings are now in course of erection.

Toronto.

At New Fort Barracks, "Infantry School," the following works have been done:—
Four fuel vaults to officers' quarters. New flooring to seven rooms, and new ceilings
to same rooms, in east building. Repairs to sea wall. New foot paths. Repairs
to roads and culverts. Slate roof to hospital. New fuel shed to married men's
quarters. Re-shingling roof of drill shed, and a large amount of painting, plastering
and lime whiting and general minor repairs have been done by men of the Company.

At store buildings the roof of one large store and portions of another has been

re-shingled and small repairs made to caretakers house.

At Old Fort repairs have been made to one of the magazines.

Hamilton.

The new Drill Shed to replace the one burnt down has been satisfactorily completed by the contractor.

St. Catharines.

Extensive repairs consisting of new sills, new foundations, and re-shingling have been made to this Drill Shed.

Kingston.

At Royal Military College the usual and annual repairs necessary for the proper maintenance of the buildings and grounds have been carried out under the superintendence of Sergeant-Major Birtles, R.M.C.

At Tête de Pont Barracks a large number of small repairs have been made.

The sea wall at Fort Henry has been partly rebuilt and repaired. Roofs over casemates and parapets repaired, and repairs and painting to front of casemates partly done. Other minor and necessary repairs have been made at the fort and advance battery.

Small general repairs have been made at the Artillery Park Barracks, Riding

School, Drill Shed, Fort Frederick, and to the detached towers.

Inspector of works outside the R.M. College, Messrs. Power & Son, Kingston.

Ottawa.

The inside and outside of Drill Shid has been repainted, and main hall and rooms around shed limewhitened or kalsomined. New drain put in from building, and pointing outside of building repaired. New galvanized iron roof covering to towers. Small minor repairs have been made to the building generally, and a large number of new trees to replace dead ones planted around Cartier Square.

At new Militia Stores, canal basin, a new chimney has been erected. Roof painted. New eave gutters and fall pipes put up. Flooring of tent room and arms room renewed. Additional shelving and cupboards to camp room. New steps from Sappers Bridge. Roadway improved and water channel and drainage connected with

street drain. Hydrant, fire hose and ladders provided in case of fire.

In consequence of want of space at the new stores, carpenters and armorers shops are now being arranged and carried out at the old stores at foot of locks.

Small repairs have been made to the caretaker's house at the rifle range.

At Nepean Point the brush wood has been cut out to allow of better supervision of the magazines, &c., from the caretaker's house.

Prescott.

The drill shed has been reshingled, new eave gutters and fall pipes provided,

and other minor repairs made.

The old gallery around Blockhouse, at Fort Wellington, has been taken down and renewed. Roof of Blockhouse painted and provided with new eave gutters and fall pipes and outer walls repointed. Small repairs have been made to the gateway to fort and to the minor buildings inside fort.

St. John's, Quebec.

At Infantry Barracks the following works have been done: improvement of drainage; new wood ceilings; repairs to slating; repairs to floors; new roof to old hospital building; gravelling of square completed, and a large number of small repairs for proper maintenance of buildings and grounds.

Chambly.

Small additional repairs necessary for the preservation of ruins of old fort have been made under Mr. J. O. Dion.

St. Helen's Island, Montreal

The upper part of old military wharf at lower end of St. Helen's Island has been taken down and rebuilt.

The gun shed roof has been painted.

Sherbrooke.

The roof of drill shed has been reshingled and sundry repairs made.

Quebec.

The continuation of city water supply to the various buildings of the Citadel has been now nearly completed. The old drain from officer's quarters across Champlain Street and Allan's Wharf has been taken up and new drain put in.

Owing to the fire which in July last burnt down the temporary roofs over the casemates, the chimneys of casemates have had to be rebuilt and further works will be necessary next spring to repair and make good top of casemates.

Contract has been awarded for the heating by hot water of the officers' quarters. To the several buildings of Citadel a large number of small repairs have been

made

Gun platforms at Citadel have been repaired.

The old militia stores on D'Auteuil Street are being converted into stabling for Cavalry School Corps.

The old drill shed on St. Louis Street has been taken down and contract for re-

erecting same on the Cove Field as Riding School has been awarded.

Contract for required repairs to militia offices, St. Louis Street, has been carried out.

Considerable repairs and improvements have been made to the cartridge factory. Retaining walls and fence to glacis on St. Ursule and St. Geneviève Street have been repaired and partly rebuilt.

Fence near High School has been repaired.

Repairs to No. 2, Martello Tower, have been made.

Lévis.

At Engineer's Camp, Lévis, a new main drain has been laid and a large number of repairs made to the several buildings.

St. John, N. B.

New floors to armories of drill shed have been laid. Repairs have been made to the fencing around military store buildings. Repairs have been made to magazine, Fort Howe.

Fredericton.

Repairs have been made to roof of drill shed. Repairs have been made to drainage.

A new fence and retaining wall has been built around the grounds in front of

officers' barracks.

A large number of repairs have been made to men's and officers' quarters and to Park barracks.

The magazine at Park barracks has been repaired.

Considerable improvements have been made to the water and gas supply and

to the general plumbers work of the several buildings.

The men belonging to the company have done a large amount of painting, limewashing and minor reapirs.

Winnipeg.

At Fort Osborne (mounted infantry barracks), the stabling and officers' quarters have been completed. The buildings throughout the barrack square have been provided with efficient system of drainage, with main drain leading to the river.

Two hundred feet of new fence has been erected, six hundred feet of old fence removed and re erected, and four hundred and twenty-eight feet of new sidewalk has

been laid.

Considerable repairs have been made to officers' and men's huts, cook house, wash house, hospital, &c.

New latrines are now in course of erection.

Victoria, B.C.

Buildings rented for temporary occupation of "C" Battery, R.C.A., have been fitted up.

Plans have been prepared and contract awarded for the erection of three

barrack buildings to accommodate thirty six men each.

I have the honor to be, Sir, Your obedient servant,

> H. JAMES, Architect, &c.

Colonel, The Hon. C. E. PANET,
Deputy Minister of Militia and Defence,
Ottawa.

APPENDIX No. 14.

GOVERNMENT CARTRIDGE FACTORY.

QUEBEC, 1st December, 1887.

Sir,—I have the honor to report on operations at the Government Cartridge Factory, for the year ending the 1st December instant, as follows:—

The quantity of Snider B. L. R. service ball ammunition manufactured during

this year is 1,900,000 rounds, and of blank 226,500.

A quantity of empty cartridges (274,000) is on hand ready for filling and finishing. Most of the ball ammunition manufactured this year is of the coiled brass case pattern.

The tests applied to the ammunition manufactured have given satisfactory

results.

Hereunder is given a synoptical extract of records of proof of the ammunition, covering a period of several months' manufacture.

EXTRACT of the Proof of Ammunition from fixed rests at 500 yards.

D	ate.	Number of Target.	Figure of Merit.	Wind.	Direction of Wind.	Tem- perature.	Hu- midity.
18	187.					D W	0
	20	1	14.65	Variable and gusty		440 370	54
do	20	2	14.95	do		44 37	54
do	22	1	15.00	Variable		54 47	59
do	22	2	11.28	do	()	54 47	59
May	16	1	15 00	Variable and gusty		77 62	41
do	31	1	12:55	Gusty		69 59	53
do	31	2	13+35	do	2	69 59	53
July	2	1	16.82	Variable and very gusty		90 77	50
do	2	2	16.77	do		90 78	53
do	6	1	15.00	Gusty		83 75	64
Aug.	5	1	13.07	Variable		83 74	60
do	5	2	10 56	do		83 74	60
do	12	1	14.92	Variable and gusty	3	68 63	73
do	12	2	12.75	Gusty	2	74 67	66
do	15	1	14.90	Variable and gusty	17		-
do	19	1	15.75	do		77 67	56
Sept.	1	1	11.35	Gusty		68 61	64
do	1	2	15.62	do	7	68 61	64
do	6	1	13.83	do		74 67	66
do	6	2	17.92	do		74 67	66
do	28	1	16.57	do		62 54	58
Det.	26,	1	14.97	Variable	17		-
do	28	1	19.26	Slightly variable	2/1	42 40	85
							OF.
do	28	2	16-27	do		42 40	85
do	28	3	14:07	do	2	42 40	85
do	28	4	18:17	do	2	42 40	85
Nov.	7	1	12:46	Fairly steady		42 39	78
do	7	2	11.26	do	1	42 39	78
do	22	1	12.25	Variable and gusty		33 31	78
do	22	2	14 96	do		33 31	78
do	30	1	17.25	do		10-0	-

The powder used during the year for S. A. ammunition has been exclusively R. F. G., manufactured by Curtis & Harvey, under War Office supervision.

The regular tests applied to this powder at the Factory have given good results.

An order for the annual supply of artillery projectiles having been given, to be manufactured at the Factory, a foundry and all the necessary appliances for making

studiess shells and gas checks have been provided.

I erected a cupola furnace in one of the spare Government Buildings adjacent to the Factory, which was formerly used as a lumber store; and the addition of sky lights has made this building perfectly adapted to the purposes of a shell foundry, which could be extended to double its present space at small expense when required.

The cupola furnace is a caisson of boiler plate well riveted and lined with fire bricks, resting on a solid foundation of masonry, provided with a conical flue, and with tuyères through which the strong blast of a "Sturtevant" steel pressure blower is forced. The blower though standing seventy feet from the furnace gives a very strong and even pressure of air, and is actuated by the Factory engine, and being placed in the workshop, provides the furnace with air heated to a certain degree, to which I attribute the fact of the metal running down about twelve minutes after the blast is put on, which may be considered an unusually short time.

The questionable usefulness, and the cost of a plant of elaborate moulding tables just at present, induced me to adopt, instead, accurately fitting moulding boxes

totally unconnected with any apparatus of a special nature.

I trust to a system of accurate gauging to ensure correct dimensions and the

shells being concentric.

The moulding boxes are in two parts, joined and secured by perfectly fitting

flanges and removable clamps.

The spindles of the shell cores fit accurately in a conical recess of the cross bars of the moulding boxes, and the shell patterns being provided with a cone similar to that of the spindles, the castings are concentric.

Both 9 and 64 pounder shells are east according to this method. The 9-pounders

are cast two in the same box; the 64-pounders are cast singly.

A mixture of coal and moulding sand, in proper proportions, is used for moulding those shells, to give the castings a smooth surface. A special mixture is used for making the cores.

There is no difference in the process of casting common or shrapnel, only the

pattern and the core boxes being different.

As it was necessary to provide gas checks, bushes, tubes, &c., of copper and of gun metal for this manufacture, a brass and copper furnace was erected in the foundry, in which all the above are cast, the necessary patterns, moulding boxes, and other apparatus for this description of work being provided and prepared at the Factory.

A sufficiently large drying room for cores was also erected.

Most of the work and appliances for the iron and brass foundry have been done at the Factory by the Factory personnel, except heavy forging and boiler plate work for which we had not the necessary means.

The finishing of the shells and their several parts is done in the Factory work-

shop, and apparati, were devised for the work,

A press is now in course of construction which will increase the output of gas

checks and may be utilized as well for forming shrapnel steel heads.

Metal from old S.B. ordnance has been utilized in connection with the casting of artillery projectiles. The proportion used is considerable, hence the necessity of breaking up the guns economically. This I have done by uprighting the guns to be destroyed in a pit, using charges of high explosives proportioned to the weight of the piece, and exploding the charges by a current of electricity from a dynamo, or a suitable electric battery.

The cost of breaking up does not exceed a few dollars, including the labor, and a very good metal for casting shells is obtained when mixed with a proportion of

old spherical projectiles and new iron.

The grain of the metal approximates that of Woolwich projectiles, and the pro-

portion of carbon is about the same

To settle all doubts as regards extra pressure, due to using gas checks in 9-pr. M.L.R. guns, I initiated experiments to test with instruments the pressures exerted and velocities obtained, with studded and studless shells, respectively. The experiments carried out indicated more velocity and less pressure with studless than with studded projectiles in the 9-pr.

Hereunder is an extract of the results obtained with R. L. G., charge 1 lb. 12

ounces, projectile 9 lbs. :-

No. of Shot.	Description of Projectile.	Pressure per square inch in fractions of inch.	Observed Velocities in metres.	Remarks.
1	Studless D. C.*	+440		Velocity missed.
2 3 4 5 6 7 8 9	do	*429	411.6	
3	Studded W.†	*433	401 '3	
4	Studless D. C	*443	406	
5	S'udded W	*430	403'8	***
6	Studless D. C		anima nun marin	Velocity missed.
7	do		411.8	
8	Studded W.	*425	400	
9	Studiess D. C		411.3	
10	Studded W		401.1	
11	Studless D. C		413.1	
12	do	*428	418.6	
13	do	-427	414.6	
14	Studded W		400*	1
15	Studless D. C	*423	409.3	

* D. C. manufactured at Quebec. † W. do Woolwic

The mean observed velocity of the studiess shell would be 1,364.84 feet, and the pressure 9 tons nearly, while the mean observed velocity of the studded shell

obtained is 1,316.29 feet, and the pressure 9.21 tons per square inch.

Apart from breaking up a number of shells from each cast, it is found necessary to test the quality of metal by actual firing of a percentage, filled and securely plugged. The object of this is to make sure that no flaws or defects exist liable to cause premature explosions. The shells are filled completely, as it has been proved that partly filled shells are, by this fact alone, liable to premature explosion. The lacquer is also a question of importance in this connection.

I therefore proceeded with these tests, using charges of 6 and 8 lbs. R.L.G. in a 64-pr. M.L.R., firing common shell of our manufacture. The tests established the soundness of the metal and general serviceableness of the projectiles; but it was found that the 6 lbs. charges, lately ordered to be used with 64-pr. M.L.R. converted guns, tailed to give sufficient rotation, by means of the gas check, to the projectile; and several recovered shells showed clearly that the metal of the gas check had not been pressed deep enough into the serrations on the base of the shell, and gripped insufficiently, not giving the degree of rotation required with 64-pr. shell for

The 8 lbs, charges of R.L.G. invariably gave good shooting, and the range

obtained was 1,600 yards when using elevation for 1,450 yards.

For accuracy the practice confirmed previous results.

A great deal of extra work has been thrown on those responsible for the supervison of this new branch of manufacture which, to be successfully carried out, obviously requires constant care and attention to details.

accurate shooting.

The yearly supply of raw material for the Government Cartridge Factory was received in good order, and the articles answered to specification, except a lot of base disc iron which was not to gauge and was rejected.

The clerical staff of the Factory is insufficient for the proper performance of the

office work.

The system of paying accounts through the District Paymaster without notice of such payments being given to the office of the Factory deprives the Superintendent of a very effective check on errors and of means of protecting himself from pecuniary responsibility, for which he receives no compensation. This is more than can justly be expected from him.

The number employed at cartridge manufacture during the year has been under

the average of the preceding year.

The several repairs to buildings and other works authorized have been performed, and a shed estimated for last year has been erected back of the Factory. The covering of the roof is unfinished however, and it is to be regretted that the work was not begun earlier in the season, as now the winter has set in, and owing to the incomplete state of the shed it cannot be utilized.

The wooden buildings at the Laboratory constructed by the Imperial authorities and subsequently used in connection with this manufacture, are now rapidly giving way, and to prevent further decay a stone foundation and new sole plates to replace

the rotten ones will be required.

Four of the buildings will have thus to be raised on stone foundations, they are now resting on decayed timber posts. With the repairs above mentioned the buildings will be still serviceable for a number of years.

I have the honor to be, Sir, Your obedient servant,

> OSCAR PRÉVOST, Major, Superintendent Government Cartridge Factory.

To the Deputy Minister of Militia and Defence, Ottawa.