

FOURTH MATCH.

1st prize—Cruet-stand, value \$20, presented by the President, and \$15 by the Association.  
2nd prize—\$8.  
3rd prize—Pair of snow-shoes, presented by Messrs. Renfrew & Marcou.  
4th prize—\$4.  
5th prize—\$2.  
Ranges—200 yards; 5 shots; any Rifle; any position; bull's eye—8 inches; centre—2 feet square; open to all comers. Entrance \$1. Members of the Association 50 cents.

Pte. Leat, 54th Batt., Danville...	34444	19
Adj. O'Neil, 8th...	44244	18
Captain Worsley, 60th Rifles...	34434	18
Sergt Frew, 8th Batt...	33434	17
Mr Thomas, 54th Batt...	33443	17

MATCH No. 5

The Hamilton Cup.

1st Prize.—Silver Cup, presented by R. Hamilton, Esq., and \$10 by the Association.  
2nd Prize.—Tankard, \$20, presented by Mrs. Levy.  
3rd Prize.—Artillery forage Cap, \$12, presented by Mr. J. Darlington.  
4th Prize.—Silver beer mug, presented by J. Cremazie.  
5th Prize.—\$3.  
Ranges—400 and 600 yards; 3 shots at each; Government Pattern Rifles; open to members of the Association. Entrance 25 cents.

The following is the score of the above match:

Adj. O'Neil, 8th Batt...	333	233	17
Lt Patterson, 8th do...	424	043	17
Sgt Hawkins, Vol Artillery...	343	233	17
T. Beckett, Esqr., Rifle Club	303	343	16
Cpl. Flanagan, R. E...	223	233	16

MATCH No. 6.

1st prize—Silver cup and salver, value \$30, presented by Messrs. Woods & Co., and \$10 by the Association.  
2nd prize—\$10 presented by Capt Worsley, 60th Rifles.  
3rd prize—Plated jug and tray, \$7.50, presented by Messrs. Belanger and Garipey.  
4th prize—\$4.  
5th prize—\$2.  
Ranges 400 and 600 yards; 3 shots at each; open to all comers; any rifle. Entrance \$1. Members of the Association 50 cents.

The following was the result of the above match:

Capt Worsley, 60th Rifles...	344	342	20
Mr P. Cleveland 54th Batt...	444	422	20
Corpl Shaw, do	423	234	18
Cpl W. Andrews, 3rd do V.V.R.	343	233	18
Privt H. Leet, 54th Batt...	234	323	17

MATCH No. 7.

Stadacona Cup.

1st prize—\$30 (cup or money) presented by C. E. Levy, Esqr., and \$20 by the Association.  
2nd prize—An Album, \$20, presented by Quarter Master Holliwell, and \$10 added by the Association.  
3rd prize—\$8.  
4th prize—\$5.  
Range—500 yards; 5 shots; Army Rifles; open to all comers. Entrance \$1 Members of the Association 50 cents.

The following was the result:

F. C. Wurtele, 8th Batt...	34444	19
Ensign Holliwell, do	44344	19
Capt. Worsley, 60th Rifles...	34434	18
Sergt. Barrie, 78th Regt...	43442	17

MATCH No. 8.

The Merchants' Prize, \$80.

1st prize—\$30	5th prize—\$6
2nd " — 15	6th " — 5
3rd " — 10	7th " — 4
4th " — 8	8th " — 2

Range—300 yards; 5 shots; Government Pattern Rifles; open to members of the Association. Entrance 25 cents.

This match resulted in the following score:

Capt Worsley, 60th Rifles...	300y.	Tl.
Sergt Ferguson, Vol. Artillery...	44434	19
Qr-Mstr. Toole, 60th Rifles...	44334	18
Col-Sgt Underhill, "	34334	17
Sgt Smith, R. E...	34424	17
Ensign Holliwell, 8th Batt...	43234	16
Private J. Leet, 54th Batt...	44224	16
Lieut. Harris, R. E...	24433	16
	33324	15

MATCH No. 9.

The Lower Town Clerks' Prize, \$150

1st Prize—\$50	4th Prize—\$15
2nd " — 30	5th " — 10
3rd " — 20.	And 5 next highest \$5 each.

The first three prizes to be given in money or otherwise, as the winners may choose.  
Ranges 300, 500 and 600 yards; 3 shots at the first two ranges, and 4 shots at the last range; open to all comers; Government Pattern Rifles. Entrance 50 cents.  
Members of the Association 25 cents.

RESULT.

Sergt. Ferguson, Vol. Artillery...	29
Mr. P. Cleveland, 54th Batt...	29
Lt McDougall 5th Royals...	28
Col Sergt Kelly, 60th Rifles...	28
Pte. Hollaway, 8th Batt...	28
Corp McLeod, 54th Batt...	28
Capt McKenzie, 54th Batt...	27
Col Sergt Under hill, 60th Royals...	26
Sergt Banfield, 53 Regt...	26
Pte H. Leet, 54th Batt...	26

MATCH No. 10

Sheffield House Cup (Battalion Match.)

1st prize—Winning Battalion, sterling silver cup and salver, \$60, presented by Henry Smeaton, Esq.  
Highest individual score \$10  
2nd do do \$5  
Ranges—200, 300, 400 and 500 yards; 3 shots at the first two ranges, 4 shots at 400, 5 shots at 500 yards; open to six men from each Battalion of Regulars and Volunteers, and each of Her Majesty's ships in Canada, and from the Quebec Rifle Club; Government Pattern Rifles. Entrance \$5

5th Royals, Montreal...	Pts.
54th Batt., Danville...	262
8th Bat. Vol. Rifles, Quebec...	259
Royal Engineers...	249
Quebec Rifle Club...	234
78th Highlanders...	226
60th Rifles...	225
53rd Regiment...	222
Vol. Garrison Artillery...	212
1st prize—5th Royals, Montreal...	176
1st prize—Individual Lt Holwell, 8th Bt.	262
2nd prize— do Sgt Frew, do	51
	49

MATCH No. 11.

Consolation Match.

1st prize—\$10	4th prize—\$4
2nd prize—\$8	5th prize—\$3
3rd prize—\$6	6th prize—\$2
Range—200 yards; 5 shots; any rifle, open to all who have unsuccessfully competed at the meeting.	Entrance free.

RESULT.

Sergt Norris, 8th Batt...	44444	20
---------------------------	-------	----

Capt Esdaile, 5th Royals...	34344	18
Private Irving, 78th Regt...	43344	18
Sergt Tointon, 60th Regt...	43334	17
S. M. McDonald, 8th Batt...	34433	17
Corpl. Campbell, 3rd Batt V.V.R.	34433	17

MATCH No. 12.

Champion Match.

Prize—\$20, presented by J. K. Boswell, Esq., and \$20 by the Association, (cup or money.)

Range—600 yards; 5 shots; open to winners of prizes; any rifle. Entrance free.

RESULT.

Cl Sgt Underhill, 60th Rifles...	23344	16
Capt. Worsley...	23344	16
Being a tie, it was fired off, and resulted in favor of Col. Sergt. Underhill, he making a centre and Capt. Worsley an outer.		

AN INGREDIENT OF GUNPOWDER.

The London Engineer says:

Picrate of potash has for many years been pointed out as a promising ingredient in the composition of gunpowder, and circumstances have at last rendered it commercially available. M. Payen has made a communication on the subject to the Societe d'Encouragement of Paris, in the name of M. Clerotiad, who has been engaged for seven years in the application of this salt to the making of powder, and within the same period M. Casselha, manufacturing chemist, has succeeded, by improved methods of manufacture, in reducing the cost of picrate of potash to less than 2s. per pound.

The explosive quality of this salt would seem to allow of great improvement and modifications in gunpowder. The proportions of the materials which form ordinary powder are nearly fixed, and an increase in projectile force is only to be obtained by superior care in the manufacture, greater compression, or by the mode of firing. The employment of picrates opens a wide field for experiment. They possess considerable detonating power, which may be increased by the addition of certain other substances, and thus a very rapid decomposition and great bursting power may be obtained, while, on the other hand, the effect of the picrates may be modified to any degree by inret substances, such as charcoal, so as to prolong the decomposition during the whole time that the charge is in the cannon, thus obtaining the largest amount of projectile force with the lowest bursting power. The projectile power may of course be modified by altering the proportion of the picrates employed; for artillery the amount is stated to be from 8 per cent. to 14 per cent., and for small arms 20 per cent. The bursting force of hollow projectiles may be considerably augmented by the use of picrates, but the maximum is said to be obtained from the employment of equal quantities of picrate and nitrate of potash.

The effects of the new powder on the arms with which it is used have been carefully studied. It is found that in the open air and without compression it gives off cyanhydric acid and binoxide of nitrogen, while, when compressed in a closed space, such as the barrel of a gun, it only produces a mixture of nitrogen and oxygen, and of carbonate of potash mixed with charcoal. The employment of the picrates does away with the necessity for the use of sulphur, considerably diminishes the amount of smoke, and lessens the wear of the arms. The manufacture of the powder, which is carried on at Bourget, not far from Paris, is described by M. Peyen as very simple. It consists in pound.