RIFLE MATCHES.

COUNTY RIFLE MATCH.

The Cup and Prize Money presented by the County Council, to be competed for by the Volunteers Militia of Simcoe, were again shot for over the Barrie Range, on Friday last the 25th, and won by Capt. Graham. No. 1 Co., Barrie. The following are the winning scores :--

Captoin Graham. No. 1 Co., 44 Points, Private Wainman, No. 7 Co., 42 " Private Sproule, No. 5 . 0 , 37 41 Sergeant Sutherland No. 4 Co., 36 No. 5 Co., 35 Privato Ward, `44 Sergeant Gilkinson, No. 3 Co., 34 Lieutenant Green, No. 1 Co., 34 ı. " Corporal Steaart, Ensign Russell. No. 5 Co., 31 Corporal Roseman. No. 4 Co., 31

We are sorry to see officers contending for prizes which were evidently intended for the rank and file-the men who, in the event of the Force being required for active service, would have to use the refle. We cannot help thinking that it is rather beneath the dignity of officers to be contending for small money prizes, which should be left ex. clusively to the non-commissioned officers

DRILL EXAMINATION.

The following were the successful competitors for the Duill Prizes:

For the cleanest and best-fitted arms and accoutraments, in marching order, Sergeant Stephens, No. 5 Company. 2nd prize Sergt. Hamilton, No. 2 Company.

For Manual and Firing Excercise .- This | ampton." prizo was divided between Sergeant Stophens and Sergt. Hamilton.

The Special Drill prize was also taken by Sergt. Hamilton,

The Marker's prize was after a sigid examination, awarded to Sergt. Harris, No. 2 Company.

MILITARY ATHELECTIC GAMES.

Marching Order Race .- Ist prize, Private W. Hayes; 2nd prize, Sergeant Major Bassett.

Hurdle Race.—1st prize Private Lee; 2nd prize, Sergeont Major Bassett.

Three legged Race.—Lit prize, Priv. Ward 2nd prize, Sergt. Harris.

Sack Race. Ist prize, Sergt, Harris; 2nd prize, Sergt.Gilkison.

Wheelbarrow Race.—1st pring Co.p. Steam art; 2nd prize, Sergt. Harri gov. .

Stanging High Jump. So geant Major

Putting the Stone .- Sergt. Gilktson.

take place annually; and considering that lose or woody matter, otherwise termed they are intended to encourage and foster lignine, partially converted to xyloidine is people of Barrie will give them their support! those contingencies. Our readers will un.

and countenance. Volunteers, like other densind that, immenced is the way? men, like to be looked at and admired, as a constituent of the schultz-gun mode fence, and in addition give their time and service. - Larric Examiner.

SMOKELESS GUNPOWDER.

(From Belgravia.)

Gunpowder, ordinary black gunpowder though it has seen some service and done some hard duty in its time, is not so perfect as to fulfill all requisitions desired; wherefore from time to time experiments have been directed to the manufacture of a sub.

The only substitute yet invented which has met tavorable notice from practical sportsmen is Schultz's wood-powder, which, from its being granulated, and consequently permented by nir can never generate fire of itself. This explosive, invented by Captain Schultez, a Prussian officer, was originally manufactured at Potsdam, near Berlin, and the factory catching fire in 1868, instead of Under the condition indicated sulphide of exploding-ruining the neighbourhood, and leaving many widows and orphans, like the recent gun-cotton explosion at Stowmarket -burned quietly to the ground. A company of English gentlemen, fond of field sports, foreseeing the advantages to be derived from its introduction into England, purchased a site for its production in the New Forest, and thither we must carry our readers on "a visit to the Schultze gunpowder mannfactory," at Redbridge . ear South-

Here and there, at intervals wide apart, are various buildings of light structure, from one of which rises a tall chimney, instrumental in raising steam to drive a 15 horse power sawing muchine, which rapidly creates the "wood powder" to be turned into use for the gun by the following process.

The grains, being collected in a mass are subjected to a treatment of chemical wash ing, whereby calcureous and various other impurities are extracted, leaving hardly anything behind save pure woody matter, cellulose or lignine. The next operation has for its end the conversion of these cellulose grains into a sort of incipient xylor dine, or gun cotton material by digestion with a mixtor of sulphunicard allowers to Pin in the last of Live generates (the che the come of the tours the most text for my or raines spontaneously by time, the class prostlet. of combistion being gum and oxalaracta. Running High Jump .- S regeart Mojor but it is, moreover, liable to combustion of a sort that may be practically called spontancous, so slight and so uncontrollable are We understand that these games are to the cause sufficing to bring it about. Collaour Volunteer System, we hope the good, the inventor uffirms, subject to neither of

knowing as they do, that as tax payers they is not observed, its original hydrogen is let., contribute their share to the cost of the de- and by and by, at the time of firing will be necessarily utilized toward the gascous proulsive resultant. Next, washed with carbonate of soda solution and dried, an important circumstance is now recognize

> The grains, brought to the condition just described, are stored away in bulk, not, necessarily to be endoved with final explasive energy until the tund of pickage. transports, and consignment. Caly one treatment has to be carried out, and it is very simple. The ligneous grains have to be charged with a certain definite presentage of some nitrate solution and drying. Ordin 11ly a solution of aitrate of potash (comm n sutpetre) is employed; but, in elaborating certain varieties of white powder, nitrate of baryta is preferred.

> Having traced the new powder to its find stage, we may contemplate it in the light of two distinct scrutinies-theoretical and practical. Review of the chemical agencies involved or that may be evolved, suggests the reaction, especially under prolonged moisture, whereby sulphide of potassium should result. Practice is confirm tory: potassium, more or less, does result, and proportionate to the extent of decomposition is the powder deteriorated. Inaumuch as the Schultze gunpowder is wholly devoid of sulphur, so is the particular decomposition adverted to impossible; and nheory, it least fails to anggest any other decomposition as probable, or even possible.

> All the buildings requisite for mainface turing this explosive are cheap and fleus, so that if it did eateh fire no loss south a The "plans of moder .. -mades to compress man

> wood powies Lead a price grant of a rate with its chopp production. An expect sive is often "better known then likel. such as gun cotton; but Schultze's woodpowder requires only "to be known to be liked," as a trial of it, ately made for the satisfaction of its reader by the conductors of the Land and Water journal, recently showed. Indeed, it was proved to give more penetration than gunpowder, and it costs There is also no smoke, and conse quently the second barrel can always ! used at once, instead of waiting for the smoke to clear away, as when using blac.. nowder.

> The reorganization of the Germanartiller which his been much spoken and written about of late, beams on the let No error, A Section of the grant of the section of rest the first of the state of the state of received after a reservant and of earth control Processor of Company Science of Processor of the Company of the Co tion of the lemantes to the present as a ciges expected of them by the grouping and distribution of the batt ries according to their kind; such are the advantages and the aim of the re organization of the German ar. tillery. It bught not, however, to be forgot ten that besides, thirty new batteries are to be created."