cessful and economical a factor in mining else where. At present 100 to 120 tons of ore per day are being brought down from Rossland by the Tramway, but this amount will be greatly in creased. At the smelter 140 to 160 tons, it is stated by the management, (July 29) are being smelted daily, with a concentration of about twenty tons into one ton of matte, which matte goes to Bucce to be refined; but already the foundations for a refinery at the smelter are nearly completed, in which the matte, after being crushed, will be fur ther calcined in a reverbatory to be constructed, and then resmelted in two of the present reverberatories, after which the product will be treated so as to yield a high grade copper matte for export, from which 80 to 90 per cent. of gold and silver value has been separated for special refining and parting at these works.

From 175 to 200 men are employed, and when all these improvements are completed, this smelting plant will be well-equipped and capable of handling 350 to 400 tons of our daily; and if the demand increases a still larger plant can easily be added. Again, with the increased means of transport, and the building of roads into other mineral producing districts, access to other classes of ore may greatly better and cheapen the process of smelting.—William A. Carlyle's Report.

Hon. Col. Baker, Minister of Mines.

T. COL. THE HON. JAMES BAKER, Minister of Education, Immigration and Mines, and Provincial Secretary for British Columbia, is a man whose type is seldom found in public life in Canada. Apart from his official position and his individuality, special interest attaches to him as belonging to the celebrated Baker family, of Samuel Baker whom Baker Pacha and Sir too well-known to require introduction 21 Pe to any of our readers. Col. James Baker was the youngest of these brothers, had fortune thrown his lot in similar lines it is quite legitimate to assume that a fame not less shining would have been his, because in keenness of intellect, dash and personal physique and courage he shared these qualities with his distinguished brothers, who became world-noted thereby. Hence in British Columbia, as he would be anywhere in the Empire, Col. Baker is an interesting figure. In his own way he has had a career scarcely less noted than Sir Samuel and Baker Pacha, though, as often occurs, the one is obscured by the greater fame of the other. Briefly, it has been as follows: He was born in London, England, in 1830, being a son of the late Samuel Baker, Esq., formerly of Gloucester, England, and after his school boy days entered the Indian Navy in 1844 as a midshipman. In 1849 he was appointed to command 100 seamen, to proceed to Mooltan to join the Naval Brigade, if he could pass the examination as acting master. succeeded, and received the appointment, and was just about to start on the expedition when orders came down that no more seamen were to be sent up, as the siege had been raised. This unexpected change in the programme was a bitter disappointment to him, but was somewhat compensated for when, a short time afterwards, he was appointed first lieutenant of the schooner Mahi, three guns and forty men. At the qualifying examination for lieutenant he obtained the highest marks ever

given for navigation. In 1850 he retired and returned to England, where after a time he entered the army as cornet in the Royal Horse Guards Blue. On the breaking out of the Crimean War he volunteered for any light cavalry serving in the field, and was lucky enough to be appointed to Eighth Hussars. While serving with this regiment he was present at the Battle of Tchernaya and at the siege and fall of Sebastopol, being afterwards honoured with medals and clasp.

After his return to England he was appointed to raise and command the Cambridge University corps, and was frequently selected to command bit gade voluntors. In 1861 he organized a scheme for military education at the universities, on basis that all officers basis that all officers entering the army should high through them and have the advantage of the miliest education and also be given instruction in military duties The military duties The scheme was cordially adopted versition of the by all the universities of Great Britain, and the agreed to establish miliagreed to establish military scholarships and military fellowships are best to the state of the others who took great interest in the scheme was the late Prince Consumption the late Prince Consort, who ordered Col. Baker to meet him at Windows He also had to attend the Council of the truction of that tary Instruction of that date to explain the method he proposed of organization he proposed of organizing the new military education scheme All this time the Duke of the bridge was endeavouring to obtain a vote of House of Commons for tion scheme. House of Commons for the enlargement of Sandhurst Military College hurst Military College, in order that every officer who entered the symmetry who entered the army might be obliged to pass at least a year in the least a year in the institution before being or The two rival projects were thus the same time sidered at the same time, with the Prince Consort supporting the pointed. supporting the one and the Duke of Cambridge en other. When the When the motion to provide for the of Sandham largement of Sandhurst came up in the House de Cemmons and was brought to a vote it was feated through the feated through the exertions of the Prince Consort and the university and the university party, but Disraeli, at that the Prime Minister was a few Prime Minister, was afterwards informed that the buildings at Samuer 1 buildings at Sandhurst were partially completed and, as the many has and, as the money had to be found, a re-vote the Later on the Prince Consort was going to Cambridge, with view, amonst other this view, amonst other things, of furthering the schepe for military education for military education, when he was unfortunately stricken with his fortal in Had the Prince lived, the project undoubtedly would have been ried to a suggested in ried to a successful issue, but, as it was, a compremise was effected and mise was effected subsequently which resulted in university examination and the university examination admitting to the army with out further test.

While a student at Cambridge, Col. Baker won an exceptional interest in rifle practice, and the Prince of Wales' Challenge Cup, the Prize at the all-comers' meeting, and the first stage of the Albert Prize at Wimbledon in 1864, and in the match made the highest score. In 1875 he retire with the permanent rank of lieutenant-colonel ther Majesty's army. On leaving the university the corps with which he was connected presented him with a handsome piece of plate. Col. Baker was entered as a Fellow Commoner at Magdale College, Cambridge, and from there obtained first-class degree, and was afterwards made a ter of Arts. After graduating he was appoint