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This

Scores of Students are Now Studying Mineralogy.

WOULD - BE PROSPECTORS

Will Hustle Towards Western Ontari in the Early Spring.

tish Columbia and make their fortunes as prospectors. A wag at the school, acknowledgments to Tennyson, sends The World some stanzas which would-be mining experts:

The Charge of the sundred Prespectors.

By Pros Spectre.

Haif a league, haif a league, haif a league onward, duto the wooly west marched the one hundred; hundred;
Jeered at with laugh and yell,
Bravely they walked and well
Into the land of gold, alias the mouth
of Hell,
Tramped the one hundred.

Miners to right of them, miners to left of them,
Miners behind them trusted and blundered;
No time to reason why,
No time to make reply,
Gold, gold, their only cry,
Noble one hundred.

Shovel and pan in hand, made a stand,
Picking up gold bricks while all t
world wondered;
Gid! Did I say? Alas!
Not even decent brass,
Iron pyrites dismayed
The one hundred.

Calcspar and plagioclase, felspar an orthoclase,
Hornblende and quartzite, confused
the one hundred,
Massive and schistose rocks,
Crystals and rhombic blocks,
Till they felt certain that
Someone had blundered.

When can their memory fade? Oh, the mistake they made! Loudly and deep they cussed and wondered;
Then they turned home again,
Sadder but wiser men.
All that was left of them,
Left of one hundred.

TESTS FOR MINERALS,

How to Find Out What Various Ore

The Mining and Electric News gives some tests for lead, silver, gold, cop-

per and iron ores.

Lead and Silver.—Take a piece of the ore to be examined, powder it and pass it through a fine sieve. Take 25 grains, or thereabouts, of the powdered ore, place it on an iron spoon and roast until no smell of sulphur arises. Place the sample in an evaporating dish and add twice the quantity of nitric acid, diluted with a little water. Heat over a lamp until citrous acid fumes subside, dilute with a little water, and allow it to settle. If cloudy, the solution must be filtered. If clear, carefully pour off the solution from the sediment into a glass or test tube. Divide it into three portions in three different glasses. Add to one portion a few drops of common salt solution and silver, if any, as a white chloride; add the salt solution until the precipitation ceases. Pour off the solution and wash the precipitate with boiling water; this will dissolve it, if silver. The chloride of silver, if exposed to the sunlight, turns to a darker shade of color than the chloride of lead, and in that case will not dissolve in ammonia. It should, therefore, be done

the sunlight, turns to a darker shade of color than the chloride of lead, and in that case will not dissolve in ammonia. It should, therefore, be done quickly and under cover.

Gold.—To the original and undissolved ore add (aqua regia) one part nitric to two parts hydrochloric (muriatic) acid, to cover the ore. Digest for half an hour gently over a lamp, add water until cool, and place it in a glass or test tube. Now add a few drops of chloride of tin solution; if gold, a purple color will be shown—"The Purple of Cassius." This, on shaking, if too much of the chloride has not been added, will disappear.

Add a little sulphate of iron solution, and it will form a brown precipitate, which will not disappear on shaking. Copper.—Add ammonia to a portion of the first soution, and, if copper is present, it will give a blue color.

Iron.—Add to another portion of the first solution a little of the ferro cyanide of potassium solution (yellow prussiate of potash). If iron is present, a deep blue color will be shown (Prussian blue).

NOVA SCOTIA GOLD.

A Pointer for Jim Hughes.

Bobcaygeon Independent.

If a school teucher has a right to thrash is a scholar, it can be no other right than that of superior, it can be no other right than that of superior, than that of superior, it a scholar, it can be no other right than that of the scholar, when grown up to manhood, should prove to be stronger than the teacher, the young man would have the right to thrash his som to make him what he considers "good," has not the son the sam right to thrash his son to make him what he considers "good," has not the son the sam right to thrash his son to make him what he considers "good"? Again, is thrashing necessary under any circumstances?

Anyway, Mr. Black has raised the question of the moral right of a school teacher to beat or thrash a pupil, and the discussion that has followed cannot fail to exert a beneficial influence. The period of physical force has nearly passed away, and it is not possible in these modern cays to find any r

rande of potassium solution (yellow prussiate of potass). If from is present, a deep blue color will be shown (Prussian blue).

NOVA SCOTIA GOLD.

The Eastern Province Makes a Very Good Showing.**

Half a million of dollars' worth of one metal, taken out of the earth in twelve months, is a not unimportant fact for an eastern province. Yet this is the showing made, in round figures, by the gold mines of Nova Scotia during 1896. An interesting compilation of the quartz crushed and the gold yielded by 50 mines in that province is made by The Industrial Advocate in its February number. The total is 23,837 ounces, valued at \$453,933. Some mills have not yet reported and the total yield was possibly over the hadridling. This is likely to be increased in 1857; the journal quoted thinks it would be easy to double the output, and advises that there be "systematic and thorough work, together with honesty and straightforward methods in availing ourselves of the golden harvest." The names of the producing districts are: Sherbrooke, Caribou, Stormont, Uniacke, Waverley, Oldham, Lake Catcha, Brookfield, Whitebrun, 15-Mile Stream, Central Rawdon, Cow Bay, Renfrew, Montague, Malaga Barrens, Wine Harbor, Gold River, Killag, Tangler.

Why Rossland Will Boom.

Why Rossland Will Boom.**

Thus spoke Lieut.-Gov. Mackintosh of the Northwest Territories as he sat the spower will only laid the office. That spoke Lieut.-Gov. Mackintosh of the Northwest Territories as he sat the services of the golden havest. The province in 1897. It's future is great: the amount of capital that will find the province in 1897. It's future is great: the amount of capital that will find the province in 1897. It's future is great: the amount of capital that will find the province in 1897. It's future is milestically the province in 1897.

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Deer Park, 23c (going higher); Vulcan, 4c; Yale, 4c (small block); Ottawa and Ivanhoe silver mines (Slocan), 12½c; The Canadian Gold Fields Syndicate, 10c; The British-Canadian Gold Fields (500 shares), 19c; Santa Marie Slocan silver mine, a splendid buy, 5c; Monita (1000 shares), 20c; Colorado Dev. (500), 28½c; Monte Cristo, 16c; Silver Bell (500), 7c; Ibex (1000), 5c.

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Dev. Co., 3\(\frac{1}{2}\)c; Deer Park, 22c; Golden
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16c: Mayflower, 16c; Colonna, 25c;
Juliet, 12c; Snowdrop, 2\(\frac{1}{2}\)c; Butte, 4\(\frac{1}{2}\)c;
St. Elmo, 12c; R. E. Lee, call: Ibex, call: Montezuma Mining Co., 4\(\frac{1}{2}\)c; California. 12c; Big Three, 12c; Silver

Boll 7c.

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100 St. Elmo
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Send for our prospectus. It will interest you and is worthy of a careful perusal, showing, as it does, a company conducted on a business basis, and the most successful of its kind in the Dominion to-day. Personal

J. GRANT LYMAN, Managing Director

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CAPITAL \$10,000. Divided Into 10,000 Shares of \$1 Each.

Manager-E. H. PERKINS (of Cleveland, O.). Secretary-Treasurer-HARRY GOSS ((Toronto). Bolicitors- Messrs. CLUTE, MACDONALD, MACINTOSH & M'CRIMMON

The River Range Oil Co.'y has been organized to drill for Oil in the Bothwell oil territory. The Company has a lease of 74 acres in the oil belt, and a contract has been let for sinking the first well. The Company's property comprises the east half of the farm owned by Mr. George Swallwell, facing on the river. Various companies are drilling on each side of the Company's lot, and splendid wells have been struck. The most valuable property so far discovered is that of Messrs. Carmen and Fairbank, who are shipping 150 barrels of oil daily from a few wells. One of their wells has pumped 50 barrels a day Development Co. (Ltd. Liability), continuously since it was drilled in August last. On the lot immediately west of the Company's property the Cleveland Oil Co.'y have sunk two wells, which together average 15 barrels daily. Mr. Ramsey, representing the Olean (N.Y.) a Oil Co.'y, is drilling on the lot immediately east of the Company's. On the lot next further east Mr. J. R. Minhinnick, London, has struck a good well and has let the contract for sinking five more on the same lot. The Swallwell farm is in the centre of the oil belt. There is great activity in the district. Some 40 rigs are engaged drilling for oil, and all the desirable property has been secured by Canadian and Ameriocan oil operators.

In Petrolea it pays to operate a well pumping one-third a barrel a day.

Experts are agreed that the Bothwell oil field will be a

The Company has 7000 shares in the Treasury. The proceeds of these shares will be used for sinking wells and

One-half of these shares, 3500, are now offered to the public at par. For full particulars apply to

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OF ONTARIO, LTD.

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