

HOW TO VALUE A MINE

Expert's Method of Estimating the Worth of "Ore in Sight."

Always an Element of Uncertainty Even Under the Most Advantagous Investigations of Deposits.

With the news that John Hay Hammond's proposal to take charge of the independent gold mine had been accepted by the London owners came the report that this mine had been "locked out." This statement had been made many times before, and much doubt existed in the minds of interested parties when Mr. Hammond's latest report was received, says the New York Tribune. This document showed that the property which for a long time yielded a 40 per cent. dividend on a large investment, was still rich in ore, and capable of producing large profits. Mr. Hammond said that the "ore in sight" warranted him in guaranteeing a dividend of ten per cent., or \$488,000, and that would leave about \$500,000 out of the year's deposits to be used toward the further development of the property and locating new ore beds.

The phrase "ore in sight" is one that is well understood by people who are interested in the mining business, but is misunderstood by the average layman. The ore is not "in sight" on the surface, but its existence is established by a series of operations which are in many instances exceedingly difficult, expensive and laborious.

Speaking on this subject, Dr. A. R. Ledson said: "There is no way to determine the existence of gold ore, its quantity, quality, or anything about it unless one gets on three sides of the deposit, and even then there is an element of uncertainty about it. Ore in sight is what has been found after 'blocking' out a certain section of ground. The 'blocking' is accomplished in various ways in keeping with the nature of the ground. Thus, by sinking a shaft of 20 feet in width 100 feet into the earth and then running a level from this, say 200 feet, to another shaft the same depth and width as the first, and then taking samples of the ore or rock from all parts of this block one would have a good idea of the yielding qualities of that particular block. This block would be 400,000 cubic feet, or about 20,000 tons, and the assays from the four sides, the two shafts, the tunnel and the surface would be the 'gold in sight.' The center of the block, which cannot be reached until actual operations are begun, might yield much more than the assays indicated, and, on the other hand, it might be found worthless or barren rock. In cases where the block of 100x200x20 feet would be deemed insufficient for determining the value of the mine, another block of similar size may be laid out below or beyond the first, and by this series of blocking the value of the mine as a gold producer is estimated. It is a well-known fact that gold is often deposited in 'shoots' that run in oblique and tortuous directions from the surface, and one must be posted on the geology of the country to arrive at a correct estimate of the value of the land that has been blocked out. A shaft, for instance, may run for 100 feet through rich ore, and another parallel shaft 200 feet away may not strike any ore until a depth of 100 feet or more has been reached. The next shaft 200 feet further away may have to be sunk still further before the valuable rock is reached, and this would indicate that the shoot runs diagonally from the surface. This is only one of the many phenomena in the matter of gold which present themselves to the mind, and no set rule can be followed in order to locate the valuable ore or to determine its extent. But the term 'gold in sight' or 'ore in sight' is usually applied to the block or to the series of blocks which have been examined and assayed on three sides."

WANTED TO FIGHT OLD NICK.

Pat Thought He Was in Fit Condition to Lick His Satanic Majesty.

Pat Brophy was one of the characters of the county some 25 years ago, says the Mayville Ledger. He belonged to a family of six stalwart brothers, immigrants from the Emerald Isle, who seemed to have an inherent love of the "earth."

On one occasion Pat had been to church, and hadn't forgotten to get his pig for the week.

Now, among other virtues claimed by the Brophys was that they could whip anything between the river and the North Fork, and frequent brawls were the consequence.

On this particular occasion, Pat being alone, no bastards had come off, and the bairns son of Erin had nearly ruined his home, when he was seized with a desire for a wee drop.

The jug was in his sack across his saddle, and, in dismounting, every thing went to the ground together.

The consternation depicted on Pat's countenance at the untoward state of affairs was a jug gave way was something to behold, but it was soon asped by one of anger.

Pat couldn't do the subject justice, but according to a gentleman who happened to be near "knowsabout," he is sued a challenge to his Satanic majesty in these words:

"Damned if I don't dare, the devil to come up and fight one round me!"

Woudn't Keep.

Fair Helen—I hear you have a secret Fair Grace—Well, I did have one, but I wouldn't keep.—Syracuse Herald.

Tired and Nervous

It is easy to tell when your nerve-force and vital power are slipping away from you. When your day's work leaves you weary and exhausted; when you are so nervous, irritable and sleepless that your nights are passed in restless tossing; when you get up in the morning with no appetite for breakfast, and go around all day with a headache; you may be sure your nervous strength is being used up faster than it is being renewed.

NEW UNIFORM FOR TOMMY.

British Soldiers Will Soon Be Provided with Fawn-Colored Serge Suite.

It is probable that in a very brief period there will be considerable changes made in the material used for clothing the army on home as well as on foreign service, says the London Telegraph. The committee dealing with the subject, which has been in session for about a couple of years, has at length been able to come to a final decision. Probably the events in South Africa have helped the members to make up their minds. At all events they have chosen an excellent woolen serge-like material in which for the future practically the whole work of the troops will be performed. It is not khaki-colored, though that well-known and serviceable hue is somewhat closely approached. Troopers will not be made from exactly the same material as the jacket, but of one somewhat rougher and thicker in texture. The new material is of a yellowish-fawn color and is of excellent quality. It was selected from a great number of samples submitted to the committee and has been approved by the war-office. Two other materials of the same sort, but of rather stronger texture, have been selected for the mounted branches, and a stout Bedford cord of the same color will be used for riding breeches. The new uniforms will supersede the serge and dark cloth trousers now worn for drill and field work, both at home and abroad. The same pattern of jacket will be used for all branches of the service, but each unit will wear a distinguishing badge on the cap and shoulder strap.

It is not, however, intended that the new clothing shall entirely supersede the old style of dress. The tunic is to be worn for full dress, so that on full-dress parades the familiar blue and scarlet and black will still greet the eye. Of course, it will be a considerable time yet before the uniform will be ready, but it is probable that the spring issue of clothing to the troops will include the new suit. It will be more handsome than khaki, while it will be far more comfortable and serviceable, and so far as experiments go to show it will possess equal invisibility. It is to be hoped that a suitable headress may soon be devised for the army. The helmets worn by the regular troops in South Africa are excellent and greatly superior to the much-vainted "smasher" felt hat, but they are hardly suitable for home wear. A peaked cap of the new cloth, picked out with scarlet lines and made somewhat approaching the Russian pattern, would look very smart and be suitable for general wear. At all events, the ridiculous forage and field-service caps should be relegated to the museums, along with the blue and scarlet serges now about to be superseded by the new uniform.

YOUNG KRUGER IS A HERO.

Grandnephew of the Boer Ex-President Saved a Starving Sheep.

An English ergonomist has had the extreme hardihood of relating an anecdote in a Dublin paper that reflects great credit upon a near relation, a grandnephew of England's arch-enemy, Paul Kruger. He was staying at Gladstone with two friends, and while boating on the upper lake under Camaderay mountain, noticed a sheep pitifully bleating on a ledge about ten feet up the sheer cliff. The animal had been there for days and was in a state of semi-starvation. The peasants about had resolved to shoot it out and thus end its misery. Young Kruger, however, essayed its rescue. He tied a piece of tarred twine round the side of his boat and climbed up the face of the precipice, much to the anxiety of his friends. The operation took him quite two hours, during which the slightest unsteadiness or wavering would have cost him his life. Halfway up he shouted down that he could not move further. With a final effort, however, he gradually worked his way up, reached the animal and lowered it eventually until he regained the boat. His intrepid act excited intense admiration among the spectators. His task seemed utterly impossible and in any event was attended with terrible danger. Young Kruger was at the time a medical student at Edinburgh university and on the declaration of war sailed for South Africa.

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Occupations Open to Women.

Within the last 15 years schools have sprung up all over the country for the education of women—education both of a general and a special nature—and now a girl chooses a vocation and fits herself for it with such care as her brother gives to the preparation for his life work. But these, I believe, are in the main what may be called "new occupations." Fifty years ago there were but seven forms of employment open to women—teaching, needlework, work in cotton mills, keeping boarders, typesetting, bookbinding and household service. To-day there is not a profession or calling, from the ministry, medicine and law to bookbinding, barbers and street cleaning, in which women are not engaged and earning good wages. Carolyn C. Mumford, in Woman's Home Companion.

Unappreciated Activity.

"I tell you that illnesses doesn't pay. The surest way for a person to get ahead is to keep moving."

"I fancy you're right. That's the way four of my tenants got ahead of me last week!"—Stray Stories.

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