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DEFINITIONS GIVEN OF COMMON MINING TERMS

Meaning of Many of the Terms Frequently Used in Describing Mining Properties and Progress

At various times The Advance has been asked the meaning of terms in common use in mining but not always clear to the uninitiated. For the benefit of enquirers along this line the following summary of definitions from various mining books may not be out of place.

Adit.—A level mine opening driven into a hill or mountain.

Crosscut.—A level or drive through a lode at right angles to its strike.

Drift.—A horizontal passage in a mine following the lode or vein.

Hoist.—An engine for raising ore from a mine and for lowering and raising men and material.

Level.—A horizontal opening in a mine, usually connected with a shaft. Levels are commonly opened at stated intervals as depth is gained—usually at 100 ft. in modern mining practice. The word "level" frequently is used interchangeably with the word drift, but is more comprehensive. Both drifts and crosscuts may be opened on a level.

Lode.—Any metalliferous vein; a cleft in the earth's crust filled with mineral, and having well-defined side walls.

Raise (or Rise).—See "Winze" below.

Shaft.—A deep pit or opening sunk from the surface by means of which a mine is worked or prospected.

Station.—A chamber in a shaft, cut out for pumps, landing place, etc.

Stopes.—The workings in a mine between levels from which the ore is taken in a series of steps, called overhead or underhand stopes, according as they are above or below a level.

Stopping.—Breaking ore (for extraction as distinct from development) in a section of ground, above, below, or between levels or drifts. Breaking

ore overhead in a level is called "overhead stopping," breaking ore under the feet in a level is called "underhand stopping."

Strike.—The horizontal direction of a vein, measured by the points of the compass; a discovery of ore.

Sump.—The pit at the bottom of a shaft, where water collects; also in cyanide plants.

Tunnel.—A practically horizontal opening entirely through a hill or mountain. Term is commonly used instead of adit, which is a horizontal gallery having only one opening to surface.

Wall.—The side of a mine opening or drift. The waste or country rock on each side of a vein.

Winzes and Rises.—Two kinds of opening for connecting two levels in a mine, differing only in construction. A winze is sunk underhand and a rise is put up overhand. When the connection is completed, standing at the top the opening is referred to a winze, and when at the bottom as a rise.

TORONTO TELEGRAM ON THE NORTHERN CRUSADERS

Among the references in The Toronto Telegram to the Northern Ontario Crusade were the following paragraphs, as well as a number of half-tone pictures of the parade and its personages:

Says The Telegram: Some of the floats gave a very fine idea of the development of the North Country.

There was the travelling school with kiddies at work in a railway car, a work in which Premier Ferguson, as Minister of Education, is so much interested.

Then there was the Indian car, "The Old Way and the New." It showed the old mode of travel by canoe and then an auto surmounting a bad hill with comparative ease.

On top of the Department of Game and Fisheries car was a big reindeer. By the camp fire was a group of Northerners with a plenteous supply of fish.

The T. Eaton Co. had a float welcoming the Crusaders. On it was a happy group of typical North Countrymen, enjoying a hearty lunch.

The mineral wealth of the great North Country was depicted on the Department of Mines' float by a huge bag of gold.

The "South Porcupine Wildcat" was a gar of ancient vintage with speed to burn.

The Crusaders were reviewed in front of the City Hall by Lieut.-Gov. Ross, Premier Ferguson and Mayor Foster. Mrs. Ferguson was also present, and others on the platform were the Hon. Mr. Finlayson, and Controllers MacGregor, Gibbons and Wemp. The floats were heartily applauded by the large gathering of the public.

Mother (to battered son): "George, how many times have I told you to stop and count to a hundred before fighting?" George: "That's what I did, mother, but the other kid's mother told him to count only ten."—St. Mary's Journal-Argus.

Arch. Gillies, B.A.Sc., O.L.S.

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ANNUAL PLOUGHING MATCH OF TEMISKAMING PLOUGHMEN

The annual ploughing match of the Temiskaming Ploughmen's Association will be held at the Ontario Demonstration Farm, New Liskeard, on Wednesday, Sept. 28th. For many years this event has been a big feature of the fall season and has attracted many entries and crowds of interested spectators. Arrangements have been made for the necessary classes, prizes and special prizes, and for the refreshments and other details.

This year particular attention is being given to the junior classes and special effort is being made to have large lists of entries in these classes. Any particulars regarding the event will be gladly given by Mr. W. G. Nixon, secretary of the association.

ONE PART OF THE EMPIRE HELPS ANOTHER THUS

In discussing the question of United States motion picture films in Great Britain, "Canada," the illustrated journal published in London, England, says:

"Now that the monopoly of Hollywood films on British screens is endangered by the New Films Bill, The Daily Mail is apprehensive that United States producers will establish studios in Canada, and in this way maintain their monopoly in the British market. It is difficult to see how such action could be prevented—it has already been done in the case of automobile and other industries, where a Canadian branch factory has enabled United States manufacturers to enjoy the British preference. These branch factories greatly benefit Canada, and by directly increasing the prosperity of one portion of the Empire benefit the whole."

VEINS PROVED FOR 700 FEET ON PICARD CLAIMS

A despatch from Hudson this week says that since spring considerable work has been done on the Picard claims at Woman Lake, with E. A. Dovovan in charge. No. 1 vein, on which the original strike was made has been opened up by means of surface stripping and trenching, and about 700 feet of vein has been proved to date. It is located in a strong shear zone about three-quarters of a mile long on the east side of the island on a contact between sericite schist and quartz porphyry.

The vein is up to two feet wide along this 700 feet, and there is a band of close quartz stocks running into the vein quartz stocks running into the vein for a width of up to 30 feet. In addition, there are several veins which join the No. 1 vein on the west side.

A test pit has been put down for twelve feet at the point of the original discovery, and it shows the vein continuing with both structure and mineralization appearing very good, with visible gold stated to be showing at ten feet. The values from channel sampling are encouraging, although not high grade. Pannings of heavily-mineralized porphyry from the bottom of the pit give good showings of gold.

The assessment work has been done on the six claims on the east shore of Woman Lake and a vein has been found from which some good specimens of visible gold were taken. This vein is very heavily mineralized, and it is intended to do considerably more work on it before the season ends.

In spite of spring floods, frosts, cold winds, rusts, parasites, insect pests and fungus diseases, Canada will harvest a good crop this year. Verily, this is a great country.—Farmers' Advocate.

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COLLECTION OF MINERALS TO BE SHOWN AT TORONTO

New York's Rare Display of Specimens of Minerals, Jewelry, Etc. Will Be of Special Interest to Mining Students

What is considered to be one of the most complete and interesting collections of mineral specimens, jewelry, etc., is to be brought at early date to Toronto and will be open to visits from the public. This will be of special interest to students of mining, as the collection is said to include a specimen of every known mineral from tin to uncut diamonds. The collection is valued at \$500,000, and was the property of the late M. L. Morganthau, of New York. The collection is being brought to Toronto through the good offices of a brokerage firm in the Queen City. There are forty thousand specimens in the noteworthy collection. One of these is a pure gold nugget weighing five pounds and so worth over \$1,000. It was found at Plumas, California, some years ago by a couple of placer miners.

Other minerals in the display include rough and uncut diamonds, opals, turquoise, pieces of jade, platinum, silver, and the less precious minerals. Old jewelry also features the display, this department including old watches, necklaces, silverware, fifteenth century snuff-boxes, and many other curios. Two box ears will be required to transport the collection from New York. When this wonderful collection of minerals, jewelry, miniatures, etc., is put on display in Toronto, it is sure to attract the greatest interest and attention, especially from those engaged in the study of mining and kindred affairs.

ANNUAL MEETING OF THE VIPOND CONSOLIDATED

The annual general meeting of the shareholders of the Vipond Consolidated Mines, Ltd., is announced as to be held in the board room of the Trusts and Guarantee Co., 302 Bay Street, Toronto, on Wednesday, Oct. 5th, commencing at 11 a.m. The chief business before the meeting will be the receiving of the annual reports and accounts for the year ending July 31st, 1927, and for the election of officers for the ensuing year.

HAVE COWS TEETH IN THE UPPER JAWS OF MOUTH

An interesting discussion is that suggested last week by The Northern News. The News says:—

"Many people, who think that they know, declare that cows have teeth in the front part of the upper jaw, but a well known wholesale meat man is now quite satisfied that they have not. In conversation recently with Mr. A. Giachino, the latter made the remark that cows have no teeth in the front part of the upper jaw, and only some molars in the back part for chewing the cud. The traveller was quite sure that Mr. Giachino was wrong and waxed very indignant. He declared that he had been killing beef for 20 years and was prepared to bet fabulous sums that he was right. Another meat man who came along was prepared to back his confrere, and as a result a small bet was made. The party made a visit to a nearby butcher shop where a whole carcass was in stock, and the mouth of the animal was examined with meticulous care, and—much to the surprise of the experienced meat men—there were no teeth in the front of the upper jaw."

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REBEKAHS WILL HOLD EUCHRE AND DANCE, SEPT. 28

For Wednesday, Sept. 28th, in the I. O. O. F. hall at Timmins, the Rebekahs have arranged one of their enjoyable social events—a euchre and dance. Tommy Stephens and his Red Jackets will furnish the music for the occasion, and a pleasant evening is always a certainty at Rebekah events.

GOLD HILL MILL STARTS OPERATIONS ON SCHEDULE

A despatch from Boston Creek says that a second producer was added to the Boston Creek section last week when, true to schedule, the wheels of the Gold Hill Mining Company's mill commenced to turn. The commencement of milling operations at the Gold Hill marks the outcome of four years' persistent effort and hard work on the part of D. H. Angus, the manager and chief shareholder, who took over the property when practically nothing was done save the original assessment work. Despite the fact that the stopes on the Gold Hill are narrower than those of most successful mines, Mr. Angus and others associated with the enterprise are confident that a profit can be obtained.

NORTH LAND HAS MANY FRIENDS IN THE OLD LAND

Mr. H. W. Rowdon, formerly reeve of Coleman township, which is above Cobalt a little, is telling at present about how small the world is after all and how wide the friendships of the North may carry. He has just returned from a motor trip in the Old Land and he had many evidences of the wide-spread connections of the North. On one occasion he was motoring along a Glasgow street, when a passer-by noted his Cobalt pennant and called to him. He did not notice the call and continued on his way. The Glasgow man, however, used Glasgow gumption to prevent his escape. The Glasgow gentleman hopped on a bus and so chased the Cobalt car and overtook it. Signalling Mr. Rowdon he got the car stopped, and explained that he was Mr. Hart and had a son employed in the office of the Canadian Explosives at Cobalt. When he saw the Cobalt pennant he naturally wished to speak to the man from the "best old town I know" where his son resided. Mr. Hart and Mr. Rowdon had a pleasant chat and parted as almost old-time friends. Another incident in the trip of Mr. Rowdon was an occasion when he met a man he believed to be a stranger, but who evidently knew him. It turned out that this man had worked for four years or more at the Temiskaming mine at Cobalt.

HELPFUL BABY BOOK

We have just received a booklet, "Baby Welfare," which is one of the most interesting and instructive we have seen in a long time. It has chapters on pre-natal care, feeding of baby, bottle feeding, supplementing breast feeding, diet after first year, food formulas, sleep, fresh air, exercise, bathing, clothing, baby's weight and measurements, with sundry hints as to safeguarding of baby's health against common ailments. There is also a page devoted to baby's biography, which should be an interesting record of the little one's activities when it is filled in, and a weekly record for baby's weight and height, which the mother can fill in. In the introduction the publishers say that they have purposely omitted suggestions pertaining to medical treatment, knowing that such information should properly come from the family physician when such advice is needed. Mothers desiring a copy of this most helpful book can obtain one, free, by writing to The Baby Welfare Department of the Borden Company, Limited, 180 St. Paul street west, Montreal, mentioning this paper.

The Chicago News refers to billboards as "synthetic scenery."

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