

Along Canada's Mining Highway

From British Columbia word comes of favourable development results on Bralorne, with shaft sinking to lower levels announced. Acquisition of adjoining ground is said to be preliminary to an enlarged plan of development for Ymir Yankee Girl. Ontario mining interests now developing the old St. Eugene mine are reported as well satisfied with their efforts to revive this famous lead producer of early years.

Alberta appears to have a crude oil producer on the plains, with the announcement of success for the Plains Petroleum's drilling test thirty miles east of Lethbridge. Turner Valley reported further success with the bringing in of the Westside Well. Last reports on the Sunshine Well, now nearing completion, southwest of Lethbridge, are favourable.

Sherritt-Gordon in Manitoba is preparing for production by mid-summer. An offering of shares to shareholders at \$2.75 per share has been announced.

In the Patricia district of Ontario the Crossshore Mines, with properties adjoining Albany River, have obtained finances and are preparing for work. In the Long Lac Camp, Jellicoe is preparing for a major mining operation. Oro Plata controls Jellicoe and owns almost a share for share interest. Oro Plata has also extensive areas to the west of Jellicoe to come under early exploration. Hutchison Lake is nearing the second level in shaft sinking with development scheduled to proceed on two levels. Geraldton Long Lac adjoining, and Hutchineau Mines to the east, are expected to increase their activities with early spring.

In the Porcupine Camp, Preston East Dome is driving from the shaft towards the west end zone indicated as over one thousand feet in length, in diamond drilling. The east zone will be developed later. The New Augarita property adjoining has obtained favourable results diamond drilling. The Virta

property lies further east. This whole south zone is expected to receive intensive development.

In the Kirkland Lake Camp, Federal Kirkland's diamond drilling campaign is only nicely started. A drill is being set up to the north of the Sylvanite border.

The "hot spot" of new mining activity is still the Larder Lake Camp twenty miles east of Kirkland Lake. At least a dozen new mining enterprises have received substantial financing and will be actively operating in the field by early spring. Arjona is a new incorporation immediately adjoining Kerr Addison on the west. John Rogers, well-known mining engineer, is prominently identified. The Armistice Company, adjoining Arjona on the west, has a drill being set up ready for drilling. Barber Larder has a crew at work with camp under construction. Adjoining Kerr Addison on the east is Chesterville Mines. Unconfirmed reports from the north are to the effect that this company has obtained a big width of ore in the first drill hole. Pelangio adjacent to the east, with one claim being actively doing surface work. Martin Bird has purchased adjoining acreage. Brubaker is forming a company.

In Quebec, the area to the north of Noranda, is particularly active. Waite Amulet has announced re-opening. Powell Rouyn is reporting favourable underground results. Rouyn Reward has already obtained favourable results in its first diamond drill hole. Quebec Viking adjoining is preparing for work. Brownlee is doing further drilling and Quemont rumours on re-opening are heard. Pontiac Rouyn financing is now under negotiation.

In Cadillac Township, Dempsey Cadillac has ore showing free gold at the first level.

A season without parallel in Canadian mining history is the expectation among mining men.

To Review Recent Trends of Metallurgical Practice

Demand of industry for metals of the highest purity coupled with industrial research to find new uses for them has done much to bring about new methods for the extraction of metals from their ores, according to Professor J. U. McEwan of McGill University who in a paper before members of the Canadian Institute of Mining and Metallurgy, assembled in Montreal in annual conclave on March 17th, will review the recent trends in metallurgy of metals. The use of alloys demands that the metals for such alloys must be as near 100 per cent. pure as possible and the producers are meeting that demand principally by electrolytic refining. By this method valuable new metal by-products are recovered. Thus Canada has recently become an important producer of pure cadmium, selenium and tellurium, metals lost by former methods of treating zinc and other ores.

Because of the increasing scale of investment in plant and equipment required for base metal production, and because of the large tonnages of ore treated, every effort was being made to reduce costs. Operations are often only possible when more than one product is recovered, as costs are not increased except in the final stages of producing refined metal. Thus the increased return from several products permits the working of lower grade ores thereby extending the life of the mine.

Net Profit of \$6,644 at Coniaurum Mine

Plans to Pay Dividends. Will Reduce Company's Capital.

Annual report of Coniaurum Mines for 1936 shows company had net profit \$6,644 transferred to surplus account, bringing this item to \$18,447. Net profit for 1935 amounted to \$30,947.

Net return from bullion was \$1,373,388, from which was deducted \$1,111,986 for operating and administrative expenses, leaving operating profit of \$261,402. Non-operating revenue brought total to \$291,257.

Provision for taxes took \$10,232, and depreciation and deferred development amounted to \$276,004, leaving net profit of \$5,222. Profit realized on sale of securities was \$1,622, bringing total net profit for year to \$6,644, as above.

Balance sheet shows current assets of \$1,685,806, including cash at \$246,270, bullion investments outstanding at \$114,544, settlements at cost amounting to \$612,846 and accounts, dividends and interest receivable, of \$15,106. Current liabilities totalled \$74,278, leaving working capital at \$1,011,528.

Thayer Lindsley, President, reporting to shareholders, says, owing to the preparatory nature of the exploration programme during the last year, the unbroken ore reserves were again reduced. Broken ore reserves were somewhat reduced in tonnage, but did not decrease in value. At end of 1936, broken reserves stood at 171,675 tons of 5.2 dwts. per ton, against 200,067 tons of 4.4 dwts., at the end of 1935. Stopping methods are being changed from shrinkage to cut-and-fill and as a result broken reserves will gradually diminish.

Market value of marketable securities now stands at more than \$1,000,000. Since this amount is larger than necessary, shareholders are being asked to authorize directors to pay dividends out of the funds derived from company's operations, notwithstanding that the technical surplus account may be insufficient to cover any such declaration.

Now that development work at depth is so well advanced, the board of directors sees no need to keep the authorized capital of 6,000,000 shares and a by-law reducing capital to 3,000,000 shares will be submitted to shareholders for their approval.

Annual and special general meeting of shareholders will be held at Royal York Hotel, Toronto, on March 22.

Considerable Work Done on the Armont

Night Hawk Lake Area Property Showing Encouraging Results.

Officials of Armont Gold Mines, Ltd., holding over 500 acres in the Night Hawk Lake section of Thomas Township, East Porcupine District, report that a diamond drill campaign has been quietly carried out over the past two months, in order to prove the results obtained by former operators.

Considerable work has been done and money spent on the property and the results recently obtained have brought it to a particularly interesting stage. It is understood, that a public offering will be made in the very near future.

Diamond Drill Work on the Mylmaque Property

Vernon Ryan, consulting engineer visited local officials of Mylmaque Gold Mines Limited, over the week-end and reports that both diamond drill machines are back in operation after some delay due to warped piping caused by heavy overburden.

The area surrounding a large granodiorite dome on the western part of the property is being drilled with notes also being spotted to trace the extension of a previous occurrence intercepted in hole 4, at a depth of 430 feet and which returned a gold content of \$21.70 over a width of 10 feet.

A surface vein has been exposed on the eastern end having a width of ten feet and in which free gold has been ascertained. Plans call for the drilling of this immediately weather conditions permit.

To-day's Stocks

Stock	Price
Afton	6 1/2-7
Ashley	11-12
Brett	13-13 1/2
Base Metals	54
Big Missouri	61
Bankfield	1.40
Bidgood	1.32
Beattie	1.40B
Bobjo	20
Buffalo Ankerite	11.35
Canadian Malartic	1.75
Castle Tretheway	1.38-1.40
Central Patricia	4.35
Central Porcupine	.24
Coniaurum	1.74
Consolidated Chibougamau	1.62B
Darkwater	1.76
Dome	48.00
Eldorado	3.05
Falconbridge	10.35
Francœur	1.19
God's Lake	75-80
Glenora	19
Granada	33
Gouldale	56
Greene Stabell	20
Gumar	90
Hardrock	2.27
Hollinger	14.50
Howey	51 1/2 B
Hudson Bay	37 1/4
International Nickel	71.50
Jackson Manion	52A
Kirkland Lake	1.00
LeBel Oro	23
Lapa Cad	95
Lake Shore	56.00
Lee Gold	5-5 1/2
Little Long Lac	6.65-7.00
Macassa	6.75
MacLeod Cockshutt	2.50
Manitoba and Eastern	7 1/4
McIntyre	40.25
McKenzie Red Lake	1.64
McMillan Gold	9 1/2
McVittie Graham	83
McWatters	63
Mining Corporation	4.40-4.50
Moneta	1.65
Naybob	31
Night Hawk	3 1/2
Noranda	77.50
O'Brien	8.15
Omega	1.01
Pamour	3.70
Faymaster	85
Pickle Crow	7.40
Pioneer	5.45A
Porcupine Creek units 100.00	120.00
Porcupine Crown	6 1/2-7
Freston East Dome	1.05
Fremer	3.35
Read Authier	5.75
Red Lake Goldshore	92
Reno	1.15
Roche Long Lac	32
San Antonio	1.95
Shawkey	85
Sherritt Gordon	3.60
St. Anthony	22 1/2
South Tibemont	4
Sullivan	1.73
Sudbury Contact	26
Stadacona	1.70
Sylvania	3.95
Siscoe	5.35
Teck Hughes	5.65
Tuburn	3.10
Ventures	2.80
Wayside	5-5 1/2
Wright Hargreaves	7.60
White Eagle	3 1/2-3 3/4

Stock	Bid	Asked
Albany River	85	88
Breggold	13	16
Canadian Pandora	16	19
Canusa (new)	20	
Darwin	27	31
De Santis	68	
Delnite	1.05	
Delwood	18	
Empire	15	17
Jowsey Denton	20	
Gale Gold	33	
Gilles Lake-Pore	56	60
Gilbec	5	6
Hallner	3.00	
Hugh Pam	45	
Kerr Addison	3.15	
Lamaque	9.00	9.25
Magret Lake	13	
Ossian	5	6
McFatt Hall (new)	9	10
O'Leary	16	18
Porquin	18	
Precedor	27	
Porcupine Creek units 100.00	120.00	
Porcupine Lake	40	43
Porcupine Goldref	3 1/2	4 1/2
Porcupine United	12	15
Wood Pore units	25.00	
Vimy	15	
Yeung Davidson	16	19

Matachewan Consolidated Shows Deficit for Year

Deficit of \$1466 for the year ended Dec. 31, 1936, is revealed in the annual report of Matachewan Consolidated Mines. This compares with net profit of \$4279 in the previous year.

Net returns from metal sales amounted to \$419,178, compared with \$331,770 in 1935. Loss for year resulted from higher development, mining and diamond-drilling costs.

Operating costs and administrative expenses totalled \$359,383, which left operating profit at \$59,795, compared with \$78,827 in 1935. Non-operating income of \$1568 brought total to \$61,363.

Provision for taxes at \$270, and depreciation and deferred development of \$60,058 resulted in loss of \$1466, as above, reducing surplus account to \$2813.

Current assets at end of 1936 totalled \$23,103, including cash at \$232, bullion and settlements outstanding at \$20,249, and sundry accounts receivable at \$2622.

Current liabilities were \$90,224, including bank overdraft of \$6525, accounts and wages payable amounting to \$80,698, and reserve for taxes of \$3000.

Practically all production during 1936 came from above the first level, says T. L. Wells, mine manager, while during 1936 efforts were intensified toward expanding the ore position below the first level to the extent that decision regarding a mill increase could be reached.

Development work during the year consisted of 352 feet of shaft sinking, 1926 feet of drifting, 622 feet of cross-cutting, 164 feet of raising, and 253 feet of box holing.

As at December 31, 1936, ore reserves totalled 290,940, averaging .18 oz. per ton in gold. An additional quantity, made up of three partially-outlined blocks above the first level, and one between the second and third levels, is classed as probable ore, totalling 111,193 tons with average content of .157 oz. gold per ton.

At the year-end, preparation of stopes on the second level, was proceeding rapidly and stoping had started on a small section of ore shoot designated as No. 2 E-1, which has length of approximately 450 feet and width of 40 feet. Grade has run 30 per cent. higher than estimated from drilling results.

Until such time as stopes on second level are sufficiently advanced, bulk of tonnage will have to be made up from broken ore reserves.

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Canadian-Produced Radium Known for Its High Quality

Radium produced in Canada is exceptionally free from mesothorium and other impurities, Dr. G. C. Lawrence will tell members of the Canadian Institute of Mining and Metallurgy, who are holding their 38th annual convention at the Mount Royal hotel in Montreal on March 15th - 17th. Dr. Lawrence will outline the method for preparing radium needles for use in cancer treatment and will point out that other commercial uses of radium are being investigated; among these are the inspection for flaws in steel casting and welds that are too thick for the use of ordinary X-rays.

Recently scientists have been experimenting with a newly-discovered type of rays, called neutrons, which are reported to have certain advantages over X-rays in the treatment of cancer. However, it does not seem likely that these neutrons will replace radium as

Is Legal Firm Responsible for Acts of "Directors"?

A legal firm is responsible for acts of its stenographers and clerks acting as "dummy" directors in the incorporation of a new company, Lewis Duhan, F.C., contended at Toronto this week before Chief Justice H. E. Rose in the action of Manitoulin Quarzsite, Ltd., against M. R. Gooderham of the former legal firm of Galt, Gooderham and Towers.

Mr. Duhan argued that Mr. Gooderham, as a member of the defunct legal firm, was responsible for the "negligent" acts in 1927 of the late R. L. Towers, a member of the firm when he died in 1930. Mr. Towers was described as promoter and solicitor of the Quarzsite Company in the present action by its trustee in bankruptcy.

Interesting Review of Names of Mines

Wives, Mothers, and Sweethearts Honoured in the Names of Mines.

(From Northern Miner)

Do you know that Van Winkle is very much awake? That there is no hope of revival for coal, and that nothing has been heard of Ben Bolt for some years? Or that Catharine has changed her name, while the Champion has gone bankrupt? If you would be abreast of the mining times, and keep familiar with these and thousands of other facts about the industry in Canada, then you should have a copy of the 1937 edition of the Canadian Mines Handbook.

Cadillac and Porcupine

Locking through the Handbook each year, one notices many striking changes. In 1934, for instance, the most active and fashionable new areas were Little Long Lac and Sturgeon River, in the latter of which the 1935 Handbook listed 66 active companies. This year there are less than a dozen, while promotional activities in Long Lac have been pretty well halted by the concentration of property into fewer and stronger hands. Cadillac seems to hold the spotlight now, following the success of O'Brien and other properties in that township. Twenty-three companies carry the Cadillac crest, ranging from Acme to Ypres, with at least ten more actively working in the township.

This popularity is shared by Porcupine. Where for some years the big producers had little competition, there are now found no fewer than 33 Porcupines in the active section, and we don't know how many other concerns not active carrying the name. They range from Aerial and Aquarius to Wilney and Wilson.

Cebal, alas! seems to appear less often, as do also Swayze, Great Bear Lake and Tibemont, perhaps the most popular of names a few years ago. These camps could now be covered fully in a few pages.

Gold continues to dominate the book, with silver far in the rear. There are a couple of dozen copper and nickel companies, and one or two each of clay, silica, sulphur, asbestos, slate, ocell, chromium and radium. All provinces but three are represented.

Abco to Zulu

The subject of names always intrigues us. First position in the book is still held by Abco, which makes us wonder why someone hasn't called his property Aaron. Last of the active list is Zulu (which we can't at the moment think of anyone bearing). The longest name is Consolidated Mining and Smelting Company of Canada Limited, appropriate in view of its leading position, while Auric, Limited, is the most economical in the matter of type.

There is the usual inviting list of wives, mothers, sweethearts and sisters, including Adeline, Alice, Alma, Beronara, Catharine, Diana, Elizabeth, Elspeth, Eva, Florence, Gertrude, Hazel, Heena, Jean, Mary, Olive, Patricia, Saisy, Veina and Violet. And for the ladies, there are Adrien, Albert, Allan, Clarence, Cyril, George, Herbert, Jake, Carl, Lawrence, Martin, Raymond, Roscoe, Roy, Rufus and Thomas. Irishmen will be thrilled to find Casey, Hennessy, Kelly, Killarney, O'Brien, O'Connell, O'Leary, Shamrock and Sullivan, while the Scottish readers will find Burns, Bruce, Aberdeen, Argyle, Scott, Wallace, and a host of Mc's and Mac's. Great Americans are commemorated by Franklin, Harrison, Jefferson, Lee, Lincoln, Pershing, Vanderbilt and Washington.

Many mining men seem to be su-

Wages and Conditions Good at Ontario Mines

(From The Ottawa Journal)

The Northern Miner, a Toronto publication, points with natural pride to the wages that are paid in the Ontario mining industry.

It cites, as typical cases the wage figures from the Howey and Hollinger mines. The average over-all wage, with salaries excluded, in the Howey mine last year was \$5.08 a day, the average for underground work being \$5.22.

At Hollinger the foremen receive \$8.40 per day, the shift bosses up to \$7.90. Diamond drillers' pay ranges from \$5.20 to \$7.36 per shift; machine runners, \$4.64 to \$5.20; samplers get \$4.64 to \$5.20 per shift. The lowest pay around the mine is \$4 per day for mine clerks and their pay runs as high as \$5.36. Mechanics generally are on the rate of \$5.20 per day. Mill bosses range from \$5.20 to \$7.88 per day and the general average in the mill is around \$4.80 per shift.

Mining is, of course, hard work, labor that demands fine physical condition, but it has its compensations. The wages are good. The mining companies are considerate of their men. Some of them now are giving holidays with pay, providing health insurance, recreation centres.

Good wages and steady employment for many thousands of miners explain the comparative prosperity of Northern Ontario. Timmins, Kirkland Lake and many smaller communities know their good fortune.

Williamson Mines Being Geologized at Present

Advice from the property of Williamson Mines, Ltd., is to the effect that some of the major rock exposures are now being geologized preparatory to more intensive exploration work. Under the proposed campaign what is described as a mountain will be thoroughly probed, and in this connection it is stated that several sections will be opened up within the next week or ten days.



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