### NEWRAY SAMPLES OF TYPICAL FORMATION

Ore of Similar Character to That of Big Porcupine

NO ASSAYS YET

Crosscutting at Fourth Level to Pick Up Helena Vein.

Samples of ore from the No. 2, or Anchor vein on the Newray have been all the characteristics of the typical quarts and schist of the Hollinger McIntyre area. The ore is free milling and impregnated with fine iron sulphides, being in this respect exactly similar in character to the high-grade milling ore of the big mines on the main shear zone of the camp.

Assay returns have not yet been re ceived, but the indications are that the ore will prove of a high milling HARGRAVES' FUTURE grade which will enable the management to operate the mill very satisfactorily when production is commenced early next month.

In addition to drifting on the vein, the 400 foot level in order to pick up the No. 3, or Helena vein, as early as possible. Another drill has been secured and more rapid progress will made just as soon as room can be

be made just as soon as room can be found underground to put additional men and machines to work.

The Helena vein, which is the next objective, parallels the Anchor and was shown by preliminary working to have even better indications. It was 15 feet wide on the surface and assays ran as high as \$60.00 in gold to the ton. Considerable free gold was shown in the ore and muck samples from the dest pit 20 feet deep, ran as high as \$7.00 to the ton.

Diamond drilling at the property is testing the extension on the Newray of the main shear zone of the camp which has produced over \$7.00 to the ton. Diamond drilling at the property is testing the extension on the Newray of the main shear zone of the camp which has produced over \$7.00 to the ton. Diamond drilling at the property of the main shear zone of the camp which has produced over \$7.00 to the considerable indications.

Diamond drilling at the property is testing the extension on the Newray of the main shear zone of the camp which has produced over \$7.00 to the considerable indications.

Drill holes to the sound of the camp which has produced over \$7.00 to the considerable that as a result of this work, the ortginal No.

The Helena vein, which is the next objective, parallels the Anchor will be reported to the sound to the extension of the the sound to the constant of the property. Work of this nature last autumn proved the existence of an extension of activity in the South Lorain area, and a great deal of interest promises to be attracted to the constant of the property. Work of this nature last of the same level or the

fore, that there is a very large gold-bearing zone which is just now being tapped, and the developments of the next few weeks will go far to demon-

the company will go on a definite producing basis by the end of the month. is at least several months' supply of ore available on the dumps and as work proceeds on the 400 foot level, the indications are that a very extensive tonnage will be put into sight under ground.

The company will, it is expected, earn more than sufficient to pay all expenses of mining and milling right from the start, and if underground developments meet anticipations, it will not be long before the management plans for a mill of larger tonnage which will be in keeping with

#### TO ENLARGE TANKAGE AT VACUUM GAS FIELDS

Heavy Flow Necessitates Greater Storage Capacity.

Owing to the increased productivity of the oil wells in the Thamesville under the control of the Vacuum Gas Company, the management has found it necessary to increase the tankage for storage purposes at the property. With this end in view the directors of the company left last night for the oil field to plan for the enlargements. At the present time the tankage amounts to of the management to increase this

#### WESTERN COAL MINERS OUT.

Calgary, April 18 .- The coal miners of nearly every mine of the district are out on strike because of the de-lay in the settlement of the men's

augmented this morning by the men vidson Company will pass into new at Capmore and several other places hands. Those seeking control this Canmore and several other places. the Crow's Nest Pass country going out. The miners now out are culty in the latter company is of a

#### PRICE OF SILVER

London, April 18.—Bar silver. 36% d. New York, April 18.—Bar silver, 74c.



Mountain of mill tailings at Buffalo mines. Between 300,000 and 400,000 tons to be re-treated by

Typical of Cobalt.

ein on the lower level of the Lor-

ings and conveniences, Alongside of this is the cooking camp, dining-room,

ice house, etc., while nearer the shaft

and power house a large two-storey frame building has been erected, the

ground floor of which is used as a

storehouse and machine shop. Upstairs

is the office and living quarters of R.

H. D. Symmes, M.E., the consulting

the mine, and work is going on with the greatest energy, continually.
The mining equipment is the very

semi-diessel oil-driven compressors

equal to anything in the north coun-

try. In fact, the entire plant is up-to-

badges of inefficiency is second-hand

machinery, but one looks in vain for

Mines. The property is getting a fair chance to make good so far as equipment, management and develop-

any sign of this around the Boston

ment can make a mine, and the results

so far are eminently satisfactory. The T. & N. O. Ry, passes over the

ion will be made in a few days.

district, and quite a number

with every prospect of making good.

THOMPSON-KRIST HOLDING ITS

OWN

In an up and down market, Thompson-Krist fluctuates from 15c

to 17c, while the news from the property continues to be encouraging

Three thousand feet of diamond drill-

FENIAN RAID VETERAN DEAD.

Cobourg, April 18 .- James Waters veteran of the Fenian Raid, passed

special to The Toronto World.

property, so does the power line from Cobalt to Kirkland Lake, and connec-

The marked success of this mine has

date in every respect. One of

In the powerhouse there are two

E. Margenau, M.E., the

## LOOKS PROMISING Geological Character of Vein

the Newray is pushing a crosscut on High Grade Ore in Bags Awaiting Shipment to Mill rain Consolidated in the South Lor rain district of the Cobalt camp gives for Treatment.

every indication of developing silver values in the very near future. The vein carries the typical smaltite of Cobalt, and it has been the experience all over the camp that veins of this character become producing ore bodies as work proceeds. The drift is being pushed rapidly, and the indications are that favorable news will come to hand any day now. From World Special Commissioner.

As regards the Anchor vein on the 400-foot level, where work is now proceeding, it is learned that ore is showing over the entire width of the drift and that the indications are that values will be keeping with those indicated by diamond drilling, when the cores ran over \$20.00 in gold to the ton. The vein has a strike of northeast and southwest and carries very high values in spots, but until more drifting has been done, no announcement will be made as to the average values.

In this section of the Newray property, that is to the east of the shaft, there are three distinct paralled veins, the Anchor, Helena and Hanson, the latter of which has the greatest proven length of any vein in the camp. The indications are, therefore, that there is a very large gold.

In this section of the Newray property, that is to the east of the shaft, there are three distinct paralled veins, the Anchor, Helena and Hanson, the latter of which has the greatest proven length of any vein in the camp. The indications are, therefore, that there is a very large gold. primitive methods in vogue in Mexico side of the property, nearly half a three centuries ago. It is a straw mile from the shaft and plant. Now showing the way the wind blows. In the new buildings are all occupied. next few weeks will go far to demonstrate the true value of this.

Rapid progress is being made in preparing the 10-stamp mill for respects.

There are now at the Hargrayes 175

respects.

There are now at the Hargraves 175 and other equipment have been pro-cided and from present indications ment and as soon as the old dumps thaw out they will be sent by aerial tram to the plant of the Dominion Reduction Company, about half a mile distant. Efficient and up-to-date mining will soon make a great success of the Hargraves. Its ultimate record should be fully equal to that of the Kerr Lake Mine adjoining it on the west. The latter has been a steady producer and a long-lived mine. The Hargraves is now following in its footsteps.

S. R. Clarke.

### **DEAL PENDING FOR DAVIDSON CONTROL**

Company May Pass Into Hands of Big Canadian Concern-

Another company is in the market seeking a controlling interest in the Davidson Gold Mines. Some time ago an examination was made of the Porcupine property by two engineers of wide experience, in the interests of a group of western operators. On the strength of the report they submitted negotiations were immediately opened for the purchase of control. It is understood that the proposed purchase price was in the neighborhood of one dollar per share, but that the deal fell thru on account of some differences in respect to the representation of the minority interest on the new board.

ing has been done, and results have At the present time, according to good authority, negotiations are prouncovered indications of the existceeding for another deal by which I ence of the same formation and The ranks of the idle miners were is possible that the control of the Dason. The work is being expedited, and with the advent of better weather Those seeking control this time are a large Canadian company. there will no doubt be good reports Negotiations have been quietly going on for some time. It is evidently too crest Bellevue and Frank. Those at early yet to make any announcements Drumheller also are out, but the diffiformation to hand warrants the belief

that there is a good chance of the purchase being carried thru. While these interesting events have been transpiring the Davidson Company has been steadily developing the property in a businesslike and conservative manner, and it would not be surprising if in the near future some about the end of the present mount interesting developments were made public. Diamond drilling is proceed-ore body at the 500-foot level, which has already been opened up at the 300-and lock tenders have been put on

#### WATCHFUL WAITING PROMISING VEIN AT LORRAIN CON. IN MINE STOCKS

Word has been received that the Buyers Diffident About Making Commitments While Uncertainty Exists.

> Watchful waiting was the preket yetserday, word of the vote of the miners in the northern camps being awaited hourly. No news was re-ceived, however, to relieve the air of suspense, and the market closed looking to the morrow for further

> developments.
>
> During the day further scattered quidation came in, which depressed few stocks to a still further extent, a few stocks to a still further extent, but towards the close the bills waxed confident and considerable buying of certain issues were unearthed. This was particularly true of West Dome, which, when it touched a new low at 22, seemed to be in great demand and closed at 22 1-2 bid for large blocks. Hollinger and Hargraves were also wanted, but no one seemed disposed to sell.

and they will be forced to scramble for stock on a soaring market. On the other hand, it is generally be-lieved in brokerage circles that even market to see which way the cat

In view of this attitude sellers were forced to make concessions to get rid on what are undoubtedly continuations of their holdings, which accounts for the weakness in the market.

Big Dome rather tardily followed the unarket in New York, touching a new low locally at \$14. Hollinger on while the comparative absence of slips, the other hard displayed considerable founds and surface disturbances simthe other hard displayed considerable strength, advancing again to \$5.20. Buying orders towards the closes found the market bare of stock at

McIntyre met further liquidation sinking at 172 after opening steadily at 176. A partial recovery to 174 was made later, however. Newray held at 145, Boston Creek went up to 93. Porcupine 'Crown sank to 54, tut' closed later at 58, a point above the opening price. Vipond held at 42 1-2 and Schumacher at 51. Quite a lot of West Dome came on the market. which depressed the price to 22, only two points above last year's low record, but it closed stronger at 22 1-bid. Krist eased back again to 15. The silver stocks shared in the weakness, Timiskaming dropping weakness, Timiskaming dropping weakness,

and closed strong with 16 bid for large blocks of stock. None was forthcoming at the figure, however. Coniagas recovered its loss of the

#### TWENTY-EIGHT SHIPS ARE LOST IN A WEEK

Nineteen British Vessels of More Than Sixteen Hundred Tons

London, April 18 .- The weekly report of British shipping loss, issued today, shows 19 vessels of more than 1600 tons sunk, and 9 vessels of less than 1600 tons. Twelve fishing vesstimulated prospecting thruout the strong companies are now operating sels also were sunk. The statement follows:

Shipping returns for the week ending April 15: "Arrivals and sailings merchant vessels of all nationalities at United Kingdom ports over 100 tons: Arrivals, 2379; sailings, 2331. "British merchantmen sunk by mine submarines: Over 1600 tons, 19, including four not recorded in previous weeks; under 1600 tons, 9. "British merchant vessels unsuccess fully attacked by submarines, includ-ing 3 in the previous fortnight, 15. "British fishing vessels sunk, includ-

ing 2 in the previous week, 12." During the past seven weeks, the period in which statements of the cosses of British vessels have been ade in their present form, the figures show that 168 such vessels have been ost, the total for vessels of more than

1600 tons being 116, and for vessels of less than that tonnage, 52. This week's losses of 28 merchant ships are slightaway at Campbellford. He was ly in excess of the average, which is formerly in the drygoods business at 24 for the seven weeks' period.

> WELLAND CANAL OPEN. ial to The Toronto World.

## RATIO OF PROFIT HIGH IN PORCUPINE

Hollinger's Output Smaller Than Rand Mines-Values Higher-

#### HAS GREAT FUTURE

Timmins, April 18.— The Hollinger Consolidated has an issued capital of \$24,600,000 in 4,920,000 in dividends last year. The next largest dividend from gold mining was \$2,733,750, paid by the City Deep of the Rand. Out of 51 mines operating there 22 show declines in 1916. This is particularly noticeable in regard to the big producers, the Crown Mines, the East Rand proprietary and the Randfontein Central. It is now apparent that production in this part of the British Empire can be kept up to former levels only by much greater developments in the far east Rand.

In the Rand the profit per ton is \$2.40. At the Homestake, the greatest gold mine in the United States, it is \$1.40. Last year it was \$4.31 at the Hollinger Con., while values were \$8.34 per ton, and all costs \$4.03. But then only 601,854 tons were sent to the mill, and the enlarged plant will probably treat 1,300,000 tons annually. It is always found that large crushings mean lower tenors. When working on a large scale lower grade ore becomes payable, there is no time for cobbing, and there are frequently inclusions of the country rock. In view of these conditions P. A. Robbins, the managing director of the Hollinger Con. estimates that the ore will average \$7.75 when the increased tonnages are treated. If costs are not reduced the profits will then come down to \$3.72 per ton. In normal times it is certain that costs

will then come down to \$3.72 per ton. In normal times it is certain that costs can be considerably reduced. In 1916 supplies were abnormally high, skilled labor was very scarce, and in addition a huge program of construction was under way. It was, therefore, difficult to co-ordinate and systematize all the operations in connection with the mine. But under the most favor-able conditions it is not likely that pro-fits can be kept above \$4 per ton. This, however, means total profits of \$5,200,-000 on 1,300,000 tons of ore.

probable that the properties of the Mc Intyre group will, in a few years, be worthy rivals of the Hollinger Con. They are mining at a depth of 1000 feet faults and surface disturbances sim phifies the mining problem.

Valuable Property. The Plenaurum, recently acquired by the McIntyre Con., appears to be a very worthy member of the Pearl Lake group, and in this connection it will be noticed that all the acquisitions of the McIntyre have been on the great shear zone, which extends from the Hollinger Con. to the Newray. The latter property is also showing up remarkably well, and it will obtain added im-portance from the deep mining about to begin on its immediate neighbor, the Plenaurum. The Newray, however, is points above last year's low re- proving up great ore bodies on its own but it closed stronger at 22 1-2 ground, and of all the mines on this rich belt it has the smallest capitalization in reference to acreage, and it is 47 1-2, a new low record for a couple of years. Beaver followed suit, going back to 38 1-2. Hargraves was active

By skilful and persistent effort the

McIntyre people have secured a very important section of the great shear zone. It cuts across the southeast cor-ner of the former Pearl Lake Mine preceding day, changing hands at Therefore, in due time, that became the \$3.75. Peterson Lake went back to McIntyre Extension. Then the McIn-9 3-4. Trethwey to 161-2. Kenabeck tyre Jupiter added a half a mile to the Consolidated went up a fraction to holdings of the parent company on the 28, while the old stock failed to rally ore zone, and finally the Plenaurum after the drop to 10 made on the pre- gave a total sweep of 7000 feet from the west boundary of the McIntyre to the east boundary of the Plenaurum. Whoever conceived and carried out these very profitable operations must have an excellect nose for ore. The Hollinger owns three-fourths of a mile, and the Newray a mile on the

great shear zone. The gold miner is not an altruist. His object is to make money and high-grade large tonnage mines are by far the most valuable. They can be made productive in much less time, and with much less money than those of low grade. This accounts for the great ac-tivity now prevailing on the high-grade belt from Hollinger to Newray. So far this belt has made a world's record. What will it be when all the nines now working thereon are fully and completely developed?

S. R. Clarke.

WHITBY TAX RATE.

Special to The Toronto World.
Whitby, April 18.—Whitby Town
Council after a herculean effort to
pare down the expenditure to the owest possible figure has struck the rate at 35.6 mills. The provincial war tax and the county patriotic war fund levy require two and one-half mills, making the rate exclusive of these 33.1.

## The Rortbern Mine: NORTHER! ONTARIO'S

If you want reliable news of all the mining camps of Northern Ontario, subscribe for The Northern Miner, Cobalt, Ont. Canada, \$1.50; U. S., \$2 per

Sample on request,

# MARK HARRI

MINES and MINING

## The Wealth of Ore Bodies

Increased Mill Capacity Will
Pearl Lake mineral zone in Porcupine suggest many thoughts as the significance of deep and lateral development and the richness of ore bodies there.

There have been approximately a hundred veins and veint opened up in the stretch of territory lying between Porcupine Croon the southwest and Newray on the northeast, following the gene lines of fissuring, which usually trend northeast to southwest.

Parenthetically, it may be noted that the great metal and of deposits of the world run northeast-southwest. That is axiomate Somebody very concisely and forcefully put it: "That is the way the world is made."

So in Porcupine we have two great ledges—the Holling McIntyre-Newray ledge and the Dome ledge—both of which pur the general northeast-southwest direction. We do not mean to that there are no ledges running in other directions, but the gene direction of treasure deposits, whether in minerals or oils, is point northeast and southwest, with almost as much accuracy as the need to be not to be a southwest. points to the pole.

In the two or three-mile Pearl Lake section of Porcupine, w has produced 75 per cent. of Porcupine output, the first and third ducers of the camp, five out of its seven producers and three on its four dividend-payers, there have been, as already stated, approached 100 veins and veinlets encountered in putting shafts 1000 feet at the McIntyre and McIntyre Extension and in boring the diamond drill to around 2000 feet, as the Porcupine Crown the Newray at each end of this proven mineralized zone are now at

Some of the ore bodies opened up in this great shear zone bonanza treasure deposits. For instance, McIntyre opened up the 700-foot level an ore shoot 62 feet wide, which averages \$1 per ton, that the management estimates has added \$6,000,000 to value of the mine.

In other words, if every one of the 4,000,000 shares McIntyre Consolidated Company was outstanding, a value \$1.50 would be placed behind each share to back it up from wealth of this one ore shoot, which was located at a depth of 7

at 22, seemed to be in great demand and closed at 22 1-2 bid for large blocks. Hollinger and Hargraves were also wanted, but no one seemed disposed to sell.

While the labor situation is rapidly coming to a head, cautious traders have withdrawn buying orders in the hope that even better bargains will be offered, but it may be found that when they see their way clear to purchase the market will have turned and they will be forced to scramble for stock on a soaring market. On

Recently a Hollinger vein, No. 58, showed up 14 feet in w and carrying \$50 a ton in gold. This condition has prevailed filength of 100 feet of drifting, with no signs of diminishing value width. The face of the drift is 400 feet from the McIntyre line, g tle save a great past.

In profit per ton, in assured earnings, in ore reserves, actual and prospective, the Hollinger Con. is first among the picking up this vein, No. 58, of Hollinger.

width. The face of the drift is 400 feet from the McIntyre line, g northeast, and the McIntyre is diamond drilling for the purpose the Hollinger Con. is first among the picking up this vein, No. 58, of Hollinger.

Here we have had the absurdity exhibited to us of Hol declining in market value because of extraneous things, like I shortage and the high cost of materials, while the manager uncovering unexpected vast treasures in one vein alone out of several score of veins.

The great value of Newray shares, which are now having a active market, lies in the probability of two or more rich veins crosscut at an early day, at a depth of 400 feet, in addition to Nos. 1 and 2 veins, which have been located at depth—the N vein, which produced over \$210,000 above the 200 foot level, the No. 2 vein, which has just been cut at the 400-foot level, which is now being drifted upon.

Within the next 500 feet the management expects to cut t Nos. 3 and 4 veins, which have already been located and defined diamond drilling. These veins parallel each other, with the pr that two or more of them will converge and consolidate at depth.

If only one of these veins proves at 400 feet in depth to mate the values opened up in ore shoots in McIntyre, Acme, Hollinger of Porcupine Crown, Newray stock on its limited share capitalization wi be entitled to sell 100 per cent. higher than its present market value.

Newray has an estate of 321 acres and probably not over 10 per cent. of its mineralized possibilities have been touched by drill. crosscut or shaft. When we remember that the Comanche Mine a property of only six acres in Butte, paid into the Boston & Montana Company, up to the time it went into the Amalgamated merger, over \$38,000,000 in dividends, and had at that time \$20,000,000 in left in the ground, we get an idea of what mining values can lie in a circumscribed territory.

The Irish Mag ore body of Calumet & Arizona, the Edith May ore body of North Butte, the Calumet & Hecla conglomerate, the Comstock lode—all these are instances of the enormous richness of

The Butte & Superior and Senator Clark interests in Butte are fighting over a few hundred feet of the Rainbow lode, which touches the Black Rock and Elm Orlu mines, the ore body in this small space being estimated to be worth from \$15,000,000 to \$20,000,000.

In Butte the apex law has been a holy terror. Porcupine has apex law. If McIntyre, with its diamond drills, picks up the Hollinger No. 58 vein, or any other vein from the Hollinger or Acme properties, that vein belongs to McIntyre. If Newray, in its own territory, picks up the rich McIntyre veins referred to, they belong

It would be almost impossible for the human mind, in our opinion, to construct hypothetically a situation more nearly ideal than that of Newray.

Any day may bring in an ore body worth millions of dollars worth many times the company's capitalization and selling price.

Mark Harris & Co.

NEW YORK

Standard Bank Building, Toronto. NOTE-An article on mines and coming by Mr. Harris will appear evel

MARK HARRIS & CO.

BOSTON

**BROKERS** Standard Bank Building, Toronto Send for copy of "Canadian Mining N n Differ

HALIAI

leavy The state of 300 Rome. Aptallan war collowing off "Between the artillery nore intensement buts combarded and harasset and trains road and ra "On north Travignolo, tack was imprope. Two vanced position Col Brico same fate.

of Col Brice
same fate.
"On the
day the en
particularly
region it w
by our arti
Gorzia.
"One of barded Ch
memy revi
Spirito Ban
a violent fi

ESSE Essex. A
Wagner, el
now of B
rears a re
killed in a
was in his
from Esset
in a unive
at Montre
service in
After the i
moted to
vived by i
brother.

GREE London, the Gr

lhe No PER CE

his day hat the ranches lolders