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### Report on Discovery Gold at Spirit Lake

Findings of H. C. Horwood After Examination of the Latest Gold Field in the Province

Hon. P. Leduc, Minister of Mines for Ontario, has had a geological examination made of Spirit Lake, the latest of the Province's goldfields, and the same is reproduced below.

#### Report on Recent Discovery of Gold at Spirit Lake

by H. C. Horwood  
Dr. H. C. Horwood, assistant geologist with the Ontario Department of Mines, with his assistant, recently paid a visit to Spirit Lake to examine and report on the recent discovery of gold in that area. With the assistance of officials of the Spirit Lake Mines he has compiled the accompanying sketch map of the area. He reports as follows:

**Location, Access, History**  
Spirit Lake is approximately 75 miles N.10° W. from Cassinuit Post Office at the Argosy Mine, northwestern Ontario. It is about 20 miles long, 3.5 miles wide, and with the exception of Big Lake which lies about 20 miles to the south, one of the largest lakes in the region. It can be reached conveniently by aircraft from Sioux Lookout on the Canadian National Railway.

Mr. A. F. Hewitt, the discoverer of the Argosy Mine and one of the oldest prospectors in the region, was guided to

a showing of arsenopyrite in 1928 by an Indian. He was unable to obtain financial backing at that time and did not return until April, 1936, after the Derby Gold Syndicate had been formed to develop the property. In April he guided representatives of the syndicate—now known as the Spirit Lake Gold Mines—to the showings and has been in charge of the development work. News of high gold assays resulted in the staking of several more groups of claims in July.

At the time of my visit, July 24 to 27, the Spirit Lake Gold Mines were stripping and trenching. Other groups of prospectors were staking claims and prospecting.

#### General Geology

The region is underlain by pre-Cambrian rocks. Of these the oldest, a volcanic formation, and an overlying sedimentary formation, are intruded by grey and pink granites and by later quartz porphyries and diorites. The diorites are believed to be the youngest rocks in the region. The volcanic rocks are lava flows that in general are dark green and of andesitic composition. Some rhyolites have also been reported.

The sedimentary rocks vary from conglomerate to greywackes, slates, and slaty iron formations. Most of the conglomerates are made up of cherty pebbles in an arkosic matrix, but in one place a variety made up almost entirely of boulders and detritus derived from the andesite was noticed. In the cherty type the boulders or pebbles are seldom more than six inches in diameter, and are usually white, grey or black cherts. This rock, with interbedded greywacke, is the locus of the mineralization on the peninsula east across the bay from the diorite mass. The greywackes are arkosic in places and may more properly be termed arkoses. They vary considerably in both colour and grain size. The slates are fine-grained and dull grey and have the slaty cleavage well developed. They occur interbedded with the greywackes and conglomerates. The slaty iron formations are very magnetic and should furnish excellent horizons for structural

work. The later granites, which are generally foliated, border the older formations on all sides except in the south central part of the region. The grey type is probably granodiorite, the pink, true granite. One mass of quartz porphyry was found intruding sedimentary rocks on the north side of the peninsula noted above. It is buff in colour, and except for small phenocrysts of quartz, quite fine-grained. As it is sheared it is believed to be older than the diorites. Diorite outcrops in two areas. On the south side of the lake it forms a small stock, on the north side towards the east end it is mixed with intruded volcanic rocks. The latter occurrence is poorly defined as about 75 per cent. of the outcrops are diorite, the remaining 25 per cent. incursions of andesite. The south mass has a set of poorly-developed fractures that strike N.20° E. and in places contain short irregular lenses of arsenopyrite and quartz.

#### Mineral Deposits

Mineralized showings so far located occur either in the diorite or in the sediments. In the diorite massive arsenopyrite and quartz are found in short irregular fractures or shear zones that are seldom over two feet wide. Although one of these showings is 7.5 feet wide—including considerable wall rock—and gave very high assays in gold, it continued for only 20 feet from the shore line. Its continuation out from the shore for any distance is very doubtful as all other zones of similar nature are very short. In the sediments there has been rather extensive mineralization in places where the rocks are sheared. Massive arsenopyrite, quartz, and variable amounts of pyrite, were the principle minerals to be introduced. This type of deposit is believed to be well developed in sheared sediments east across the bay from the diorite mass. In places the mineralization has been extensive enough to almost obliterate the original characteristics of the rock. As no systematic stripping or trenching has been done to outline mineralized beds or zones along the strike their lengths are not known. The fact that the mineralization appears to follow the beds should indicate considerable length. A few assays taken across the rust-stained surface of some of the beds have given small amounts of gold. Panning, after twice roasting and crushing the ore, has yielded gold "colours." As there is some arsenopyrite disseminated in the sediments the surface outcrops are almost invariably rust-stained and it is impossible to determine any zone or locus of mineralization for sampling by examining outcrops or strippings. The fact that the mineralization probably has good continuity along sheared beds in conglomerates and greywackes, and that the arsenopyrite has been shown to be auriferous, indicates that such deposits warrant considerable prospecting effort, including detailed geological work, to trace formations and beds, and to determine structure.

**Location "J".** One trench at the shore line has opened up an eight foot zone of altered greywacke, quartz, and arsenopyrite. Strippings in a general west direction usually show some mineralization but this is not along any definite zone. The conglomerates and greywackes are sheared and are believed to be the locus of the mineralization.

**Location "T".** Strippings expose sheared and mineralized conglomerate in all but the last stripping east. The attitude of the bedding was not readily determinable on account of the massive nature of the conglomerates, and on account of the shearing and mineralization.

**Location "W".** At the shore a 7.5 foot zone of altered diorite, quartz, and massive arsenopyrite outcrops for 20 feet. It pinches out on the north and goes under the lake to the south. Other stringers at this locality are similarly mineralized but they are narrow, short and poorly developed, and are probably indicative of the nature of the 7.5 foot zone under the lake.

**Location "A".** On the south side of the creek in the diorite there are several small veins with massive arsenopyrite. The veins strike No. 20° E. and are up to 8 inches wide. A white quartz vein 2 feet wide that parallels the sulphide stringers carries very little mineral. On the south side of the creek a small 6-inch zone of quartz and arsenopyrite has been found in the sediments.

Assays of samples taken by the Spirit Lake Syndicate at locations "A" and "J" indicated appreciable values in gold, while a sample taken over a width of 89 inches at location "W" showed high values. Owing however to the weathering of the surface rock, further systematic trenching and assaying will be necessary before the importance of the discovery can be ascertained.

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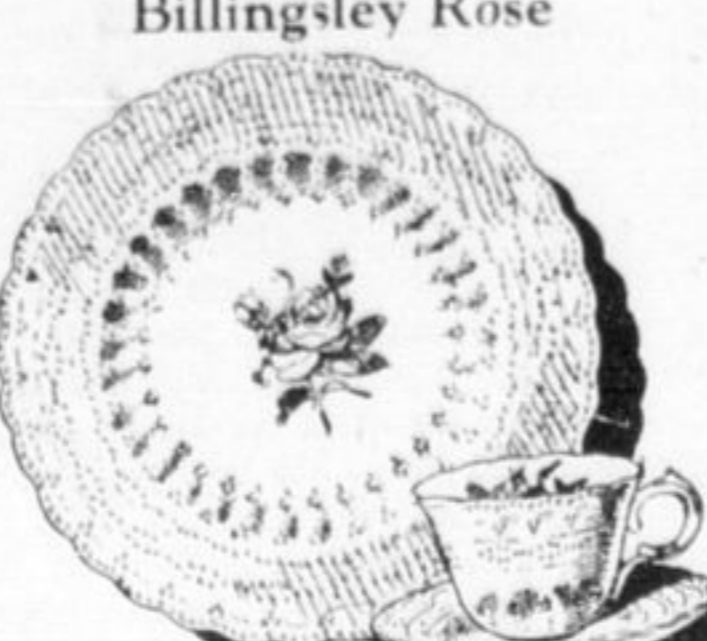
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### Spode's Jewel

with Billingsley Rose



The decoration of this exquisite pattern consists of the famous Billingsley Rose, a rose spray, hand painted on each piece in delicate natural colours with an Arabesque design embossed around the rim.

Spode is made in Staffordshire, England, where its fine tradition and craftsmanship have been preserved for more than 150 years. Spode is known and appreciated the world over by lovers of the "finer things." A Spode pattern is never discontinued. It can always be added to or filled in. We suggest it as a distinguished appointment for your own home or as a gift of exceedingly fine taste for someone else.

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### Amos-Cadillac Co.

to Develop Claims

Promising Property Adjoining Western Boundary of Thompson-Cadillac.

Announcement is made of the formation of Amos-Cadillac Gold Mines Limited, to develop a group of 200 acres, immediately adjoining the western boundary of Thompson-Cadillac, about a mile to the west of the O'Brien Gold mine. The new company is capitalized at 3,000,000 shares, of which 1,000,000 have been issued for the property. Company officials advise that surface exploration is to commence immediately in preparation for diamond drilling. Officers of the new company are:—E. A. R. Newton, Toronto, Ont., president; Dr. M. E. Scott, Massillon, Ohio, vice-president; Allan W. Jackson, Toronto, Ont., secretary-treasurer; J. Harry Button, Toronto, Ont., director, and J. B. Smith, Toronto, Ont., director. A public offering of the stock is being made to-day. Owing to the proximity of the company's holdings to the O'Brien Mine on which sensational discoveries have recently been made, company officials state that they anticipate over-subscription of the issue.

### Suggests Removal Fire Risk From Town

Old-Timer at South Porcupine Thinks Fire Protection Needed as Well as Roads

An old-timer of Porcupine writes to The Advance the following letter:—  
"Dear Sirs—I am not a taxpayer so I have nothing to lose by fire. But I believe in safety first and if there is anything I hate worse than rotten roads it is to see families and their little children burned out and lives lost by fire. South Porcupine is building up fast in the west and northwest ends of the town, but it doesn't look safe to see that big batch of fire fuel a short distance from all those nice homes. I think the owners should take a little time and think of clearing it as far as the creek which runs through this heavy timber and slash and thus make it safer and in case a fire ever does start the firemen will not be handicapped. The highway is close by it and any time a cigarette thrown from a car is liable to start a blaze. So it now and it may mean thousands of dollars and many lives saved for every dollar it costs to clear it. We all know that most of the forest fires have been the result of trying to save a few almighty dollars and the laying off of rangers. No doubt most of them have been started by those looking for work. At least that's what the papers say. We have been pretty good in these parts with fire this summer, yet we don't get any good roads for being so. No doubt where all the millions in timber have been lost will be the place where the most roads will be built. Fire protection is more important than good roads so it's to be hoped this fire trap near South Porcupine will be made safe now that homes are being built close to it."  
—Old-Timer.

### Translux Ticker at F. O'Hearn Co. Office

Couple of Hundred People May Now Watch Ticker at One Time.

It's all done with mirrors, this new Translux affair that lets a couple of hundred people see the stock quotations the second they come off the ticker. Installed at the F. O'Hearn Company office this week and in operation for the first time on Tuesday morning, the new outfit has attracted a considerable amount of attention.

The ticker tape, usually of yellow paper is made of a translucent material somewhat like thin celluloid when the ticker is used with the Translux. As the tape passes over a strong light, the shadow of the figures and letters making the quotation is enlarged and cast upward to a series of mirrors. The enlarged figures are projected on an oblong ground glass screen and appear as a very much magnified tape.

### To-day's Stocks

| Listed               | 7% A        |
|----------------------|-------------|
| Afton                | 17 1/2      |
| Ashley               | 6           |
| Barry Hollinger      | 24          |
| Base Metals          | 1.65        |
| Bidgood              | 53 1/2      |
| Big Missouri         | 80          |
| BEAR                 | 1.42        |
| Beattie              | 7.50A       |
| Bojo                 | 7.75        |
| Bralorne             | 1.23        |
| Buffalo Ankerite     | 1.36        |
| Canadian Malartic    | 4.25        |
| Castle Trethewey     | 50          |
| Central Patricia     | 3.50A       |
| Central Porcupine    | 2.20A       |
| Coniagas             | 1.72        |
| Conlaurum            | 55.50-56.00 |
| Cons. Chibougamau    | 87          |
| Dome                 | 9.00-9.20   |
| Eldorado             | 1.15        |
| Falconbridge         | 30          |
| God's Lake           | 69          |
| Granada              | 1.03        |
| Greene Stabell       | 3.15        |
| Gunnar               | 14.75       |
| Hardrock             | 79          |
| Hollinger            | 25 1/2-26   |
| Howey                | 53.50       |
| Hudson Bay           | 60          |
| International Nickel | 55          |
| Jackson Manion       | 20 1/2      |
| Kirkland Lake        | 57.00       |
| Label Ore            | 13 1/2      |
| Lake Shore           | 6.00B       |
| Lee Gold             | 4.50        |
| Little Long Lac      | 4.35        |
| Macassa              | 29          |
| MacLeod Cockshutt    | 24          |
| Manitoba and East    | 24          |
| Maple Leaf           | 41.25-41.50 |
| McIntyre             | 2.05        |
| McKenzie Red Lake    | 7           |
| McMillan Gold        | 20          |
| McVittie Graham      | 1.68        |
| McWatters            | 1.38-1.40   |
| Mining Corporation   | 27A         |
| Moneta               | 2.50B       |
| Nipissing            | 2 1/2       |
| Night Hawk           | 63.25       |
| Noranda              | 4.60        |
| Omega                | 7.40        |
| Pamour               | 95          |
| Paymaster            | 7.15        |
| Pickle Crow          | 7.25        |
| Pioneer              | 14          |
| Porcupine Crown      | 1.73        |
| Preston East Dome    | 3.00        |
| Premier              | 4.20        |
| Road Authier         | 2.16        |
| Red Lake Goldshore   | 1.25        |
| Reno                 | 1.25        |
| Robb Montbray        | 1.90        |
| San Antonio          | 95          |
| Shawkey              | 1.63        |
| Sherritt Gordon      | 28.32       |
| St. Anthony          | 6 1/2       |
| South Tibblemont     | 1.80        |
| Sullivan             | 71          |
| Sudbury Mines        | 3.45        |
| Stadacona            | 4.65        |
| Sylvania             | 6.00        |
| Siiscoe              | 2.10        |
| Stock Hughes         | 2.15        |
| Toburn               | 11          |
| Ventures             | 7.90        |
| Wayside              | 3 1/2       |
| Wright Hargreaves    | 70          |
| White Eagle          | 73          |

### District Scoutmaster Rowe Returns to Town and Health

Bert Rowe, district Scoutmaster, returned to Timmins this week after a long convalescence from his illness of last winter. He is once more quite fit and will soon be back in Scout work here.

### New Porphyry Body Located on Polaris

Report of Resident Engineer Gives Interesting Reference to Work in Progress on Property.

Mr. H. McMaster, M.E., resident engineer, in charge of operations at Polaris under Mining Research Corporation, Limited, the managers, reports:—  
"Locating of new porphyry bodies on Polaris. No. 2 hole encountered the porphyry at 200-foot depth and was still in it last night at a depth of 548 feet, the known length of the body being at least 800 feet, making this occurrence of impressive proportions. We have now four known intrusions of porphyry on the property paralleling one another at fairly regular intervals. The most southerly one is in contact with Kewatin Greenstone, the contact having a quartz filling and showing considerable action. A new vein was located Monday in the Southern portion of the property on the south half of the south half of Lot No. 1, Concession 3, in the Township of Mountjoy, showing up in an old pit from one to two feet wide. These discoveries will be followed up and further developed by trenching and blasting."

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## Doherty Roadhouse & Co.

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### Mining Stocks Industrial and Public Utility Stocks Bonds

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Commission basis only

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Charlie Hall—Manager

### Any Charges Against Chief, Bring Out

(Continued from Page One)

But all that had nothing to do with "charges" against the chief of police or an investigation by the attorney-general, both Gauthier and Bellamy vowed.

#### Says Council Shows Yellow Rag

It was Mr. Bellamy who finally brought the chief into the picture. "Says Council Shows Yellow Rag" is the duty of the council not to show the yellow rag," he stormed. "These charges have been made and the council must show whether there is anything to the charges. We now demand this investigation." The council, he said, had refused to ask the attorney-general for such an inquiry.

#### Don't Hear Just Dirty Side

"If we're going to have the dirty side of the story, let's have it all. Don't accuse a man behind his back," said Councillor Dr. E. A. F. Day, re-affirming the position he has taken from the beginning of the fuss. Turning to Mr. Bellamy, he said: "I ask you to put your finger on any particular thing in any department of the town that is not right."

#### Want Half-holiday Year Round

Homer Gauthier also appeared as president of the Retail Clerks Association, with a petition signed he said, by 75 per cent. of the dry goods and furniture stores in town, asking that the Wednesday half-holiday be continued throughout the year except during December.

#### Denies Making Charges

Mr. Bellamy then denied that he had made any charges against the chief. "I said the police department," he said. "To end this thing, if you want an investigation you'd better petition the attorney-general's office," said the mayor.

#### Other Complaints Made

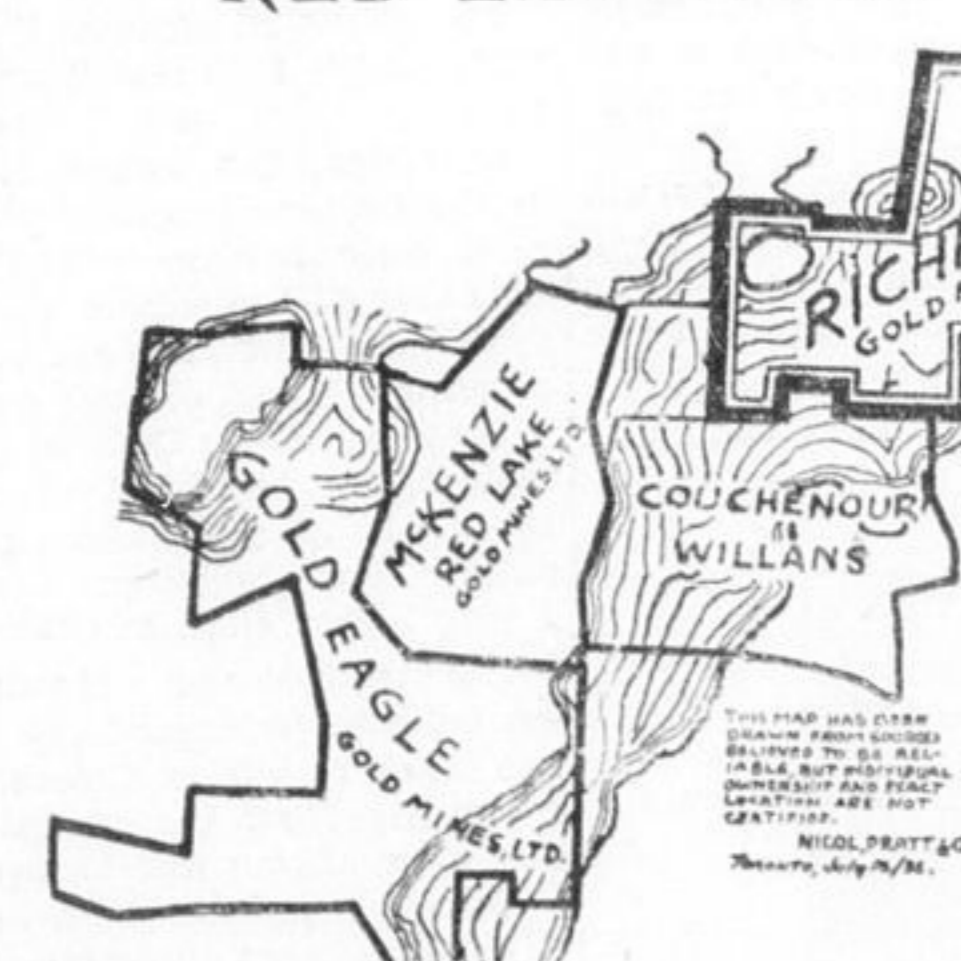
Other complaints of the Citizens' League were that no new list of provisions that may be sold to those on relief had been provided; that nothing had been done about a meat by-law. The mayor told them that it was expected the meat by-law would have been ready for passing at yesterday's meeting, but Dr. H. H. Moore, medical officer of health, was out of town. No new relief supplies list had been issued by the department of welfare. Relief Officer I. E. Dunn said.

#### Toronto Telegram:—Infant son of Mr. and Mrs. Dionne has been christened Joseph Oliva Robert Telesphore. At any rate, they seem to have had four names ready.

### Mining CLAIMS WANTED

We are interested in buying well-located Mining Claims.  
Give full particulars when writing.  
P.O. BOX 34, MONTREAL

## Located in the Heart of the RED LAKE area



### RICHMAC GOLD MINES (1936) LIMITED N.F.L.

**CAPITALIZATION:**  
Authorized 3,000,000 shares of the par value of \$1.00 each  
Issued for property and development to date 1,142,330 shares (all pooled)

**OFFICERS AND DIRECTORS:**  
PRESIDENT  
James E. Boyle, Toronto  
DIRECTORS  
P. G. Clarke, Toronto  
Ingersoll E. Haight, Montclair, N.J.  
Walter N. Beauchamp, Toronto  
J. S. McLaughlin, Toronto  
Secretary  
Walter L. Boyle, Toronto

The Company owns outright twelve mining claims located directly to the North-East of McKenzie Red Lake and Gold Eagle Gold Mines. Reports just received from the property state that Channel Samples taken by Mr. James E. Boyle, President of Richmac, assayed as follows:

|          |               |
|----------|---------------|
| \$196.00 | across 3 feet |
| \$ 67.20 | " 3 feet      |
| \$ 42.00 | " 3 feet      |

One hundred foot vein length between first and third samples

Information on Request From your own broker,  
OR  
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# RESULTS

TO RENT  
SIX-ROOMED HOUSE—all conveniences, full size cement basement, nicely finished, 16 Haverly Blvd., Timmins.

## PHONE 26

The next time you want to buy, rent or sell something just remember that The Porcupine Advance Want Ads. get more results, dollar for dollar, than any other business-getting medium in Timmins and District. They get them faster and with less agony. It's been proved again and again.

## The Porcupine Advance Want Ads

Fourth Ave. Phone 26