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YMIR YANKEE GIRL PLANS MILL

Company Is Regular Shipper To Trail Smelter—Substantial Ore Reserves *J. 12/34*

Ymir Yankee Girl Gold Mines, Limited, has been formed to operate a group of five crown granted claims about 1½ miles east of Ymir, in the Nelson mining division, British Columbia. These claims were at one time held under option by Yankee Girl Consolidated Mines, but owing to financial conditions the option was relinquished and the old company now has no interest in the group.

The mine has been operated continuously since March, 1932, and since that time has been an important shipper of ore to the Trail smelter. To the close of 1933 more than 87,000 tons of shipping ore had been produced, for the recoverable values from which smelters paid more than \$1,100,000. In 1933 the mine shipped 13,489 tons of ore and net receipts after all operating and treatment costs amounted to \$69,534. Installation of a 100-ton mill is now in contemplation.

According to an estimate made by Frederic R. Weekes and E. Perry Crawford, consulting engineers, ore reserves are computed to be 181,400 tons of reasonably assured ore and 87,200 tons of probable ore, the assay value of which is stated to be about 0.47 oz. gold per ton.

The main ore-bearing area is about 1,000 feet long and contains three veins, the Yankee Girl, Spur and Lakeview. About 11,000 feet of lateral work and 1,400 feet of raises have explored the Yankee Girl vein to the 1,235 adit, which is the main working level. The Lakeview has been explored for 400 feet and the Spur vein for about 1,000 feet. A 6,000-foot aerial tramway connects the mine at the 1,235 adit with the railway at Ymir.

The company is capitalized at 3,000,000 shares, \$1 par. of which 2,200,000 shares are to be presently issued and outstanding. Frederic R. Weekes, New York, is president; E. Perry Crawford, Berkeley, Calif., vice-president; Walter E. Segsworth, Toronto; Evens E. Wasson and David S. Wallbridge, Vancouver, directors. Prudential Trust Co., Toronto and Vancouver, is transfer agent.

YMIR YANKEE GIRL HAS GOOD ORE

JUL 26 1934
A New Producer for British Columbia at 100-Ton Daily Rate—
Profit Made from Shipments

The 100-ton flotation and cyanide mill to be installed on the British Columbia property of Ymir Yankee Girl Gold Mines Limited, one and a half miles east of Ymir, was recommended in the report of E. P. Crawford and F. N. Weekes, dated January 24, 1934, after an exhaustive examination. The company has been making money right along with ore shipments to Trail, B.C., 87 miles away, and a recovery unit will add appreciably to the profit column. Shipments have been at the rate of over 1,000 tons monthly, from which approximately \$10,000 profit is reported for June. About 90% of the value of the ore is gold; silver, lead and zinc is carried in minor quantities. There are three engineers on the board of directors.

In estimating ore, the report outlines 181,400 tons as being reasonably assured, averaging .51 oz. gold per ton for a grade of \$17.85 at the new price. Probable ore is 87,200 tons averaging .40 oz. per ton for a \$14 grade. The total is sufficient for over seven years' millfeed at the 100-ton rate. Mining conditions are said to be good. The veins are described as strong in schistose sediments and intruded granite. Ore widths of the shoots in the veins are given at four to five feet. All the ore to date is in the Yankee Girl and Spur veins; there has been none yet in the Lakeview vein. Other vein possibilities also exist, while there are large areas in known veins not explored yet. Electric power will be available nearby for production, if the company's own water-power plant is not sufficient. Cost of \$16 to \$32 per horsepower year is computed. The deposits are worked from a number of adit levels.

In order to most economically treat the ore a number of thorough metallurgical tests have been made with authoritative people, and four methods have been considered and compared in detail for final selection. The report states that "metallurgy is not difficult with high recoveries." Tests were carried out by Dorr company, Minerals Separations Company, Bureau of Mines, Ottawa, and the American Cyanamid Company. The ore contains primary sulphides in a siliceous gangue and quartz; there is some oxidation near surface in the veins. It is expected that flotation with cyanide will give 90% recoveries of the values in market form.

Four Methods Considered

The different methods considered are: first floating a lead concentrate and cyaniding the tailing with the zinc in tails going to storage; second, selective flotation of lead, zinc and iron concentrate with cyanidation of each separately, then shipping the base metals when prices warrant; third, tabling a lead concentrate with cyaniding of the tails and the zinc in tailing to storage; fourth, straight cyanidation with lead and zinc from tails to storage. The second and fourth have the advantage that most of the gold would be recovered as bullion, as would the first and third method if the lead concentrates were cyanided before shipping.

In calculations, grade of ore was taken at .417 oz. per ton, whereas actual sampling gave a somewhat higher grade; it would be a safety factor for dilution in mining. Costs were estimated between \$5 and \$6 per ton, and total costs of \$5 per ton were stated to be well within possibility. Freight costs to the Trail Smelter have been \$2 to the ton of ore. The grade of ore shipments has been running .54 oz. gold per ton, 2.8 oz. silver, 2.4% lead, and 4.6% zinc. The total value of ore shipped to the end of 1933 in the history of the property is \$1,100,000. Estimates at the 100-ton treatment rate give at least \$9 net profit per ton, which, if secured, would work out to 15c per share before depreciation and depletion. The company is capitalized at 3,000,000 shares, with 2,200,000 presently issued. A recent offering of 250,000 shares was made to finance mill installation, property development to the 100-ton rate, and completion of property purchases. The 1933 performance is 13,456 tons shipped, from which were recovered 6,792.9 ozs. gold, 38,309 ozs. silver, and 655,622 lbs. lead for an operating profit of \$69,534.

YMIR YANKEE GIRL STARTS MILL CONSTRUCTION

AUG 2 - 1934

Ymir Yankee Girl Gold Mines, Limited, has started construction of its 100-ton flotation and cyanide mill. The Northern Miner is informed by E. R. Weekes, vice-president. The company's ore position and mill plans were outlined in detail in last week's issue.

Recent development operations have been largely confined to virgin ground between the 540-ft. level and surface. Mr. Weekes comments, and results have been such as to indicate substantial commercial ore reserves in this area heretofore not included in ore reserves statements.

YMIR YANKEE GIRL ENCOUNTERS ORE IN RAISE

AUG 2 - 1934

A progress report from the Ymir Yankee Girl, operating in the Nelson Mining district of British Columbia, states that during the past month the 528 raise was advanced 53 ft. The grade of ore opened up in this length averaged .78 oz. across 2.4 ft. Sampling of the last face at a height of 160 ft. assayed 1.6 oz. across a width of four feet. The raise was stopped at this height to cut a station at the 400 level where lateral work will be proceeded with to connect with the old workings at this horizon.

Mill feed is at present coming from stopes on the 800 level. It is worthy of note that development raises are opening a good grade of ore in ground that was estimated to contain only possible ore.

YMIR YANKEE GIRL DEVELOPS ORE

AUG 23 1934

Extensive Underground Development Opening Up Good Grade Ore

Officials of the Ymir Yankee Girl are in receipt of a report from R. Clarke who recently examined the mine. Extensive underground development is being carried out in addition to breaking ore for shipment. At the present time about 1,000 tons monthly of raw ore are being shipped to the smelter at Trail. Construction of the mill is proceeding satisfactorily.

Two stopes have been started on short shoots of ore on the 935 level. In one stope along a length of 50 feet average widths and values of 2.5 ft. and

4 oz. are indicated. Mr. Clarke states. Four samples taken in the second stope, which is about 60 ft. in length, assayed from .21 to 1.03 oz. across widths varying from 3.5 ft. to 6 ft.

Raise No. 791 has been completed to the 935 ft. level and raise No. 792 has been carried up to connect with the 800 ft. level. In the latter raise, the average width of ore is 5.5 ft. with an average value of .25 oz. A length of 180 ft. of ore is reported showing in the back of stope No. 785. Sampling indicates values of one ounce in gold across an average width of five feet. The stope is still 90 ft. below the 540 ft. level, and it is estimated that there is from 1,500 to 2,000 tons of broken ore in the stope.

Raise No. 528 has been advanced 170 ft. above the 540 ft. level. The back of the raise is reported to be in four feet of low grade ore. At a height of 100 ft. a station was cut and drifting started east and west. A length of 90 ft. of ore has been developed at this horizon. According to latest reports sampling of the east face assayed 1.34 oz. across 3.5 ft. but the west face was not in ore.

In new development between the 800 and 540 levels the last few rounds showed ounce values across 3.5 ft. widths. Raising to the 540 ft. level has shown consistent widths of from four to seven feet. Values on the east side ranged from .3 to 1.0 oz. and on the west side the lowest assay was .26 oz. across 3.5 ft. and the highest 1.25 oz. across 5 ft.

OUNCE ORE FOR YANKEE GIRL

SEP 6 - 1934
Good Lengths Being Opened Up—
Ore Indications Beyond
Lakeview Fault

New development at the Ymir Yankee Girl is reported to have opened up a length of 180 ft. of ore on the 620 ft. level that is five feet in width and averages better than one ounce in gold over that length. Ounce ore is also indicated in a slash in a raise 200 ft. to the east.

The east face of the 540 ft. adit level has broken through the lakeview fault and what appears to be the extension of the Yankee Girl vein has been picked up. This materially enhances the ore situation on the upper levels. The present face of the drift is reported to carry values of 1.3 oz. and the average over the short distance to date is better than .75 oz. Raising from the 528 ft. level to the 400 ft. level has been continuously in ore running in grade from .22 to 1.71 oz.

Raise No. 785 has broken through to the 540 ft. level with the back of the raise showing about two feet of ore. Eight samples taken from the back of the stope upwards in this raise on the west side over widths of from four to seven feet gave assays of from .33 to .99 oz. of gold, while eight samples on the east side over widths of from three to five feet gave assays up to 1.25 oz. of gold.

YMIR YANKEE GIRL IN HIGH GRADE

Oct 4 - 1934
Extremely Good Ore Secured on
New Level—100-Ton Mill
Ready in December

Very high grade ore has been opened up in drifting on the 400-ft. level at the Ymir Yankee Girl property in British Columbia. Sampling along a 60-ft. length in the east drift after raising up from the 540-ft. horizon averaged 2.62 ozs. per ton for an average width of four feet. At latest report the drift had been continued for a length of 105 ft. with similar vein material showing. At a gold price of \$34 per ounce the grade would be \$89 per ton.

Excellent progress is being made in the construction of the 100-ton mill and it will probably be completed some time in December, explained L. B. Wright, consultant for the company, to The Northern Miner. Regular shipments to the Trail smelter have been maintained for some months at a good profit and due to the large amount of ore reasonably assured from the underground exposures, it was decided to build a flotation-cyanide recovery plant with a nominal daily capacity of 100 tons. The mill building has been completed and all foundations for machines laid. There is no trick in making deliveries as the railway passes close by the mill site. Delivery and installation of equipment will occupy most of the time till the unit is finally turned over.

Monthly shipments to Trail have been maintained through the past three months, Mr. Wright explained. At least 1,000 tons are shipped every month and the average grade has been in the neighbourhood of .60 oz. per ton, a grade of \$20.40 at the \$34 gold price. Operating costs are estimated at about \$10,000 monthly so a handsome profit is being made in spite of shipping and smelter charges. The mine is located 87 miles from Trail and with its own recovery plant these big cost items will be obviated. It is likely through October and November that smelter shipments will be discontinued then next recovery will be from the new mill. There is 3,000 tons of broken ore in the stopes ready for processing while the probable ore estimate is 87,200 tons averaging .40 oz. per ton and the amount of ore reasonably assured is 181,400 tons averaging .40 oz. per ton.

In channel sampling along the 60-ft. length of drift to the east on the 400-ft. horizon, the following fine series of assays were obtained: .27 oz. for 2 ft., .54 oz. for 4 ft., 1.34 oz. for 3.5 ft., 2.89 oz. for 3.0 ft., 6.28 oz. for 4.5 ft., 4.06 oz. for 5.0 ft., 3.76 oz. for 4.5 ft., 2.44 oz. for 4.5 ft., and 2.87 oz. for 5.0 ft.

YMIR Y. GIRL TO MILL

OCT 11 1934 BY JANUARY

Consultant Reports Good Ore Development and Progress on 100-Ton Mill

Last week the development of extremely high grade ore at the Ymir Yankee Girl mine in British Columbia was detailed. Lawrence B. Wright, consulting engineer for the company, has recently visited the property and his report dated September 20th, revealing progress of operations, is here reproduced:

"The mine at present may be described as being in the general centre of the ore deposits. New ore possibilities, in addition to the present large reserves, exist not only ahead of the present workings, but above and below them. Development such as is being carried on with present equipment is being mainly confined to the ground above the present workings, or above the 540 level. To date a raise has been driven upward to the 400-ft. level and is being extended toward the 200 level. Above the 400 level the vein on the east side of the raise for 60 ft. averaged, gold 0.65 oz. across 3.5 ft. On the west side, 0.32 oz. across 4.3 ft. This oreshoot cuts across the vertical raise at an angle, so that the head of the raise is now in low grade material. It is due to break into the next overlying oreshoot at any time.

"Drifting westward on the 400 level from the raise disclosed ore of milling grade for 70 ft. The east drift is now 105 ft. along the vein in the best grade of ore yet known in the mine. The first 45 ft. averages 2.74 ozs. across four feet. This ore continues to 80 ft. east of the raise, with the full width not disclosed between 50 and 80 ft. At the 80-ft. point, the vein narrows for 16 ft., and the last face observed at 105 ft. showed 3.5 ft. of ore on September 19th. The 794 stope, 935-ft. level, is also in high grade ore. These blocks of high grade will be conserved for mill sweetener. The large stope above the 800-ft. level contains a goodly reserve of broken ore which averages approximately .62 oz. per ton. Shipments to the Trail smelter will soon be stopped in favor of the company's own milling plant.

"The tramline to the railroad and mill is to be equipped with new running cable during the next 60-day period while the machinery is being installed in the mill. Ore which might otherwise be trammed will be held in reserve. The improvements to tram line and mine bin layout are scheduled to be completed with mill completion, possibly before. Foundations are in preparation for the new 1,500 cu. ft. compressor at the mine. At the time of this inspection, the mill structure was nearing completion and foundations for some of the machinery being prepared. The entire layout is efficiently designed. It is estimated, allowing for usual last minute delays, that the mill will be ready to begin operation about January first.

"Ore shipments have been continuous and the company is realizing a good operating profit. The new mill will effect a further profit per ton of ore mined of approximately five dollars over the profit per ton now being realized by rail shipment to the smelter. The mine organization is efficient and there are many evidences of strict economy in the company's affairs. During the recent weeks, changes have been made underground which facilitate the delivery of ore to the tramway. Further improvements are contemplated which will facilitate an increased amount of mine development ahead of stoping and milling, thus giving an adequate reserve of broken ore on hand at all times. The general outlook for continued and improved successful operation is indeed satisfactory."

- this report is from AIME vol. 41 1940.

YANKEE GIRL OPENS UP ORE

NOV 7 - 1934
Good Grade Indicated in Recent Developments—Mill Construction Proceeding

Late reports from the property of the Ymir Yankee Girl in British Columbia indicate continued success in recent ore developments. The raise from the 540 ft. level has now been completed and a station is being cut at the 230-ft. horizon. Lateral work will be proceeded with to connect up previous headings on this level. Values near the top of the raise have been low but the management is confident that drifting, particularly to the west will soon open up commercial values. Drifting eastward from the raise on the level established at 400 ft. has advanced 130 ft. A high grade shoot in this section averaged 2.76 oz. along an 80 ft. length. Values in places extended over drift width and into the walls. The present east face has been in low grade material, but appearances are improving and it is expected that ore grade will be picked up shortly.

The stope extending from the 800 level is now approaching the 540 level and better grade is in sight. Ounce values are obtainable across a five foot width along a 200 ft. length of back. Some 6,000 tons of broken ore are available in this stope for milling. Stoping from the 935 ft. level has progressed some 60 ft. to the west where the breast shows six feet of ore. Chances are considered promising for a further extension of better than average mill grade ore in this direction.

Construction work on the property is proceeding up to schedule. A new compressor is being installed for underground operations and new towers are being completed for the aerial tramway. Milling and crushing equipment is being set up and production is expected to get under way around the first of the new year. Smelter shipments have been discontinued and further production awaits the completion of the mill. During 1934 returns were received from approximately 10,000 tons of an average grade of better than half an ounce, providing a good operating profit.

YANKEE GIRL MILL NEAR COMPLETE

NOV 15 1934

All Equipment Has Been Delivered
and Part Installed—Raising
In Progress

Development work is reported progressing satisfactorily and fine advance is being made in mill construction at the Ymir Yankee Girl property in British Columbia. The mill building is practically complete, crushing machinery has been installed, and part of the cyanide and flotation plant is in place. All the necessary mill equipment is now on the ground and it is expected to have the new mill in operation around the end of next month.

Raising from the 540-ft. level has been advanced to about 25 ft. above the 230-ft. horizon. Values in the back of the raise are running .25 oz. and it appears that another oreshoot is coming in. Some 40 ft. of drifting to the east on the 230-ft. level has failed to open up any ore but the management is not particularly discouraged in view of the fact that late work has indicated a more decided rake of the oreshoots than was originally looked for. Apparently due to similar conditions recent drifting eastwards on the 400-ft. level in the same section has not disclosed any further ore, but additional work, it is anticipated, will pick up the following oreshoot. This drift has already opened up some of the highest grade ore in the mine; a 60-ft. length averaged well over two ounces across a four-foot width.

The Yankee Girl vein in which occurs all the developed ore zones in the mine is a particularly strong shear striking in an easterly direction and cut at the east by the Lakeview fault. Whether the vein extends beyond the fault has not yet been definitely established, but an apparent end is indicated in the vein on the 1,235-ft. level where an extensive zone of sulphide mineralization carrying low gold values follows along the fault. The consulting geologist, L. B. Wright, considers that the junction of these two zones may eventuate in a large body of ore. This area will be fully explored when the mine is developed at depth.

YMIR YANKEE GIRL TO MILL AT YEAR END

F. R. Weekes, president of the Ymir Yankee Girl Gold Mines Ltd., following on a recent visit to the mine in the Ymir district of British Columbia, reports that good progress is being made in the construction of the mill. Barring any unexpected delays officials expect to see the mill operating by January 1st.

The new compressor for underground work has been installed and the electric power turned on. The management is now in a position to proceed with an extensive campaign of underground development and it is proposed to carry forward all existing faces. This should keep the mine in a healthy condition as regards ore reserves.

YMIR YANKEE GIRL READY TO GO

DEC 27 1934
Half Ounce Millheads Expected —
Made \$10,000 Monthly With
Shipments To Trail

The new 100-ton mill on the Ymir Yankee Girl property in British Columbia is expected to be turned over by the first of the New Year. All construction has been completed and practically all necessary supplies are at the property. Millheads should average well over half an ounce per ton in gold, principals of the company advise The Northern Miner, besides a two-ounce silver content and low lead and zinc percentages. Shipments were made to the Trail smelter during 1933 and 1934; the gold content averaged .65 oz. per ton in gold for the former year and .77 oz. per ton in the latter year. The tonnage shipped was about 1,000 tons monthly which netted the company \$10,000 consistently. The mill will start with three to four months' broken ore ready.

E. P. Crawford and F. N. Weekes, engineers, reported last January that there was 181,000 tons of ore in the mine reasonably assured that averaged over half an ounce per ton. Probable ore was 87,200 tons with a grade of .40 oz. per ton. These estimates were based on exposures above the 1,235-ft. level with the exception of one shoot to 100 ft. below that. Drifting has started on the 1,235 to pick up the vein beyond the Lakeview fault. It is reported that the Yankee Girl vein was intersected on the adjoining property, half a mile beyond the fault. Depth development is authorized to start right away at a much higher rate, as the new compressor allows 12 machines to be operated instead of three. Three more claims for vein protection were recently acquired. The company's financial position is described as secure with no debts outstanding. Operating costs have been estimated to run in the neighborhood of \$5 per ton.

Y M I R Y A N K E E G I R L Three adjoining claims have been purchased by Ymir
Yankee Girl from Wesko Exploration for \$500 cash and
15,000 shares of Ymir and assumption of the \$2,500 lease and bond on for \$500 cash and
were held by Wesko. *Fin. Counsel Nov. 2/34.* under which the claims

YMIR YANKEE GIRL NEAR MILLING

DEC 27 1934

Ymir Yankee Girl Gold Mines, operating at Ymir, British Columbia, is getting its mill into shape and expects to be in regular operation by the first of the year. The Northern Miner learns on good authority. Part of the mill equipment has been tested, but it was found necessary to obtain additional machinery which it is anticipated should arrive at the property shortly.

During the past two years Ymir Yankee Girl has been making shipments of high grade ore to the smelter at Trail. Shipments for the first part of this year were made at the rate of about 1,000 tons monthly. A good operating profit is reported to have been made and it is expected that considerable saving will be evidenced now that the company is milling its own ore.

Ore developments this year as reported have been quite satisfactory. Grade in places runs around an ounce in gold or more. As at the first of this year E. P. Crawford and F. N. Weekes, mining engineers, in reporting on the mine estimated that there was reasonably assured ore to the extent of 180,000 tons with an average value of .51 oz. Probable ore was estimated in excess of 80,000 tons. It is understood that the mill is starting operations with at least two years' ore supply, and that a substantial tonnage of ore is broken in stopes ready for milling.

The new compressor for mine development has been installed and is now operating. Officials anticipate that this will permit ample development work to keep the mine well ahead of the mill.