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Sunshine Lardeau

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Sunshine Lardeau ^{of M.} Sees End in Spring Of Movable Ore ^{7/6/58}

Sunshine Lardeau Mines will mine and mill all proven lead-zinc-silver ore in its property at Camborne, B.C., and conduct an exploration program in the general area adjacent thereto during 1958.

All exploration of recent years has been conducted within the boundaries of the company's claims. This included a geophysical survey and subsequent drilling of anomalies indicated in the survey. The effort failed to indicate the presence of any new ore.

The exploration planned for 1958 will, however, be extended to neighboring properties in the hope of finding ore that can be profitably treated in the Sunshine Lardeau mill.

The above policy was approved by the annual meeting in Vancouver Jan. 30, at which all directors were re-elected.

J. A. Pike, president, gave an off-hand estimate of \$30,000 as possible expenditure on the exploration program, but stated the actual figure would be governed by the results obtained.

In the event of failure to obtain any encouragement, the amount would probably be a reasonable barometer, but it was possible sufficient ore chances would be found to warrant a much larger expenditure.

May Consider Liquidation

In answer to a shareholder's question, the president said that he believed directors were prepared to consider voluntary liquidation of the company in the event of disappointing experience in the exploration campaign. John Drybrough, president of Newmont Mining Corporation of Canada and a director of Sunshine Lardeau, said the company would have an indicated net cash position of approximately \$600,000 in the event of liquidation. He did not consider this sufficient to engage in outside exploration apart from the immediate district, but he did consider the repetition of ore deposits as likely to occur in the well-mineralized area surrounding the Sunshine Lardeau mine.

Mr. Pike said that working capital stood at \$495,077 on Dec. 31. No capital expenditures are planned for the current year. Demands of the International Union of Mine, Mill and Smelter Workers for increased wages and other benefits, which the company has been unable to meet, are now before a conciliator of the Labor Relations Board.

The unusually high cost of extracting ore from the Eclipse vein, by sinking a winze, will not be repeated in the salvaging of

SUNSHINE LARDEAU WORK OPENS ADDITIONAL ORE

12/3/33
Gold-silver-lead-zinc ore was opened for an aggregate length of 431 ft. in 656 ft. of drifting and crosscutting, all on the 10th level, at the Sunshine Lardeau Mines property near Beaton, B.C., during the three months ending Oct. 31, a report to shareholders states.

In addition operating conditions improved so that a surplus for the period was reported. A total of 5,707 tons of ore was milled yielding 677.2 tons of zinc concentrate and 637.3 tons of lead concentrate bringing a net smelter return of \$132,266. Operating surplus for the period was \$44,351 which is subject to a reduction of \$34,219 for capitalized development on the 10th level. Other capital expenditures amounted to \$37,423.

During the previous period a loss of

\$6,775, had been reported after milling 3,173 tons yielding 321.6 tons of zinc concentrate and 312.2 tons of lead concentrate with a net smelter value of \$58,865.

The new ore exposures on the 10th level were as follows: 23-ft. length, 0.21 oz. gold, 11.7 ozs. silver, 11.4% lead and 6.4% zinc across 1.7 ft.; 370-ft. length, 0.11 oz. gold, 9.0 ozs. silver, 8.0% lead and 12.5% zinc across 4.0 ft.; 38-ft. length, 0.03 oz. gold, 6.2 ozs. silver, 6.3% lead and 13.0% zinc across 2.7 ft.

John Drybrough, president, states that loading and other facilities at the 10th level portal are completed. Milling operations are steadier and show slightly improved recoveries and the crew is now comprised of more experienced men than obtainable earlier in the year.

Excerpt from R.E.Legg letter 9-1-53 to Eavn Just
Original filed in-Trans-Mountain Mines Ltd.-SF

"The attached report from Sunshine Lardeau will interest you. They have not done very much yet. I am told that a great deal of trouble has been experienced with their road connecting their mine to their mill. It is the old story of building a road with too steep a grade, but of course that is not the fault of Newmont."

SUNSHINE LARDEAU MEET APPROVES NEW DEAL ^{12/4/52}

Unanimous approval was given in Vancouver on Monday by Sunshine Lardeau shareholders to the agreement made with Berens River Mines whereby that company will assume management of the Sunshine property at Camborne, B.C. Berens River officials left for the mine immediately.

Satisfaction was evinced at the meeting over the deal, although some shareholders implied criticism of the Sunshine Lardeau affairs which, while general operating results have been excellent, show that liabilities of \$334,837 exist.

R. C. Glen, managing director, explained that the Spider mine has responded well to development. However, he pointed out, costs of building a road to the new No. 8 level, the current exploration program, costs of building a cookhouse, bunkhouses, a dry and four new employee homes, together with flotation troubles with oxidized ore, have all added up to make extra and unforeseen expense; not to mention, he added, the recent declines in metal prices.

John Drybrough, president of Berens River Mines, affirmed his satisfaction with the agreement and said that the new money provided by Berens River, for share concessions and a debenture issue carrying interest at 5%, would be used to retire immediate bills and to finance development and increase in production of the mine.

ADD NEW ORE LENGTHS SUNSHINE LARDEAU ^{N.M. 12/4/52}

Recent development work by Sunshine Lardeau Mines, Ltd., Camborne, B.C., has confirmed the high grade nature of the ore deposit and also given strong indications of sizable tonnage. In November, drifting on the No. 4 vein on the 8-level exposed ore for a length of 200-ft., averaging 0.07 oz. gold and 14 ozs. silver per ton with 10.7% lead and 9.7% zinc over an average width of 12 ft.

Drifting was continued throughout December on both faces. To the south, an additional ore length of 75 ft. was developed with an average grade of 0.14 oz. gold and 22 ozs. silver per ton with 15.7% lead and 16.6% zinc over an average width of 2.8 ft. The south face continues in ore but the north face, at last report, was being driven in waste material.

Stope preparation is under way on the 8-level and diamond drilling has been commenced to determine downward persistence.

The annual general meeting of shareholders will be held Jan. 29.

SUNSHINE'S TILL STRENGTHENED ^{12/4/52}

Berens River Mines has now purchased \$175,000 of debentures of Sunshine Lardeau Mines, it is reported by President John Drybrough of Sunshine Lardeau in that company's annual report.

The purchase has been made under the deal ratified in November whereby Berens River assumed charge of operations at the Sunshine mine (Camborne, B.C.) and was given the right to subscribe up to \$500,000 in debentures. It was made, too, subsequent to the date of the report (Oct. 31, 1952), at which time the Sunshine balance sheet showed \$55,162 current assets and \$247,147 current liabilities in addition to \$46,000 advances from directors.

As previously reported, the deal also gives Berens River one share of stock for each dollar subscribed in debentures and options on 500,000 shares at an average price of 75¢ per share.

Production at the Sunshine mill began on May 16, 1952, and milling has been carried on intermittently since that time. The plant has treated an average of 50 tons daily over a period, and in excess of 70 tons in trial runs. From May to October (presumably Oct. 31) a total of 4,747 tons was treated, producing 368 tons of lead concentrate averaging 53.4% lead, 11.25% zinc, 0.57 oz. gold per ton, and 141.1 ozs. of silver; and 326 tons of zinc concentrates averaging 49.4% zinc, 7.8% lead, 25.1 ozs. of silver, and 0.091 oz. gold.

MORE RESERVES AT SUNSHINE L. ^{N.M.}

Will Consider Increase in Mill Capacity—Report Small Operating Profit ^{2/5/53}

An increase in ore reserves from 70,000 to 100,000 tons has resulted from development work done in the Spider mine, Camborne, B.C., in the period since the end of the fiscal year, Oct. 31, 1952, John Drybrough, president, informed the annual meeting of shareholders of Sunshine Lardeau Mines, Ltd., in Vancouver, last week. Despite the low tonnage extracted in this period an operating profit has been earned. A decision on expanding mill capacity is expected to be made in about two months.

Asked by a shareholder as to what had been done on other than the Spider claims, Mr. Drybrough replied that these were covered by snow at the present time but would be prospected when weather conditions permitted. He said "This is a small mine but it has good grade and the results of development have been satisfactory. We think there will be further improvement." He cautioned shareholders against too much enthusiasm concerning the ore indicated at depth by diamond drilling, stating only four holes had been drilled below

the 8-level. These holes did suggest greater width and higher grade of ore than the mine average.

John Drybrough, James A. Pike, D. M. Cannon, and W. J. MacKenzie were named directors to represent Berens River Mines, Ltd., on the board. Also elected were Robert C. Glen, Harold E. Bent and Walter Scorgie.

In addition there was 778 tons of direct shipping ore that averaged 28% lead, 5.5% zinc, 72.5 ozs. of silver, and 0.305 oz. gold. Total proceeds from sale of ore were \$198,076.

When stoping preparations on the 8th level are completed, the report states, it is expected that a production rate close to capacity will be achieved.

Regarding ore reserves, the management at Oct. 31, 1952, estimated 70,000 tons of ore in sight between the Nos. 5 and 8 levels averaging 8.3% zinc, 9.5% lead, 16.5 ozs. silver, and 0.08 oz. gold. By year end 275 ft. of additional ore had been opened on No. 8 level averaging 9.5% zinc, 10.3% lead, 13.7 ozs. silver, and 0.07 oz. gold across 10.8 ft. with ore still open to the south.

In his report to the meeting, the president stated:

"Since Oct. 31, development on the 8-level has proven the oreshoot for a length of 375 ft. and a branch for 85 ft. The average width is 6.4 ft. and the average grade 10.4 ozs. silver per ton with 8.5% lead and 9.0% zinc. The north end is indicated and the south end is in lower grade material.

(Continued from Page Seventeen)

"Four holes have been sunk below the level covering a length of 160 ft. and approximate vertical depth of 150 ft. The four show an average horizontal width of 7.5 ft. averaging 15.7 ozs. silver per ton with 13.0% lead and 15.7% zinc.

"The reserves from the 5th level down to these drill holes (520 ft.) are estimated at 100,000 tons averaging 13.9 ozs. silver with 9.9% lead and 10.2% zinc as compared with 70,000 tons averaging 16.5 ozs. silver with 9.5% lead and 8.3% zinc at Oct. 31 last.

"In November and December 2,380 tons of ore was milled to produce 352 tons of lead concentrate and 347 tons of zinc concentrate. In spite of the low production rate due to interruptions by weather and the holidays an operating profit of \$8,729 was made. It is unlikely any great improvement will result until March is past.

"Development will be continued on the 8th level south and diamond drilling will test below the level. A raise is being driven to the 6th level and on completion will enable the resumption of drifting on the higher horizon.

"Preparations are being made to start in the spring a new level at least 200 ft. below the 8th level.

"Some expansion to the milling capacity is now justified but actual decision will not be made about the size of the increase until at least two months more development has been done."

SUNSHINE LARD. N.M. SHOWS PROFIT 11/19/52

One of British Columbia's newest base metal producers continues to announce excellent operating results despite the effect of lowered metal prices.

Sunshine Lardeau Mines, Ltd., with a silver-lead-zinc property near Camborne, B.C. reports that operating profit for September, from production of 378.5 tons of direct shipping ore, 57.7 tons of lead concentrate and 47.3 tons of zinc concentrate, was in excess of \$20,000.

During October production exceeded these figures but final smelter payments will be delayed for some time and operating profit can not yet be calculated. During the month 320 tons of direct shipping ore were sent to the Trail smelter with 140 tons of lead concentrate and 125 tons of zinc concentrate.

During the latter part of October,

mill feed consisted of development ore from the new No. 8 level which to date has yielded high grade values. Mill heads from this feed averaged 19-20% in combined metals with 14 ozs. silver per ton and recoveries were in the range of 92-95%. High grade lead ore was hand sorted from the mill feed as direct shipping ore prior to mill head sampling, which indicates, officials state, that actual mill heads with this high grade ore included, would have been substantially higher than 20%.

SUNSHINE LARD. N.M. DOING NICELY 11/20/52

More Excellent Grade on 8-Level—Good Profits From Present Metal Prices

Further high grade ore has been opened on the 8-level of the Spider mine, a report from the Sunshine Lardeau Mines Ltd., property, near Camborne, B.C., states.

On the south heading, face samples across 6.0 ft. returned 34.5 ozs. silver per ton with 26.2% lead and 24.3% zinc. Subsequent advance and slashing on the south face gave ore widths in excess of 14 ft. Mill production has been increased to 10 tons of lead concentrate and 8-10 tons of zinc concentrate daily.

In a letter to shareholders which was mailed last week, the managing director, R. C. Glen, refers to this and previous progress reports which have been making news at the Sunshine Lardeau in recent weeks, and concludes by quoting a report from C. E. Rutherford, consulting engineer which said: "One of the main difficulties, that of enough working places underground to adequately supply the mill while shipping high grade, has largely been solved by the

cutting of ore on the 8-level. This also of course adds materially to ore reserves. Sunshine Lardeau is in the fortunate position of having a comparatively high grade silver-lead ore that even with present metal prices can show excellent profits."

A full scale development program warranted by the results on the 8-level, is being planned.

NEWMONT DEALS SUNSHINE LARD. N.M.

Berens Will Advance Funds For Development — Capital Increase is Required N.M.

Newmont Mining Corp. is taking an increasingly active interest in British Columbia's base metal picture. Earlier this year, through Berens River Mines Ltd., a deal was made with Lardeau Lead and Zinc Mines Ltd. Then came the Pacific Nickel participation, ratified by shareholders of that company on Nov. 14. Latest deal is with Sunshine Lardeau Mines Ltd., operating a high grade silver-lead-zinc producer at Camborne, B.C. in the Lardeau district.

Subject to approval of shareholders at a meeting of Sunshine Lardeau to be held Dec. 1, an agreement has been made with Berens River Mines Ltd. on the following terms:

On ratification of the agreement, Berens River will advance to Sunshine Lardeau the sum of \$125,000. Further advances at the discretion of Berens River will be made as deemed necessary, up to an aggregate amount of \$500,000. Any advances made will be secured by 5% debentures to be issued by Sunshine Lardeau.

For each dollar advanced, Sunshine Lardeau will issue to Berens River one fully-paid non-assessable common share. Berens River in addition will have the right and option to subscribe to 250,000 shares of Sunshine Lardeau stock at 60¢ per share and a further 250,000 shares at 90¢ per share before Dec. 31, 1954.

Sunshine Lardeau will increase its share capital to 3,500,000 shares on execution of the agreement with Berens River, and, when required, to comply with the option provision noted above, will further increase its share capital to 4,000,000 shares.

Berens Management

Until such time as all advances by Berens River are repaid in full, that company will be entitled to nominate a majority to the Sunshine Lardeau board of directors and shall have complete management control of the operations.

The proposed deal contemplates that, for loans aggregating \$500,000 and for share subscriptions of \$375,000, Berens River would ultimately receive one mil-

NEWMONT DEALS SUNSHINE LARD.

(Continued from Page Eighty-One)

lion shares of a total of four million shares of Sunshine Lardeau stock. Present capitalization is three million shares, all issued, of which 1,100,000 are es-crowed.

After a visit to the Sunshine Lardeau property last May, The Northern Miner noted that from appearances at that time the operation "has an excellent chance to develop into either a small, but remarkably high grade producer, or, depending on development results, into a medium tonnage operation with substantial reserves of better than average grade." Succeeding events have justified this assessment. The Spider mine has responded and is responding exceptionally well to the current development program. Substantial additional tonnages of better than average grade silver-lead-zinc ore have been proven through driving of the new No. 8 level 250 ft. vertically below the No. 6. Drifting on the No. 6 level opened 165 ft. of good ore in the No. 4, (main orebody) ore zone. Chances for extension of this length to the south are considered to be excellent.

On the No. 8 level, the 814 drift has been advanced 200 ft. in very good ore having an inferred width over this distance of at least 11 ft. Slashing to full width is not complete and indications are that widths may be considerably greater. Based on mill heads for the first 10 days in November, with 80% of mill feed coming from development on this level, grade of this ore is estimated at 16.2 ozs. silver, 10.8% lead and 9.55% zinc. The drifting is being continued in good ore.

Ore Estimate

In what he emphasizes is an interim report, since development is being continued in ore, C. Rutherford, consulting engineer, notes that a very conservative estimate of tonnage developed to date shows sufficient ore to keep the present mill operating at 60 tons per day for five years. His estimates of ore reserves and values show 82,645 tons of reasonably assured ore plus 13,400 tons of possible ore which, after allowance for 10% dilution and resultant drop in grade give: 105,649 tons averaging 0.08 oz. gold, 19.9 ozs. silver, 9.81% lead and 9.09% zinc. Of this he points out 2,150 tons would be direct shipping ore averaging 0.27 oz. gold, 82.6 ozs. silver, 33.4% lead and 2.9% zinc, which, at present (Nov. 12) metal prices should provide a net smelter return of \$143 per ton and an operating profit of \$264,727. After allowances for all normal costs, Mr. Rutherford estimates an operating profit of \$10.63 per ton on the milling ore, for a gross operating profit on estimated reserves of \$1,364,921. Any improvement in metal prices would, of course find speedy reflection in increased profits.

Construction of camp buildings and houses, increased mill treatment capacity, and a heavy program of underground development, coinciding with a period of falling metal prices, left Sunshine Lardeau in a difficult position as far as financing was concerned. The entry of the powerful Newmont company into the picture, providing adequate capital for all contemplated requirements, assures Sunshine Lardeau of every chance to develop its ore potential. At the same time, under the experienced and competent guidance of the Newmont-Berens River group, it can be expected that maximum production will be achieved without delay and the money-making capabilities of the property will be thoroughly developed, to the advantage of all concerned.

SUNSHINE LARD. ORE AT DEPTH

Sunshine Lardeau Mines, Ltd., has found further high grade ore in the 8-level crosscut, 300 ft. below the previous low horizon of development, according to Percy L. Clark, mine manager.

Mr. Clark states: "No. 8 level after being advanced 480 ft. from the portal was turned to crosscut the ore zone as projected below No. 6 level and diamond drill hole No. 23 intersection. On Oct. 9, the crosscut entered the ore zone exposing high grade stringers of silver-lead-zinc ore. A further advance of 10 ft. exposed 2.5 ft. of high grade ore assaying 0.03 oz. gold and 10.2 ozs. silver per ton with 8.7% lead and 40.2% zinc. Subsequent slashing opened up a further 3.5 ft. of good grade ore assaying 0.02 oz. gold and 9.5 ozs. silver per ton with 3.8% lead and 7.4% zinc.

"An 8-ft. test hole drilled at the limit of the slash and at right angles to the strike and dip, not sampled, indicated a rich, banded ore-structure over the length of the hole. The hangingwall of the zone was apparently not reached.

"Fracturing and mineralization in the carbonated zone at No. 8 level horizon appears stronger than in any of the upper workings."

OPEN GOOD ORE ^{N.M.} SUNSHINE LARD. ^{10/19/52}

Expect Steady Production From Now On—Lowest Level Approaching Ore Zone

In September, Sunshine Lardeau Mines Ltd. shipped eight cars of high grade lead ore and one car of lead concentrate from the company's Spider property at Camborne, B.C., to Trail smelter. Net smelter returns per car of lead ore are expected to average slightly better than \$5,000.

The Sunshine Lardeau mill, temporarily shut while ore passes were being used for shipping ore, has now resumed, and the main ore storage raise is full. Steady production is anticipated from now on. A second car of lead concentrate was shipped October 2.

Raise and sub-level development continues to open ore of better grade than previously expected. Regular sampling of the 614 raise for 75 ft. above No. 6 level has returned average assays of 83.0 ozs. silver, 21.6% lead and 13.2% zinc across average true width of 5.0 ft. This raise is now through to No. 5 level, where 50 ft. of drifting shows an average of 0.25 oz. gold, 93.2 ozs. silver, 28.6% lead and 2.4% zinc across an average width of 4.5 ft.

Sub-Level Progress

Sampling of 624 sub-level over a length of 46 ft. and width of 5.3 ft. showed 75.0 ozs. silver, 27.8% lead and 4.1% zinc. The sub-level has approximately 30 ft. to advance from the last sampled point to reach the corresponding heading of 624 raise, the face of which assayed 92 ozs. silver, 6.9% lead and 33.4% zinc over a width of 5 ft. Final stoping widths in this section of the mine have not been determined.

The crosscut to the main ore zone on the No. 8 level, lowest to date, should reach the orebody within the next few days.

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Lardeau

Sunshine Lardeau Mines, Ltd., has found further high-grade ore in the 8-level crosscut, 300 feet below the previous low horizon of development at its Spider mine near Camborne. Total width of the orebody which was encountered on October 9th is 18 feet. An advance of 10 feet exposed 2.5 feet of ore assaying 0.03 oz. gold, 10.2 ozs. silver per ton, with 8.7 per cent lead and 40.2 per cent zinc; 3.5 feet, assaying 0.02 oz. gold and 9.5 ozs. silver per ton, with 3.8 per cent lead and 7.4 per cent zinc; and 2.5 feet assaying 0.10 oz. gold and 79.94 ozs. silver per ton, with 66.6 per cent lead and 7.9 per cent zinc. This ore is said to be free of oxide and capable of producing good mill recovery. Drifting north and south from the crosscut is now proceeding in high-grade ore in all faces. The company reports production of 9

tons of zinc concentrate and 6 to 7 tons of lead concentrate daily. During September, a company statement reveals, operating profit from production of 378.5 tons of direct shipping ore, 57.7 tons of lead concentrate and 47.34 tons of zinc concentrate, was in excess of \$20,000. Production for October was 320 tons of direct shipping ore, 140 tons of lead concentrate and 125 tons of zinc concentrate on which smelter returns have not been received. With mill heads of 19 to 20 per cent combined lead and zinc, and 14 ozs. silver per ton, recoveries were in the range of 92-95 per cent.

9-3-53

(711) PAGE ELEVEN

OPTIMISTIC MEET SUNS. LARDEAU

Over 300 Shareholders in Attendance — Mill Being Increased to 100 Tons

Present estimates place the production value at the Camborne mine of Sunshine Lardeau Mines, Ltd., at a quarter of a million dollars for the first six months of operation.

This figure was given to an enthusiastic meeting of shareholders in Vancouver on June 27th by R. C. Glen, managing director, who set the tone of the meeting by declaring that "we have one of the finest shows in the province."

The newly-installed 50-ton mill was turned over for the first time on May 17th, 1952, he reported and results since then warrant optimistic forecasts. Production at the end of the first month's operation, including the tuning-up period, amounted to 67.7 tons of lead concentrate and 23.8 tons of zinc concentrate with an approximate value of \$20,000; and two carloads of high grade ore containing 90 tons worth approximately \$16,500.

However he warned that some expenditures, particularly in providing accommodation for the mill and mine crews, are urgently required and would necessitate heavy expenditures. About half of the value of the first six month's production, or approximately \$125,000, will be spent on building a bunkhouse and change room, a cookhouse and houses for the married personnel. The bunkhouse and cookhouse are under construction at the present time and will be completed about the middle of July. The change room will be finished before the end of July. Immediately these units are completed, work will begin on the construction of 12 houses.

This expenditure, Mr. Glen told the shareholders, was a "must", since the welfare of the employees is a primary consideration. He commended the tech-

nical staff and management for the progress made during and since the period of development.

Increase Mill Capacity

Commenting on the potential of the property, Mr. Glen said that at present, work is being concentrated on the Spider mine. Additional flotation machinery will be installed within three weeks which with the proposed installation of a cone crusher, will give the mill a daily capacity of 100 tons. If the property continues to prove up, consideration will be given to the erection of a second mill, but this would necessitate construction of hydro power facilities, the managing director said. Nevertheless, he voiced his opinion that a large operation would be indicated within one year. At the mill, the recovery problem, hampered by high grade ore surges, is being overcome successfully.

The temper of the meeting, which was attended by over 300 shareholders, was reflected in the plans for a "shareholders' day" at the Camborne property. The president, H. E. Bent, said that there had been such a widespread demand for first-hand views of the mine that it had been decided to stage a one-day outing, possibly during the first week in August when the surface buildings would be completed, to allow shareholders to see their mine and mill for themselves. Over 50 shareholders indicated their intention of attending when asked for a show of hands.

KATANGA 1951 OUTPUT

Union Miniere du Haut Katanga recorded the following production during 1951, according to a report from Brussels: 191,959 metric tons of copper (approximately 211,590 short tons), 5,715 metric tons of cobalt (6,300 short tons), 80,000 metric tons (88,180 short tons) zinc content of zinc concentrates (this was for sale — an undetermined tonnage was produced for own use), 24,316 kilos cadmium (53,600 lbs.), 118,046 kilos silver (4,163,900 ozs.), and 14.7 kilos (500 ozs.) gold. Production of uranium and radium ore continued, but no figures are disclosed.

BRIGHT POSSIBILITIES SEEN FOR SUNSHINE LARDEAU

New B.C. Producer Has Rich Silver-Lead-Zinc — First Findings in No. 4 Vein — Suggest Important Expansion Chances — Others Busy in District

Another small but rich silver-lead-zinc producer has been added to British Columbia's growing list of new mines. On May 17th, 1952, the newly installed 50-ton concentrator of Sunshine Lardeau Mines Ltd. at Camborne, B.C., was turned over. The official opening was held on May 24th. The same day, the first 10-ton truckload of high grade silver-lead concentrate was hauled to Beaton and barged to Arrowhead for rail shipment to Trail smelter.

Sunshine Lardeau, a B.C. company, is developing and obtaining production from the Spider group of claims near Camborne, an old mining town in the Lardeau area. At present all work is being concentrated on the Spider property but several other holdings in the same district will receive attention this year.

Sunshine Lardeau is the first of the many highly regarded silver-lead-zinc properties in the Lardeau area of British Columbia to reach production during the

current period of intensified activity in that district. Many other new prospects and former producers are now being explored and developed, with interest in the district greater than for many years. In recognition of the mine-making potential of the Lardeau, this year the B.C. Department of Mines has earmarked a major expenditure for road construction to connect the Lardeau district with Koslo and the Slocan area.

(Continued on Page Twenty-Four)

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A visit to the Sunshine Lardeau property by The Northern Miner provided the impression that this operation has an excellent chance to develop into either a small, but high grade producer or, depending on development results, into a medium tonnage operation with substantial reserves of better than average grade. To date only a limited development program has been carried out by the present company and former operators confined their work to a comparatively small ore occurrence some distance removed from the larger and richer ore zone found last year. In spite of these limitations, a conservative estimate of reasonably assured and probable ore reserves at May 15th showed 80,000 tons averaging 0.0734 oz. gold, 22.29 ozs. silver, 9.75% lead and 8.28% zinc.

In several areas sampled, and particularly in the hangingwall section of No. 4 ore zone over good widths and length exceptionally high assays in silver and lead were obtained. Results obtained in some of the work done to date serve to confirm the high grade character of ore developed. For example, sampling of 25 ft. of the footwall drift on No. 5 level in No. 4 ore zone over an average width of six feet gave average assays of silver, 19.0 ozs.; lead, 11.16%, zinc, 10.6%. Sampling of 50 ft. of the hangingwall drift on No. 5 level in the No. 4 ore zone over an average width of 4.5 ft. gave average assays of 0.257 oz. gold, 93.2 ozs. silver, 28.6% lead, and 2.4% zinc. Sampling of the crosscut intersection and back of the drift on No. 6 level over an ore length of 170 ft. and an average width of 14.9 ft. gave average assays of 0.06 oz. gold, 10.19 ozs. silver, 6.5% lead and 9.3% zinc.

Some Excellent Widths

Orebodies found so far at the Sunshine Lardeau are in two carbonatized zones of massive dark green chloritic schists, 20 to 50 ft. wide and featuring excessive jointing and cross-fracturing. The main ore shoots to date have been opened on the hangingwall and footwall sides of the zones, but crosscutting through the full widths in several places shows encouraging evidences of important mineralization throughout. Further development may demonstrate that in some sections at least the entire zone width may justify mining.

To date, the Sunshine Lardeau property has been partially developed by six adits. Nos. 1 to 6 at elevations ranging from 3,709 ft. to 3,338 ft. The Spider mine was first worked in the early 1920's when high grade silver-lead ore was hand sorted and "rawhided" out to the railhead. This original work was confined to the Nos. 1 and 2 veins in a shear zone of comparatively short extent.

In 1951, the Sunshine Lardeau company drove an exploratory crosscut to the west on the No. 5 level and for the first time intersected what is known as the No. 4 vein or ore zone. Exploration of this new occurrence quickly provided very encouraging results and the new zone soon proved to be of major importance, changing entirely the outlook for the property. Crosscutting through the zone width of 50 ft. showed high grade ore with impressive amounts of massive galena on the hangingwall side over drift widths of five to six feet. On the footwall side of the zone good ore up to 10 ft. in width was opened. The intervening section of the zone showed strong mineralization and could possibly make commercial mill feed. The hangingwall drift has now been extended for a distance of almost 100 ft. in very rich ore. Samples taken at regular intervals indicate that combined metal values at present prices would be \$150

to \$200 per ton over widths of five to six feet. The footwall drift has been extended for 50 ft. and slashing shows ore width of 12 ft. The ore in this drift is of excellent grade, about 20% combined lead and zinc with 20 ozs. silver per ton. To date it appears that the ore on the hangingwall side of the zone carries high lead values while on the footwall more zinc is found.

The No. 6 level, 120 ft. vertically below No. 5, reached the No. 4 ore zone after a crosscut of 140 ft. So far drifting has been confined to the hangingwall side of the zone over a distance of 170 ft. Drift width of 6 ft. shows good ore over this length and crosscutting to the footwall of the zone has revealed ore sections having widths of at least 20 ft. Samples have returned assays averaging about 10 ozs. silver per ton and 15.8% combined lead and zinc. The south face of this drive is still in ore as are both the north and south faces on the No. 5 level.

From the east crosscut on No. 5 level a diamond drill hole at 68 degrees westerly intersected the No. 4 ore zone at 140 ft. vertically below the No. 6 level. The core indicates a zone width of 40 ft. A true width of 5 ft. from the hangingwall side assayed 0.08 oz. gold, 18.6 ozs. silver, 13% lead and 15.4% zinc. With this encouraging indication of the downward persistence of high grade ore, Sunshine Lardeau is now preparing to drive the No. 8 level 250 ft. vertically below No. 6.

Only about 300 ft. of drifting has been done to date on this No. 4 ore zone and depth possibilities have been tested by only one drill hole. The management concurs in the opinion that it is too soon to forecast anything more than presently estimated ore reserves, but their optimism appears to be well justified. Certainly all work done in the past year has produced results far exceeding their best hopes. In any event it can be predicted that the present mill capacity of 50-60

tons will be increased immediately to at least 100 tons per day. The high grade mill feed reaching the concentrator during the first fortnight of operation produced just too much lead concentrate for the limited flotation machine capacity and tailing loss was high. As a result, tonnage treatment rate had to be cut back to about 40 tons until either the mill heads are deliberately lowered or greater capacity is made available.

At May 24th mill heads were estimated as being approximately 18% combined lead and zinc with about 20 ozs. silver and 0.1 oz. gold. During the first run in of the mill, difficulty has been experienced because of high grade surges in the mill feed and because some of the ore coming from the upper levels of the mine was oxidized material. J. M. Currie, consulting metallurgist anticipates no serious difficulty in overcoming these problems.

Staff at Mine

P. L. Clark, formerly manager of Highland-Bell Ltd., is manager of Sunshine Lardeau. His staff includes J. M. Currie, consulting metallurgist; S. W. Allen, mine superintendent; H. L. Bertrand, mill superintendent; K. D. Leavitt, assayer; D. Burns, geologist; J. J. Weiss, accountant; B. Macalister, master mechanic; and A. R. Casford, carpenter foreman.

Sunshine Lardeau Mines Ltd. was incorporated in British Columbia in 1947, with an authorized capitalization of 3,000,000 shares of no par value. Of these, 1,100,000 shares are held in escrow after issue for properties and other services. The remaining 1,900,000 shares are all issued with the exception of 100,000 shares optioned to R. C. Glen of Vancouver, B.C., at \$1 per share, with the option due on or before September 30th, 1952.