

saving by amalgamation, concentration, and cyaniding, the ore having been found amenable to that treatment. As yet the Ymir-Wilcox company has not done much crushing at its mill, but the increase of power is under consideration, with a view to continuous production. The mill plant, compressor, and electric generator have been run by water-power; it is intended to develop the larger power available from the south fork of Wild Horse creek and so make ample provision for requirements of both mine and mill when operations shall be on an extended scale. There is now a transmission line from mill to the compressor in the mine, for power uses, and to mine buildings for lighting purposes. Ore transportation from mine to mill is over aerial tramways, of which there are two. The total value of production by previous owners is estimated at approximately \$90,000; ore now available for extraction is estimated to be of a gross value several times greater than that amount. On an average, 12 men have been employed at this mine; with the operation of the mill and the stoping of ore for milling the working force will be proportionately increased.

The prospective development of the Molybdenite group of mineral claims, situated on the northwestern slope of Lost or Stag-leap mountain, above Lost creek, at a distance by wagon-road and trail of about 15 miles from the town of Salmo, in Nelson mining division, has during recent months attracted much attention throughout the district. There are 7 claims in the group, and the owners Messrs. J. Benson and S. N. Ross of Salmo, and H. Bennett of Nelson, have uncovered molybdenite ore in a number of open cuts along a distance of 1,200 ft., the ore having been traced that distance from well down one side of the mountain, some 600 ft. above Lost creek, up over a shoulder of the mountain and down the northeastern slope. The old Dewdney trail, constructed in the sixties of last century, passes nearby, and considerable development work was done in this neighborhood about 20 years ago, the prospectors of those days having seemingly been in search of gold ore under iron cappings. New York men, stated to be acting for German principals, are negotiating for a bond on this molybdenite property, on which in the largest opening there is a good showing of the metal, in places of high-grade ore and, with as well the metal freely disseminated throughout the rock to a width of 8 ft. The formation in which the ore occurs in approximately 600-ft. wide and specks of the molybdenite may be seen in the rock right across that width, but so far the ore of commercial value has been found only within the restricted limits first above-mentioned. Under the terms of the bond that the owners have agreed to give, a minimum expenditure of \$1,000 a month on development is to be made. Upon acceptance of the bond, those seeking to acquire the property will be required to commence development work without delay.

Last autumn some prospectors found oxidized copper ore and chalcopyrite on Brushy mountain, six miles south of Salmo. The season was then too far advanced for them to do much work on the showing, but as soon as the snow was off the ground in the spring they packed up supplies and are now prospecting the ground.

Another 4-horse team has been obtained for hauling carbonate of lead ore from the H. B. mine, on Deer creek, to Salmo railway station, for shipment thence to the smelting works at Trail. Beyond the H. B., higher up Deer creek, lead ore occurs on the Aspen, a mineral claim on which about \$10,000 has already been spent by Mr. H. M. Billings and partners.

SILVER HOARD MINE, AINSWORTH, B. C.

The Silver Hoard mining company operating near Ainsworth, B. C., is putting in additional plant and preparing to mine and ship ore steadily from its mine situated within four miles from the steamer landing at the Highland mill, near Ainsworth. Cement-concrete foundations are in for an Ingersoll-Rand compressor to have a capacity of 327 cu. ft. of air per min. to be driven by a Canadian General Electric 2,200 volt induction motor. A Jenckes Machine Co.'s 6 x 8 double-cylinder single-drum hoist has already been installed. The machinery will be in use before the end of June. Electric current for operating the compressor will be obtained from the Consolidated Mining and Smelting Co.'s Highland mill, where power is generated for running the machinery of that company's No. 1 mine, situated within three-quarters of a mile of the Silver Hoard. A three-phase transmission line has been constructed from the No. 1 to the Silver Hoard mine, and a telephone wire is strung on the poles of that line. Current for electric lighting of all mine buildings at the Silver Hoard has already been arranged for.

Development work has been continued all through the winter in the Silver Hoard. Forty cars of ore—approximately 1,400 tons—has been mined from on and above the 100-ft. level, chiefly in the course of development. This ore is stated to have averaged 46.7 oz. silver to the ton, 4 per cent. lead, and 9 per cent. zinc. Milling ore mined in addition to that suitable for shipping crude to the smelter is stored on the dumps awaiting the provision of concentrating facilities. Ore is hauled in wagons to the head of the No. 1 mine aerial tramway and conveyed thence over the tram down to the shipping bins at the lakeside.

Development work is being continued on No. 1 level, by drifting north and south on the big lead occurring here. Similar work is in progress on the 200-ft. level, and the lode is being crosscut as well. Some 53 ft. has already been crosscut without the limits of the orebody having been reached. There are in this big lode three separate shoots of ore of shipping grade—one on the footwall side, a second shoot about 30 ft. from the footwall and a third on the hangingwall side. The last-mentioned varies in width from 2 to 4 ft. The centre shoot is of carbonate ore, while the others are sulphide in a gangue chiefly of quartz. It is not yet intended to open stopes, but to restrict shipments to ore taken out in the course of development.

Ore cars of 16 cu. ft. capacity will be run in the incline shaft on a track with 10-lb. rails. Steel of similar weight is to be laid in main drifts and crosscuts, while in laterals, 12 or 8-lb. will be used. Fifteen men are employed and when the plant is installed two shifts will be worked. It is planned to continue development down to the 600-ft. level, on the slope of the mountain below which is the mill-site, so that all ore will be dropped down on a gravity system.

There are five mineral claims in the Silver Hoard group, all surveyed, and comprising 205 acres, parts of the property are heavily timbered with fine trees—fir, cedar, tamarack, white pine, hemlock, and spruce. A sawmill has been put in to cut lumber for mine buildings and timbering; its capacity is 5000 ft. a day. Buildings are substantially constructed and provide accommodation for 40 men; they include superintendent's cabin, mine and assay offices, bunk and boarding houses, barn, etc. All are lighted by electricity and are supplied with running water. The north fork of Cedar creek crosses the property; its minimum flow is estimated at about 100 h. p.