

mountain. That shoot was 300 feet in length, and confidence is felt that it will also be found in No. 8, and of similar length.

Surprise.—The work of making the long raise from the 1,100-ft. level of the Surprise through to the bottom of the old workings, a distance of about 830 feet, approaches completion. It is expected connection will be made about the end of the year, after which work will probably be suspended until next spring, conditions being unfavourable for getting in supplies in the depth of winter. This raise is the longest in the Slocan district, and the work of making it has been tedious and extended over a lengthy period. However, Mr. Alex. Smith, who has persisted, notwithstanding that he has had many discouraging experiences in carrying on the work, has the satisfaction of knowing that the raise has passed through the best shoot of ore yet opened in this mine, and one that promises to give him and his partner good returns after the requisite provision for ventilation shall have been made. The deep level from which the raise has been made is an extension of one of the Last Chance tunnels, which was driven first in Last Chance ground, then through part of the Noble Five group property, and finally into the Surprise.

Noble Five Group.—An intended visit to the Noble Five was not made, owing to a heavy snowfall having taken place on the day the walk from Sandon was to have been undertaken. However, this much was ascertained two months ago, namely, that development work on the Deadman claim of the Noble Five group had resulted in the discovery of a shoot of silver-lead ore of excellent grade, not previously opened, and of a body of clean zinc ore of a percentage high enough to allow of this ore being shipped crude to the smeltery. It would appear, therefore, that in common with other mines in Cody camp, the Noble Five may be expected to again become a producer on a comparatively important scale.

THE RAMBLER-CARIBOO GROUP.

There have been between 40 and 50 men working all the summer and autumn on the property of the Rambler-Cariboo Mines, Ltd., situated in McGuigan Basin, which used to have its outlet at a point on the Kaslo & Slocan Railway, about equidistant between Whitewater and Sandon. Developments in the Rambler-Cariboo mine in recent years have done much to restore confidence in the mining industry of the Slocan district and to encourage mine-owners to undertake deep-level exploration. Since the big adit—it is nearly seven-eighths of a mile in length—was driven five or six years ago, and the old workings thereby drained, much development work has been done below the 800-ft. level, which was the lowest in the mine prior to driving the 1,400-ft. level. Gradually the downward continuation of the ore shoots has been demonstrated, until now it has been proved that the highest-grade ore yet found in quantity in the mine occurs on the 1,200-ft. level. Three ore shoots have been opened in the vein on this level, which has been driven 450 feet south from the main raise. The shipping ore in the first of these does not occur to as large a width as that in the second. The vein is big, in places up to 10 feet between the walls, but the ore in the first shoot is not nearly so wide as in the second, in the former ranging from 8 inches to 2 feet, while in the latter it runs from 1 foot to 5 feet of clean ore, with 2 to 3 feet of milling ore as well. No stoping has yet been done on either the 900 or 1,200-ft. level, but about 10 feet of ore has been stoped on the 1,000-ft. level. Shipment of ore

to the smeltery has been delayed by the state of the wagon road to Three Forks, the upper part having latterly been a snow road and the lower only suitable for hauling on wheels. Now that snow has fallen low down the valley ore-hauling to the railway will be undertaken. If the weather proves favourable for teaming, some 150 to 200 tons of first-class ore will, it is expected, be shipped to Trail during the latter half of November and in December. When the mine was visited on November 11, there was 50 to 60 tons of ore in the ore-house waiting for the snow to fall to allow of shipment. The erection of an aerial tramway down to the railway, and the building of a new concentrating mill alongside the track will be undertaken next spring. The machinery and equipment of the old mill will be used in the new building, for which purpose it will be taken from the old mill building, situated high up the mountain, to the new mill site, on Seaton Creek, at a distance of about 6,700 feet down the mountain side from the portal of the 1,400-ft. adit level.

Extension Group.—The Rambler-Cariboo Extension property consists of a small group of claims situated in the vicinity of the Rambler-Cariboo group. These were formerly known as the Adams claims. They are being developed from the main adit of the Rambler-Cariboo, from which a drift has been run on a vein cut by that level. Work was commenced by the Extension Company on October 1. It is intended to drift right through the property. The drift at this level will give a depth of about 550 feet.

Rio.—The Rio is at the head of the McGuigan Basin, about a mile from the old Rambler-Cariboo mill. The vein was cut by a cross-cut tunnel at 480 feet from its portal. Two shoots of ore have been found in the drift, but this level will have to be extended about 100 feet before it will be under the big showing occurring 150 feet above. Work is to be continued throughout the winter, for which purpose the necessary machinery has been taken up to the mine.

The Washington, situated on the Payne Mountain side of the basin, was worked by a few men during the first half of the year, but not latterly.

LUCKY JIM ZINC MINES.

No. 6 level of the Lucky Jim mine, near Bear Lake, Slocan, has been driven 1,134 feet. At 1,009 feet from the portal the lime dike was entered, but no zinc has yet been cut on this level in the lime, although the tunnel was advanced 125 feet in this rock. Drifting on the footwall of the lime dike is now being proceeded with, the expectation being that the ore will be found along this side of the dike. Two shifts of men are at work, and about 4 feet per day is being driven.

There is much ore available for stoping above No. 5 level, but none will be extracted until after the provision of railway transportation facilities, now in hand by the construction by the C. P. R. of a spur from the Nakusp and Slocan Railway, leaving this line at a point about one mile above Three Forks. Much of the grading has already been done, and Camp No. 3, within a mile of the Lucky Jim mine, is being established.

IN WHITEWATER CAMP.

Notwithstanding that in the summer of 1910 forest fire destroyed the concentrating mill at the Whitewater mine, and much else of the surface plant and buildings, Mr. John L. Retallack and his associates in this mining