

dence, Elkhorn and E. P. U. continued to ship ore, and by development work, made it evident that their rich quartz veins go down, there is not much to state. The output of these three mines was about 1,400 tons. The ore carried values from \$50 to \$100 per ton in carload lots. A discovery was made a few weeks ago on the Providence of ore close to the surface, and this lead was stripped along a distance of about 215 feet. It is thought by some to be an extension of the vein that has been during two years past followed down on its incline for 300 f. It is probable that a drift 270 ft. into the hill will connect the new find with the present 300-ft. level.

Among the claims near Greenwood that have been purchased, leased or taken on working bonds during the year are the Strathmore, Barbara, Helen, Last Chance, Skylark, Goldfinch, Day, Silver Cloud, Silver King, Hope No. 2, and others. Only passing mention can be made of these, there being too many of them to admit of details being given. The Strathmore is near the Providence; several years ago ore was shipped from it that gave high assay returns; now it is being opened up by a company composed of Rosland and Boundary men, who expect to start stopping early in the new year. The Barbara, which is within a few hundred yards of the business portion of Greenwood, was bought outright by a Chicago syndicate. A shaft has been sunk 125 ft. on the incline and drifts have been run about 100 ft. The vein varies from 8 to 30 in. in width, the average being about 14 in. Some 20 tons of ore, taken out in development, gave assay returns between \$35 and \$50. The ore carries galena, silver and a little free gold. The Helen, at Anaconda, is held by a local syndicate. About 175 ft. of sinking and 80 ft. of drifting have been done. The ore is rich in places, but not much has been shipped lately, only about 20 tons, which went \$58 per ton. The Last Chance, in Skylark camp, has commenced to make small shipments of high-grade ore, as too, has the Skylark.

#### WEST FORK OF KETTLE RIVER.

Development of this district has been slow owing to the absence of transportation. In 1904, however, there was more work done than for several previous years.

On Wallace mountain, the Sally claim last winter and spring shipped three carloads of ore to Midway by sleighs. The ore was galena and grey copper and contained much native silver. The values averaged more than \$100 a ton, one car running over \$125. A lot of second-class ore was also got out, but this cannot be shipped under the existing conditions, freight and treatment costs amounting to nearly \$30 per ton. Five men are at present engaged in development, and more will be put on as soon as sufficient snow falls to admit of shipment of ore.

The Wellington, also on Wallace mountain, has lately been leased and three men are now at work on it. The ledge is an extension of that on which the work has been done on the Sully. There is a good showing of ore in the face of a drift at the 40-ft. level. On an adjoining fraction about 100 ft. of tunneling has been run to cross-cut a strong ledge of high-grade ore showing on the surface.

On the Bounty, a tunnel driven 100 ft. taps the ledge. This property will also ship this winter, the ore being high-grade.

On the Gold Drop fraction a tunnel is in about 20 ft. The ore on this claim carries good values in gold. A lot of work has also been done on the Gold Drop, on which there is a high-grade silver ledge.

On the Napance group, situated about two miles from Wallace mountain, several men were at work all last summer. Two ledges have been opened up, and the ore assays up to \$40 per ton in gold, which is associated with arsenical iron.

On the Curry group, on Curry creek, more than 100 ft. of work was done in 1904 and several ledges were worked on. On Beaver creek some claims in St. John camp also had considerable development work done on them. This is a copper-gold camp, with large bodies of low-grade ore. The results of the work have been very promising.

There has also been a great deal of assessment work done throughout the district.

*Carmi.*—A small test mill with two Fremayne stamps and an Overstrom table were installed at this mine last year. Lately five more stamps were installed. The mine had not been worked for some time, but it was known to have a good grade of ore, for between 800 and 900 tons were shipped to a Boundary smelter, and its value in bulk ascertained. The experiments now being made to concentrate the ore are for the purpose of lessening the heavy cost of the 50-mile haul to the railway at Midway. The extraction obtained is 87 per cent, of which 30 per cent is by amalgamation. The concentration is 6 to 1. Water will be brought in next spring for power purposes and additional plant installed.

*Butcher Boy.*—This claim is the extension of the Carmi on the west. A shaft has been sunk 75 feet with drifts at 45 and 70-ft. levels. The ore is free-milling and concentrating. About 50 tons were taken out lately and of this quantity some 20 tons will be shipped. Values range from \$50 to \$100. A small mill may be put in next spring.

*Observatory Group.*—There is a small high-grade silver ledge on this property, from which two or three cars will probably be shipped this winter. Numbers of other claims in the Carmi camp have promising showings and some of these are being prospected.

#### ABOUT GRAND FORKS.

The Betts and Hesperus group, owned by the Hesperus Gold and Copper Mines, of Chicago, was worked throughout 1904. The company purchased the Lancaster and Chicago fraction claims, which adjoin the Hesperus. No. 2 tunnel was extended, the intention being to continue driving this until a total length of about 600-ft. shall have been reached. A wagon road was constructed a mile and a quarter, from the mine down to the branch railway the Great Northern Railway company built during the year to Phoenix.

The Marquette, Michigan, syndicate that in the latter part of 1903 and beginning of 1904 was prospecting the Volcanic with a diamond drill ceased work and did not take up its bond, the reported reason being that the property was found to be more encumbered financially than had been represented, and there did not appear to be any certainty as to the actual extent of the obligations that would have to be assumed if it were taken over.

Negotiations were in progress late in the year for resuming work on the Golden Eagle, a high-grade gold-copper property situated near Volcanic mountain. Shipments made two or three years ago showed this property to be a valuable one, but capital for its further development has not hitherto been available.

#### FRANKLIN CAMP.

This camp is situated up the North Fork of Kettle river, between 40 and 50 miles above Grand Forks. There are a number of promising mineral claims in the camp—among them the McKinley and Gloster groups and the Banner. The McKinley is owned by the McKinley Mines, Ltd., a local company to be shortly incorporated. On its four claims there are five known ledges. The main work done is on the McKinley claim, near the centre of which an open cut has been run 80 feet across a big body of ore, the values in which are in copper, gold and silver, these being contained in an iron gangue. Assays as high as \$15 have been obtained, but the average is \$8. The open cut mentioned is 40 ft. wide and 30 ft. deep, all in ore. Another cut, 150 ft. higher up the hill, has exposed ore of higher grade. This cut shows a breast of about 30 ft. of ore. Much other prospecting work has been done, exposing considerable ore in several other places. Buildings have been erected on the property and good trails made.

A shaft on the Gloster is 55 ft. deep, in ore giving good values in copper, gold and silver. A tunnel is being driven to come under the shaft at a depth of about 150 ft. On the Banner there is an excellent showing of galena, which gives average assay values of \$67. A tunnel has been driven 180 ft on this claim. There are other claims with big surface