

surface, under which are sulphides. It is opened by a cut 200 feet long and 6 or 8 feet deep. At one time the Walkers had it optioned to Messrs. Malley and Cole of Carson, Nevada.

Panaca-Caliente-Delamar.

A short stop was made at Panaca on June 6, en route to Caliente. Mr. C. P. Ronnow donated a lump of calcite for the mineralogical collections being prepared for Nevada high schools.

At Caliente Mr. E. C. D. Marriage, editor of the Caliente Herald told of 8 feet of gold ore assaying \$19.30 per ton at the Easter Mine near the Dula Ranch south of Caliente, and of the china-clay mine, closed down only two weeks before. For 8 or 9 years this mine had been shipping 10 to 25 carloads yearly, first to Los Angeles, and later to the American Clay Company at Burbank.

On June 7, Mr. Marriage accompanied us to Delamar, where it was said plans were under way to re-cyanide the old mill tailings. As yet this prospective operation is small. Four or five men are at work preparing the ground for the construction of a small tailings plant.

The Horn brothers, old time residents of Delamar, are doing a little mining and development on the April Fool vein of the Delamar mine, from which they have shipped some ore.

A few hundred feet east of the April Fool vein, which was an important producer in the balmy days of Delamar, is a large parallel vein known as the Jumbo. Because of low surface values this vein has been explored in but one place, by a 50 foot shaft sunk in recent years, from which milling grade assays were obtained, according to Horn Brothers.

A careful geological study should be made of this old district, particularly with reference to the Jumbo vein. For many years the Delamar Mill was kept running at a profit on ore which ranged from \$4. to \$9. in gold value, notwithstanding the isolated desert location and numerous difficult natural conditions. Although the Delamar vein was worked to the 1600 foot level, by far the greater part of the more than a million tons came from above the 1000 foot level, above the main working tunnel, and all ore was produced from above the water level. The great glory hole, 500 feet in diameter, at the intersection of the Delamar and Hog Pen veins, produced vast amounts of ore only about \$5. per ton in value. The ease with which the ore can be treated by cyanide would make a large low grade gold discovery attractive, and the possibilities in that direction do not seem to have been exhausted in the district.

Returning to Caliente, our limited schedule prevented visits to Messrs. Lawrence & Burt's Gold Chief Mine, said to be shipping gold ore; to Camp Bradshaw, (old Viola District) now mining lead, zinc and barite, 14 miles from Carp on the M.P.R.R.; to State Line, (Fay or Gold Springs District) where Senator Burt has acquired new claims, and is said to have opened up \$9. gold ore and has Salt Lake capital investigating his holdings; or the Burt and Mathews Caliente-Cobalt Mine, north of Caliente. The district is as active as present conditions permit, and it is alive with mineral potentialities. We drove on to Pioche that night, and plan a longer stay on our next trip.