## MINING LOG OF NORTHERN NEVADA TRIP



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by

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## AUGUST 6. Spring City Mine

This is an old silver mine about 9 miles from Paradise Valley, (see Lincoln, p. 101). This old mine long held by W. J. Bell, was relocated in recent years by Gus Rogers, who is now reopening it, along with a "few partners from Oregon in a close organization." Mr. C. A. McGee, who handles the office work, is one of these partners, as is also a Mr. Rowland, who does the trucking.

Mr. Rogers, an energetic practical miner, has built a 60-ton flotation plant through which he is now running waste dumps and at the same time opening up the mine and searching for ore. He plans to complete the milling of the dumps by October and then close the mill until spring when he expects to treat old fills, pillars, and any newly discovered ore.

In our driving the two miles of rough road up the canyon to the mines, we crossed the tailings stream 20 times! Away out on the flat we could see the bold outcrop of a large quartz vein that led us to the mine as it did the prospectors in the '70s.

The old timers mined two strong quartz fissure veins in slate, having a N. 10° strike and a steep dip to the west, that are a few hundred feet apart. The east vein is now called the "Paradise" vein, and the west is the Wild Goose Vein. As in the case of most veins in shale the walls are quite irregular with much swelling and pinching, and with quartz extending back into the walls on cross fractures and bedding.

The quartz is a block white quartz, and carrying pyrite as well as iron oxides close to the surface. (See museum sample). The ore carries silver in the ration of 100 to 1 of gold with practically no base metals.

Both veins were opened by tunnels, with deep winzes below the lowest tunnels. Large ore shoots were mined mostly as open stopes, that today are still open though many stulls have rotted awy in the fifty years gone by. Mr. Rogers is drilling in the walls and on cross fractures in search of ore with some success. He is pumping water for his mill from the deepest winze to open the lowest levels. I was very favorably impressed with his operations and his possibilities of finding new ore. A striking point is that the ore bearing veins practically pinch out at the surface or are covered, while the barren veins outcrop boldly!

For drilling, an old Buick engine in low gear directly drives a Schram vertical compressor, with an air regulator on the gas engine feed.

The dump ores on a steep hillside, are scraped down to a loading bin by a scraper hoist powered thru a d.c. motor thru an old auto gear transmission.

It is trammed 800 feet to a chute, and trammed 400 feet again to the mill.

Two men at \$5.00 and one at \$4.00 deliver 60 tons a day to the mill, at a labor cost of under 25¢ a ton.

The main power plant at the mill is a 75 kW. 200 d. c. electric generator driven both (a) directly by an 80 HP. 300 r.p.m. style vertical F.M. 4 cylinder deisel, and (b) by V belt from the new style F.M. 40 HP. 1200 r.p.m. deisel. The space in the mill occupied by the old 80 HP. vertical is about 540 cu. ft. while for the new 40 HP. it is but 72 cu. ft. The marine mechanic praised the new model very highly for its superior operation.

The mill is a great assortment of second hand units kept running steadily by energetic men, even to having a gyrating gear sent by airplane from Milwaukee'.