

N. Nevada Field Trip
(1932) A. M. Smith +
C. Stoddard

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Item 11

Lynn Big Six Mine

The principal lode gold mine in the district is the Lynn Big Six, now owned by the Trinity Mining Company, H. M. Gilbert, Mgr., address Winnemucca, Nevada. The mine is leased to Clyde Herbert, formerly an employee.

There are two or more veins on the property. The principal vein is from 3' to 10' wide, and is developed by a 2,000-foot tunnel and 200' inclined shaft. The average grade of ore now being milled is stated to be \$10. All vein material is being milled, although it contains considerable waste. The ore is both quartz and altered and silicified rhyolite, a large percentage of it being quite granular and soft.

The mill is of unusual design. After passing a rockbreaker the ore is ground on a large flat die by two reciprocating mullers each weighing 1000 lbs. The mullers are directly connected with 16 inch cranks to drive wheels, and move back and forth with a slightly rocking motion through a 32 inch stroke. Wet crushing with inside amalgamation is used, also plates outside of the mill. The capacity is said to be about 1 ton per hour. The mill contains Horne slime tables not being used at present. The mill is powered by a Fairbanks Morse 25 h.p. semi-Deisel oil engine.

A Gould triplex pump delivers the water 3 times a week to storage tanks above the mill. The lift is 600 feet vertically, and the distance one mile, to springs located in the lower end of Lynn Canyon. At the mill the tailings are dewatered by a large Dorr thickner, and impounded in a reservoir, the water being returned to the mill.

Fig. 13. Mine dump, mill and tailings pond, Lynn Big Six Mine, Lynn, Nevada.

The tailings are said to contain from \$2. to \$3. per ton in gold. As yet



Fig 13

Fig. 13. Mine dump, mill and tailings pond, Lynn Big Six Mine, Lynn, Nevada.

Lynn Big ~~Mix~~ Mine, continued.

no attempt has been made to cyanide them, because of opposition of local cattlemen to having cyanide tailing dumped into Lynn Creek.

Cyanide tests were made by A. J. Woolf, Metallurgical Engineer, U. S. Bureau of Mines, Reno Station, March, 1925, on a sample of ore from this mine. The heads assayed .88 oz. gold. At minus 60 mesh --a large proportion probably minus 100 mesh-- an extraction of 96 to 98 per cent was obtained, with cyanide loss of .6 to 1.05 lb. per ton of ore treated. The gold was reported readily recoverable either by straight cyanide, or by combined amalgamation and cyanide treatment.

Copper, Pine Valley, Eureka County.

Eureka County

Pete Orbe, herein mentioned as one of the early owners of the Bulldog placer mine on Lynn Creek, and who was at this date working as a miner at the Maggie Creek barite mine of the American Development Company, stated that he was one of the owners of a large porphyry copper property located in Pine Valley, 5 miles west of Eureka Ranch, and 25 miles from Palisade, Eureka County, near Hale's Crossing on the Eureka Northern Railroad. Associated with him are A. L. Beardsley, 4284 Rosewood Avenue, Los Angeles, and one McHugh of New York, and others.

Orbe stated that there was much monzonite, and that chalcopyrite occurred at the surface, over an area 1 mile wide by 4 miles long. On this area they had located 34 mining claims. About \$5000 worth of mining had been done, including a 90-foot shaft, a 150-foot tunnel, some cuts and pits and 3 miles of roads. Orbe would like to interest some one in it.