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by Joe Tingley March 1980

Horseshoe-Bonanza Claims (Turquoise)
Bullion Mining District
Lander County, Nevada
Location, Land Status

The Horseshoe-Bonanza claim group, consisting of 55 unpatented lode claims, is located in portions of Sections 2, 3, 10, 11, 15, and 16, Township 27 North, Range 46E, Lander County, Nevada. The claims cover the lower western slopes of Squaw Butte, a topographic landmark in the northern Shoshone Range south of the old gold camp of Gold Acres.

The claims making up the property, are in the names of Robert Leighton, P.O. Box 22, Cortez, Colorado, Louis Gower, and D. C. Tate (G.T.L. Mining Co.). The property consists of Horseshoe Claims 1-3, located Oct. 10, 1972, Horseshoe 4-6, located June 20, 1973, Bonanza 1-6, located Oct. 10, 1972, Bonanza 7-30, located June 20, 1973, Bonanza 31-37, located Jan. 25, 1974, Bonanza 38-46, located June 11, 1974, and Bonanza 47-49, located Oct. 18, 1979. Assessment work for 1979 was filed on August 17, 1979, and consisted of "work of geologist", and "sampling". The 1979 proof of labor statement shows the work was performed by Robert Leighton and Robert Smith, witnesses were Mary Winship and Garth Davis. Records show that most of the Bonanza location certificates were recorded at the request of the Notah Dineh Trading Company.

There are apparently three additional claims related to the claim group (Blue Bonnet 1, 2, 3) which are not shown on the map. These claims may lie to the east of the main claim group, and cover the area of the adit, west of Pit 1.

Geologic Setting, Mineralization

Rocks exposed on the western flank of Squaw Butte consist of the
Ordovician Valmy Formation and Silurian Elder Sandstone. Both of these units
lie in the upper plate of the Roberts Mountains thrust sheet. The area is
structurally complex and both units are complexly folded and are cut by
imbricate thrust faults. Most rocks exposed in cuts and pits within
the claim group are argillically altered, and consist of resistant chert
bands, alternating with bands of white clay and bleached, silicified shale.
This alteration may be due to the intrusion of small bodies of quartz latite
similar to the cropping out north of the claim area.

Turquoise occurs as small nodules and pods in argillized rocks along fault zones. All of the thin seams and pods seem were very pale blue to green, and were chalky in appearance. Published descriptions of turquoise mined from other properties in the district indicates some good quality spider web turquoise has been produced from the area (Stager, p. 75).

Mining on the property was done by open pits and cuts, and the product must have been hand sorted at each pit. With the exception of faint stains and "paint" on some fracture surfaces and small chalky pods along fault zones very little evidence of turquoise was seen within the limits of the property. There apparently has been no mining on the property for one or two years.

Economic Potential

The Horseshoe-Bonanza property has little apparent economic potential. Should the turquoise market improve, there will, no doubt, be additional turquoise mined from the property. It is felt, however, that this activity will be very small scale. The general geology of the property, in the upper plate of the Roberts Mountains thrust and the alteration, argillization

with some jasper, limonite, and hematite occurring along faults, are both somewhat favorable settings for disseminated (Carlin-type) gold deposits. Favorable host rocks for this type of occurrence would be below the main thrust contact, and may be at excessive depths below surface.

It is felt that the economic potential of the property would not be worth the annual expenditure necessary to maintain the claim group.

References

- 1. Morrissey, Frank R. (1968) Turquoise Deposits of Nevada, NBMG Report 17.
- Stager, Harold K. (1977) Geology and Mineral Deposits of Lander Co., Nevada, Part II, Mineral Deposits, NBMG Bulletin 88.



View toward the northeast, showing Adit area (left), Pit] (right), and Squaw Butte (in background)



Pit 1, looking northeast



Adit northwest of Pit 1, looking north-northeast



Pit 2 (deep shadow), Pit 3 (sunlight), looking northeast



Pit 2 (dumps at left), Pit 3 (center), looking north-northeast



Bench face, Pit 2, showing highly folded Valmy formation



View to southwest from Section 2 through claims in Sections 10 and 11



Limonite-hematite gossan in argillized rock along fault zone, Pit 2

Continuation of fault zone
in upper bench of Pit 2,
small turquoise nodules occur
in and along the fault
(near rock pick)



