

1800 0048
PROPERTY NAME: Mizpah Mine
OTHER NAMES: Austrian Mine, Gold Dyke, Gold Point
MINERAL COMMODITY(IES): Silver/gold
TYPE OF DEPOSIT: Epithermal veins

ACCESSIBILITY: Main adit in Mizpah Canyon at 5700 ft. elevation, shaft is 200 feet above canyon floor.

OWNERSHIP:

PRODUCTION: Exact amount is not known

HISTORY: Discovered in 1906 by Otto Steinheimer and brother, sold to Kennedy of Reno for \$50,000 who organized Mizpah Mine Co., worked until 1911. Later sold to Henry Bartell.

DEVELOPMENT: An upper 70-foot deep shaft connecting with 5 lower levels totaling about 1600 feet of workings. The main adit at the bottom of the canyon is the fourth level. See sketch map.

ACTIVITY AT TIME OF EXAMINATION: None

County: Churchill ⁷ Item 56
Mining District: Fairview
AMS Sheet: Reno
Quad Sheet: Bell Canyon 7-1/2'

Sec. 28, T 16N, R 34E

Coordinate (UTM):

North 4 3 4 0 3 0 0 m
East 0 3 9 7 8 6 0 m
Zone +11

GEOLOGY: The host rocks at the mine are dominately ash-flow tuffs and rhyolite that have been silicified, and locally brecciated and kaolinized along numerous fractures and within and along the margin of the veins. The principal vein strikes about east-west and dips variously between 60 and 75 degrees to the south. It varies in thickness from 4 to 20 feet and is reported to have averaged 6 feet. Numerous slicks present along the exposed portions of the vein attest to the post-vein movement. The workings have opened the vein to a depth of 265 feet, on five levels. Schrader (1947) described the vein as "consisting of mainly hard, white quartz, mostly formed by replacement, and of silicified, brecciated rhyolite with part of it resembling a replaced, brecciated dike. It is locally vuggy. A considerable portion of the vein an ore shows the peculiar structure of quartz and adularia replacement gangue, pseudomorphic after calcite". At the time Schrader visited the mine in 1916, all of the workings above the main adit or fourth level were accessible but only the fourth level was open during our visit. He described the 4th level and the "Manganese" winze sunk below it where "the ore contains considerable pyrolusite and wad. A manganese zone 5 to 20 feet wide contains \$12 or in place". Our sample 3981 was from the dump in the canyon and included ore from all levels of the mine not just the 4th level. The sample consisted of quartz/adularia breccia, silicified rhyolite breccia and vein quartz containing silver sulfides. Sample 3982 was from a stope to the east of the main adit that was open to the surface and consisted of volcanic breccia, vuggy quartz, pyrite and kaolinized gouge. Sample 3983 was from the big stope in the main adit and consisted of brecciated volcanics. Sample 3984 was from the western stope. Sample 3985 was from the vein in the winze. Sample 3828 was from the dumps of upper shaft. The mine is mislabeled on the Bell Canyon 7-1/2' map. The location shown on the map as the Mizpah Mine is in fact the Jelinek or Big Ledge Mine. About .4 of a mile due north of that location is Mizpah Canyon and the adit in the bottom of the canyon is the fourth level or main adit to the Mizpah Mine.

REMARKS:

	North	East
Sample number 3828	4340420	0397870
3981	4340300	0397860
3982	4340300	0397860
3983	4340300	0397860
3984	4340300	0397860
3895	4340300	0397860

REFERENCES:

EXAMINER: Jack Quade

DATE VISITED: 9/11/86 &
10/19/86