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(3) Dem 17

PROPERTY NAME: Chalk Mountain lead-silver mines

OTHER NAMES:

MINERAL COMMODITY(IES): Lead/silver

TYPE OF DEPOSIT: Replacement

ACCESSIBILITY: Good road from the south

OWNERSHIP: Chalk Mountain Associates, P.O. Box 3232 Reno, Nevada 89504

PRODUCTION: Began in 1923, through 1943 totaled about $250K

HISTORY: The mine began operations in 1921 with the best production between 1923 and 1927, was worked intermittently until 1980.

County: Churchill

Mining District: Chalk Mtn.

AMS Sheet: Reno

Quad Sheet: West Gate 7-1/2'

Sec. 23, T 17N, R 34E

Coordinate (UTM):

North 4 3 5 2 5 8 0 m

East 0 4 0 3 7 9 0 m

Zone +11

DEVELOPMENT: The mine was developed by a 40-foot shaft, two 110-foot shafts, and one double-campartment, vertical shaft 517 feet deep with lateral work on 6 levels. Total workings, about 5000 feet.

ACTIVITY AT TIME OF EXAMINATION: None, last crew was reported to be at the mine in 1980.

GEOLOGY: The workings are developed on a northeast-trending structure with irregular dips to the east that follow the east side of Chalk Mountain. The deposits occur as veins and as replacement bodies along fractures and preferred bedding in the limestone. The deposits were reported to be highly oxidized and sufficiently rich in iron to make them desirable for smelting. The ore is porous and covered with iron oxides, mostly reddish hematite. Some calcite, occassional yellow wulfenite, and yellow oxides of lead are present. The dumps have almost no visable sulfides such as argentite, galena etc., although these minerals were reported to be common. The ore bodies were reported to have been enriched by leaching and secondary enrichment; some of the veins were reported to have been as much as ten feet wide. It was reported that attempts to re-enter the deep workings after 1954 were halted because of a large and continuous flow of water that occurred along the fault zone after the 1954 Fairview earthquake. Sample 3880, taken from the dumps associated with the larger workings, assayed 500 ppm silver, 3000 ppm arsenic, 100 ppm bismuth, 300 ppm cadmium, 500 ppm copper, 500 ppm molybdenum, over 20,000 ppm lead, 300 ppm antimony, 1000 ppm vanadium, 1000 ppm zinc, and 1.4 ppm gold.

REMARKS:

REFERENCES:

EXAMINER: Jack Quade

DATE VISITED: 9/23/86