

0280 0016

PROPERTY NAME: Relief Canyon

OTHER NAMES: _____

MINERAL COMMODITY(IES): Au, Ag, Hg, FluoriteTYPE OF DEPOSIT: Disseminated, sediment hosted AuACCESSIBILITY: ExcellentOWNERSHIP: Lacana Co.PRODUCTION: Fall, 1984HISTORY: First worked as fluorite property, Acquired as limestone prospect in 1970's. Leased to Duval who discovered Au mineralization, sold to Lacana who developed mine in 1982-84.County: PershingMining District: Antelope SpringsAMS Sheet: LovelockQuad Sheet: Buffalo Mt.Sec. 16, 17, 20, T 27N, R 34E
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Coordinate (UTM):

North 4 4 5 1 9 0 0 mEast 0 4 0 0 5 0 0 m

Zone _____

DEVELOPMENT: Open pit Au, heap leach pads - well ponds, mine buildings.ACTIVITY AT TIME OF EXAMINATION: Mining and stripping ore body.

GEOLOGY: Ore body occurs in carbonate breccia in upper part of Natchez Pass Limestone. Some ore in basal shales of Grass Valley Fm. Ore zone is part of anticline that trends NW and is locally overturned to north. Alteration includes silicification and introduction of sulfides and fluorite. Ore is largely oxidized. Carbonate breccia is considered to be a debris flow by Lacana geologists, a thrust breccia by S.P. geologists.

Ore zone variable in thickness reaches about 100 feet maximum. Good outcrops of jasperoid on surface and exposed in benches.

Geochemically has anomalous arsenic, low values of antimony, anomalous mercury, abundant fluorite, anomalous barium, cobalt and nickel. Base metals are low. Cu ~ 20 ppm, lead to 200 ppm, zinc to 200 ppm.

Ore zone continues to east and west, but depth of overburden becomes too great for economic recovery of Au.

REMARKS: Samples 2551, 52, and 53. Photos to 32.REFERENCES: Papke, 1979.EXAMINER: H.F. Bonham Jr.DATE VISITED: 9-13-84