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The Comet mine is on the west side of the Highland Range 9

(166) Hem 16

miles southwest of Pioche, in sec. 5, T. 1 S., R. 66 E. (unsurveyed).

Wolfrenite accompanies galana, sphalerite, pyrite, and plumbojarosite in a steeply dipping quarts vain enclosed in Prospect Mountain quarts—ite. The wein is 1 to 6 feet wide, and was explored by a shaft and drifts to a depth of 500 feet and laterally for 1,400 feet. A little

tungsten concentrate was produced in 1916, and again in 1940 and 1942.

The total yield probably was about 350 units of WOz. Three other veins nearby also contain wolfranite, but they have not been explored.

Memorandum to T. B. Molant

Comet Mine Lincoln County, Mevada .

Mr. David Gemaill and I visited the Comet Mine t he afternoon of November 25th. The Comet Mine may be reached by travelling 18 miles on a fair graded road Morth-westwar d from US highway 93 m t the Fanaca Dunction between Caliente and Fioche. The mine is on the west flank of the Highland Hange approximately 6 miles West of Fioche. Most of the following information is from Mr. Gemaill.

Production-History

During the last war an unknown amount (a number of carloads) of tungsten concentrates were produced from the Comet Mine (Tungsten Comet Mining Co.). From 197h to sometime in the 1970's the property was operated for Au, Ag, Pb. In 1976 David Gemmill bought the outstanding stock for \$40,000. and leased it to Owen Walker. Walker shipped 60 tons of one to the Minerva Mill—which could not do such with the complex ore. From this 80 tons, Il tons of concentrate containing, according to Walker, 15% of WO3, 15-20% of Pb, 15-20% of En, Mn, Mb, Sb, Mi, Ma, Au, Ag were shipped to los Angeles. Walker's lease expired in March 19h2. Since that time Gemmill has shipped 10 tons of concentrate containing 11% of WO3 to the Metals Meserve Co. in Salt Lake City.

Geology

On the West flank of the Sighland range a series of Falcosoic Sedimentary rocks crop out in a north-striking, gently east-dipping homoclinal series. At the bottom of the series is a quartrite, overlaid by approximately 275 feet of shale, (shale D*), 35-50 feet of gray limestone ("combined metals bed"), approximately 125 feet of shale ("shale O*), 158 feet of limestone ("susan-duster lime bed"), 100 feet of shale, x feet of sandstone, and the "Frince" limestone. Four quartz voins striking northeasterly and dipping essentially vertically occur in the quartrite, "shaleD*, and the "Combined metals bed". The veins have been traced on the surface, by means of pits and a few outcrops for approximately lhOOfeet. Under ground, the main vein has been explored for 500 feet vertically and thoo feet laterally. The veins vary from 1 to 15 feet in width; the main vein averages 6 feet.

Wolframite, scheelite, galena, sphalerite, chalcopyrite, and

other minerals occur in the quartz veins.

Ealph Brown of Molybdesum Corp. of America sampled approximately 75 feet along the surface of the main vein and obtained an average of 15 of WO3. of which FOX was wolframite, 10% scheelite. A vein 1 to 5 feet wide 600 feet north of the main vein has been explored by a 1h0 feet shaft (not open). Ore on the dump of this shaft contained appreciable wolframite (perhaps 2% of WO3). Ar. Gemmill and his brother, Faul, "best — geologist ever been in this district" believes the underground work on the main vein indicates that wolframite occurs invertical shoots approximately 1h0 feet high, 100 feet long and 6 feet wide.