TURQUOISE MINE - Located in Copper Basin 7 mi. from Battle Mountain

GEOLOGY

Narrow seams in fracture zone - vertical attitude vertical - wall rock is leached - light gray - altered quartzite or partially metamorphosed sandstone subsequently altered by solutions - Ore is hand sorted and cobbled - shipped to smelter cutters in Los Angeles - owners - Mineralized zone 15'-20' wide, grades into hard quartzite on each side - Material of good quality - hard, dark blue - worth about $6.00 per lb. - last year mine produced three quarters of the U. S. supply - deposit appears to be worked out.

GOLCONDA TUNGSTEN PLANT - "P" Warren, mill sup't.
8/21/41 Now with U. S. Venadium in Colorado.

GEOLOGY

Flat lying beds 3' to 30' thick in alluvium at base of mountain east of Golconda. Ore is composed of calcareous material - mainly travertine, clay and iron oxide - In places beds of manganese oxide, psilomelane and pyrolusite occur. Apparently a hot springs deposition in shallow lake NO₃ in solid solution? Beds 3' to 8' thick will be mined room and pillar - overburden is but few feet thick but hanging stope well. 30' bed will be stripped and mined by power shovel. Ore is soft. In present development drifts blasting holes driven with hammer and bull prick. Prospecting by churn drill.

GEOLOGY

NOTES FROM G.S.A. BULLETIN

"Tungsten bearing Manganese Deposits at Golconda, Nevada", by Paul F. Kerr.

Elephant-like deposit of manganiferous and ochreous clay lies on truncated tilted Triassic sediments. Overlain by calcareous tufa - Beneath are veins of similar mineralization - may be source of ores - tungstite, paramanganate, interstitial psilomelane and tinstone - tinstone and manganate - Ore minerals are colloidal in origin - tungstic acid adsorbed into psilomelane and limonite while both were gels. Ore minerals and tufa of hot spring origin. Mineralization started with chertification - silicification - followed by precipitation of NO₃, Mn, Fe and tufa.

CROWN MINE - Jay Shoemaker, Sup't.
15 mi. S of Golconda.

GEOLOGY

Fracture zone 10'-60' wide in quartzite - average $5.00 in Au and Ag - values are irregular - assayed wells in part.