2020 0006

(128)

item 6

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

GEOLOGY

Narrow seams in fracture zone - vertical altitude vertical - wall rock is leached - light grey - altered quartzite or partially metamorphosed sandstone subsequently altered by solutions - Ore is hand sorted and cobbed - shipped to gem 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 - "Pi" Warren, mill sup't.
8/21/41 Now with U. S. Vanadium in Colorado.

GEOLOGY

Flat lying neds 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 pyrolucite occur. Apparently a hot springs deposition in shallow lake WO_3 in solid solution? Beds 3' to 8' thick will be mined room and pillar - overburden is but few feet thick but hanging stands 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.

Planket-like deposit of manganiferous and ocherous clay lies on truncated tilted Triassic sediments. Overlain by calcareous tufa - Beneath are veins of similar mineralization - may be source of ores - ~~tungstic acid adsorbed into psilomelane and limonite while both were~~ 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 WO_3, 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 - assay walls in part.