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Item 4WEST COAST MINE - NW of Winnemucca - Roscoe Smith, U.C.GEOLOGY

Fissure vein in metamorphosed sedimentaries - quartzites and phyllites - Triassic in age? Diorite stock near deposit - dikes occur - premineral - where vein cuts diorite little difference in mineralization noted. S & NS dip 65 degrees E. Two stages of mineralization - earlier white quartz - contains As and Fe sulphides - little Au or Ag. Later dark quartz fills brecciated spaces - contains arsenopyrite (predominant) pyrite, galena and zinc blende as latest mineral. Some specimens show replacement by solution of earlier quartz. Numerous strike slips displace ore a few feet - Slips are discontinuous - apparently caused by settling of numerous fault blocks.

MOUNT TORN (HICKSTILLER MINE)

June 26 Barrett Springs Mining Company
Burke, Salls, Jones, Short

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South 1 mi. from West Coast. N-S vein traced $\frac{1}{2}$ mi. Narrow vein in diorite & slates with slate and quartzite country rock - \$16.00 Au & Ag - also As, Sb, Cu & Pb similar to West Coast. Gold not seen in pan as too much As & Sb - vein discovered by assaying concentrates from float panning. Only one outcrop - other covered by caliche and talus. New digging 30' shows quartz stringers of wide area - 125' incline higher up on vein, 25-30' muck fills bottom of shaft and 60' long stope near bottom from higher crosscut. Cost to reclaim and straighten old shaft much cheaper than new one.

mi. W of Mill City in Eugene Range. Contact metamorphic type deposit - thin beds limestone (3' to 8') in triassic shales have been replaced by quartz, garnet, epidote, pyrite and scheelite. Beds str. roughly N-S and dip 75 W. Granodiorite intrudes sedimentaries metamorphosing shale to hornfels. In Stank Mine beds terminate to N against grd.

MANGANESE PROPERTY - Located in Pumpernickel Valley, 21 mi.
S of Golconda - Pat Divine, owner.

GEOLOGY

Ore occurs in lens 30' thick several hundred feet in diameter - near top of spur on west side of valley. Deposit contains 30% Mn - lower grade material on outer margins - Considerable siliceous rock associated - jasper and cherts - few veins, quartz. Ore mineral is psilomelane - small amounts of manganite and pyrolucite noted. Deposit lies on schistose igneous rock possibly andesite - May have originated as replacement of sedimentary beds. 200,000 tons 30% ore blocked out, 20,000 tons shipped to date. Mining open cut - hand mucked - crushed to minus 3" - jaw crusher - trucking to Golconda \$1.25 - freight to Provo, Utah, \$3.25 at 30¢ per unit - Columbia Steel pays \$9.00 per ton. At present 5 cars being loaded for U. S. Government at Boulder. SiO₂ content 50-55%.