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PARK VALLEY AV
RAFT RIVER MTS., UTAH.

Ore Deposits of Utah, USGS PP 111,496-499.

Locale- NE corner, nearly, of Utah Basin-and-range province.

Rock Formations.- Pre-Cambrian(?) qtzites and schists; qtzite carries muscovite and a schistose cleavage. Schist dark bi-schist. Gradations between the two. Meta-shales and qtzites. Several thousand ft. exposed.

Intrusive body of porphyritic granite at Golden; near contact with sedgs granite is schistose or geissic (Paracale). Peg.dikes in granite and adjacent sedgs.

Structure: Granite appears intrusive, with laccolithic (conformable) top. Peg.dikes in sedgs. decrease away from contact. Chunks of sedgs. within granite. General structure is that of an anticline or dome. Probably an elongated E-W dome or anticline. General folding in the region is N-S. Suggestion is



strong that" the main structural feature of the (Raft River E-W) range is due to a doming of the sedimentary rocks by the intrusion of a granitic mass." (p.498).

Veins, as shown in sketch, are probably cross-joints normal to bent axis of anticline. In granite, cut also thru roof pendants of schist. S.t. fissures cut thru schist with little change in size, other times feathers out in schist. Veins pinch and swell in strike & dip from a few inches to several feet in width. (typical cross-joints in granite-cf. San Dimas).

Gangue: barren type, pegmatitic intergrowth of orthoclase and qtz, usually along HW. S.t. coarse white quartz. Ore: finer-grained qtz with sulphides and sulpharsenides. Latter are the ore shoots.

Primary ore: PbS, ZnS, py, ccpy, arsenop. Values in gold, which may go with the lead. Free gold in the rich oxidized ore. Mining has been largely on oxides.

Production about \$400,000 in Au, Ag, Pb.

Seems to resemble Contact Cu, NE Nevada (File).

Elk Mt. Cu with assoc. Au, Ag. NE Nevada, between Jar-bridge and Contact, (FILE).