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June 23 COPPER CANYON MINING CO. 21 mi. SE of Battle Mountain

International Smelting & Refining Co. (Anaconda) to install 300-ton flotation mill. Louis E. Whicher, President; J. J. Lillie, Manager; of Anaconda controlled Mountain City Copper Company, will be in charge of operations. Mr. Droubay, from Walkermine, now resident engineer since Robert H. Raring left for Army; V. O. Perry and Reno H. Sales have studied geology.

Ore occurs in a breccia pipe with waste material in center and edges and bottom enriched with chalcocite and chalcopyrite. Primary ore is quartzite conglomerate and breccia with chalcopyrite, pyrite, sphalerite, gold, silver and some galena. Gold is with pyrite and pyrrhotite; this will necessitate a 5 to 1 concentration to get all values, but iron in concentrate can be easily handled by Anaconda smelters.

Monzonite intrusive into s s, shale, limestone, quartzite (conglomerate-breccia) and hornfels. Quartzite breccia with conglomerate pebbles carries good copper with pyrite. Diorite dikes cutting hornfels carries both pyrite and chalcopyrite. Not much cuprite shows in mine. Superior, Virgin and Estes Veins cut breccia zone, but mineralization not related - veins originally mined around 1860. Post breccia and mineral faulting have occurred. Virgin Fault on west boundary of ore near breccia - Mudstone shale contact. On SE side of pipe, Gulch Fault near breccia - s s contact. Monzonite porphyry intrudes hornfels inside semi-circular breccia pipe. Hornfels also cupriferous.

Mine has 500,000 tons ore blocked out which runs $1\frac{1}{2}\%$ -2% copper, 0.02-0.1 oz. gold per ton, 1 oz. silver per ton. Silver and copper are erratic. This will give average grade near \$5.00 per ton. Low grade but good mining setup. Large company. like Anaconda can afford to operate this property - mill from Rico, Colorado, head frame from Butte - the concentrate will be sent to Anaconda smelters.

500 ft. shaft to be sunk in footwall and three main haulage levels connected to mine - 188' level, 330' level and 500' level. Mine to be glory-holed to 118' level. Mine now opened to 330' level by old workings and incline shaft with one long Fairbanks-Morse gas hoist with bucket. Honeycombed with workings since 60's. Truck went down in carrying stope a few years back. With old workings and churn drill holes, maps each 10' vertically are made - plan \$500,000 plant - 95 foot head frame on concrete piers, concrete shaft. Water will be pumped up from flat. Greenan placer claims come up canyon and old workings underground in placer under road.

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