QUARTZ PROPERTY

1. Name of property: Quartz Hill
   Address: Prairie City, Oregon
   Location of property: 6 miles up Dixie Creek, Grant County
   Acreage of holdings: Hillsite and quartz claim

2. History of property, past and recent:
   Operated last year (1937) on a few tons of custom ore. Good saving reported—but very doubtful.

3. History of production:
   None—Company looking for a good property.

4. Development: Number of levels, lengths of drifts and cross-cuts, raises, etc.:
   None

5. General description and equipment on hand, topography, country rocks, elevation, timber, water, snow fall, climate, power, etc.
   Good hillsite with plenty of water. Hillside sufficient for ideal gravity conditions in a mill operation.
   60 h.p. Cotton Wick diesel driving 30 kw Fairbanks Horse generator. Intends to put in flotation units.

6. Geology—General and local. Ore geology—type of deposit, i.e., vein, mineralized zone, bed; contact relations, attitude and orientation, vein minerals, gangue, type of mineralization, alteration, enrichment, etc.

7. Metallurgy—nature of ore, hard or soft, free-milling, base, direct shipping, etc. Kind of mill and equipment in use or planned, current daily tonnage of ore or concentrates, approximate value, freight rates to smelter, etc.
   Mill Flow Sheet: Truck dumps ore on platform; shoveled to small grizzly setting; ore raked by hand over the grizzly into Park-Lucy Jaw crusher; thence to home-made open face elevator to Straub ball mill (rib-cone-capacity 12-15 tons (?)); thence to two copper plates; overflow to an Overstraub table; overflow to tail sluice.

8. Remarks—economics: High or low cost, principal drawbacks, reasons for success or failure, apparent life of operation based on apparent quantity of ore available.
   Unless a complete new system is installed with flotation, I cannot see anything but failure.

Albert J. Gurne, Mining Geologist