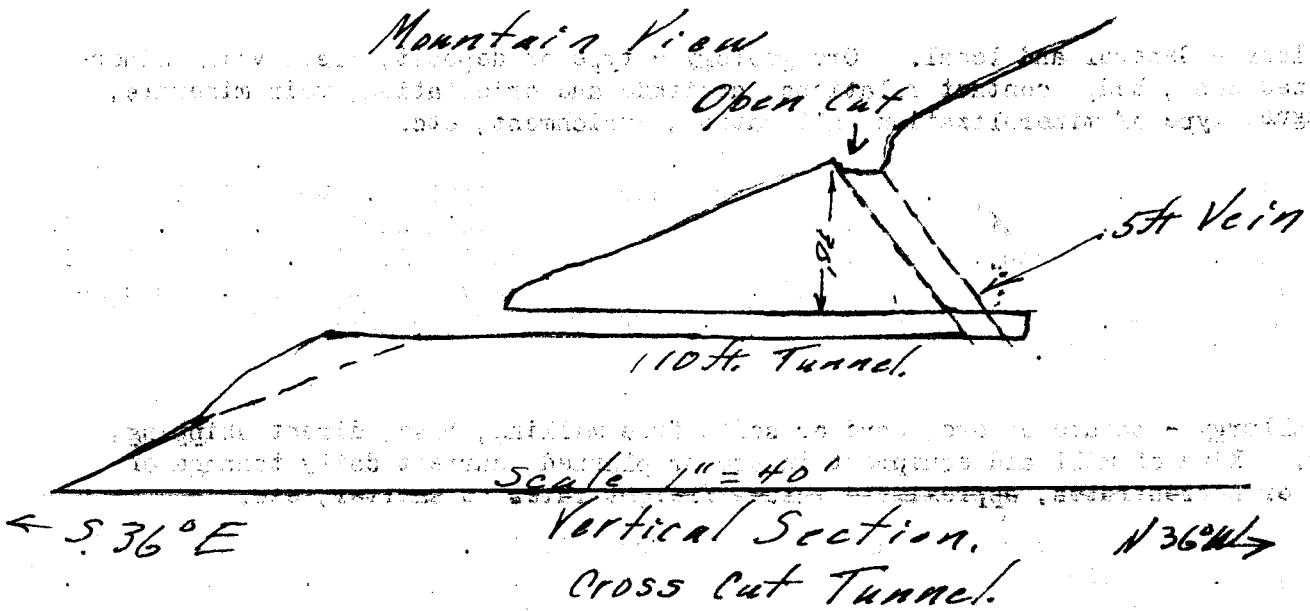
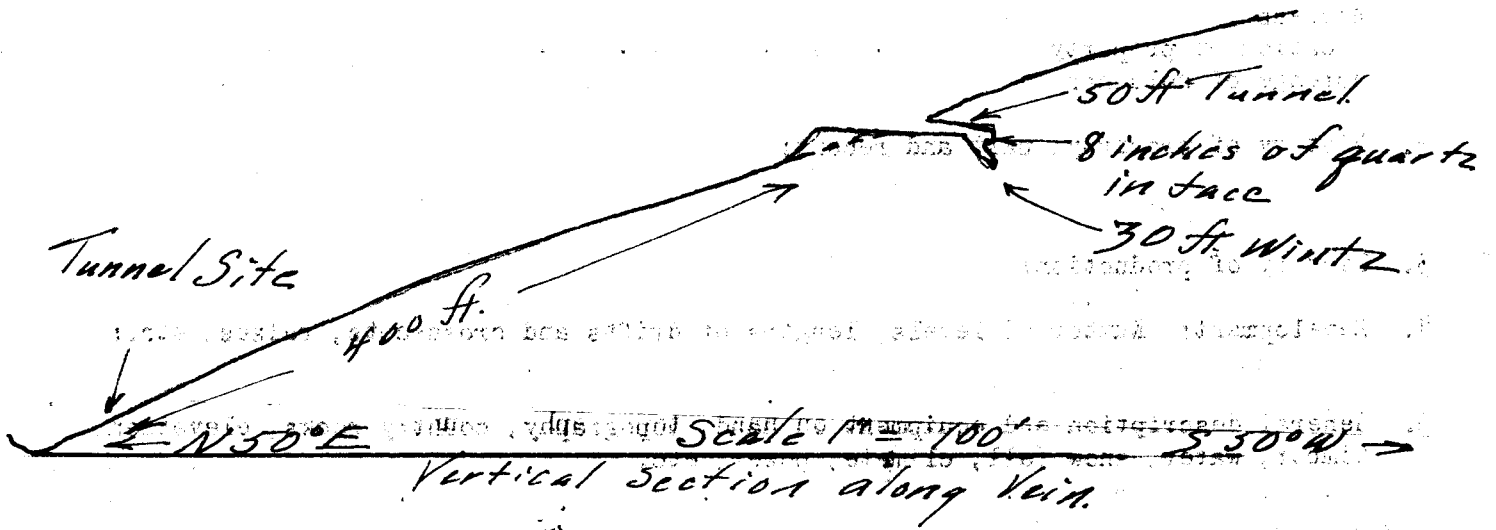


QUARTZ PROPERTY

1. Name of property Mitchell Property  
Operating company (or individual) William and Russel Mitchell  
Address Jacksonville, Oregon  
Location of property W 1/2 Sec. 24, T. 40 S., R. 5 W. 35 miles to Medford nearest R.R.  
Acreage of holdings Missouri Mountain and Mountain View Claims 41 Acres.
2. History of property, past and recent:  
New property located November, 1936. Present owners have worked continuously since location.
3. History of production:  
No production.
4. Development: Number of levels, lengths of drifts and cross-cuts, raises, etc.:  
1 tunnel 50 ft. with winze 30 ft. at face of tunnel.  
1 tunnel 110 crosscut intersect vein. 1 open cut on surface above tunnel on vein.
5. General description and equipment on hand, topography, country rocks, elevation, timber, water, snow fall, climate, power, etc. Elevation 5000 to 5300 ft. Steep Mountain sides. Average snow 2 ft. maximum five feet. Can work all year. Requires two miles of road to connect with Forest road estimate cost \$2000. Adequate timber and water on property. No water power. Tunnel and mill site in ravine to give several hundred feet of backs.
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.  
Two veins in porphyry probably dacite. Vein few inches to 5 ft. in width. Fairly definite walls, some gouge. Mainly quartz carrying sulphides. Mountain View vein strikes N. 54° E. and dips 55° N.W. Missouri Mountain vein strikes N. 50° E. and is vertical. Vein pinches, swells, shows crushing and resification. Mineralization apparently does not go into the walls. Ordinary white vitreous quartz. No conspicuous gossen. Oxidation very shallow. Pyrite and chalcopyrite are the sulphides present in the vein.
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.  
Quartz is of average hardness and not free milling. Assay at face runs \$9.80 gold, \$0.26 silver for eight inches. Mountain View vein runs \$11.20 gold and \$0.06 silver for five feet. No high grade ore. Mill improvised of odd parts contains ball mill and plates. Run by gas engine.
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.  
Mine not yet well opened up. Under financed. Should be normal cost operation. Not enough development to allow estimate of future. Operation precarious. Might justify small mill if tonnage can be developed and high enough concentrates be produced to be shipped to smelter.

# Missouri Mountain



*Upper Applegate Dist Jackson Co*

Mitchell Property (quartz) *Upper Applegate Dist* Jackson County

Operators: William and Russel Mitchell, Jacksonville, Oregon

Location: W  $\frac{1}{2}$  Sec. 24, T. 40 S., R. 5 W., 35 miles to Medford nearest R.R.

Area: Missouri Mountain and Mountain View Claims 41 acres.

History: New property located November, 1936. Owners have worked continuously.

Development: 1 tunnel 50 ft. with winze 30 ft. at face of tunnel.  
1 tunnel 110 crosscut intersect vein. 1 open cut on surface above tunnel on vein.

Description: Elevation 5000 to 5300 ft. Steep Mountain sides. Average snow 2 ft., maximum five feet. Can work all year. Requires two miles of road to connect with Forest road estimate cost \$2000. Adequate timber and water on property. No water power. Tunnel and mill site in ravine to give several hundred feet of backs.

Geology: Two veins in porphyry probably dacite. Vein <sup>is</sup> few inches to 5 ft. in width. Fairly definite walls, some gouge. Mainly quartz carrying sulphides. Mountain View vein strikes N. 54° E. and dips 55° N.W. Missouri Mountain vein strikes N. 50° E. and is vertical. Vein pinches, swells, shows crushing and resilification. Mineralization apparently does not go into the walls. Ordinary white vitreous quartz. No conspicuous gossan. Oxidation very shallow. Pyrite and chalcopyrite are the sulphides present in the vein.

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Remarks: Mine not yet well opened up. Under financed. Should be normal cost operation. Not enough development to allow estimate of future. Operation precarious. Might justify small mill if tonnage can be developed and high enough concentrates be produced to be shipped to smelter.

Informant: J. E. Morrison  
9/2/37