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D MacIntyre's notes

10. The Polaris-Taku Mine, B.C., Peter Stokes, Beacon Hill Consultants

- Suntac Mineral Corp option
- W. of Tulsequah River
- owner Rembrandt Gold Mines
- prod'n 1938-42; 1946-51 760,000 tons ave 0.30 opt Au
- Au grades were increasing toward end of production
- used GEOMODEL and PCEXPLORE to model deposit
- host upper Paleozoic volc and sed. rocks, qtzite, schist, limestone, greenstone, fragmental rocks, andesite
- ore zones are series of quartz veins
- wedge shapes zone of volcanics reflects syncline plunging to SE
- thin bedded tuffs and pyroclastics
- NW-SE fold axes
- limestone at contact between basal and upper volcanic packages
- zones plunge to SE
- Au ores in highly fractured and carbonated Stuhini volcanics
- qz-carbonate stringers with aspy, py, stib, po, au
- Au associated with aspy-py
- 10% sulphide overall with aspy > py
- stibnite rare
- fuchsite, sil, carb, albite alt'n of host rocks
- veins pinch and swell
- Au values consistent, associated with aspy.
- classified as mesothermal lode Au deposit
- reserve 244,000 tons, 0.33 opt Au using 0.15 opt cut off and min. mining width of 5 ft., 28 % dilution
- 190,000 tons 0.43 opt undiluted reserves
- prob. reserves within 25 ft of drift, poss. within 50 ft.
- ore reserves down to 750' depth prob+poss= 1 million tons ave 0.33 opt Au.
- 78-88 % recovery indicated