675278 104B/1 Premier Silbak

Paper No. 42 -- 2:40 p.m.
"THE SILBAK PREMIER GOLD-SILVER DEPOSIT"
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Silbak Premier Mine, 15 km north of Stewart, B.C. produced 4.7 million tons at 0.38 oz Au and 8.0 oz. Ag per ton. Exploration by Westmin Resources Limited has focused on the open pit potential of the richest area of the old workings mined prior to 1935. Current geologic reserves are 6.37 million tons at 0.060 oz Au and 2.52 oz Ag per ton. Exploration is complicated by the need to drill through open and caved stopes, and to incorporate stope outlines in reserve blocks.

Subvolcanic quartz K-feldspar hornblende plagioclase porphyry, emplaced into coeval andesite, is complexly distributed as several conformable and cross-cutting bodies that intersect at the deposit. Mineralized zones in the present reserve coincide with certain porphyry bodies and consist of silica - adularia - sulphide vein stockworks and breccia. The main past-productive zone is 1500 m long, 500 m down dip and 30-100 m wide, maximum widths occur where porphyry bodies converge.

Pyrite, sphalerite and galena are the most abundant sulphide minerals, argentite and electrum are thought to be the main silver and gold minerals. Due to changing proportion of ore types, metals are zoned such that silver content and Ag:Au decrease and base metals increase with depth and south along strike in the deposit. Ore types range from siliceous, low sulphide silver-gold ore (less than 500 ppm Pb + Zn, Ag:Au 100:1) to semi-massive base metal sulphide ore (Ag:Au of 10:1). Pervasive sericite forms a halo to siliceous ore, but not semi-massive sulphide ore, and is flanked by feldspar-destructive carbonate alteration.

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