



**LITHOLOGY**

- OVERBURDEN**
- GRANODIORITE**  
  - medium to coarse-grained, light grey, quartz-plagioclase-muscovite bearing equigranular to pegmatitic granodiorite.
  - medium to coarse-grained, light grey, quartz-plagioclase-muscovite-sericite-clay bearing equigranular to pegmatitic granodiorite; moderate sericite-clay alteration; locally crosscut by quartz or quartz-sulfide veins; occasionally intensely silicified; may grade into breccia.
  - light grey, quartz-sericite-clay bearing granodiorite; very strong, pervasive clay and sericite alteration.
- FOLIATED GRANODIORITE**  
  - moderately foliated medium-grained green-grey muscovite-sericite-quartz-feldspar-chlorite bearing granodiorite; occasionally grades into a muscovite, quartz chlorite schist.
- FELDSPAR - QUARTZ PORPHYRY**  
  - feldspar-quartz porphyry; up to 25% feldspar-quartz phenocrysts set in a light green-grey aphanitic groundmass.
- FELSITE DIKES**  
  - fine-grained, medium grey-green, occasionally porphyritic, felsite dikes; locally crosscut by quartz or quartz sulfide veins; may grade into breccia.
  - pale green-grey, felsite dikes with moderate to strong silicification and clay-sericite alteration.
- SCHIST**  
  - medium-grained, medium brown-grey, quartz-biotite-chlorite-muscovite schist; occurs as xenoliths within intrusive rocks.
- BRECCIAS**  
  - mainly sulfide bearing breccia; clay-sericite altered, angular to sub-angular granodiorite, felsite or sulfide clasts; quartz and/or sulfide cement; moderately silicified.
  - diatreme (?) breccia; cream coloured, highly siliceous matrix, well rounded quartz, sulfide (sphalerite) or country rock clasts.
- ANKERITE VEINS**  
  - cream coloured commonly sulfide bearing (sphalerite, pyrite, arsenopyrite, pyrrhotite, chalcopyrite, tetrahedrite), ankerite (and/or dolomite ?) veins; occasionally may contain minor quartz.
- QUARTZ VEINS**  
  - clear to medium grey, commonly sulfide bearing (sphalerite, pyrite, arsenopyrite, pyrrhotite, chalcopyrite, tetrahedrite), quartz veins.
- SULFIDE VEINS**  
  - >90% sulfides, veins and masses; primarily sphalerite with lesser pyrite, arsenopyrite, pyrrhotite, chalcopyrite and tetrahedrite.

**SYMBOLS**

- LITHOLOGICAL CONTACT  
Known, Assumed
- FAULT  
Known, Assumed
- PLOT OF DIAMOND DRILL HOLE  
Hole Depth in Metres
- SAMPLING  
Showing Sample Interval and Number
- ASSAY AVERAGES  
% Zinc, % Silver  
Interval in Metres
- MINERAL INVENTORY BLOCK WITH  
REFERENCE NUMBER

FAIRFIELD MINERALS LTD.  
TOTAL ENERGOLD CORPORATION

LOGAN PROJECT  
WATSON LAKE MINING DISTRICT, YUKON TERRITORY

MAIN ZONE  
DIAMOND DRILL SECTION 145 E  
DDH 87-L-49

LOOKING GRID WEST (234.4°)  
Scale = 1:500

CORDILLERAN ENGINEERING LTD.  
1980-1055 W. HASTINGS STREET  
VANCOUVER, B.C. V6E 2E3  
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