

Table 5-- List of the minerals and their idealized

compositions, found in the L-D mine during the course of this study.

MINERAL	COMPOSITION
Quartz	SiO_2
Calcite	CaCO_3
Adularia	KAlSi_3O_8
Sericite	$\text{KAl}_2(\text{Si}_3\text{Al})\text{O}_{10}(\text{OH})_2$
Illite	$\text{KAl}_4(\text{Si}_7\text{Al})\text{O}_{20}(\text{OH})_4$
Chlorite	$(\text{Mg,Al,Fe})_{12}(\text{Si,Al})_8\text{O}_{22}(\text{OH})_1$
Kaolinite	$\text{Al}_2\text{Si}_2\text{O}_5(\text{OH})_4$
Jarosite	$\text{KFe}_3(\text{SO}_4)_2(\text{OH})_6$
Goethite	$\text{FeO}(\text{OH})$
Hematite	Fe_2O_3
Pyrite	FeS_2
As-pyrite	$(\text{Fe,As})\text{S}_2$
Marcasite	FeS_2
Arsenopyrite	FeAsS
Chalcopyrite	CuFeS_2
Electrum	AuAg
Native Gold	Au
Acanthite	Ag_2S
Proustite	Ag_3AsS_3
Pearceite	$\text{Ag}_{16}\text{As}_2\text{S}_{11}$
Pyrostilpnite	Ag_3SbS_3
Naumannite	Ag_2Se
Aguilarite	Ag_4SeS
Native Silver	Ag