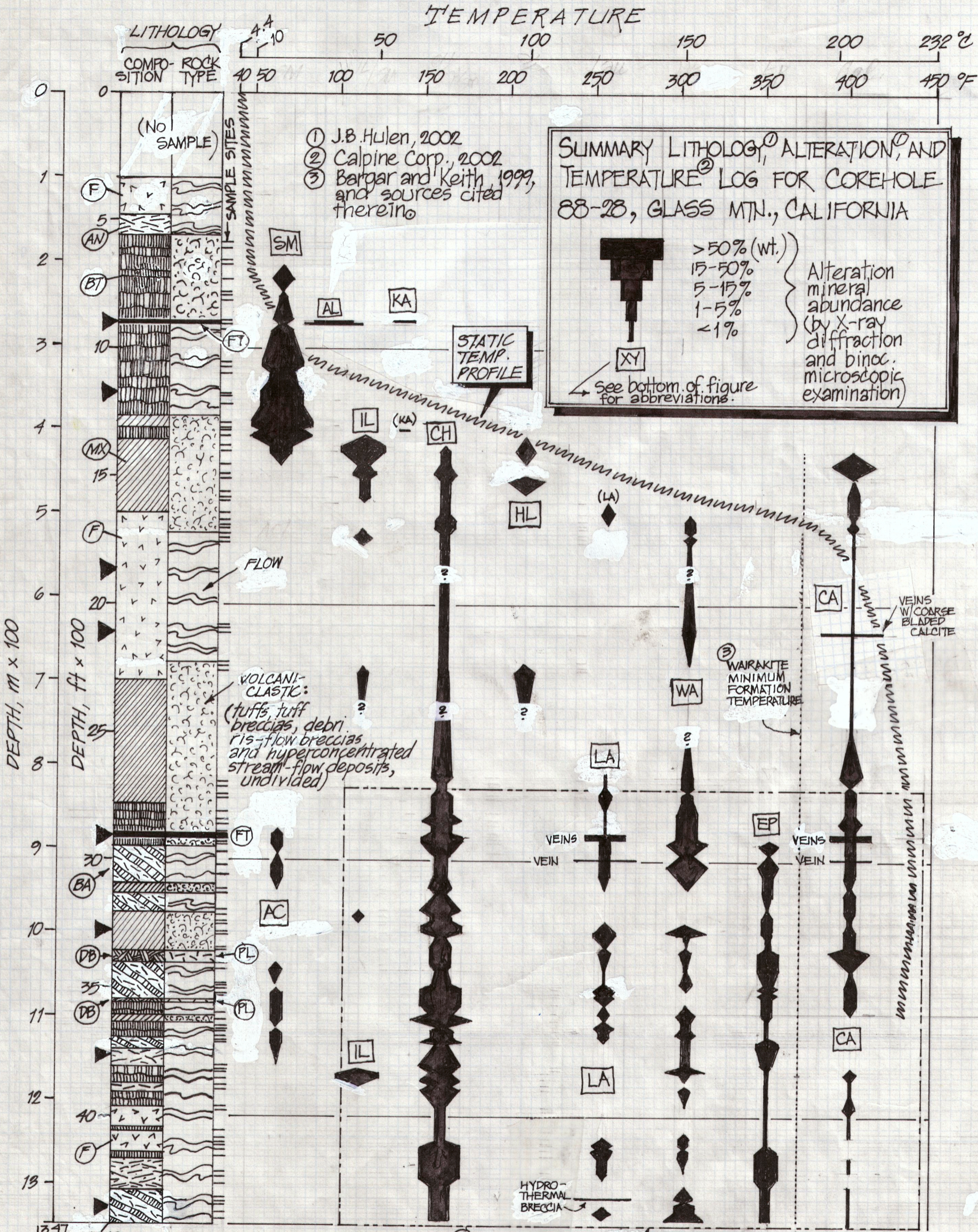


(Draft: J. Hulen, 12/02)



SUMMARY LITHOLOGY, ALTERATION, AND TEMPERATURE LOG FOR COREHOLE 88-28, GLASS MTN., CALIFORNIA

① J.B. Hulen, 2002
 ② Calpine Corp., 2002
 ③ Bargar and Keith, 1999, and sources cited therein

Alteration mineral abundance (by X-ray diffraction and binoc. microscopic examination)

- > 50% (wt.)
- 15-50%
- 5-15%
- 1-5%
- < 1%

XY
 see bottom of figure for abbreviations.

DEPTH, m x 100

DEPTH, ft x 100

TEMPERATURE

LITHOLOGY
 COMPO- ROCK
 SITION TYPE

SAMPLE SITES

STATIC TEMP. PROFILE

FLOW

VOLCANI-CLASTIC:
 (tuffs, tuff breccias, debris-flow breccias and hyperconcentrated stream-flow deposits, undivided)

VEINS W/ COARSE BLADED CALCITE

③ WAIKAKITE MINIMUM FORMATION TEMPERATURE

VEINS
 VEIN

VEINS
 VEIN

HYDROTHERMAL BRECCIA

③ LALIMONTITE FORMATION TEMPERATURE RANGE

- ▶ = Fault zone
- ① AN = Andesite
- ① BA = Basaltic andesite
- ① BT = Basalt
- ① DB = Diabase and microdiabase
- ① PL = Plutonic
- ① F = Felsic: rhyolite to dacite, undivided
- ① MX = Mixed; no rock type dominant overall
- ① FT = Fault
- ① AC = Actinolite
- ① CA = Calcite
- ① CH = chlorite and mixed-layer chlorite/smectite, undivided
- ① EP = Epidote
- ① HL = Heulandite
- ① IL = Illite and mixed-layer illite/smectite, undivided
- ① AL = Alunite
- ① KA = Kaolinite
- ① LA = Laumontite
- ① SM = Smectite
- ① WA = Wairakite