

Project: Livermore

620-33

Elevation: \_\_\_\_\_

Date Drilled: \_\_\_\_\_

Depth (m)	Description
0 - 3	<u>Clay-silt</u> - Lt. yellow brown, w/small subangular frags of LX-tuff
3 - 40	<u>XL-Tuff</u> - Lt-Gray to Lt-Brown, XLS or Qtz, K-Spar & Minor H.B. 5-15% of Rh., matrix altered mostly to clay & pervasively fractured with yellow & reddish brown FeO <sub>2</sub> staining along most frags.
40 - 50	<u>XL-Tuff</u> - Similar to above, but less clay and more silicified, some flow banding & qtz. veining.
50 - 60	<u>XL-Tuff or Rhyolite</u> - Qtz & K-spar XLS set in red aphanitic GM., trace of H.B., small clear to white Qtz filled veins. Pervasively fractured w/tight fractures, trace of cinnabar.
60 - 100	<u>XL-Tuff or Rhyolite</u> - As above w/color change to reddish, pink, & Lt-med gray. Slight increase in Qtz veining. Pervasively fractured. Moderate Fe <sub>2</sub> O <sub>3</sub> staining. Rare trace of cinnabar.
100 - 250	<u>XL-Tuff</u> - As above but more fractured, Fe <sub>2</sub> O <sub>3</sub> staining 20-30%.
250 - 280	<u>XL-Tuff</u> - White to Lt-gray XL tuff, altered mostly to clay. Fe <sub>2</sub> O <sub>3</sub> staining 20-30% of sample, black frags of obsidian & 1-2% H.B. XLS.
280 - 290	<u>XL-Tuff</u> - As 60 - 100.
290 - 300	<u>XL-Tuff</u> - White to Lt-yellow, altered mostly to clay, pervasively fractured. XLS of Qtz & K-spar 5-10%, 1-2% of H.B.
300 - 320	<u>XL-Tuff</u> - As in 60-100 with increase in Qtz XLS to 10-15% & ~5% black devitrified glass.