

Project: Livermore

620-31

Elevation: _____

Date Drilled: May 7,8,9,10, 1979

Depth (m)	Description
0 - 10	<u>Silty sand</u> - Dk to Lt brown, moist, unconsolidated w/numerous small frags of altered (Kaolin) tuff, frags gray to greenish gray w/relic xls of feldspar & pumice.
10 - 75	<u>XL-Lithic Tuff</u> - Pumaceous, occasionally vesicular. Altered entirely to soft clay (kaolinite) with numerous, tight, red FeO ₂ stained fractures Lt-gray on fresh surface. Becomes slightly more competent w/depth. Fracturing so pervasive, frags over 2 cm are rare
75 - 96	<u>Peridotite(?)</u> - Dk=gray, aphanitic, mostly altered to clay.
96 - 99	<u>Serpentinite & Peridotite</u> - Hard, Dk-green to Dk-gray mottled. 5-10% softer green serpentine.
99 - 160	<u>Serpentinite</u> - Soft, med- to Dk- green, mottled coloration. Rare small magnetite or chromite grains, and numerous small veinlets of magnesite. Common small shear planes, & where shearing is not evident some relic Xls of olivine or pyroxene can be seen.
160 - 215	<u>Serpentinite</u> - Dk- to Lt-green, more rare Dk-blue gray, finely mottled w/ 5-10% magnesite veining. Black, aphanitic, hard peridotite (?) - 15%.
215 - 296	<u>Serpentinite</u> - Dk-green (olive green), minor amts of Lt-green sheared serpentine. Finely granular & mottled w/small veins (0.01 mm) of black material (chromite (?)), much harder than above.
296 - 320	<u>Serpentinite</u> - As above w/slight increase in black veining. Small grains of chromite common.