

LITHOLOGIC LOG

Project: Livermore

620-60

Elevation: _____

Date Drilled: 6/27/79

Depth (m)	Description
0-0.3	<u>Regolith</u> - Tan silt with angular frags of rhyolite.
0.3-10	<u>Welded Tuff</u> - (possibly rhyolite) - light to medium gray to pink, aphanitic to slightly porphyritic (\approx 5% phenos of quartz and clear feldspar). About 20% of cuttings are Fe stained and rock is pervasively fractured with tight hairline fractures.
10-14	<u>Welded Tuff</u> - As above, but more brown.
14-16	<u>Welded Tuff</u> - Buff colored, soft, altered mostly to clay.
16-23	<u>Welded Tuff</u> - Medium to dark gray to reddish, crystals of quartz and feldspar in tuffaceous matrix altered mostly to clay. Approximately 5% relic crystals of hornblende.
23-29	<u>Welded Tuff</u> - Medium gray with red Fe staining around relic hornblende crystals. Slightly silicified in zones but mostly altered to clay.
29-35	<u>Vitrophyre and Welded Tuff</u> - Light gray aphanitic to slightly porphyritic tuff with 15-40% vitrophyre.
35-38	<u>Vitrophyre and Welded Tuff</u> - As above but 80% vitrophyre, Fe staining along tight fractures.
38-53	<u>Welded Tuff</u> - Reddish brown, altered to soft clay. Approximately 35% crystals and rock fragments in clay matrix. Dark reddish brown at base of vitrophyre and lighter below.
53-88	<u>Welded Crystal Tuff</u> - Mixture of vitrophyre (15%) and partly silicified tuffs, light medium gray to red. Most of tuff altered to clay with crystals of quartz and feldspar.
88-98	<u>Vitrophyre</u> - Black, devitrified, rare crystals of plag and small greenish lined vesicles.