

LITHOLOGIC LOGB-409 (821-13)

BURNING STONE PROJECT

NE $\frac{1}{4}$  NE $\frac{1}{4}$  Sec 30 T27S R12W

ELEVATION: 6,160'

DATE DRILLED: 5/3/77

Depth (m)	DESCRIPTION
0 - 3	<u>Qal Alluvium</u> - clay and sand; buff brown; are .25mm; 60% white welded tuff, 30% basalt.
3 - 6	<u>Qal Clay</u> - green.
6 - 9	<u>Qal Clay</u> - gray to buff.
9 - 12	<u>Qal Gravel</u> - Buff brown; angular; ave. 7 mm; 70% basalt; 15% white welded tuff; 15% red welded tuff.
12 - 32	<u>Latite/Andesite</u> - light gray; porphyritic lathes of plagioclase ave 3 mm and hornblende/biotite .25mm; top ~ 10 feet shows evidence of fracturing with iron staining/alteration and chloritization of mafics.
32 - 34	<u>Crystalline Welded Tuff</u> - red; highly altered to a red clay; ~ 20% feldspar and qtz(?) crystals.
34 - 37	<u>Welded Tuff</u> - white to gray; highly fractured with secondary silica/calcite filling and alteration to gray clay.
37 - 40	<u>Latite/Andesite</u> - repeat 40-106.
40 - 43	<u>Tuff</u> - white; fairly altered to clay; some feldspar crystals and pumice (??) fragments present.
43 - 46	<u>Crystalline Lithic Welded Tuff</u> - pale red; 20% feldspar, 10% hornblend (?), 10% TX fragments.
46 - 52	<u>Argillaceous Gravel</u> - gray; ~ 30% clay; subrounded-angular; ave 3 mm; mostly tuff.
52 - 58	<u>Gravel</u> - gray; subrounded-angular; 4mm ave; 80% white-gray tuff, 15% red tuff, 5% cinder.
58 - 70	<u>Clay</u> - buff.
70 - 97.6	<u>Crystalline Lithic Tuff</u> - white; 15% mafix crystals, 15% rock fragments.