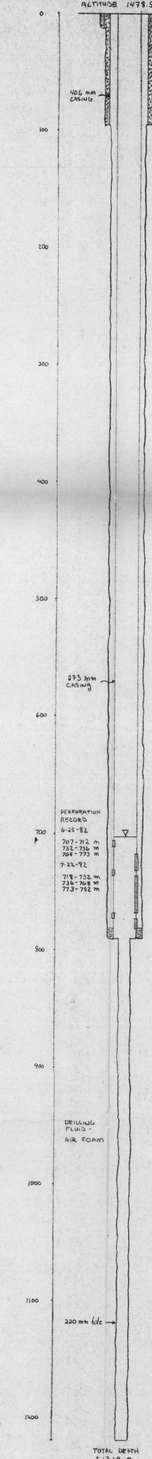
TEST WELL USW H-5

ALTITUDE 1478.5 m



TIVA CANYON MEMBER	TUFF, ASH FLOW, brownish grey, densely welded, devitrified (MODERATE DEVITRIFICATION FROM 10.9 - 12.2 meters).
	TUFF, ASH FLOW, light brownish grey and light grey, densely welded, devitrified (probable lithophysal zone); 5 % PHENOCRYSTS OF SANIDINE AND PLAGIOCLASE.
	TUFF, ASH FLOW, light-brownish-grey to brownish grey, densely welded, devitrified; pumice, light grey, devitrified; less than 2 percent phenocrysts.
	TUFF, ASH FLOW, dark-yellowish-brown, moderately welded devitrified; pumice dark-yellowish brown, devitrified, 2 % phenocrysts (sanidine, quartz, plagioclase)
	TUFF, ASH FLOW, pale-yellowish brown, densely welded, devitrified; pumice, pale-yellowish brown and greenish grey; 1 % PHENOCRYSTS (SANIDINE, AND
	TUFF, ASH FLOW, grayish-orange (10YR 7/4) densely welded, devitrified; pumice, moderate-brown (5YR 4/4); vitric; pumice, light brown; AGATE; less than 1 % phenocrysts; abundant black and light-brown glass shards.
PAH CANYON MEMBER	TUFF, BEDDED, SECONDARILY (?) ALT. (?); MODERATE-REDDISH ORANGE VITRIC; ABUNDANT GRAYISH PINK AND
	TUFF, ASH FLOW, MODERATE ORANGISH PINK (5YR 8/4) DENSELY WELDED, DEVITRIFIED; PUMICE, LIGHT GRAY (N7) TO MODERATE YELLOWISH BROWN (10YR 5/4), 5% PHENOCRYSTS (SANIDINE, PLAGIOCLASE, BIOTITE)
	TUFF, ASH FLOW, MODERATE YELLOWISH BROWN (10YR 5/4) DENSELY WELDED, DEVITRIFIED; 10% PHENOCRYSTS (SANIDINE, PLAGIOCLASE, BIOTITE); ABUNDANT LITHOPHYSAE
	TUFF, ASH FLOW, GRAYISH RED (5R 4/2) DENSELY WELDED, DEVITRIFIED; 10% PHENOCRYSTS (SANIDINE, PLAGIOCLASE, BIOTITE); ABUNDANT LITHOPHYSAE
TOPOPAH SPRING MEMBER	TUFF, ASH FLOW, grayish red and medium-light gray (mottled), densely welded, devitrified; pumice, very light grey to white, devitrified, some vapor phase crystallization; less than 2% phenocrysts (SANIDINE AND KAOLINITE) PROBABLE LITHOPHYSAL ZONE.
	TUFF, ASH FLOW, light brown and brownish-grey (mottled), densely welded, devitrified.
	TUFF, ASH FLOW, block, densely welded (VITROPHYRE)
	TUFF, ASH FLOW, black and pale yellowish-brown, moderately to partially welded, vitric; pumice, light brown, vitric; less than 2% phenocrysts, black glass shards.
TUFFACEOUS BEDS OF CALICO HILLS	TUFF, ASH FLOW, very-pale-orange, white, and moderate-orange-pink, non-to-partially welded, vitric, pumice, white, vitric; less than 5 % phenocrysts (sanidine, plagioclase, biotite); black glassy lithic fragments are common; at TV log top of a lithic-rich zone was recognized at 528.2 meters. Bedding planes were recognized at 521.9, 532.8, 534.6, 535.2, 540.0 and 542.3 meters.
	TUFF, BEDDED, REWORKED ASH FALL (?), yellowish-grey zeolitic; subequal proportions of pumice and subrounded pumice fragments. Bedding planes; 25% phenocrysts of sanidine, plagioclase, quartz, and biotite in a zeolitic groundmass.
PROW PASS MEMBER	TUFF, ASH FLOW, grayish-orange, unwelded, vitric; pumice, very pale orange, vitric; 7 to 8 % phenocrysts (quartz, sanidine, plagioclase, biotite, pyroxene.)
	yellowish gray and light-brownish gray partially welded, devitrified and vapor phase crystallized; pumice, yellowish gray to white, vitric to zeolitic; vitric; 5 to 8 % phenocrysts (quartz, sanidine, plagioclase, biotite) or hydrothermally altered; rare, muscovite, lithic fragments; probable pale-yellow brown bedded interval between 600.5-603.0 mbd
	TUFF, ASH FLOW, grayish-orange and yellowish-gray, unwelded, zeolitized; pumice, grayish-yellow, yellowish gray, dusky yellow, zeolitized; 10 % phenocrysts (quartz, sanidine, plagioclase, biotite); rare, muscovite, lithic fragments; 2 to 3 meters of interval may be slightly silicified; porosity of bit-cuttings sample from interval indicates a clinoptilolite/montmorillonite content of more than 20 percent.
	TUFF, BEDDED, light brown, poorly sorted; pumice, very pale-orange, zeolitic (?)
BULLFROG MEMBER	TUFF, ASH FLOW, light-olive-gray and greenish-gray partially welded (?) vapor phase; pumice, yellowish gray, light gray; vapor phase crystallization; 10 to 15 % phenocrysts (quartz, plagioclase, sanidine, abundant biotite); bit cuttings from 768.9 - 772.8 meters have very fine grained and difficult to analyze.
	TUFF, ASH FLOW, very-pale-orange to grayish orange, partially welded (?) devitrified, very fine grained bit cuttings.
	TUFF, ASH FLOW, reworked gray and light-brownish gray partially to moderately welded (?) vitric (?) and zeolitic; pumice, yellowish-gray and light-brownish gray, devitrified and zeolitic; 7% phenocrysts (quartz, plagioclase, sanidine, biotite)
	TUFF, ASH FLOW, light brown and greyish orange, moderately to densely welded, devitrified; pumice, light brown, devitrified, 15 to 20 % phenocrysts
	TUFF, BEDDED, reworked, moderate-reddish brown white pale olive, moderately indurated; abundant white pumice fragments
TRAM MEMBER	TUFF, ASH FLOW, light-brown, moderate-reddish brown, moderately welded (?) devitrified pumice, white to grayish-orange, devitrified, 15 to 20 % phenocrysts (quartz, sanidine, plagioclase, biotite; rare grayish-red zeolitic lithic fragments)
	TUFF, ASH FLOW, light-brown, light-olive-gray, light-brownish-gray, partially welded, devitrified; pumice, light-brown, very-pale-brown, very-pale-orange, devitrified; 10 % phenocrysts; grayish-red and medium-gray volcanic lithic fragments.
	TUFF, ASH FLOW, grayish-orange and dark-yellowish-orange, partially welded devitrified, slightly altered to zeolites (?), pumice, white; grayish-orange-pink and dark-yellowish-brown; 10 to 15 % phenocrysts; abundant grayish-red and medium-gray volcanic lithic fragments.
	TUFF, ASH FLOW, grayish-red, partially welded, zeolitic; pumice, moderate-orange-pink and grayish-red, zeolitic; 10 % phenocrysts (quartz, plagioclase, sanidine, biotite) abundant grayish-red and medium-gray volcanic lithic fragments; 20 % clinoptilolite.
	TUFF, BEDDED, REWORKED, SECONDARILY ALT. TO ZEOLITE, ZEOLITIC
LAVA	LAVA, grayish-green, moderate yellowish-brown (5YR 5/4) (greenish-gray) altered to zeolites (?), abundant biotite and hornblende (?)
	LAVA, dusky-yellow and light-olive, grayish-red, dark-reddish-brown, pale-red, greenish-gray, dacitic, zeolitic; 25 to 30 % phenocrysts, cleavable, plagioclase, abundant biotite, hornblende)

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