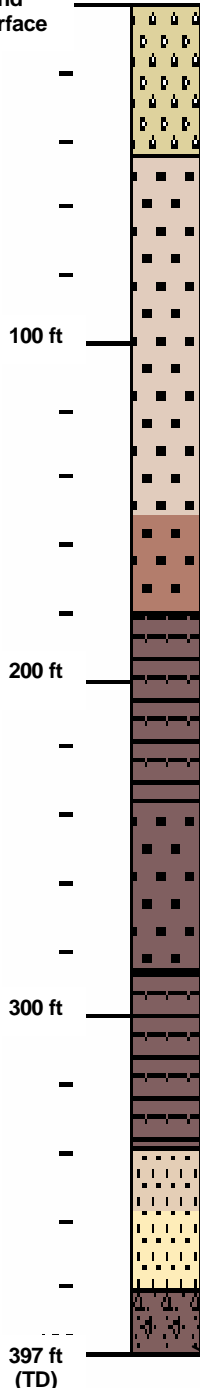


Land surface



**0-45' Spring Deposits** - 0-10.5' claystone, yellow gray (5Y 8/1), v. soft-soft, dry, vfg; 10.5-13.5' sandy claystone, uncemented, fg, dry; 13.5-16.0' claystone, as above, plastic; 16.0-16.5' claystone, yellow gray (5Y 8/1) v. soft-soft, plastic, vfg, dry; 16.5-19.5' yellow gray (5Y 7/2) siltstone, w/sand, soft-v. soft; 19.5-21.0' yellow gray(5Y 7/2) sandy silt, w/ f-mg sand & trace fine ang. gravel; 21.0-22.5' yellow gray (5Y 7/2) gravelly sand, f-m sand, fine ang. gravel; 22.5-45.0 yellow gray (5Y 7/2) silty sand, fg, w/ fg ang-sub rounded gravel & volcanic cobbles

**45-180' Valley-fill Deposits** - 45-130' light brown (5YR 6/4, 5/6), fg-cg subang. gravel, becoming coarser with depth, trace to some clay below 95', occasional boulders; 130 -152.5' pale red brown (10R 5/4) clayey gravel, cg, subang. to ang. gravel, plastic, wet; 152.5-180' pale red brown (10R 5/4) sandy gravel & cobbles, cg, ang, clayey below 160'

**180-235' Valley-fill Deposits** - 180-235' welded tuff, gray red (10R 4/2), hard, fractured, devitrified, some black dendrites, some clay below 205'. (Possibly Tertiary Volcanics)

**235-285' Valley-fill Deposits** - 235-256' sandy gravel, gray red (10R 4/2) welded tuff fragments & medium light gray (N6) to pale blue (5B 6/2) limestone fragments, cg, subang. gravels & cg sand, conglomeratic; 256-260' gravelly sand, as above w/ trace clay; 260-265 sand, white and brown, cg, some cg subang. gravel, conglomeratic, 265-285 sand & gravel, white and brown, sand, cg subang. gravel (mixed lithologies), conglomeratic light brown sandy matrix with limestone clasts & cobbles, healed

**285-337' Tertiary Volcanics** - 285-321' welded tuff, gray red (10R 4/2) devitrified, crystal rich, some black dendrites, very hard, some thin soft "waxy" light brown (5YR 5/6) claystone layers; 321-337' brecciated tuff, gray red (10R 4/2) welded tuff, brecciated with white calcite veining, some limestone fragments, very hard

**337-387' Tertiary Volcanics** - 337-379' bedded tuff, light brown (5YR 5/6-6/4), w/considerable plastic bentonitic (?) clay, becoming softer and moderate orange pink (5YR 8/4) to light brown (5YR 5/6) below 355'; 379-387 tuff breccia, grayish orange pink (10R 8/2) with ang. clasts of gray red (10R 4/2) welded tuff, clayey

**387-397' Tertiary Volcanics** - 387-397' tuff breccia, gray red (10R 4/2) matrix with welded tuff clasts, fg matrix and moderately soft-moderately hard, welded tuff is very hard

397 ft (TD)

NC-EWDP-9SX

SUMMARY LITHOLOGIC LOG