

Land surface

500 ft

1000 ft

1500 ft

2000 ft

2500 ft
(TD)

0-65' Valley-fill Spring Deposits - 0-65' sand & silt, light yellowish gray (5Y 8/1), w/ang. gravel,

65-161' Valley-fill Alluvium - 65-161' gravel, brownish gray (5R 4/1), poorly sorted cobbly gravel,

161-311' Tertiary Volcanics - 161-311' welded crystal tuff, 161-180' light brown (5YR 6/4), densely welded, 180-205' pale yellowish brown (10YR 6/2), 205-278' light brown (5YR 6/4), 278-311' pale purple gray (5RP 6/2 to 5R 6/2)

311-410' Tertiary Volcanics - 311-410' ash fall tuff, grayish green (5GY 7/2) to dusky yellow green (5GY 5/2), wet soft green clay w/localized fine chips of reddish brown tuff, unit grades into more competent rock below 360' suggesting increased welding; mostly pumice from 399 to 407', 407-410' welded tuff, dark yellowish orange (10 YR 6/6) , moderately welded

410-1197' Tertiary Sedimentary rocks - 410-1197' siltstone, medium dark gray (N4) and light olive gray (5Y 4/1), w/minor (1-10%) ash flow tuff, clay rich, very soft, numerous color changes between 540-600'; 600-840' light bluish gray (5G 7/1) and slightly harder with reworked white ash fall (mostly vitric pumice) from 710-720', w/clay 750-755', 860-865', 920-

1197-1259' Tertiary Volcanics - 1197-1259' ashflow tuff, possibly ash fall or reworked ash fall , pale reddish brown (FYR 8/2) 1197-1210' with pumice, 1200-1201' pale yellowish orange

1259-1314' Tertiary Sedimentary rocks - 1259-1314' siltstone medium bluish gray (5B 5/1) to greenish black (5G 2/1), w/ash flow fragments @ 1271, softer & w/ laminae evident in some chips below 1280

1314-1395' Tertiary Volcanics - 1314-1395' tuff, ashflows or reworked, mottled light bluish gray (5B 7/1) to medium bluish gray (5B 5/1), 20% lighter colored pumic and local fine sanidine phenocrysts, 1363-1390' vitrophyric tuff, brownish gray (5R 4/1), 1% fine brassy pyrite as druze on fractures, localized 1-2% pyrite as cement in microbreccia w/ grainy texture (silicious siltstone?),

1395-2500' Tertiary Sedimentary rocks - 1395-2500' sandstone, very light gray (N8) to medium light gray (N6) , interbedded w/ siltstone to clay, greenish gray (5G 7/1), clay rich 1508-1510', 1525-1528', and 1595-1600', localized white tuff fragments 1620-1630', pale yellowish brown (10YR 6/2) 1655-1710', sandstone 1710-1790' w/ 4-10% siltstone to 1740' w/ increase in siltstone to 10-40% below 1740'; sandstone 1790-1795', volcanic source, 50% siltstone 1795-1822', increased siltstone (to 90%) from 1822- 1862', sandstone, 1862-1880', fg w/ 40% quartz, 50% feldspar, and 10% dark minerals, sandstone interbedded w/ siltstone 1880-2030', poorly sorted 2028-2030', 2030-2040' siltstone, brownish gray (5YR 4/1), w/ fine laminae (<1 mm) and some sandstone, no sample 2040-2047', grayish black (N2) 2047-2119' w/ traces of gypsum, interbedded siltstone and sandstones, (N5 & N6) 2119-2161'; sandstone, medium light gray (N6), homogeneous, w/ localized beds of dark gray (N3); siltstone and clay 2161-2313'; siltstone, light brownish gray (5YR 6/1), finely (<1mm) laminated with unlaminated sections to 1 cm, clay rich 2335-2340' & 2345-2350', more homogeneous below 2363'; sandstone 2391-2500' w/ interbedded clay and siltstone

NC-EWDP-1DX

SUMMARY LITHOLOGIC LOG