

Land surface

0-1618.4' Valley-fill alluvium

0-40' silty sand, pale yellow brown (10YR 6/2), tr. subround gravel, gravel inc. downhole;
40-80' sandy gravel, fg-cg subround gravel, fg-mg sand;
80-260' gravelly sand, yellow-brown (10YR 6/2), local silt (10YR 8/2) and cobbles, silty 100-140, some clay 202-203' and 235-260';
260-360' gravel, gray red (10R 4/2) to dark yellow brown (10YR 4/2), subang-angular volcanic gravel, local cobbles (335-340), locally sandy (345-360);
360-420' sandy gravel, some silty sections, cobbles 415-420';
420-495' sandy gravels and cobbles, coarse sand, subang.-subround gravel;
495-580' gravel and coarse sand, polymictic, clay-rich zone 530-535 (10YR 7/2), boulders and cobbles 555-580;
580-686' coarse sand, gravel and local cobble beds, reddish brown (10R 4/6), dom. rhyolitic clasts, unconsolidated and caving, 30% yellow-gray clay (5Y 7/2) 610-616', thin clay beds (<1') 645-675', 15% brn-gray clay 675-686; 686-720' clay, light brownish gray, local fine gravel beds (<5%);
720-854' sandy clay, light brown (5YR 6/2), mg-cg sand interbedded?, less than 50% sand, 760-780' pale yellow orange (10YR 7/2), 760-854' grayish orange;
854-934' coarse sand and gravel, brownish gray (5YR 4/1), local clay beds, gen. well sorted, sandy 929-935', gradual color change into next unit;
934-1035' sand and gravel, yellow brown (10YR 5/4), different source than above, weakly calcite cemented;
1035-1095' sandy gravel, greyish pink (5R 8/2) to pinkish gray (5YR 8/1), 30-80% pale pink clasts of rhyolite and darker red' coarser gravel beds 1050-1055, 1072-1075;
1095-1120' gravel and sand, poorly sorted, yellowish gray (5Y 6/2);
1120-1140' clayey gravel, yellowish orange (10YR 7/6), grades into grayish orange pink (5YR 7/2) beyond 1130';
1140-1145' silt, red (5YR 5/6), cemented, white and gray gravel;
1145-1155' sand, pinkish red (5R 6/4), cemented, yellow brown fragments;
1155-1240' gravelly, reworked ash tuffs, pink (5R 8/4) to 1165, subang-rounded clasts of rhyolite and ash clasts, crystalline ashy groundmass, red (5R 5/6) 1165-1190, mod. pink (5R 7/4) 1190-1195, red (5R 5/6); gravel sections 1155-1160, 1195-1200, 1235-1240;
1240-1245' clay, minor gravel, red (5YR 5/6);
1245-1260' gravel, reddish (5R 5/6), quartz porphyritic rhyolitic clasts;
1260-1265' reworked ash tuff, dusky red (5R 3/4), >10% quartz phenos.;
1265-1322' gravel, red (5R 6/6) sub-ang. tuffaceous clasts 50-60%;
1322-1376' sands, calcite cemented, interfingered red (5R 5/4) hematitic and yellow-orange (10YR 6/6) limonitic beds (dominant color), local 1-2' gravel beds 1337-1339', 1359-1360';
1376-1465' sand, gravel and clay interbedded, mostly light brown (5YR 6/4) to grayish red (5R 4/2), some sandy yellow beds as 1322-1376, clay-rich 1388-1393, 1405-1413, gravel-rich 1397-1399', 1450-1457';
1465-1469' reworked tuff bed, light gray (N7), biotitic;
1469-1605' silts, well indurated, gravel beds, brownish gray (5YR 6/1), sections calcareous 1520-1560' ?cement, gravelly 1475-1485', 1535-1540', 1580-1600', tuffaceous 1575-1580', 1585-1590';

500 ft

1000 ft

1500

1618 ft (TD)

**NC-EWDP-2D
SUMMARY LITHOLOGIC LOG**