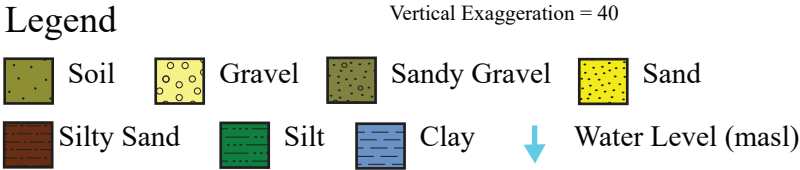
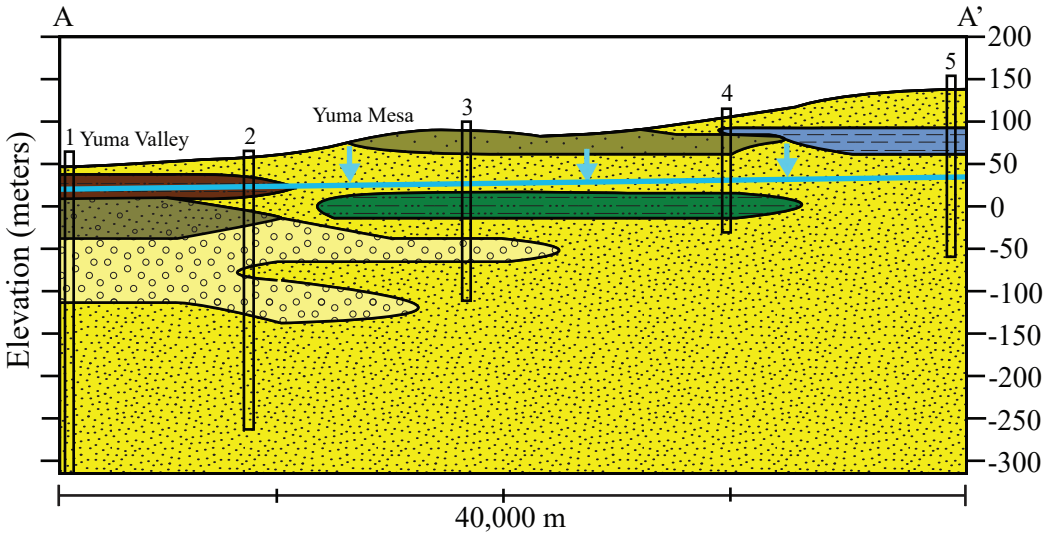
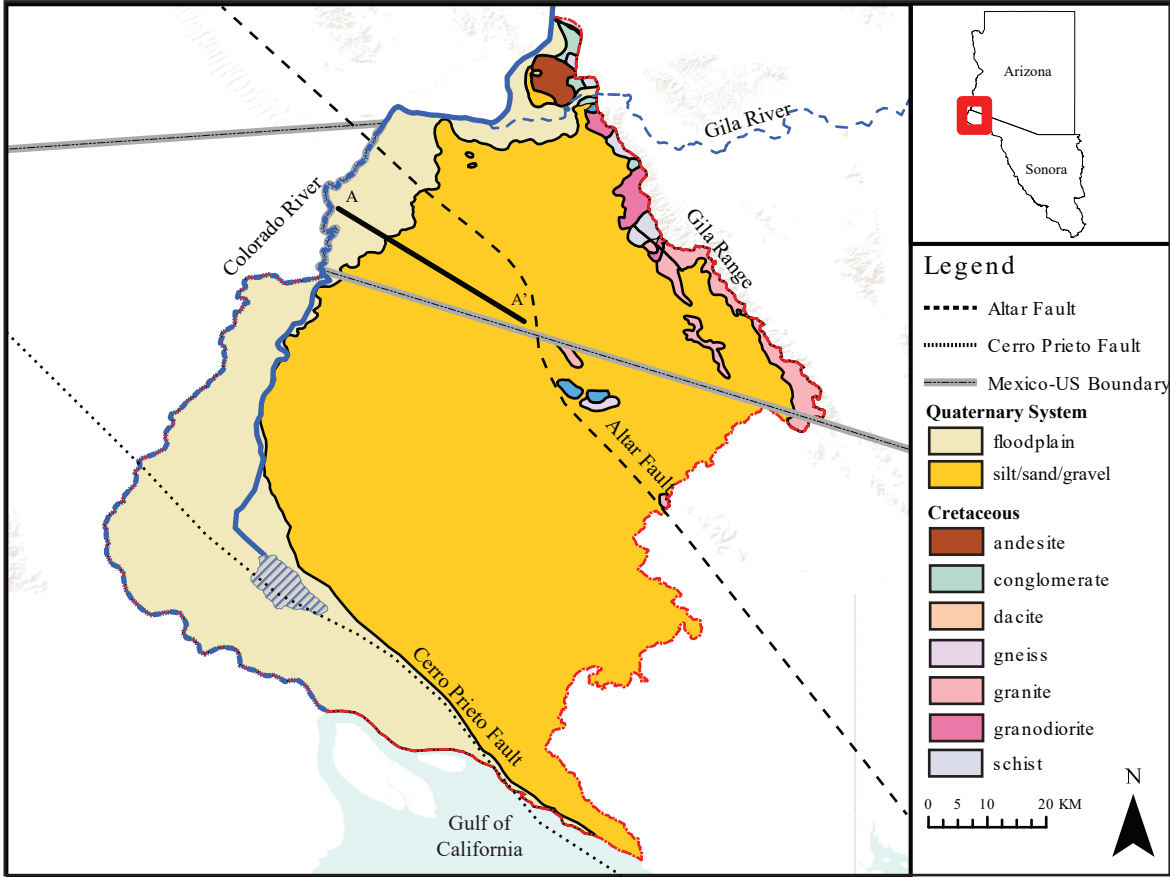


Figure S1. General geology and cross-section A-A'. Elevation in meters relative to sea level (0 m).



Well Name:

- 1: C-10-25 35 BBD1
- 2: C-11-24 23 BCB1
- 3: C-11-23 34 BBC1
- 4: C-12-22 09 BAB1
- 5: C-12-21 17 CBC1

Based on information from [9,17,25]

Table S1. Isotopic and chemical composition of waters in the study area.

| Site | Type | Date | Latitude | Longitude | Group | T (°C) | pH | E.C (mS/cm) | Ca ²⁺ (mg/L) | Mg ²⁺ (mg/L) | Na ⁺ (mg/L) | K ⁺ (mg/L) | Cl ⁻ (mg/L) | SO ₄ ²⁻ (mg/L) | NO ₃ ⁻ (mg/L) | Br ⁻ (mg/L) | HCO ₃ ⁻ (mg/L) | δ ¹⁸ O (‰) | δ ² H (‰) | δ ¹³ C (‰) | ¹⁴ C (pMC) | ³ H (TU) | Source | |
|------|---------|--------|----------|-----------|---------|-----------|-----|----------------|----------------------------|----------------------------|---------------------------|--------------------------|---------------------------|---|--|---------------------------|---|--------------------------|-------------------------|--------------------------|--------------------------|------------------------|--------|----|
| 1 | Surface | Oct-13 | 32.732 | -114.638 | CR | | | 1.7 | | | | | | 220 | 351 | 4.2 | 0.4 | | -11.8 | -95 | -12.0 | 101 | 7 | 29 |
| | Surface | Feb-17 | 32.732 | -114.638 | CR | | | | | | | | | | | | | | -11.4 | -95 | | | 5.3 | 29 |
| 2 | Surface | May-13 | 32.728 | -114.634 | WMD | | | 3.9 | | | | | | 639 | 821 | 20.5 | 1.0 | | -10.6 | -87 | | | | 29 |
| 3 | Well | Jun-67 | 32.748 | -114.533 | CRFP | | 7.3 | 3.0 | 170 | 62 | | | | 660 | 238 | | | 312 | | | | | | 16 |
| | Well | May-80 | | | CRFP | | | | 200 | 68 | 410 | 8 | 660 | 370 | | | | 367 | -10.5 | -84 | | | | 16 |
| 4 | Well | May-80 | 32.715 | -114.595 | CRFP | | | | 313 | 120 | 520 | 6 | 930 | 650 | | | | 563 | -11.6 | -92 | | | | 16 |
| 5 | Well | Mar-63 | 32.714 | -114.561 | CRFP | 22 | 7.7 | 2.2 | 127 | 43 | | | | 408 | 272 | 1.2 | | 329 | | | | | | 16 |
| | Well | May-80 | | | CRFP | 22 | | | 150 | 50 | 310 | 6 | 540 | 290 | | | | 244 | -10.3 | -78 | | | | 16 |
| 6 | Well | Apr-05 | 32.709 | -114.551 | CRFP | 22 | 7.5 | 3.3 | 180 | 69 | 414 | 7 | 640 | 410 | 0.1 | | | 362 | -9.4 | -75 | | | 5 | 10 |
| 7 | Well | Apr-05 | 32.709 | -114.605 | CRFP | 25 | 7.4 | 4.5 | 218 | 89 | 719 | 7 | 927 | 831 | 0.1 | | | 398 | -10.6 | -86 | | | 16 | 10 |
| 8 | Well | Apr-05 | 32.679 | -114.539 | CRFP | 24 | 7.6 | 1.9 | 56 | 20 | 377 | 4 | 175 | 399 | 8.0 | | | 317 | -11.6 | -96 | | | 13 | 10 |
| 9 | Well | Apr-05 | 32.678 | -114.426 | G.RANGE | 27 | 7.7 | 1.6 | 92 | 30 | 179 | 6 | 354 | 90 | 0.1 | 2.8 | | 148 | -8.5 | -67 | | | 2 | 10 |
| 10 | Well | Aug-87 | 32.678 | -114.430 | G.RANGE | | | | 75 | 33 | 370 | 5 | 620 | 110 | 0.4 | | | 172 | -8.5 | -66 | | | | 16 |
| 11 | Well | Aug-87 | 32.677 | -114.409 | G.RANGE | | | | 1.4 | 60 | 34 | 160 | 6 | 270 | 82 | 8.8 | | 196 | -7.6 | -55 | | | | 16 |
| 12 | Well | Apr-05 | 32.666 | -114.644 | CRFP | 27 | 7.3 | 3.7 | 221 | 68 | 499 | 8 | 531 | 879 | 0.2 | | | 293 | -11.1 | -90 | -9.0 | 70 | 14 | 10 |
| 13 | Well | May-80 | 32.635 | -114.764 | CRFP | 22 | 7.9 | 2.2 | 200 | 51 | 220 | 6 | 230 | 550 | | 0.6 | | 434 | -12.8 | -104 | | | | 16 |
| 14 | Well | Sep-05 | 32.620 | -114.505 | G.RANGE | | 7.7 | 2.1 | 57 | 20 | 331 | 5 | 432 | 181 | 3.5 | | | 224 | -8.7 | -67 | | | 0.2 | 10 |
| 15 | Well | Apr-05 | 32.620 | -114.651 | CRFP | 27 | 7.3 | 2.2 | 117 | 34 | 285 | 5 | 327 | 377 | 1.5 | | | 258 | -10.5 | -84 | | | 10 | 10 |
| 16 | Well | May-62 | 32.585 | -114.796 | CRFP | | 7.6 | 1.3 | 107 | 30 | | | | 143 | 160 | | | 300 | | | | | | 16 |
| | Well | Aug-62 | | | CRFP | | 7.2 | 1.2 | 105 | 29 | | | | 132 | 175 | | | 295 | | | | | | 16 |
| | Well | Oct-62 | | | CRFP | | 7.2 | 1.2 | 96 | 28 | | | | 137 | 150 | | | 288 | | | | | | 16 |
| | Well | Apr-64 | | | CRFP | | 7.4 | 1.3 | 118 | 26 | | | | 150 | 185 | | | 304 | | | | | | 16 |
| | Well | May-65 | | | CRFP | | 7.7 | 1.3 | 118 | 31 | | | | 168 | 175 | | | 318 | | | | | | 16 |
| | Well | Feb-67 | | | CRFP | | 7.7 | 1.4 | 116 | 34 | | | | 172 | 175 | | | 320 | | | | | | 16 |
| | Well | Mar-67 | | | CRFP | | 7.7 | 1.4 | 118 | 33 | | | | 168 | 183 | | | 308 | | | | | | 16 |
| | Well | May-80 | | | CRFP | 21 | 8.2 | 1.9 | 161 | 45 | 170 | 6 | 260 | 320 | 0.0 | 0.7 | | 296 | -14.3 | -108 | | | | 16 |
| | Well | Jul-88 | | | CRFP | 22 | 7.6 | 2.0 | 160 | 50 | 190 | 4 | 270 | 340 | 0.4 | | | 328 | | | | | | 16 |
| 17 | Well | Sep-05 | 32.557 | -114.676 | MESA | 24 | 7.5 | 1.9 | 87 | 32 | 280 | 4 | 195 | 425 | 3.0 | | | 310 | -11.8 | -97 | | | 14.1 | 10 |
| | Well | Sep-05 | | | MESA | | 7.6 | 2.0 | 92 | 33 | 265 | 4 | 206 | 433 | 2.7 | | | | -11.8 | -97 | | | 15.9 | 10 |
| | Well | Sep-05 | | | MESA | | 7.7 | 1.9 | 91 | 29 | 262 | 4 | 172 | 416 | 3.5 | | | | -11.8 | -97 | | | 16.1 | 10 |
| | Well | Sep-05 | | | MESA | | 8.1 | 1.8 | 90 | 30 | 258 | 4 | 158 | 419 | 3.6 | | | | -11.8 | -99 | | | 15 | 10 |
| 18 | Well | Aug-87 | 32.549 | -114.593 | MESA | | 7.9 | 2.5 | 140 | 46 | 300 | 5 | 570 | 220 | 11.4 | | | 144 | -8.0 | -65 | | | | 16 |
| 19 | Well | Aug-87 | 32.545 | -114.684 | MESA | 27 | 7.5 | 2.2 | 87 | 40 | 320 | 4 | 430 | 330 | 2.2 | | | 184 | -8.5 | -76 | | | | 16 |
| 20 | Well | Apr-05 | 32.487 | -114.753 | MESA | 26 | 7.5 | 1.7 | 166 | 38 | 162 | 4 | 242 | 294 | 0.1 | | | 262 | -13.8 | -108 | | | 8 | 10 |
| 21 | Well | Apr-05 | 32.469 | -114.692 | MESA | 27 | 7.7 | 2.4 | 148 | 37 | 288 | 7 | 529 | 226 | 0.6 | | | 152 | -13.0 | -101 | -11.0 | 59 | <0.1 | 10 |
| 22 | Well | Apr-05 | 32.445 | -114.596 | MESA | 32 | 8.0 | 1.6 | 44 | 12 | 230 | 6 | 371 | 71 | 0.1 | | | 95 | -7.9 | -62 | -9.0 | 29 | 0.1 | 10 |
| 23 | Well | Apr-09 | 32.490 | -114.809 | CRFP | 22 | 7.2 | 1.8 | 32 | 69 | 243 | 4 | 358 | 390 | | | | 182 | -12.0 | -96 | | | | 28 |
| 24 | Well | Apr-09 | 32.487 | -114.791 | CRFP | 25 | 7.7 | 1.3 | 50 | 71 | 191 | 3 | 229 | 220 | | | | 255 | -14.3 | -108 | | | | 28 |
| 25 | Well | Apr-09 | 32.474 | -114.897 | CRFP | 22 | 7.1 | 1.8 | 44 | 88 | 189 | 4 | 270 | 380 | | | | 343 | -12.4 | -99 | | | | 28 |
| 26 | Well | Apr-09 | 32.473 | -114.902 | CRFP | 21 | 7.1 | 2.3 | 68 | 100 | 254 | 4 | 380 | 520 | | | | 370 | -11.8 | -94 | | | | 28 |
| 27 | Well | Apr-09 | 32.468 | -114.852 | CRFP | 20 | 7.0 | 2.0 | 76 | 75 | 336 | 4 | 353 | 450 | | | | 309 | -12.0 | -95 | | | | 28 |
| 28 | Well | Apr-09 | 32.467 | -114.886 | CRFP | 22 | 7.4 | 1.9 | 42 | 67 | 270 | 3 | 210 | 360 | | | | 295 | -11.9 | -96 | | | | 28 |
| 29 | Well | Apr-09 | 32.466 | -114.917 | CRFP | 22 | 6.9 | 2.9 | 109 | 116 | 270 | 5 | 364 | 500 | | | | 342 | -13.3 | -103 | | | | 28 |
| 30 | Well | Apr-09 | 32.465 | -114.830 | CRFP | 22 | 7.1 | 2.4 | 54 | 73 | 358 | 4 | 355 | 450 | | | | 391 | -11.8 | -95 | | | | 28 |
| 31 | Well | Apr-09 | 32.457 | -114.895 | CRFP | 24 | 6.6 | 2.7 | 66 | 98 | 237 | 5 | 394 | 430 | | | | 366 | -14.0 | -108 | | | | 28 |
| 32 | Well | Mar-15 | 32.455 | -114.690 | MESA | | | | | | | | | | | | | | -11.0 | -83 | -10.1 | | | |
| 33 | Well | Apr-09 | 32.448 | -114.920 | CRFP | 22 | 7.0 | 1.3 | 34 | 54 | 194 | 2 | 220 | 190 | | | | 300 | -14.7 | -112 | | | | 28 |
| 34 | Well | Apr-09 | 32.447 | -114.824 | CRFP | 24 | 7.3 | 1.6 | 28 | 76 | 222 | 3 | 281 | 290 | | | | 313 | -14.2 | -108 | | | | 28 |
| 35 | Well | Apr-09 | 32.446 | -114.878 | CRFP | 22 | 7.0 | 2.9 | 76 | 68 | 316 | 4 | 434 | 404 | | | | 420 | -13.4 | -105 | | | | 28 |
| 36 | Well | Apr-09 | 32.445 | -114.908 | CRFP | 21 | 6.9 | 3.7 | 108 | 71 | 452 | 5 | 646 | 500 | | | | 466 | -13.9 | -107 | | | | 28 |
| 37 | Well | Apr-09 | 32.444 | -114.884 | CRFP | 21 | 7.0 | 2.5 | 78 | 91 | 296 | 4 | 401 | 530 | | | | 361 | -14.0 | -109 | | | | 28 |
| 38 | Well | Apr-09 | 32.443 | -114.884 | CRFP | 23 | 7.6 | 0.9 | 40 | 54 | 128 | 2 | 133 | 110 | | | | 295 | -14.5 | -111 | | | | 28 |
| 39 | Well | Apr-09 | 32.434 | -114.834 | CRFP | 21 | 7.1 | 2.3 | 76 | 78 | 288 | 4 | 341 | 450 | | | | 372 | -13.8 | -106 | | | | 28 |
| 40 | Well | Dec-74 | 32.432 | -114.615 | MESA | | | | 65 | 23 | 239 | | 433 | 82 | | | | 107 | -9.1 | -71 | | | | 7 |
| 41 | Well | Apr-09 | 32.429 | -114.853 | CRFP | 20 | 7.5 | 1.5 | 62 | 69 | 218 | 3 | 233 | 280 | | | | 318 | -14.2 | -103 | | | | 28 |
| 42 | Well | Apr-09 | 32.428 | -114.928 | CRFP | 20 | 7.2 | 3.8 | 60 | 113 | 434 | 5 | 688 | 620 | | | | 281 | -13.4 | -104 | | | | 28 |
| 43 | Well | Dec-74 | 32.378 | -114.687 | MESA | | | | 64 | 21 | 156 | | 188 | 124 | | | | 243 | -14.9 | -114 | | | <0.5 | 7 |
| 44 | Well | Dec-74 | 32.415 | -114.622 | MESA | | | | 62 | 35 | 240 | | 458 | 87 | | | | 114 | -9.3 | -73 | | | <0.5 | 7 |
| 45 | Well | Apr-09 | 32.423 | -114.921 | CRFP | 23 | 7.2 | 2.5 | 96 | 97 | 205 | 4 | 401 | 410 | | | | 354 | -14.3 | -110 | | | | 28 |
| 46 | Well | Apr-09 | 32.422 | -114.841 | CRFP | 22 | 7.0 | 3.5 | 82 | 91 | 322 | 5 | 553 | 470 | | | | 347 | -13.5 | -105 | | | | 28 |
| 47 | Well | Apr-09 | 32.416 | -114.845 | CRFP | 23 | 7.2 | 2.4 | 66 | 53 | 155 | 3 | 235 | 290 | | | | 284 | -14.1 | -109 | | | | 28 |
| 48 | Well | Apr-09 | 32.414 | -114.940 | CRFP | 24 | 7.2 | 2.8 | 78 | 98 | 312 | 4 | 501 | 560 | | | | 325 | -13.3 | -105 | | | | 28 |
| 49 | Well | Apr-09 | 32.413 | -114.859 | CRFP | 23 | 7.2 | 2.4 | 76 | 79 | 245 | 4 | 397 | 370 | | | | 356 | -14.0 | -107 | | | | 28 |
| 50 | Well | Dec-74 | 32.420 | -114.636 | MESA | | | | 100 | 33 | 269 | | 533 | 136 | | | | 110 | -10.2 | -79 | | | | 7 |
| 51 | Well | Apr-09 | 32.410 | -114.904 | CRFP | 25 | 7.1 | 1.2 | 52 | 56 | 137 | 3 | 199 | 200 | | | | 290 | -14.3 | -110 | | | | 28 |
| 52 | Well | Apr-09 | 32.409 | -114.881 | CRFP | 22 | 7.2 | 1.4 | 58 | 57 | 173 | 3 | 247 | 290 | | | | 290 | -13.9 | -108 | | | | 28 |
| 53 | Well | Apr-09 | 32.405 | -114.929 | CRFP | 20 | 7.5 | 1.0 | 22 | 27 | 137 | 5 | 156 | 90 | | | | 209 | -14.4 | -110 | | | | 28 |
| 54 | Well | Apr-09 | 32.397 | -114.910 | CRFP | 22 | 7.3 | 1.9 | 50 | 60 | 221 | 3 | 312 | 310 | | | | 309 | -14.2 | -109 | | | | 28 |
| 55 | Well | Apr-09 | 32.397 | -114.940 | CRFP | 21 | 7.0 | 1.5 | 52 | 60 | 139 | 3 | 260 | 220 | | | | 281 | -13.9 | -108 | | | | 28 |
| 56 | Well | Dec-74 | 32.397 | -114.748 | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | |
|----|---------|--------|--------|----------|------|----|-----|------|-----|----|-----|----|-------|------|------|-------|-------|-------|-------|-------|
| 64 | Well | Apr-09 | 32.375 | -114.883 | CRFP | 25 | 7.4 | 2.3 | 66 | 52 | 257 | 4 | 422 | 220 | | 265 | -14.0 | -107 | | 28 |
| 65 | Tap | Mar-15 | 32.371 | -114.761 | MESA | | | | | | | | | | | | -13.9 | -105 | -10.2 | |
| 66 | Well | Apr-09 | 32.359 | -114.929 | CRFP | 23 | 7.7 | 1.4 | 36 | 35 | 208 | 3 | 257 | 220 | | 262 | -14.2 | -109 | | 28 |
| 67 | Well | Oct-13 | 32.136 | -114.924 | CRFP | | | 3.7 | | | | | 1006 | 298 | 0.0 | 2.7 | -9.6 | -76 | | |
| 68 | Surface | May-13 | 32.062 | -114.904 | SURF | | | 5.4 | | | | | 1149 | 827 | 10.8 | 2.3 | -9.6 | -81 | | 29 |
| 69 | Surface | Jul-14 | 32.057 | -114.899 | SURF | 30 | 7.9 | 2.9 | | | | | 558 | 782 | 22.9 | 1.0 | 305 | -10.6 | -88 | -8.7 |
| | Surface | May-13 | | | SURF | | | 3.8 | | | | | 603 | 837 | 17.7 | 1.0 | | -10.6 | -87 | |
| 70 | Surface | Oct-13 | 32.039 | -114.822 | SURF | | | 3.6 | | | | | 975 | 251 | 0.0 | 2.5 | | -6.7 | -66 | |
| 71 | Surface | Jul-14 | 32.039 | -114.908 | SURF | 35 | 7.6 | 4.9 | | | | | 906 | 1028 | 0.0 | 1.5 | 318 | -8.6 | -77 | -7.9 |
| | Surface | May-13 | | | SURF | | | 5.9 | | | | | 1259 | 1263 | 1.5 | 2.1 | | -7.4 | -73 | |
| 72 | Surface | Jul-14 | 32.038 | -114.895 | SURF | 35 | 7.6 | 3.6 | | | | | 550 | 771 | 19.2 | 1.0 | 297 | -10.5 | -88 | -8.1 |
| 73 | Surface | Jul-14 | 32.025 | -114.872 | SURF | 27 | 7.3 | 2.3 | | | | | 654 | 868 | 3.8 | 1.1 | 348 | -10.2 | -85 | -10.3 |
| | Surface | May-13 | | | SURF | | | 6.0 | | | | | 1184 | 1323 | 0.0 | 2.2 | | -8.1 | -74 | |
| 74 | Surface | Jul-14 | 32.015 | -114.868 | SURF | 28 | 7.6 | 3.6 | | | | | 728 | 944 | 0.0 | 1.2 | 346 | -9.8 | -83 | -7.9 |
| 75 | Surface | May-13 | 31.988 | -114.827 | SURF | | | 6.0 | | | | | 1182 | 1346 | 0.0 | 2.5 | | -7.3 | -69 | |
| | Surface | Jul-14 | | | SURF | 37 | 8.2 | 27.9 | | | | | 7425 | 4960 | 10.5 | 16.9 | 324 | -0.4 | -28 | -3.8 |
| 76 | Surface | May-13 | 31.965 | -114.814 | SURF | | | 12.5 | | | | | 2848 | 2597 | 0.0 | 5.8 | | -1.1 | -39 | - |
| | Surface | Jul-14 | | | SURF | 28 | 7.5 | 144 | | | | | 44933 | 8249 | 0.0 | 181.8 | 341 | 0.7 | -17 | -5.5 |
| 77 | Surface | May-13 | 31.958 | -114.811 | SURF | | | 146 | | | | | 54492 | 9653 | 0.0 | 119.9 | | 6.0 | 8 | |
| 78 | Well | Jan-82 | 32.350 | -114.531 | MESA | 32 | 7.3 | | 34 | 10 | 270 | 6 | 270 | 270 | | 0.5 | 150 | -10.5 | -77 | -8.1 |
| 79 | Well | Jan-82 | 32.378 | -114.688 | MESA | 30 | 7.7 | | 57 | 17 | 210 | 6 | 340 | 140 | | 0.5 | 120 | -12.7 | -93 | -10.8 |
| 80 | Well | Apr-78 | 32.428 | -114.599 | MESA | 28 | 7.9 | | 49 | 13 | 220 | 9 | 400 | 79 | | 0.6 | 98 | -8.6 | -63 | -9.7 |
| 81 | Well | Apr-78 | 32.387 | -114.718 | MESA | 31 | 7.3 | | 43 | 11 | 170 | 10 | 250 | 130 | | 0.2 | 130 | -14.1 | -104 | -11.2 |
| 82 | Well | Apr-78 | 32.387 | -114.718 | MESA | 29 | 7.4 | | 45 | 10 | 120 | 7 | 180 | 130 | | 0.5 | 160 | -14.8 | -111 | -11.5 |
| 83 | Well | Apr-78 | 32.457 | -114.690 | MESA | 28 | 7.7 | | 110 | 27 | 230 | 5 | 430 | 160 | | 1.5 | 160 | -12.5 | -94 | -11.3 |
| 84 | Well | Oct-16 | 32.457 | -114.690 | MESA | | 7.3 | 1.8 | 93 | 23 | 224 | 5 | 416 | 157 | 0.0 | 0.5 | 328 | -12.7 | -98 | |
| 85 | Well | Oct-16 | 32.450 | -114.674 | MESA | | 7.5 | 2.1 | 100 | 28 | 230 | 7 | 516 | 142 | 0.0 | 0.0 | 185 | -10.9 | -85 | |
| 86 | Well | Oct-16 | 32.446 | -114.660 | MESA | 29 | 7.5 | 1.9 | 92 | 27 | 216 | 7 | 511 | 112 | 0.0 | 0.0 | 198 | -9.4 | -72 | |
| 87 | Well | Oct-16 | 32.441 | -114.645 | MESA | 29 | 7.5 | 1.8 | 88 | 20 | 216 | 6 | 464 | 99 | 0.0 | 0.0 | 104 | -9.8 | -75 | |
| 88 | Well | Oct-16 | 32.437 | -114.630 | MESA | 32 | 7.7 | 1.6 | 69 | 14 | 204 | 5 | 422 | 89 | 0.0 | 0.4 | 109 | -9.3 | -72 | <0.5 |
| | Well | Oct-16 | | | MESA | 30 | 7.7 | 1.5 | 58 | 14 | 217 | 5 | 398 | 81 | 0.3 | 0.6 | 64 | -8.7 | -65 | |
| 89 | Well | Oct-16 | 32.423 | -114.585 | MESA | 31 | 7.6 | 1.4 | 36 | 9 | 203 | 4 | 346 | 76 | 0.0 | 0.4 | 73 | -7.9 | -60 | -9.4 |
| 90 | Well | Oct-16 | 32.419 | -114.570 | MESA | 30 | 7.6 | 1.3 | 31 | 9 | 202 | 3 | 319 | 69 | 0.0 | 0.4 | 144 | -8.0 | -60 | 26 |
| 91 | Well | Oct-16 | 32.343 | -114.321 | MESA | 33 | 7.6 | 3.6 | 91 | 7 | 549 | 4 | 840 | 491 | 2.4 | 1.7 | 110 | -8.6 | -63 | <0.4 |
| | Rain | Apr-16 | | | RF | | | | | | | | 9 | 6 | 0.1 | 0.1 | | -7.0 | -39 | |
| | Rain | Apr-16 | | | RF | | | | | | | | 8 | 5 | 0.1 | 0.0 | | -4.4 | -24 | |
| | Rain | Apr-16 | | | RF | | | | | | | | 60 | 11 | 0.3 | 0.2 | | -3.7 | -21 | |

$\delta^{18}\text{O}$ and $\delta^2\text{H}$ relative to V-SMOW (‰). $\delta^{13}\text{C}$ relative to V-PDB (‰)

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