Table S1

Carbon and oxygen isotopes and the contents of elements and TOC in samples from the Quemo Co section

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Sample nos. | lithology | SiO2 (%) | Al 2O3 (%) | Fe2O3 (%) | MgO (%) | CaO (%) | Na2O ( %) | K2O (%) | MnO (%) | TiO (%) | P2O5  (%) | Sr (ppm) | δ13Ccarb (‰) | δ13Corg (‰) | δ18O (‰) | TOC (%) |
| 15No1-1 | Mudstone | 54.68 | 12.74 | 4.06 | 0.75 | 7.00 | 0.922 | 2.590 | 0.042 | 0.423 | 0.091 | 226 | 0.2 | -28.91 | -5.4 | 1.03 |
| 15No1-2 | Mudstone | 54.25 | 11.79 | 3.73 | 0.68 | 7.96 | 1.110 | 2.290 | 0.049 | 0.409 | 0.065 | 226 | 0.9 | -28.37 | -5.5 | 0.97 |
| 15No1-3 | Mudstone | 38.74 | 7.97 | 3.05 | 0.59 | 17.09 | 0.833 | 1.500 | 0.063 | 0.267 | 0.058 | 332 | 2. 0 | -28.50 | -6.8 | 0.77 |
| 15No1-4 | Mudstone | 48.47 | 11.89 | 3.62 | 0.81 | 9.81 | 0.883 | 2.410 | 0.040 | 0.361 | 0.110 | 366 | 1.1 | -29.07 | -6.5 | 1.41 |
| 15No1-5 | Mudstone | 45.97 | 12.07 | 3.69 | 0.81 | 10.59 | 0.802 | 2.450 | 0.041 | 0.349 | 0.079 | 314 | 1.5 | -29.96 | -6.1 | 1.81 |
| 15No1-6 | Mudstone | 51.02 | 13.12 | 3.88 | 0.85 | 7.71 | 0.853 | 2.690 | 0.040 | 0.384 | 0.111 | 276 | 1.1 | -29.28 | -6.3 | 1.90 |
| 15No1-7 | Mudstone | 48.73 | 11.49 | 3.86 | 0.77 | 9.81 | 0.857 | 2.340 | 0.055 | 0.37 | 0.104 | 344 | 1.2 | -29.11 | -6.7 | 1.36 |
| 15No1-8 | Mudstone | 65.80 | 7.24 | 4.34 | 0.75 | 6.20 | 1.280 | 0.816 | 0.048 | 0.356 | 0.106 | 253 | 0.9 | -28.35 | -6.4 | 0.52 |
| 15No1-9 | Mudstone | 58.02 | 8.48 | 4.06 | 0.60 | 8.94 | 1.570 | 1.120 | 0.052 | 0.410 | 0.103 | 254 | 0.8 | -28.91 | -6.3 | 0.65 |
| 15No1-10 | Mudstone | 43.53 | 14.06 | 4.61 | 0.91 | 10.34 | 0.584 | 2.870 | 0.076 | 0.405 | 0.121 | 374 | 1.4 | -29.14 | -7.3 | 1.05 |
| 15No1-11 | Mudstone | 48.82 | 15.32 | 5.19 | 0.90 | 7.71 | 0.605 | 3.080 | 0.054 | 0.476 | 0.147 | 260 | 1.4 | -28.85 | -7.2 | 0.68 |
| 15No1-12 | Mudstone | 50.26 | 16.32 | 5.79 | 1.05 | 6.38 | 0.538 | 3.160 | 0.045 | 0.513 | 0.157 | 226 | 0.9 | -29.12 | -6.7 | 0.48 |
| 15No1-13 | Mudstone | 48.99 | 15.39 | 5.87 | 0.99 | 7.30 | 0.610 | 2.990 | 0.055 | 0.492 | 0.175 | 225 | 0.2 | -28.99 | -6.9 | 0.54 |
| 15No1-14 | Mudstone | 44.99 | 12.44 | 3.96 | 0.79 | 11.05 | 0.711 | 2.440 | 0.053 | 0.398 | 0.072 | 471 | 2.4 | -28.72 | -7.8 | 1.11 |
| 15No1-15 | Mudstone | 59.08 | 19.03 | 5.38 | 1.01 | 0.96 | 0.707 | 3.980 | 0.027 | 0.622 | 0.119 | 116 | -1.1 | -29.27 | -8.7 | 0.58 |
| 15No1-16 | Mudstone | 58.79 | 18.74 | 5.38 | 1.02 | 1.15 | 0.748 | 3.930 | 0.033 | 0.618 | 0.120 | 121 | -2.3 | -29.48 | -8.6 | 0.54 |
| 15No1-17 | mudstone | 59.66 | 18.67 | 5.48 | 1.02 | 0.85 | 0.736 | 3.880 | 0.034 | 0.609 | 0.120 | 114 | -8.5 | -32.19 | -9.1 | 0.63 |
| 15No1-18 | Siltstone | 68.78 | 8.22 | 5.62 | 0.73 | 4.39 | 1.210 | 0.897 | 0.119 | 0.456 | 0.082 | 118 | -5.9 | -30.42 | -8.6 | 0.13 |
| 15No1-19 | Siltstone | 67.54 | 8.67 | 6.01 | 0.81 | 4.38 | 1.200 | 0.937 | 0.129 | 0.522 | 0.089 | 296 | -4.9 | -29.56 | -9 | 0.15 |
| 15No1-20 | Siltstone | 67.14 | 8.74 | 5.40 | 0.82 | 4.64 | 1.230 | 1.080 | 0.101 | 0.596 | 0.100 | 441 | -4.5 | -29.45 | -8.7 | 0.21 |
| 15No1-21 | Siltstone | 68.12 | 10.31 | 5.82 | 0.86 | 3.15 | 1.220 | 1.380 | 0.065 | 0.554 | 0.107 | 208 | -4.9 | -29.39 | -8.9 | 0.32 |
| 15No1-22 | Siltstone | 68.04 | 9.5 | 5.20 | 0.90 | 3.59 | 1.320 | 1.290 | 0.085 | 0.521 | 0.095 | 207 | -6 | -30.24 | -8.7 | 0.47 |
| 15No1-23 | Siltstone | 68.27 | 9.83 | 5.19 | 0.84 | 3.56 | 1.280 | 1.390 | 0.070 | 0.514 | 0.099 | 185 | -5.5 | -29.59 | -8.5 | 0.45 |
| 15No1-24 | Calcareous sandstone | 46.20 | 6.81 | 0.81 | 0.34 | 15.75 | 1.159 | 1.196 | 0.033 | 0.232 | 0.057 | 2078 | 2.0 | -28.33 | -7.4 | 0.30 |
| 15No1-25 | Calcareous sandstone | 45.03 | 6.70 | 0.84 | 0.34 | 17.08 | 1.320 | 1.200 | 0.020 | 0.125 | 0.024 | 1166 | 2.2 | -28.04 | -7.5 | 0.19 |
| 15No1-26 | Calcareous sandstone | 47.83 | 7.33 | 0.95 | 0.36 | 15.56 | 1.090 | 1.470 | 0.023 | 0.146 | 0.027 | 1223 | 2.1 | -28.34 | -7.6 | 0.26 |
| 15No1-27 | Calcareous mudstone | 35.86 | 8.71 | 2.93 | 0.71 | 16.97 | 0.208 | 2.290 | 0.036 | 0.256 | 0.084 | 957 | 1.5 | -28.45 | -7.7 | 1.37 |
| 15No1-28 | Calcareous mudstone | 35.44 | 8.57 | 2.89 | 0.70 | 17.46 | 0.200 | 2.230 | 0.037 | 0.265 | 0.104 | 980 | 1.5 | -28.45 | -7.8 | 1.25 |
| 15No1-29 | Calcareous siltstone | 10.17 | 1.72 | 0.52 | 0.49 | 34.04 | 0.093 | 0.436 | 0.050 | 0.048 | 0.046 | 1912 | 1.7 | -28.44 | -7.7 | 0.68 |
| 15No1-30 | Calcareous siltstone | 10.87 | 1.89 | 0.51 | 0.48 | 33.40 | 0.093 | 0.487 | 0.050 | 0.054 | 0.053 | 1840 | 1.9 | -29.03 | -7.7 | 0.71 |
| 15No1-31 | Calcareous siltstone | 11.59 | 2.16 | 0.62 | 0.49 | 32.81 | 0.103 | 0.546 | 0.050 | 0.058 | 0.054 | 1789 | 2.0 | -29.02 | -7.8 | 0.77 |
| 15No1-32 | Calcareous mudstone | 23.69 | 6.77 | 2.36 | 0.65 | 23.75 | 0.164 | 1.770 | 0.043 | 0.186 | 0.073 | 1571 | 1.9 | -28.24 | -7.6 | 1.29 |
| 15No1-33 | Calcareous mudstone | 25.78 | 7.73 | 2.69 | 0.69 | 22.02 | 0.172 | 2.030 | 0.046 | 0.202 | 0.083 | 1384 | 1.8 | -29.26 | -7.6 | 1.20 |
| 15No1-34 | Calcareous mudstone | 24.70 | 7.23 | 2.59 | 0.66 | 22.89 | 0.154 | 1.920 | 0.045 | 0.191 | 0.075 | 1372 | 1.9 | -29.41 | -7.8 | 1.23 |
| 15No1-35 | Calcareous sandstone | 30.01 | 5.44 | 1.33 | 0.50 | 23.04 | 0.381 | 1.270 | 0.034 | 0.186 | 0.051 | 1700 | 2.6 | -28.48 | -7.9 | 0.52 |
| 15No1-36 | Calcareous sandstone | 35.93 | 5.84 | 1.25 | 0.46 | 20.51 | 0.470 | 1.350 | 0.033 | 0.167 | 0.049 | 1406 | 2.2 | -29.52 | -7.8 | 0.94 |
| 15No1-37 | Mudstone | 54.67 | 14.30 | 4.82 | 0.81 | 5.31 | 0.206 | 3.680 | 0.040 | 0.448 | 0.093 | 387 | 1.3 | -29.27 | -7.6 | 1.06 |
| 15No1-38 | Mudstone | 47.86 | 14.15 | 5.58 | 0.83 | 7.73 | 0.220 | 3.600 | 0.048 | 0.455 | 0.105 | 513 | 0.9 | -29.26 | -5.8 | 1.28 |
| 15No1-39 | Mudstone | 34.68 | 8.81 | 3.07 | 0.67 | 17.99 | 0.157 | 2.27 | 0.040 | 0.306 | 0.090 | 995 | 1.2 | -28.27 | -5.1 | 0.78 |
| 15No1-40 | Calcarenite | 2.44 | 0.731 | 0.14 | 0.42 | 37.98 | 0.102 | 0.109 | 0.012 | 0.025 | 0.035 | 2613 | 1.6 | -27.62 | -5.4 | 0.23 |
| 15No1-41 | Calcarenite | 4.75 | 1.06 | 0.19 | 0.45 | 36.71 | 0.094 | 0.235 | 0.016 | 0.032 | 0.040 | 1694 | 0.7 | -28.78 | -5.2 | 0.41 |
| 15No1-42 | Calcarenite | 3.39 | 0.85 | 0.14 | 0.41 | 37.29 | 0.084 | 0.203 | 0.010 | 0.022 | 0.038 | 2355 | 0.5 | -27.88 | -5.8 | 0.46 |
| 15No1-43 | Calcarenite | 2.17 | 0.577 | 0.02 | 0.37 | 38.53 | 0.100 | 0.091 | 0.009 | 0.013 | 0.023 | 1891 | 0.9 | -28.26 | -5.4 | 0.35 |
| 15No1-44 | Calcarenite | 1.99 | 0.49 | 0.01 | 0.29 | 38.94 | 0.101 | 0.062 | 0.010 | 0.011 | 0.022 | 1888 | 0.9 | -28.88 | -5.3 | 0.24 |
| 15No1-45 | Calcarenite | 1.87 | 0.41 | 0.03 | 0.25 | 38.70 | 0.069 | 0.086 | 0.010 | 0.012 | 0.020 | 1608 | 1.9 | -28.39 | -7.1 | 0.37 |
| 15No1-46 | Calcarenite | 2.41 | 0.40 | 0.01 | 0.29 | 38.80 | 0.080 | 0.069 | 0.006 | 0.017 | 0.018 | 1643 | 1.5 | -28.10 | -7.4 | 0.29 |
| 15No1-47 | Calcarenite | 2.22 | 0.42 | 0.01 | 0.27 | 39.26 | 0.089 | 0.063 | 0.005 | 0.014 | 0.017 | 1479 | 1.1 | -28.98 | -6.9 | 0.20 |
| 15No1-48 | Calcarenite | 1.11 | 0.31 | 0.01 | 0.35 | 38.82 | 0.057 | 0.053 | 0.006 | 0.011 | 0.018 | 2466 | 0.9 | -28.61 | -7.5 | 0.29 |
| 15No1-49 | Calcarenite | 1.46 | 0.38 | 0.04 | 0.38 | 37.98 | 0.060 | 0.084 | 0.007 | 0.017 | 0.018 | 3233 | 1.5 | -28.45 | -7.5 | 0.29 |
| 15No1-50 | Calcarenite | 8.93 | 1.79 | 0.55 | 0.40 | 34.60 | 0.140 | 0.426 | 0.011 | 0.062 | 0.031 | 2491 | 3.0 | -28.22 | -7.8 | 0.30 |
| 15No1-51 | Calcarenite | 8.12 | 1.75 | 0.51 | 0.35 | 34.91 | 0.108 | 0.404 | 0.014 | 0.051 | 0.029 | 2212 | 2.6 | -28.66 | -7.6 | 0.41 |
| 15No1-52 | Calcarenite | 6.28 | 1.31 | 0.35 | 0.36 | 35.89 | 0.069 | 0.300 | 0.007 | 0.036 | 0.025 | 2605 | 2.4 | -28.84 | -7.4 | 0.45 |
| 15No1-53 | Calcarenite | 6.28 | 1.5 | 0.43 | 0.35 | 35.88 | 0.085 | 0.349 | 0.014 | 0.044 | 0.029 | 2466 | 2.0 | -28.22 | -7.6 | 0.49 |
| 15No1-54 | Calcarenite | 7.88 | 1.84 | 0.53 | 0.38 | 34.91 | 0.095 | 0.43 | 0.014 | 0.053 | 0.032 | 2309 | 1.9 | -28.24 | -7.3 | 0.43 |
| 15No1-55 | Calcarenite | 12.18 | 2.46 | 0.79 | 0.41 | 32.56 | 0.150 | 0.596 | 0.022 | 0.083 | 0.039 | 2060 | 1.8 | -28.60 | -7.6 | 0.47 |
| 15No1-56 | Calcarenite | 7.77 | 1.82 | 0.51 | 0.38 | 34.83 | 0.124 | 0.417 | 0.010 | 0.056 | 0.033 | 2150 | 2.6 | -28.2 | -7.7 | 0.48 |
| 15No1-57 | Micritic limestone | 1.12 | 0.27 | 0.01 | 0.24 | 39.08 | 0.072 | 0.047 | 0.016 | 0.009 | 0.015 | 812 | 1.5 | -28.26 | -7.2 | 0.22 |
| 15No1-58 | Micritic limestone | 1.39 | 0.31 | 0.01 | 0.29 | 38.92 | 0.071 | 0.067 | 0.004 | 0.012 | 0.015 | 1544 | 2.1 | -28.15 | -7.5 | 0.29 |
| 15No1-59 | Micritic limestone | 2.39 | 0.39 | 0.02 | 0.28 | 38.59 | 0.072 | 0.091 | 0.005 | 0.011 | 0.016 | 977 | 2.2 | -27.97 | -7.8 | 0.23 |
| 15No1-60 | Micritic limestone | 1.20 | 0.29 | 0.02 | 0.22 | 39.15 | 0.076 | 0.059 | 0.012 | 0.009 | 0.016 | 822 | 2.6 | -28.78 | -7.8 | 0.26 |
| 15No1-61 | Micritic limestone | 2.51 | 0.29 | 0.03 | 0.24 | 38.51 | 0.092 | 0.056 | 0.010 | 0.012 | 0.038 | 3730 | 1.1 | -28.71 | -7.7 | 0.31 |
| 15No1-62 | Micritic limestone | 7.67 | 1.09 | 0.36 | 0.31 | 35.62 | 0.158 | 0.274 | 0.012 | 0.044 | 0.058 | 3390 | 1.2 | -28.77 | -7.3 | 0.46 |
| 15No1-63 | Micritic limestone | 1.87 | 0.43 | 0.11 | 0.29 | 38.85 | 0.083 | 0.100 | 0.013 | 0.018 | 0.022 | 2775 | 2.2 | -28.22 | -7.8 | 0.36 |
| 15No1-64 | Calcarenite | 4.82 | 0.49 | 0.14 | 0.28 | 37.28 | 0.090 | 0.112 | 0.012 | 0.018 | 0.023 | 3040 | 2.6 | -28.77 | -7.8 | 0.47 |
| 15No1-65 | Calcarenite | 3.80 | 0.97 | 0.29 | 0.35 | 37.21 | 0.113 | 0.218 | 0.012 | 0.032 | 0.032 | 4357 | 0.8 | -28.99 | -7.1 | 0.38 |
| 15No1-66 | Calcarenite | 3.79 | 1.02 | 0.17 | 0.27 | 37.39 | 0.075 | 0.265 | 0.011 | 0.032 | 0.034 | 3218 | 1.3 | -29.66 | -7.5 | 0.43 |
| 15No1-67 | Calcarenite | 0.715 | 0.15 | 0.01 | 0.30 | 39.34 | 0.058 | 0.038 | 0.022 | 0.009 | 0.031 | 1853 | 2.2 | -28.51 | -7.6 | 0.21 |
| 15No1-68 | Calcarenite | 2.51 | 0.80 | 0.42 | 0.19 | 38.29 | 0.076 | 0.186 | 0.008 | 0.033 | 0.026 | 4122 | 3.2 | -28.82 | -7.6 | 0.23 |
| 15No1-69 | Calcarenite | 3.00 | 0.78 | 0.23 | 0.17 | 37.94 | 0.072 | 0.185 | 0.005 | 0.032 | 0.026 | 5126 | 2.9 | -28.26 | -7.8 | 0.41 |
| 15No1-70 | Calcarenite | 2.73 | 0.61 | 0.15 | 0.29 | 38.08 | 0.080 | 0.134 | 0.009 | 0.023 | 0.027 | 3586 | 1.8 | -28.74 | -7.7 | 0.42 |
| 15No1-71 | Calcarenite | 2.72 | 0.52 | 0.06 | 0.27 | 38.20 | 0.086 | 0.111 | 0.012 | 0.017 | 0.026 | 1739 | 2.7 | -28.6 | -8 | 0.30 |
| 15No1-72 | Calcarenite | 3.38 | 0.80 | 0.23 | 0.32 | 37.61 | 0.076 | 0.176 | 0.011 | 0.026 | 0.037 | 3766 | 2.9 | -28.54 | -7 | 0.64 |
| 15No1-73 | Micritic limestone | 1.12 | 0.26 | 0.01 | 0.27 | 39.04 | 0.068 | 0.049 | 0.014 | 0.010 | 0.010 | 1204 | 1.8 | -29.17 | -7.9 | 0.20 |
| 15No1-74 | Micritic limestone | 3.63 | 0.87 | 0.18 | 0.35 | 37.47 | 0.123 | 0.174 | 0.007 | 0.022 | 0.027 | 1991 | 1.7 | -28.45 | -7.8 | 0.24 |
| 15No1-75 | Micritic limestone | 2.26 | 0.59 | 0.11 | 0.29 | 38.41 | 0.107 | 0.114 | 0.009 | 0.017 | 0.022 | 1729 | 1.7 | -29.73 | -7.9 | 0.35 |
| 15No1-76 | Micritic limestone | 2.50 | 0.62 | 0.17 | 0.48 | 37.96 | 0.064 | 0.156 | 0.013 | 0.027 | 0.027 | 554 | 1.8 | -28.83 | -7.8 | 0.35 |
| 15No1-77 | Micritic limestone | 2.37 | 0.60 | 0.15 | 0.25 | 38.35 | 0.084 | 0.146 | 0.009 | 0.016 | 0.022 | 1104 | 2.5 | -28.64 | -7.9 | 0.26 |
| 15No1-78 | Micritic limestone | 2.27 | 0.48 | 0.11 | 0.29 | 38.34 | 0.094 | 0.087 | 0.008 | 0.019 | 0.034 | 2424 | 1.2 | -29.14 | -6.1 | 0.24 |
| 15No1-79 | Micritic limestone | 1.59 | 0.42 | 0.03 | 0.29 | 38.83 | 0.097 | 0.076 | 0.004 | 0.015 | 0.020 | 1664 | 1.8 | -28.7 | -6.9 | 0.22 |
| 15No1-80 | Micritic limestone | 2.47 | 0.37 | 0.11 | 0.32 | 38.36 | 0.110 | 0.050 | 0.032 | 0.013 | 0.021 | 385 | 1.1 | -28.9 | -5.1 | 0.24 |
| 15No1-81 | Micritic limestone | 4.09 | 0.60 | 0.13 | 0.24 | 37.69 | 0.073 | 0.131 | 0.014 | 0.024 | 0.034 | 1067 | 0.2 | -29.03 | -5.2 | 0.15 |
| 15No1-82 | Micritic limestone | 7.38 | 0.76 | 0.20 | 0.20 | 36.35 | 0.082 | 0.154 | 0.025 | 0.026 | 0.024 | 298 | 1.5 | -28.29 | -5.1 | 0.37 |

Table S2

The content of minerals in samples from the Quemo Co section (unit in %)

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Sample nos. | Lithology | Quartz | Feldspar | Calcite | Dolomite | Pyrite | Gypsum | Clay minerals | Chlorite | illite | I/S |
| 15No1-1 | Mudstone | 38 | 20 | 15 | 0 | 0 | 0 | 28 | 20 | 55 | 25 |
| 15No1-2 | Mudstone | 35 | 12 | 25 | 0 | 0 | 0 | 28 | 14 | 56 | 30 |
| 15No1-3 | Mudstone | 37 | 11 | 25 | 0 | 0 | 0 | 27 | 19 | 61 | 20 |
| 15No1-4 | Mudstone | 30 | 12 | 39 | 0 | 0 | 0 | 19 | 23 | 47 | 30 |
| 15No1-5 | Mudstone | 40 | 10 | 20 | 0 | 0 | 0 | 30 | 23 | 42 | 35 |
| 15No1-6 | Mudstone | 41 | 12 | 26 | 0 | 0 | 0 | 20 | 31 | 44 | 25 |
| 15No1-7 | Mudstone | 56 | 13 | 16 | 1 | 1 | 0 | 14 | 52 | 38 | 10 |
| 15No1-8 | Mudstone | 46 | 16 | 12 | 0 | 0 | 0 | 26 | 34 | 51 | 15 |
| 15No1-9 | Mudstone | 26 | 6 | 24 | 0 | 0 | 0 | 45 | 18 | 47 | 35 |
| 15No1-10 | Mudstone | 28 | 2 | 12 | 0 | 0 | 0 | 58 | 20 | 55 | 25 |
| 15No1-11 | Mudstone | 37 | 6 | 13 | 0 | 0 | 0 | 44 | 43 | 27 | 30 |
| 15No1-12 | Mudstone | 34 | 6 | 14 | 0 | 0 | 0 | 45 | 33 | 42 | 25 |
| 15No1-13 | Mudstone | 30 | 5 | 25 | 0 | 0 | 0 | 40 | 15 | 55 | 30 |
| 15No1-14 | Mudstone | 41 | 7 | 4 | 0 | 0 | 0 | 48 | 31 | 39 | 30 |
| 15No1-15 | Mudstone | 30 | 7 | 4 | 0 | 0 | 0 | 60 | 17 | 48 | 35 |
| 15No1-16 | Mudstone | 47 | 14 | 0 | 0 | 0 | 0 | 39 | 27 | 43 | 30 |
| 15No1-17 | mudstone | 51 | 29 | 6 | 0 | 0 | 0 | 14 | 67 | 23 | 10 |
| 15No1-18 | Siltstone | 52 | 22 | 9 | 0 | 0 | 0 | 17 | 67 | 23 | 10 |
| 15No1-19 | Siltstone | 50 | 24 | 8 | 0 | 0 | 0 | 18 | 67 | 18 | 15 |
| 15No1-20 | Siltstone | 47 | 27 | 5 | 0 | 0 | 0 | 20 | 72 | 18 | 10 |
| 15No1-21 | Siltstone | 50 | 22 | 6 | 0 | 0 | 0 | 22 | 67 | 23 | 10 |
| 15No1-22 | Siltstone | 47 | 28 | 5 | 0 | 0 | 0 | 18 | 61 | 24 | 15 |
| 15No1-23 | Siltstone | 37 | 11 | 45 | 0 | 0 | 0 | 7 | 22 | 62 | 16 |
| 15No1-24 | Calcareous sandstone | 36 | 10 | 45 | 0 | 0 | 0 | 10 | 24 | 66 | 10 |
| 15No1-25 | Calcareous sandstone | 42 | 11 | 35 | 0 | 0 | 0 | 12 | 20 | 65 | 15 |
| 15No1-26 | Calcareous sandstone | 36 | 0 | 57 | 0 | 0 | 0 | 6 | 0 | 75 | 25 |
| 15No1-27 | Calcareous mudstone | 40 | 0 | 56 | 0 | 0 | 0 | 4 | 0 | 90 | 10 |
| 15No1-28 | Calcareous mudstone | 9 | 0 | 86 | 0 | 0 | 0 | 5 | 0 | 86 | 14 |
| 15No1-29 | Calcareous siltstone | 10 | 0 | 85 | 0 | 0 | 0 | 6 | 0 | 85 | 15 |
| 15No1-30 | Calcareous siltstone | 9 | 0 | 86 | 0 | 0 | 0 | 5 | 0 | 84 | 16 |
| 15No1-31 | Calcareous siltstone | 16 | 0 | 58 | 0 | 0 | 0 | 26 | 0 | 72 | 28 |
| 15No1-32 | Calcareous mudstone | 17 | 0 | 59 | 0 | 0 | 0 | 24 | 0 | 70 | 30 |
| 15No1-33 | Calcareous mudstone | 14 | 1 | 57 | 0 | 0 | 0 | 27 | 0 | 75 | 25 |
| 15No1-34 | Calcareous mudstone | 24 | 4 | 57 | 0 | 0 | 0 | 16 | 32 | 53 | 15 |
| 15No1-35 | Calcareous sandstone | 30 | 5 | 54 | 0 | 0 | 0 | 11 | 16 | 64 | 20 |
| 15No1-36 | Calcareous sandstone | 33 | 2 | 11 | 0 | 0 | 0 | 55 | 6 | 64 | 30 |
| 15No1-37 | Mudstone | 33 | 4 | 16 | 0 | 1 | 0 | 46 | 5 | 60 | 35 |
| 15No1-38 | Mudstone | 31 | 2 | 39 | 1 | 0 | 1 | 26 | 0 | 80 | 20 |
| 15No1-39 | Mudstone | 2 | 0 | 96 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15No1-40 | Calcarenite | 4 | 0 | 96 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15No1-41 | Calcarenite | 2 | 0 | 98 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15No1-42 | Calcarenite | 1 | 0 | 99 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15No1-43 | Calcarenite | 2 | 0 | 98 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15No1-44 | Calcarenite | 1 | 0 | 99 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15No1-45 | Calcarenite | 2 | 0 | 98 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15No1-46 | Calcarenite | 2 | 0 | 98 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15No1-47 | Calcarenite | 1 | 0 | 99 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15No1-48 | Calcarenite | 1 | 0 | 99 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15No1-49 | Calcarenite | 3 | 0 | 97 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15No1-50 | Calcarenite | 5 | 0 | 95 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15No1-51 | Calcarenite | 4 | 0 | 96 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15No1-52 | Calcarenite | 5 | 0 | 95 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15No1-53 | Calcarenite | 5 | 0 | 95 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15No1-54 | Calcarenite | 4 | 0 | 96 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15No1-55 | Calcarenite | 5 | 0 | 95 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15No1-56 | Calcarenite | 2 | 0 | 98 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15No1-57 | Micritic limestone | 1 | 0 | 99 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15No1-58 | Micritic limestone | 1 | 0 | 99 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15No1-59 | Micritic limestone | 2 | 0 | 98 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15No1-60 | Micritic limestone | 3 | 0 | 97 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15No1-61 | Micritic limestone | 1 | 0 | 99 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15No1-62 | Micritic limestone | 1 | 0 | 99 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15No1-63 | Micritic limestone | 6 | 0 | 95 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15No1-64 | Calcarenite | 1 | 0 | 99 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15No1-65 | Calcarenite | 2 | 0 | 98 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15No1-66 | Calcarenite | 1 | 0 | 99 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15No1-67 | Calcarenite | 1 | 0 | 99 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15No1-68 | Calcarenite | 1 | 0 | 99 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15No1-69 | Calcarenite | 2 | 0 | 97 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15No1-70 | Calcarenite | 1 | 0 | 93 | 3 | 0 | 0 | 2 | 0 | 0 | 0 |
| 15No1-71 | Calcarenite | 2 | 0 | 98 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15No1-72 | Calcarenite | 1 | 0 | 99 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15No1-73 | Micritic limestone | 1 | 0 | 99 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15No1-74 | Micritic limestone | 1 | 0 | 99 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15No1-75 | Micritic limestone | 2 | 0 | 98 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15No1-76 | Micritic limestone | 2 | 0 | 96 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15No1-77 | Micritic limestone | 1 | 0 | 99 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15No1-78 | Micritic limestone | 1 | 0 | 99 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15No1-79 | Micritic limestone | 1 | 0 | 99 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15No1-80 | Micritic limestone | 2 | 0 | 98 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15No1-81 | Micritic limestone | 2 | 0 | 98 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15No1-82 | Micritic limestone | 38 | 20 | 15 | 0 | 0 | 0 | 28 | 20 | 55 | 25 |

Table S3. U-Pb zircon geochronologic analyses from the Quemo Co section in the Qiangtang Basin

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Sample nos | Th  (ppm) | | U  (ppm) | | U/Th | | 207Pb/206Pb | 1σ | | 207Pb/235U | 1σ | | | 206Pb/238U | 1σ | | 207Pb/206Pb | 1σ | | 207Pb/235U | | 1σ | | | 206Pb/238U | 1σ | | Best age | ± | | |
| (Ma) | (Ma) | | |
| QM-1-1 | 189 | 196 | | 1.04 | | 0.05809 | | | 0.00339 | 0.35564 | | 0.02 | 0.04516 | | 0.00073 | 531.5 | | | 129.6 | | 309.0 | | 14.5 | 284.8 | | 4.5 | 284.8 | | | 4.5 |
| QM-1-2 | 100 | 280 | | 2.79 | | 0.05567 | | | 0.00366 | 0.33613 | | 0.02 | 0.04410 | | 0.00082 | 438.9 | | | 150.9 | | 294.2 | | 16.9 | 278.2 | | 5.1 | 278.2 | | | 5.1 |
| QM-1-3 | 265 | 512 | | 1.93 | | 0.11817 | | | 0.00192 | 5.38936 | | 0.09 | 0.33052 | | 0.00344 | 1928.7 | | | 29.3 | | 1883.2 | | 14.0 | 1840.9 | | 16.7 | 1928.7 | | | 29.3 |
| QM-1-4 | 265 | 262 | | 0.99 | | 0.05616 | | | 0.00230 | 0.48769 | | 0.02 | 0.06401 | | 0.00080 | 457.5 | | | 90.7 | | 403.3 | | 11.8 | 400.0 | | 4.8 | 400.0 | | | 4.8 |
| QM-1-5 | 49 | 153 | | 3.11 | | 0.11665 | | | 0.00232 | 5.39799 | | 0.11 | 0.33493 | | 0.00354 | 1905.3 | | | 36.6 | | 1884.5 | | 18.1 | 1862.2 | | 17.1 | 1905.3 | | | 36.6 |
| QM-1-6 | 129 | 902 | | 7.01 | | 0.09268 | | | 0.00136 | 3.17005 | | 0.05 | 0.24760 | | 0.00283 | 1481.2 | | | 27.8 | | 1449.9 | | 13.1 | 1426.1 | | 14.6 | 1481.2 | | | 27.8 |
| QM-1-7 | 155 | 175 | | 1.13 | | 0.05627 | | | 0.00429 | 0.46860 | | 0.03 | 0.06132 | | 0.00112 | 461.2 | | | 175.0 | | 390.2 | | 23.5 | 383.7 | | 6.8 | 383.7 | | | 6.8 |
| QM-1-8 | 152 | 198 | | 1.30 | | 0.05802 | | | 0.00301 | 0.36932 | | 0.02 | 0.04670 | | 0.00071 | 531.5 | | | 112.9 | | 319.1 | | 14.0 | 294.2 | | 4.4 | 294.2 | | | 4.4 |
| QM-1-9 | 201 | 342 | | 1.70 | | 0.09214 | | | 0.00167 | 3.18514 | | 0.06 | 0.24994 | | 0.00240 | 1470.1 | | | 35.0 | | 1453.6 | | 15.5 | 1438.2 | | 12.4 | 1470.1 | | | 35.0 |
| QM-1-10 | 228 | 239 | | 1.05 | | 0.05328 | | | 0.00261 | 0.28419 | | 0.01 | 0.03909 | | 0.00055 | 342.7 | | | 111.1 | | 254.0 | | 10.7 | 247.2 | | 3.4 | 247.2 | | | 3.4 |
| QM-1-11 | 264 | 176 | | 0.67 | | 0.06747 | | | 0.00216 | 1.16789 | | 0.04 | 0.12642 | | 0.00147 | 853.7 | | | 66.7 | | 785.7 | | 16.7 | 767.4 | | 8.4 | 767.4 | | | 8.4 |
| QM-1-12 | 104 | 202 | | 1.95 | | 0.05375 | | | 0.00322 | 0.32040 | | 0.02 | 0.04337 | | 0.00080 | 361.2 | | | 139.8 | | 282.2 | | 15.4 | 273.7 | | 4.9 | 273.7 | | | 4.9 |
| QM-1-13 | 493 | 601 | | 1.22 | | 0.05303 | | | 0.00174 | 0.31957 | | 0.01 | 0.04408 | | 0.00050 | 331.5 | | | 106.5 | | 281.6 | | 7.6 | 278.1 | | 3.1 | 278.1 | | | 3.1 |
| QM-1-14 | 408 | 361 | | 0.88 | | 0.14217 | | | 0.00199 | 8.43932 | | 0.14 | 0.42932 | | 0.00358 | 2254.0 | | | 24.1 | | 2279.4 | | 14.7 | 2302.7 | | 16.2 | 2254.0 | | | 24.1 |
| QM-1-15 | 57 | 544 | | 9.46 | | 0.05957 | | | 0.00198 | 0.51857 | | 0.02 | 0.06319 | | 0.00086 | 587.1 | | | 67.6 | | 424.2 | | 11.9 | 395.0 | | 5.2 | 395.0 | | | 5.2 |
| QM-1-16 | 33 | 71 | | 2.12 | | 0.08249 | | | 0.00410 | 2.32817 | | 0.11 | 0.20561 | | 0.00383 | 1257.4 | | | 92.4 | | 1220.9 | | 35.0 | 1205.4 | | 20.5 | 1257.4 | | | 92.4 |
| QM-1-17 | 178 | 194 | | 1.09 | | 0.05608 | | | 0.00252 | 0.56400 | | 0.02 | 0.07355 | | 0.00105 | 453.8 | | | 100.0 | | 454.1 | | 16.0 | 457.5 | | 6.3 | 457.5 | | | 6.3 |
| QM-1-18 | 54 | 64 | | 1.19 | | 0.16000 | | | 0.00477 | 9.99817 | | 0.27 | 0.45722 | | 0.00686 | 2457.4 | | | 49.8 | | 2434.6 | | 24.7 | 2427.3 | | 30.4 | 2457.4 | | | 49.8 |
| QM-1-19 | 154 | 265 | | 1.72 | | 0.05234 | | | 0.00263 | 0.27914 | | 0.01 | 0.03925 | | 0.00051 | 301.9 | | | 110.2 | | 250.0 | | 10.7 | 248.2 | | 3.2 | 248.2 | | | 3.2 |
| QM-1-20 | 380 | 478 | | 1.26 | | 0.05235 | | | 0.00223 | 0.26042 | | 0.01 | 0.03655 | | 0.00046 | 301.9 | | | 91.7 | | 235.0 | | 8.7 | 231.4 | | 2.8 | 231.4 | | | 2.8 |
| QM-1-21 | 135 | 186 | | 1.37 | | 0.05401 | | | 0.00516 | 0.28849 | | 0.03 | 0.03954 | | 0.00101 | 372.3 | | | 216.6 | | 257.4 | | 20.6 | 250.0 | | 6.3 | 250.0 | | | 6.3 |
| QM-1-22 | 101 | 191 | | 1.90 | | 0.05853 | | | 0.00308 | 0.35691 | | 0.02 | 0.04506 | | 0.00065 | 550.0 | | | 114.8 | | 309.9 | | 13.3 | 284.1 | | 4.0 | 284.1 | | | 4.0 |
| QM-1-23 | 67 | 100 | | 1.49 | | 0.05613 | | | 0.00943 | 0.34014 | | 0.04 | 0.04581 | | 0.00166 | 457.5 | | | 378.5 | | 297.3 | | 32.7 | 288.8 | | 10.3 | 288.8 | | | 10.3 |
| QM-1-24 | 111 | 185 | | 1.67 | | 0.13356 | | | 0.00255 | 7.38865 | | 0.17 | 0.39929 | | 0.00507 | 2146.3 | | | 33.3 | | 2159.6 | | 20.9 | 2165.8 | | 23.4 | 2146.3 | | | 33.3 |
| QM-1-25 | 35 | 255 | | 7.33 | | 0.11637 | | | 0.00224 | 5.34926 | | 0.10 | 0.33404 | | 0.00337 | 2146.3 | | | 33.3 | | 1876.8 | | 15.6 | 1858.0 | | 16.3 | 2146.3 | | | 33.3 |
| QM-1-26 | 118 | 140 | | 1.19 | | 0.05673 | | | 0.00816 | 0.34225 | | 0.04 | 0.04591 | | 0.00207 | 479.7 | | | 322.2 | | 298.9 | | 33.7 | 289.4 | | 12.8 | 289.4 | | | 12.8 |
| QM-1-27 | 161 | 199 | | 1.24 | | 0.09275 | | | 0.00235 | 3.19791 | | 0.08 | 0.25068 | | 0.00335 | 1483.3 | | | 48.2 | | 1456.7 | | 19.2 | 1442.0 | | 17.3 | 1483.3 | | | 48.2 |
| QM-1-28 | 110 | 161 | | 1.46 | | 0.05735 | | | 0.00409 | 0.34627 | | 0.03 | 0.04419 | | 0.00077 | 505.6 | | | 157.4 | | 301.9 | | 19.0 | 278.8 | | 4.8 | 278.8 | | | 4.8 |
| QM-1-29 | 55 | 99 | | 1.79 | | 0.07629 | | | 0.00327 | 1.63130 | | 0.07 | 0.15542 | | 0.00223 | 1102.8 | | | 86.3 | | 982.4 | | 27.5 | 931.3 | | 12.4 | 931.3 | | | 12.4 |
| QM-1-30 | 397 | 250 | | 0.63 | | 0.12560 | | | 0.00250 | 6.42133 | | 0.11 | 0.37093 | | 0.00438 | 2038.9 | | | 35.2 | | 2035.2 | | 15.6 | 2033.8 | | 20.6 | 2038.9 | | | 35.2 |
| QM-1-31 | 123 | 296 | | 2.40 | | 0.11464 | | | 0.00193 | 5.31242 | | 0.10 | 0.33564 | | 0.00343 | 1875.9 | | | 31.0 | | 1870.9 | | 15.6 | 1865.7 | | 16.6 | 1875.9 | | | 31.0 |
| QM-1-32 | 186 | 284 | | 1.53 | | 0.05588 | | | 0.00277 | 0.39580 | | 0.02 | 0.05184 | | 0.00063 | 455.6 | | | 104.6 | | 338.6 | | 13.8 | 325.8 | | 3.9 | 325.8 | | | 3.9 |
| QM-1-33 | 345 | 417 | | 1.21 | | 0.10452 | | | 0.00208 | 3.96699 | | 0.09 | 0.27480 | | 0.00298 | 1705.9 | | | 36.9 | | 1627.5 | | 17.6 | 1565.1 | | 15.1 | 1705.9 | | | 36.9 |
| QM-1-34 | 96 | 335 | | 3.48 | | 0.10625 | | | 0.00184 | 4.58729 | | 0.10 | 0.31316 | | 0.00467 | 1736.1 | | | 31.5 | | 1747.0 | | 17.8 | 1756.2 | | 22.9 | 1736.1 | | | 31.5 |
| QM-1-35 | 257 | 306 | | 1.19 | | 0.05445 | | | 0.00259 | 0.33252 | | 0.01 | 0.04512 | | 0.00070 | 390.8 | | | 107.4 | | 291.5 | | 10.9 | 284.5 | | 4.3 | 284.5 | | | 4.3 |
| QM-1-36 | 146 | 331 | | 2.26 | | 0.09192 | | | 0.00197 | 3.15173 | | 0.07 | 0.24872 | | 0.00243 | 1465.7 | | | 40.7 | | 1445.4 | | 16.4 | 1431.9 | | 12.6 | 1465.7 | | | 40.7 |
| QM-1-37 | 77 | 167 | | 2.18 | | 0.05637 | | | 0.00508 | 0.28273 | | 0.02 | 0.03751 | | 0.00096 | 477.8 | | | 200.0 | | 252.8 | | 17.9 | 237.4 | | 6.0 | 237.4 | | | 6.0 |
| QM-1-38 | 132 | 74 | | 0.56 | | 0.11773 | | | 0.00318 | 5.39313 | | 0.15 | 0.33235 | | 0.00411 | 1921.9 | | | 48.5 | | 1883.8 | | 24.4 | 1849.8 | | 19.9 | 1921.9 | | | 48.5 |
| QM-1-39 | 62 | 451 | | 7.29 | | 0.11537 | | | 0.00304 | 5.33468 | | 0.10 | 0.33613 | | 0.00424 | 1887.0 | | | 46.8 | | 1874.4 | | 16.3 | 1868.0 | | 20.5 | 1887.0 | | | 46.8 |
| QM-1-40 | 440 | 424 | | 0.96 | | 0.05701 | | | 0.00229 | 0.33980 | | 0.01 | 0.04338 | | 0.00043 | 500.0 | | | 61.1 | | 297.0 | | 10.2 | 273.8 | | 2.7 | 273.8 | | | 2.7 |
| QM-1-41 | 84 | 100 | | 1.19 | | 0.05597 | | | 0.00682 | 0.33796 | | 0.04 | 0.04551 | | 0.00176 | 450.0 | | | 274.0 | | 295.6 | | 30.8 | 286.9 | | 10.8 | 286.9 | | | 10.8 |
| QM-1-42 | 112 | 117 | | 1.04 | | 0.05494 | | | 0.00741 | 0.32698 | | 0.04 | 0.04408 | | 0.00155 | 409.3 | | | 305.5 | | 287.3 | | 32.9 | 278.1 | | 9.5 | 278.1 | | | 9.5 |
| QM-1-43 | 121 | 232 | | 1.92 | | 0.10398 | | | 0.00234 | 4.53989 | | 0.11 | 0.31619 | | 0.00414 | 1698.2 | | | 42.4 | | 1738.3 | | 20.1 | 1771.1 | | 20.3 | 1698.2 | | | 42.4 |
| QM-1-44 | 181 | 586 | | 3.25 | | 0.13392 | | | 0.00448 | 7.25193 | | 0.20 | 0.39610 | | 0.00481 | 2150.3 | | | 58.3 | | 2142.9 | | 24.4 | 2151.1 | | 22.2 | 2150.3 | | | 58.3 |
| QM-1-45 | 232 | 241 | | 1.04 | | 0.05300 | | | 0.00306 | 0.33234 | | 0.02 | 0.04548 | | 0.00083 | 327.8 | | | 131.5 | | 291.3 | | 14.9 | 286.7 | | 5.1 | 286.7 | | | 5.1 |
| QM-1-46 | 252 | 432 | | 1.71 | | 0.05452 | | | 0.00216 | 0.43467 | | 0.02 | 0.05801 | | 0.00072 | 390.8 | | | 88.9 | | 366.5 | | 12.2 | 363.5 | | 4.4 | 363.5 | | | 4.4 |
| QM-1-47 | 78 | 137 | | 1.77 | | 0.14313 | | | 0.00299 | 8.38900 | | 0.19 | 0.42459 | | 0.00487 | 2265.1 | | | 36.6 | | 2274.0 | | 20.1 | 2281.3 | | 22.1 | 2265.1 | | | 36.6 |
| QM-1-48 | 220 | 171 | | 0.78 | | 0.05424 | | | 0.00509 | 0.43075 | | 0.04 | 0.05883 | | 0.00134 | 388.9 | | | 217.6 | | 363.7 | | 25.8 | 368.5 | | 8.2 | 368.5 | | | 8.2 |
| QM-1-49 | 157 | 907 | | 5.79 | | 0.09421 | | | 0.00207 | 3.14691 | | 0.08 | 0.24514 | | 0.00637 | 1522.2 | | | 41.8 | | 1444.2 | | 20.4 | 1413.4 | | 33.0 | 1522.2 | | | 41.8 |
| QM-1-50 | 126 | 329 | | 2.61 | | 0.05378 | | | 0.00270 | 0.29607 | | 0.01 | 0.04051 | | 0.00053 | 361.2 | | | 114.8 | | 263.3 | | 11.1 | 256.0 | | 3.3 | 256.0 | | | 3.3 |
| QM-1-51 | 336 | 318 | | 0.95 | | 0.05487 | | | 0.00281 | 0.33436 | | 0.02 | 0.04467 | | 0.00067 | 405.6 | | | 114.8 | | 292.9 | | 12.3 | 281.7 | | 4.1 | 281.7 | | | 4.1 |
| QM-1-52 | 117 | 375 | | 3.22 | | 0.05987 | | | 0.00331 | 0.39644 | | 0.02 | 0.04899 | | 0.00101 | 598.2 | | | 123.1 | | 339.1 | | 14.5 | 308.3 | | 6.2 | 308.3 | | | 6.2 |
| QM-1-53 | 98 | 500 | | 5.10 | | 0.11467 | | | 0.00253 | 5.32907 | | 0.10 | 0.33469 | | 0.00622 | 1875.9 | | | 39.3 | | 1873.5 | | 16.6 | 1861.1 | | 30.0 | 1875.9 | | | 39.3 |
| QM-1-54 | 393 | 931 | | 2.37 | | 0.04971 | | | 0.00165 | 0.27739 | | 0.01 | 0.04020 | | 0.00053 | 189.0 | | | 77.8 | | 248.6 | | 7.9 | 254.1 | | 3.3 | 254.1 | | | 3.3 |
| QM-1-55 | 173 | 225 | | 1.30 | | 0.05346 | | | 0.00441 | 0.31841 | | 0.03 | 0.04393 | | 0.00096 | 350.1 | | | 187.0 | | 280.7 | | 19.5 | 277.1 | | 5.9 | 277.1 | | | 5.9 |
| QM-1-56 | 194 | 373 | | 1.93 | | 0.05188 | | | 0.00277 | 0.27411 | | 0.01 | 0.03883 | | 0.00061 | 279.7 | | | 122.2 | | 246.0 | | 10.7 | 245.6 | | 3.8 | 245.6 | | | 3.8 |
| QM-1-57 | 46 | 989 | | 21.51 | | 0.10114 | | | 0.00168 | 3.85661 | | 0.07 | 0.27589 | | 0.00329 | 1655.6 | | | 31.0 | | 1604.7 | | 13.9 | 1570.6 | | 16.6 | 1655.6 | | | 31.0 |
| QM-1-58 | 192 | 217 | | 1.13 | | 0.05476 | | | 0.00374 | 0.32839 | | 0.02 | 0.04342 | | 0.00110 | 466.7 | | | 153.7 | | 288.3 | | 18.7 | 274.0 | | 6.8 | 274.0 | | | 6.8 |
| QM-1-59 | 126 | 232 | | 1.83 | | 0.13474 | | | 0.00256 | 7.39225 | | 0.14 | 0.39733 | | 0.00427 | 2160.8 | | | 33.3 | | 2160.0 | | 17.5 | 2156.7 | | 19.7 | 2160.8 | | | 33.3 |
| QM-1-60 | 392 | 361 | | 0.92 | | 0.05384 | | | 0.00239 | 0.41625 | | 0.02 | 0.05650 | | 0.00085 | 364.9 | | | 100.0 | | 353.4 | | 13.2 | 354.3 | | 5.2 | 354.3 | | | 5.2 |
| QM-1-61 | 84 | 288 | | 3.43 | | 0.05369 | | | 0.00291 | 0.44825 | | 0.02 | 0.06165 | | 0.00152 | 366.7 | | | 122.2 | | 376.1 | | 16.9 | 385.6 | | 9.2 | 385.6 | | | 9.2 |
| QM-1-62 | 224 | 393 | | 1.75 | | 0.10397 | | | 0.00207 | 3.93501 | | 0.10 | 0.27394 | | 0.00534 | 1696.0 | | | 36.7 | | 1620.9 | | 21.3 | 1560.8 | | 27.0 | 1696.0 | | | 36.7 |
| QM-1-63 | 110 | 163 | | 1.48 | | 0.05454 | | | 0.00363 | 0.32832 | | 0.02 | 0.04453 | | 0.00081 | 394.5 | | | 182.4 | | 288.3 | | 16.4 | 280.9 | | 5.0 | 280.9 | | | 5.0 |
| QM-1-64 | 137 | 158 | | 1.15 | | 0.05300 | | | 0.00848 | 0.31930 | | 0.04 | 0.04378 | | 0.00140 | 327.8 | | | 329.6 | | 281.4 | | 34.5 | 276.2 | | 8.7 | 276.2 | | | 8.7 |
| QM-1-65 | 162 | 357 | | 2.20 | | 0.05262 | | | 0.00365 | 0.27024 | | 0.02 | 0.03750 | | 0.00072 | 322.3 | | | 159.2 | | 242.9 | | 15.0 | 237.3 | | 4.5 | 237.3 | | | 4.5 |
| QM-1-66 | 123 | 174 | | 1.42 | | 0.05607 | | | 0.00628 | 0.30626 | | 0.03 | 0.04151 | | 0.00133 | 453.8 | | | 251.8 | | 271.3 | | 23.4 | 262.2 | | 8.2 | 262.2 | | | 8.2 |
| QM-1-67 | 793 | 1074 | | 1.35 | | 0.05193 | | | 0.00197 | 0.26699 | | 0.01 | 0.03749 | | 0.00043 | 283.4 | | | 87.0 | | 240.3 | | 7.5 | 237.3 | | 2.7 | 237.3 | | | 2.7 |
| QM-1-68 | 101 | 158 | | 1.56 | | 0.08105 | | | 0.00278 | 2.33015 | | 0.08 | 0.20897 | | 0.00248 | 1233.3 | | | 67.4 | | 1221.5 | | 24.0 | 1223.3 | | 13.2 | 1233.3 | | | 67.4 |
| QM-1-69 | 323 | 392 | | 1.21 | | 0.14531 | | | 0.00213 | 8.41174 | | 0.13 | 0.41877 | | 0.00369 | 2291.7 | | | 25.3 | | 2276.4 | | 14.2 | 2254.9 | | 16.8 | 2291.7 | | | 25.3 |
| QM-1-70 | 199 | 400 | | 2.01 | | 0.05230 | | | 0.00296 | 0.27973 | | 0.02 | 0.03870 | | 0.00069 | 298.2 | | | 134.2 | | 250.4 | | 13.1 | 244.8 | | 4.3 | 244.8 | | | 4.3 |
| QM-1-71 | 114 | 131 | | 1.15 | | 0.05798 | | | 0.00544 | 0.35178 | | 0.04 | 0.04399 | | 0.00154 | 527.8 | | | 207.4 | | 306.1 | | 26.9 | 277.5 | | 9.5 | 277.5 | | | 9.5 |
| QM-1-72 | 219 | 275 | | 1.26 | | 0.05235 | | | 0.00334 | 0.28897 | | 0.02 | 0.04043 | | 0.00080 | 301.9 | | | 144.4 | | 257.8 | | 14.0 | 255.5 | | 5.0 | 255.5 | | | 5.0 |
| QM-1-73 | 100 | 137 | | 1.37 | | 0.05535 | | | 0.00634 | 0.29495 | | 0.03 | 0.03902 | | 0.00152 | 427.8 | | | 257.4 | | 262.4 | | 27.4 | 246.8 | | 9.4 | 246.8 | | | 9.4 |
| QM-1-74 | 55 | 67 | | 1.23 | | 0.09307 | | | 0.00460 | 3.12759 | | 0.16 | 0.24413 | | 0.00498 | 1500.0 | | | 93.8 | | 1439.5 | | 39.3 | 1408.1 | | 25.8 | 1500.0 | | | 93.8 |
| QM-1-75 | 256 | 463 | | 1.81 | | 0.05472 | | | 0.00267 | 0.27691 | | 0.01 | 0.03722 | | 0.00051 | 466.7 | | | 109.2 | | 248.2 | | 10.0 | 235.6 | | 3.2 | 235.6 | | | 3.2 |
| QM-1-76 | 152 | 224 | | 1.47 | | 0.09853 | | | 0.00200 | 3.77839 | | 0.08 | 0.27792 | | 0.00268 | 1598.2 | | | 38.4 | | 1588.2 | | 16.6 | 1580.9 | | 13.5 | 1598.2 | | | 38.4 |
| QM-1-77 | 167 | 380 | | 2.27 | | 0.11396 | | | 0.00208 | 5.28906 | | 0.10 | 0.33703 | | 0.00342 | 1864.8 | | | 32.3 | | 1867.1 | | 15.5 | 1872.4 | | 16.5 | 1864.8 | | | 32.3 |
| QM-1-78 | 335 | 631 | | 1.88 | | 0.05201 | | | 0.00333 | 0.29411 | | 0.02 | 0.04169 | | 0.00064 | 287.1 | | | 150.9 | | 261.8 | | 13.8 | 263.3 | | 4.0 | 263.3 | | | 4.0 |
| QM-1-79 | 160 | 601 | | 3.74 | | 0.05511 | | | 0.00250 | 0.44369 | | 0.02 | 0.05920 | | 0.00096 | 416.7 | | | 97.2 | | 372.8 | | 13.3 | 370.7 | | 5.8 | 370.7 | | | 5.8 |
| QM-1-80 | 114 | 199 | | 1.75 | | 0.05927 | | | 0.00686 | 0.38751 | | 0.04 | 0.04906 | | 0.00183 | 576.0 | | | 253.7 | | 332.5 | | 30.3 | 308.7 | | 11.3 | 308.7 | | | 11.3 |
| QM-1-81 | 56 | 117 | | 2.09 | | 0.05885 | | | 0.00959 | 0.36739 | | 0.05 | 0.04911 | | 0.00283 | 561.1 | | | 358.3 | | 317.7 | | 39.4 | 309.0 | | 17.4 | 309.0 | | | 17.4 |
| QM-1-82 | 45 | 91 | | 2.04 | | 0.11027 | | | 0.00411 | 4.65797 | | 0.16 | 0.31129 | | 0.00552 | 1805.6 | | | 35.0 | | 1759.7 | | 29.6 | 1747.1 | | 27.1 | 1805.6 | | | 35.0 |
| QM-1-83 | 36 | 66 | | 1.84 | | 0.11183 | | | 0.00461 | 4.66898 | | 0.19 | 0.30911 | | 0.00602 | 1829.3 | | | 74.2 | | 1761.7 | | 33.2 | 1736.3 | | 29.6 | 1829.3 | | | 74.2 |
| QM-1-84 | 597 | 532 | | 0.89 | | 0.05321 | | | 0.00315 | 0.29462 | | 0.02 | 0.04039 | | 0.00056 | 338.9 | | | 133.3 | | 262.2 | | 13.6 | 255.3 | | 3.4 | 255.3 | | | 3.4 |
| QM-1-85 | 75 | 141 | | 1.89 | | 0.08655 | | | 0.00266 | 2.47749 | | 0.08 | 0.20822 | | 0.00290 | 1350.3 | | | 54.6 | | 1265.5 | | 22.7 | 1219.3 | | 15.5 | 1350.3 | | | 54.6 |
| QM-1-86 | 73 | 232 | | 3.19 | | 0.11794 | | | 0.00509 | 5.38218 | | 0.21 | 0.33099 | | 0.00515 | 1925.0 | | | 105.6 | | 1882.0 | | 34.2 | 1843.2 | | 24.9 | 1882.0 | | | 34.2 |
| QM-1-87 | 70 | 912 | | 13.04 | | 0.10051 | | | 0.00144 | 3.82270 | | 0.06 | 0.27547 | | 0.00217 | 1635.2 | | | 27.3 | | 1597.5 | | 12.2 | 1568.5 | | 11.0 | 1597.5 | | | 12.2 |
| QM-1-88 | 124 | 166 | | 1.34 | | 0.05255 | | | 0.00398 | 0.25584 | | 0.02 | 0.03700 | | 0.00072 | 309.3 | | | 172.2 | | 231.3 | | 14.3 | 234.2 | | 4.5 | 234.2 | | | 4.5 |
| QM-1-89 | 262 | 240 | | 0.92 | | 0.09044 | | | 0.00185 | 3.10366 | | 0.06 | 0.24883 | | 0.00225 | 1435.2 | | | 38.9 | | 1433.6 | | 15.8 | 1432.5 | | 11.6 | 1433.6 | | | 15.8 |
| QM-1-90 | 235 | 212 | | 0.90 | | 0.05822 | | | 0.00352 | 0.33694 | | 0.02 | 0.04367 | | 0.00080 | 538.9 | | | 133.3 | | 294.9 | | 13.7 | 275.6 | | 5.0 | 275.6 | | | 5.0 |
| QM-1-91 | 93 | 175 | | 1.89 | | 0.11812 | | | 0.00256 | 5.38974 | | 0.12 | 0.33066 | | 0.00302 | 1928.1 | | | 38.9 | | 1883.2 | | 18.6 | 1841.6 | | 14.7 | 1883.2 | | | 18.6 |
| QM-1-92 | 292 | 396 | | 1.36 | | 0.05597 | | | 0.00244 | 0.45754 | | 0.02 | 0.05974 | | 0.00084 | 450.0 | | | 98.1 | | 382.5 | | 13.9 | 374.0 | | 5.1 | 374.0 | | | 5.1 |
| QM-1-93 | 67 | 209 | | 3.13 | | 0.09431 | | | 0.00316 | 3.17130 | | 0.11 | 0.24350 | | 0.00365 | 1514.5 | | | 63.1 | | 1450.2 | | 27.0 | 1404.9 | | 18.9 | 1450.2 | | | 27.0 |
| QM-1-94 | 321 | 521 | | 1.62 | | 0.05230 | | | 0.00230 | 0.31385 | | 0.01 | 0.04378 | | 0.00085 | 298.2 | | | 100.0 | | 277.2 | | 10.6 | 276.2 | | 5.3 | 276.2 | | | 5.3 |
| QM-1-95 | 105 | 190 | | 1.82 | | 0.05842 | | | 0.00393 | 0.36499 | | 0.02 | 0.04584 | | 0.00066 | 546.3 | | | 148.1 | | 315.9 | | 17.6 | 288.9 | | 4.1 | 288.9 | | | 4.1 |
| QM-1-96 | 293 | 570 | | 1.95 | | 0.05489 | | | 0.00287 | 0.28619 | | 0.01 | 0.03797 | | 0.00043 | 409.3 | | | 116.7 | | 255.6 | | 11.4 | 240.2 | | 2.7 | 240.2 | | | 2.7 |
| QM-1-97 | 73 | 824 | | 11.35 | | 0.21252 | | | 0.00293 | 14.92583 | | 0.30 | 0.50553 | | 0.00631 | 2925.0 | | | 22.5 | | 2810.5 | | 19.3 | 2637.5 | | 27.0 | 2925.0 | | | 22.5 |
| QM-1-98 | 164 | 135 | | 0.83 | | 0.09067 | | | 0.00266 | 3.08025 | | 0.09 | 0.24651 | | 0.00292 | 1439.8 | | | 55.6 | | 1427.8 | | 22.6 | 1420.5 | | 15.1 | 1439.8 | | | 55.6 |
| QM-1-99 | 272 | 483 | | 1.78 | | 0.05091 | | | 0.00245 | 0.26241 | | 0.01 | 0.03762 | | 0.00047 | 235.3 | | | 111.1 | | 236.6 | | 9.8 | 238.1 | | 2.9 | 238.1 | | | 2.9 |
| QM-2-1 | 435 | 1101 | | 2.53 | | 0.05362 | | | 0.00411 | 0.27319 | | 0.02 | 0.03710 | | 0.00068 | 353.8 | | | 174.1 | | 245.2 | | 15.3 | 234.8 | | 4.2 | 234.8 | | | 4.2 |
| QM-2-2 | 185 | 416 | | 2.25 | | 0.07345 | | | 0.00193 | 1.55885 | | 0.04 | 0.15404 | | 0.00165 | 1027.8 | | | 53.7 | | 954.0 | | 16.4 | 923.6 | | 9.2 | 1027.8 | | | 53.7 |
| QM-2-3 | 77 | 165 | | 2.16 | | 0.08963 | | | 0.00278 | 2.84348 | | 0.09 | 0.23137 | | 0.00290 | 1417.6 | | | 54.6 | | 1367.1 | | 22.6 | 1341.6 | | 15.2 | 1417.6 | | | 54.6 |
| QM-2-4 | 98 | 80 | | 0.82 | | 0.10130 | | | 0.00375 | 3.76141 | | 0.14 | 0.27053 | | 0.00409 | 1647.8 | | | 63.9 | | 1584.5 | | 30.7 | 1543.5 | | 20.8 | 1647.8 | | | 63.9 |
| QM-2-5 | 101 | 145 | | 1.44 | | 0.15895 | | | 0.00350 | 10.24051 | | 0.22 | 0.46926 | | 0.00689 | 2455.6 | | | 37.3 | | 2456.7 | | 20.1 | 2480.3 | | 30.2 | 2455.6 | | | 37.3 |
| QM-2-6 | 88 | 137 | | 1.57 | | 0.15953 | | | 0.00368 | 10.25742 | | 0.25 | 0.46629 | | 0.00518 | 2450.9 | | | 44.6 | | 2458.3 | | 22.6 | 2467.3 | | 22.8 | 2450.9 | | | 44.6 |
| QM-2-7 | 116 | 196 | | 1.69 | | 0.07377 | | | 0.00249 | 1.56346 | | 0.05 | 0.15418 | | 0.00232 | 1035.2 | | | 68.5 | | 955.8 | | 21.6 | 924.4 | | 13.0 | 1035.2 | | | 68.5 |
| QM-2-8 | 132 | 233 | | 1.77 | | 0.05870 | | | 0.00210 | 0.79516 | | 0.03 | 0.09889 | | 0.00113 | 566.7 | | | 77.8 | | 594.1 | | 15.5 | 607.9 | | 6.6 | 607.9 | | | 6.6 |
| QM-2-9 | 100 | 391 | | 3.93 | | 0.05900 | | | 0.00197 | 0.69319 | | 0.02 | 0.08576 | | 0.00101 | 568.6 | | | 69.4 | | 534.7 | | 13.0 | 530.4 | | 6.0 | 530.4 | | | 6.0 |
| QM-2-10 | 93 | 405 | | 4.34 | | 0.11604 | | | 0.00224 | 4.87653 | | 0.10 | 0.30449 | | 0.00287 | 1896.0 | | | 35.3 | | 1798.2 | | 16.6 | 1713.5 | | 14.2 | 1896.0 | | | 35.3 |
| QM-2-11 | 92 | 133 | | 1.44 | | 0.16304 | | | 0.00317 | 10.46965 | | 0.21 | 0.46542 | | 0.00475 | 2487.3 | | | 33.0 | | 2477.2 | | 18.5 | 2463.4 | | 20.9 | 2487.3 | | | 33.0 |
| QM-2-12 | 455 | 530 | | 1.16 | | 0.05865 | | | 0.00223 | 0.39333 | | 0.02 | 0.04871 | | 0.00057 | 553.7 | | | 78.7 | | 336.8 | | 11.3 | 306.6 | | 3.5 | 306.6 | | | 3.5 |
| QM-2-13 | 37 | 232 | | 6.34 | | 0.07142 | | | 0.00236 | 1.53813 | | 0.05 | 0.15649 | | 0.00178 | 968.5 | | | 66.7 | | 945.8 | | 20.0 | 937.3 | | 9.9 | 937.3 | | | 9.9 |
| QM-2-14 | 282 | 227 | | 0.80 | | 0.05852 | | | 0.00223 | 0.68004 | | 0.03 | 0.08473 | | 0.00101 | 550.0 | | | 83.3 | | 526.8 | | 15.4 | 524.3 | | 6.0 | 524.3 | | | 6.0 |
| QM-2-15 | 212 | 491 | | 2.32 | | 0.05354 | | | 0.00158 | 0.51758 | | 0.02 | 0.07011 | | 0.00070 | 350.1 | | | 66.7 | | 423.5 | | 10.2 | 436.8 | | 4.2 | 436.8 | | | 4.2 |
| QM-2-16 | 304 | 909 | | 2.99 | | 0.05154 | | | 0.00156 | 0.26052 | | 0.01 | 0.03651 | | 0.00040 | 264.9 | | | 68.5 | | 235.1 | | 6.8 | 231.2 | | 2.5 | 231.2 | | | 2.5 |
| QM-2-17 | 209 | 416 | | 1.99 | | 0.16573 | | | 0.00169 | 9.73536 | | 0.10 | 0.42510 | | 0.00296 | 2516.7 | | | 17.0 | | 2410.1 | | 9.5 | 2283.6 | | 13.4 | 2516.7 | | | 17.0 |
| QM-2-18 | 236 | 238 | | 1.01 | | 0.22108 | | | 0.00219 | 16.75795 | | 0.19 | 0.54881 | | 0.00530 | 2988.6 | | | 16.1 | | 2921.1 | | 11.0 | 2820.2 | | 22.1 | 2988.6 | | | 16.1 |
| QM-2-19 | 84 | 458 | | 5.45 | | 0.11425 | | | 0.00184 | 5.34847 | | 0.09 | 0.33918 | | 0.00296 | 1933.3 | | | 29.6 | | 1876.6 | | 14.6 | 1882.7 | | 14.2 | 1933.3 | | | 29.6 |
| QM-2-20 | 60 | 300 | | 4.99 | | 0.07443 | | | 0.00170 | 1.82333 | | 0.04 | 0.17792 | | 0.00151 | 1053.7 | | | 46.3 | | 1053.9 | | 14.5 | 1055.6 | | 8.3 | 1053.7 | | | 46.3 |
| QM-2-21 | 282 | 792 | | 2.81 | | 0.05498 | | | 0.00141 | 0.54593 | | 0.01 | 0.07206 | | 0.00072 | 413.0 | | | 62.0 | | 442.3 | | 9.3 | 448.6 | | 4.3 | 448.6 | | | 4.3 |
| QM-2-22 | 56 | 286 | | 5.09 | | 0.07456 | | | 0.00174 | 1.82332 | | 0.05 | 0.17723 | | 0.00196 | 1057.4 | | | 46.8 | | 1053.9 | | 16.5 | 1051.8 | | 10.7 | 1057.4 | | | 46.8 |
| QM-2-23 | 147 | 173 | | 1.18 | | 0.11393 | | | 0.00212 | 5.39266 | | 0.10 | 0.34384 | | 0.00337 | 1864.8 | | | 33.3 | | 1883.7 | | 16.1 | 1905.1 | | 16.2 | 1864.8 | | | 33.3 |
| QM-2-24 | 109 | 711 | | 6.51 | | 0.11715 | | | 0.00170 | 5.54453 | | 0.10 | 0.34210 | | 0.00323 | 1913.3 | | | 26.2 | | 1907.5 | | 15.3 | 1896.7 | | 15.5 | 1913.3 | | | 26.2 |
| QM-2-25 | 119 | 517 | | 4.34 | | 0.11315 | | | 0.00185 | 5.34717 | | 0.09 | 0.34267 | | 0.00254 | 1850.3 | | | 29.6 | | 1876.4 | | 14.2 | 1899.5 | | 12.2 | 1850.3 | | | 29.6 |
| QM-2-26 | 54 | 85 | | 1.57 | | 0.05976 | | | 0.00456 | 0.59139 | | 0.04 | 0.07309 | | 0.00138 | 594.5 | | | 166.6 | | 471.8 | | 28.5 | 454.7 | | 8.3 | 454.7 | | | 8.3 |
| QM-2-27 | 61 | 184 | | 3.00 | | 0.11455 | | | 0.00227 | 5.46244 | | 0.12 | 0.34580 | | 0.00386 | 1872.5 | | | 36.3 | | 1894.7 | | 18.4 | 1914.5 | | 18.5 | 1872.5 | | | 36.3 |
| QM-2-28 | 138 | 381 | | 2.76 | | 0.11583 | | | 0.00220 | 5.45780 | | 0.10 | 0.34260 | | 0.00332 | 1894.4 | | | 34.7 | | 1894.0 | | 15.4 | 1899.1 | | 15.9 | 1894.4 | | | 34.7 |
| QM-2-29 | 150 | 449 | | 3.00 | | 0.11524 | | | 0.00275 | 5.48002 | | 0.13 | 0.34439 | | 0.00369 | 1883.6 | | | 44.0 | | 1897.5 | | 20.8 | 1907.7 | | 17.7 | 1883.6 | | | 44.0 |
| QM-2-30 | 74 | 96 | | 1.29 | | 0.05934 | | | 0.00430 | 0.42010 | | 0.03 | 0.05269 | | 0.00129 | 588.9 | | | 158.2 | | 356.1 | | 20.6 | 331.0 | | 7.9 | 331.0 | | | 7.9 |
| QM-2-31 | 1396 | 1101 | | 0.79 | | 0.05473 | | | 0.00162 | 0.28984 | | 0.01 | 0.03843 | | 0.00038 | 466.7 | | | 60.2 | | 258.4 | | 6.7 | 243.1 | | 2.4 | 243.1 | | | 2.4 |
| QM-2-32 | 78 | 154 | | 1.97 | | 0.11442 | | | 0.00610 | 5.41522 | | 0.34 | 0.34151 | | 0.00545 | 1872.2 | | | 96.3 | | 1887.3 | | 53.8 | 1893.9 | | 26.2 | 1872.2 | | | 96.3 |
| QM-2-33 | 163 | 157 | | 0.97 | | 0.07258 | | | 0.00270 | 1.34257 | | 0.05 | 0.13473 | | 0.00195 | 1011.1 | | | 75.9 | | 864.3 | | 21.4 | 814.8 | | 11.1 | 1011.1 | | | 75.9 |
| QM-2-34 | 127 | 169 | | 1.34 | | 0.05158 | | | 0.00402 | 0.34540 | | 0.03 | 0.04989 | | 0.00096 | 333.4 | | | 179.6 | | 301.3 | | 19.0 | 313.9 | | 5.9 | 313.9 | | | 5.9 |
| QM-2-35 | 101 | 151 | | 1.50 | | 0.05827 | | | 0.00285 | 0.57347 | | 0.03 | 0.07148 | | 0.00110 | 538.9 | | | 107.4 | | 460.3 | | 18.3 | 445.1 | | 6.6 | 445.1 | | | 6.6 |
| QM-2-36 | 74 | 47 | | 0.64 | | 0.16679 | | | 0.00426 | 11.17570 | | 0.30 | 0.48767 | | 0.00671 | 2525.6 | | | 42.4 | | 2537.9 | | 24.9 | 2560.6 | | 29.1 | 2525.6 | | | 42.4 |
| QM-2-37 | 98 | 609 | | 6.23 | | 0.11378 | | | 0.00231 | 5.39111 | | 0.11 | 0.34339 | | 0.00348 | 1861.1 | | | 32.4 | | 1883.4 | | 17.7 | 1903.0 | | 16.7 | 1861.1 | | | 32.4 |
| QM-2-38 | 68 | 140 | | 2.07 | | 0.06890 | | | 0.00399 | 1.35900 | | 0.08 | 0.14438 | | 0.00214 | 896.0 | | | 119.3 | | 871.4 | | 32.4 | 869.4 | | 12.0 | 869.4 | | | 12.0 |
| QM-2-39 | 179 | 223 | | 1.24 | | 0.05507 | | | 0.00773 | 0.27573 | | 0.04 | 0.03642 | | 0.00130 | 416.7 | | | 318.5 | | 247.3 | | 30.1 | 230.6 | | 8.1 | 230.6 | | | 8.1 |
| QM-2-40 | 145 | 183 | | 1.26 | | 0.07013 | | | 0.00410 | 1.41425 | | 0.08 | 0.14647 | | 0.00240 | 931.5 | | | 120.4 | | 894.9 | | 35.0 | 881.1 | | 13.5 | 881.1 | | | 13.5 |
| QM-2-41 | 38 | 115 | | 3.02 | | 0.07307 | | | 0.00293 | 1.74350 | | 0.07 | 0.17387 | | 0.00240 | 1016.7 | | | 81.0 | | 1024.8 | | 26.2 | 1033.4 | | 13.2 | 1016.7 | | | 81.0 |
| QM-2-42 | 268 | 377 | | 1.41 | | 0.05360 | | | 0.00362 | 0.27529 | | 0.02 | 0.03734 | | 0.00059 | 353.8 | | | 153.7 | | 246.9 | | 15.0 | 236.3 | | 3.7 | 236.3 | | | 3.7 |
| QM-2-43 | 171 | 221 | | 1.30 | | 0.10645 | | | 0.00219 | 4.56834 | | 0.10 | 0.31143 | | 0.00357 | 1739.2 | | | 37.5 | | 1743.5 | | 17.8 | 1747.7 | | 17.5 | 1739.2 | | | 37.5 |
| QM-2-44 | 183 | 162 | | 0.88 | | 0.10088 | | | 0.00269 | 3.98275 | | 0.10 | 0.28698 | | 0.00286 | 1640.4 | | | 54.6 | | 1630.7 | | 20.8 | 1626.4 | | 14.3 | 1640.4 | | | 54.6 |
| QM-2-45 | 120 | 202 | | 1.69 | | 0.14066 | | | 0.00248 | 7.99485 | | 0.15 | 0.41204 | | 0.00413 | 2235.5 | | | 30.1 | | 2230.4 | | 16.6 | 2224.2 | | 18.8 | 2235.5 | | | 30.1 |
| QM-2-46 | 287 | 247 | | 0.86 | | 0.24433 | | | 0.00369 | 20.70507 | | 0.34 | 0.61387 | | 0.00596 | 3150.0 | | | 23.8 | | 3124.9 | | 15.7 | 3085.5 | | 23.8 | 3150.0 | | | 23.8 |
| QM-2-47 | 396 | 228 | | 0.58 | | 0.05772 | | | 0.00208 | 0.67622 | | 0.02 | 0.08545 | | 0.00099 | 520.4 | | | 78.5 | | 524.5 | | 14.5 | 528.6 | | 5.9 | 528.6 | | | 5.9 |
| QM-2-48 | 69 | 69 | | 1.00 | | 0.16997 | | | 0.00352 | 11.51900 | | 0.24 | 0.49388 | | 0.00633 | 2557.1 | | | 33.8 | | 2566.1 | | 19.5 | 2587.4 | | 27.3 | 2557.1 | | | 33.8 |
| QM-2-49 | 186 | 230 | | 1.24 | | 0.05964 | | | 0.00245 | 0.60155 | | 0.03 | 0.07318 | | 0.00096 | 590.8 | | | 88.9 | | 478.2 | | 16.1 | 455.3 | | 5.8 | 455.3 | | | 5.8 |
| QM-2-50 | 79 | 70 | | 0.89 | | 0.17319 | | | 0.00341 | 11.60192 | | 0.21 | 0.48921 | | 0.00607 | 2588.6 | | | 33.0 | | 2572.8 | | 16.6 | 2567.3 | | 26.3 | 2588.6 | | | 33.0 |
| QM-2-51 | 239 | 962 | | 4.03 | | 0.07019 | | | 0.00127 | 1.59030 | | 0.03 | 0.16431 | | 0.00147 | 1000.0 | | | 38.1 | | 966.4 | | 11.7 | 980.7 | | 8.1 | 1000.0 | | | 38.1 |
| QM-2-52 | 123 | 1039 | | 8.45 | | 0.14444 | | | 0.00113 | 8.30413 | | 0.09 | 0.41667 | | 0.00344 | 2281.2 | | | -19.3 | | 2264.8 | | 9.5 | 2245.3 | | 15.7 | 2281.2 | | | -19.3 |
| QM-2-53 | 32 | 242 | | 7.46 | | 0.11601 | | | 0.00165 | 5.47525 | | 0.08 | 0.34295 | | 0.00301 | 1896.0 | | | 25.6 | | 1896.7 | | 12.0 | 1900.9 | | 14.5 | 1896.0 | | | 25.6 |
| QM-2-54 | 26 | 474 | | 17.98 | | 0.11314 | | | 0.00168 | 5.35295 | | 0.10 | 0.34293 | | 0.00403 | 1850.3 | | | 21.8 | | 1877.4 | | 15.6 | 1900.8 | | 19.4 | 1850.3 | | | 21.8 |
| QM-2-55 | 86 | 99 | | 1.15 | | 0.06940 | | | 0.00410 | 1.26325 | | 0.08 | 0.13276 | | 0.00217 | 910.8 | | | 122.2 | | 829.4 | | 35.6 | 803.6 | | 12.3 | 803.6 | | | 12.3 |
| QM-2-56 | 192 | 270 | | 1.40 | | 0.11753 | | | 0.00152 | 5.53071 | | 0.08 | 0.34155 | | 0.00299 | 1920.4 | | | 23.6 | | 1905.4 | | 12.3 | 1894.1 | | 14.4 | 1920.4 | | | 23.6 |
| QM-2-57 | 54 | 227 | | 4.23 | | 0.18632 | | | 0.00176 | 14.51807 | | 0.17 | 0.56546 | | 0.00508 | 2710.2 | | | 15.7 | | 2784.2 | | 11.2 | 2889.2 | | 20.9 | 2710.2 | | | 15.7 |
| QM-2-58 | 207 | 509 | | 2.46 | | 0.05588 | | | 0.00339 | 0.30241 | | 0.02 | 0.03967 | | 0.00072 | 455.6 | | | 135.2 | | 268.3 | | 13.0 | 250.8 | | 4.5 | 250.8 | | | 4.5 |
| QM-2-59 | 118 | 283 | | 2.39 | | 0.11882 | | | 0.00469 | 5.70494 | | 0.40 | 0.34813 | | 0.02078 | 1938.9 | | | 71.4 | | 1932.1 | | 60.3 | 1925.7 | | 99.4 | 1938.9 | | | 71.4 |
| QM-2-60 | 82 | 109 | | 1.32 | | 0.06268 | | | 0.00373 | 0.53351 | | 0.03 | 0.06326 | | 0.00143 | 698.2 | | | 127.8 | | 434.1 | | 19.8 | 395.4 | | 8.7 | 395.4 | | | 8.7 |
| QM-2-61 | 172 | 236 | | 1.37 | | 0.11784 | | | 0.00200 | 5.57298 | | 0.10 | 0.34399 | | 0.00369 | 1923.8 | | | 29.8 | | 1911.9 | | 15.6 | 1905.8 | | 17.7 | 1923.8 | | | 29.8 |
| QM-2-62 | 96 | 217 | | 2.25 | | 0.07470 | | | 0.00166 | 1.83452 | | 0.04 | 0.17898 | | 0.00156 | 1061.1 | | | 44.4 | | 1057.9 | | 14.0 | 1061.4 | | 8.5 | 1061.1 | | | 44.4 |
| QM-2-63 | 393 | 430 | | 1.09 | | 0.12379 | | | 0.00128 | 6.57827 | | 0.08 | 0.38594 | | 0.00336 | 2013.0 | | | 18.5 | | 2056.4 | | 10.6 | 2104.0 | | 15.6 | 2013.0 | | | 18.5 |
| QM-2-64 | 323 | 691 | | 2.14 | | 0.12566 | | | 0.00110 | 6.77339 | | 0.10 | 0.39065 | | 0.00468 | 2038.9 | | | 10.0 | | 2082.3 | | 13.5 | 2125.8 | | 21.7 | 2038.9 | | | 10.0 |
| QM-2-65 | 137 | 310 | | 2.27 | | 0.09155 | | | 0.00166 | 3.26199 | | 0.06 | 0.25908 | | 0.00212 | 1458.3 | | | 29.5 | | 1472.0 | | 13.5 | 1485.1 | | 10.9 | 1458.3 | | | 29.5 |
| QM-2-66 | 115 | 611 | | 5.33 | | 0.06420 | | | 0.00160 | 0.80081 | | 0.03 | 0.09021 | | 0.00300 | 747.8 | | | 252.8 | | 597.3 | | 19.6 | 556.8 | | 17.8 | 556.8 | | | 17.8 |
| QM-2-67 | 108 | 412 | | 3.83 | | 0.11374 | | | 0.00157 | 5.42684 | | 0.11 | 0.34419 | | 0.00393 | 1861.1 | | | 24.8 | | 1889.1 | | 17.3 | 1906.8 | | 18.9 | 1861.1 | | | 24.8 |
| QM-2-68 | 121 | 360 | | 2.97 | | 0.11655 | | | 0.00146 | 5.52836 | | 0.07 | 0.34389 | | 0.00314 | 1905.6 | | | 23.3 | | 1905.0 | | 11.5 | 1905.3 | | 15.1 | 1905.6 | | | 23.3 |
| QM-2-69 | 157 | 356 | | 2.26 | | 0.15941 | | | 0.00139 | 10.04014 | | 0.12 | 0.45530 | | 0.00345 | 2449.7 | | | 14.8 | | 2438.5 | | 10.9 | 2418.8 | | 15.3 | 2449.7 | | | 14.8 |
| QM-2-70 | 212 | 353 | | 1.67 | | 0.15808 | | | 0.00171 | 10.04351 | | 0.17 | 0.45865 | | 0.00528 | 2435.5 | | | 18.2 | | 2438.8 | | 15.3 | 2433.6 | | 23.3 | 2435.5 | | | 18.2 |
| QM-2-71 | 41 | 298 | | 7.24 | | 0.16315 | | | 0.00186 | 10.16300 | | 0.15 | 0.45059 | | 0.00508 | 2488.6 | | | 19.9 | | 2449.7 | | 13.5 | 2397.9 | | 22.6 | 2488.6 | | | 19.9 |
| QM-2-72 | 172 | 273 | | 1.59 | | 0.11908 | | | 0.00312 | 5.74478 | | 0.17 | 0.34840 | | 0.00483 | 1942.3 | | | 46.9 | | 1938.1 | | 25.1 | 1926.9 | | 23.1 | 1942.3 | | | 46.9 |
| QM-2-73 | 68 | 320 | | 4.69 | | 0.11891 | | | 0.00539 | 5.70586 | | 0.28 | 0.34576 | | 0.00618 | 1939.8 | | | 81.5 | | 1932.3 | | 41.8 | 1914.3 | | 29.6 | 1939.8 | | | 81.5 |
| QM-2-74 | 27 | 62 | | 2.28 | | 0.17047 | | | 0.00480 | 11.44198 | | 0.32 | 0.48709 | | 0.00831 | 2562.0 | | | 46.9 | | 2559.9 | | 26.2 | 2558.1 | | 36.0 | 2562.0 | | | 46.9 |
| QM-2-75 | 124 | 606 | | 4.88 | | 0.11781 | | | 0.00221 | 5.60202 | | 0.10 | 0.34539 | | 0.00517 | 1924.1 | | | 33.3 | | 1916.4 | | 14.9 | 1912.5 | | 24.8 | 1924.1 | | | 33.3 |
| QM-2-76 | 58 | 219 | | 3.81 | | 0.11278 | | | 0.00384 | 5.39694 | | 0.19 | 0.34605 | | 0.00685 | 1855.6 | | | 61.1 | | 1884.4 | | 30.1 | 1915.7 | | 32.8 | 1855.6 | | | 61.1 |
| QM-2-77 | 28 | 293 | | 10.57 | | 0.11593 | | | 0.00295 | 5.50304 | | 0.12 | 0.34459 | | 0.00609 | 1894.1 | | | 45.7 | | 1901.1 | | 19.0 | 1908.7 | | 29.2 | 1894.1 | | | 45.7 |
| QM-2-78 | 55 | 307 | | 5.54 | | 0.11644 | | | 0.00198 | 5.52238 | | 0.10 | 0.34589 | | 0.00562 | 1902.2 | | | 30.1 | | 1904.1 | | 15.9 | 1915.0 | | 26.9 | 1902.2 | | | 30.1 |
| QM-2-79 | 104 | 198 | | 1.90 | | 0.06509 | | | 0.00340 | 0.50195 | | 0.03 | 0.05598 | | 0.00089 | 775.9 | | | 109.3 | | 413.0 | | 18.3 | 351.1 | | 5.5 | 351.1 | | | 5.5 |
| QM-2-80 | 102 | 240 | | 2.35 | | 0.15006 | | | 0.00237 | 9.01069 | | 0.15 | 0.43464 | | 0.00465 | 2346.6 | | | 26.4 | | 2339.1 | | 15.6 | 2326.6 | | 20.9 | 2346.6 | | | 26.4 |
| QM-2-81 | 77 | 335 | | 4.37 | | 0.11538 | | | 0.00229 | 5.52928 | | 0.11 | 0.34730 | | 0.00348 | 1887.0 | | | 35.6 | | 1905.2 | | 17.0 | 1921.7 | | 16.6 | 1887.0 | | | 35.6 |
| QM-2-82 | 93 | 205 | | 2.20 | | 0.11695 | | | 0.00249 | 5.54545 | | 0.12 | 0.34458 | | 0.00406 | 1910.2 | | | 37.8 | | 1907.7 | | 17.9 | 1908.6 | | 19.5 | 1910.2 | | | 37.8 |
| QM-2-83 | 60 | 709 | | 11.80 | | 0.11426 | | | 0.00194 | 5.46738 | | 0.11 | 0.34615 | | 0.00444 | 1868.2 | | | 29.8 | | 1895.5 | | 17.5 | 1916.2 | | 21.2 | 1868.2 | | | 29.8 |
| QM-2-84 | 101 | 289 | | 2.85 | | 0.14012 | | | 0.00326 | 8.33284 | | 0.30 | 0.42074 | | 0.00875 | 2228.7 | | | 40.1 | | 2267.9 | | 33.2 | 2263.9 | | 39.7 | 2228.7 | | | 40.1 |
| QM-2-85 | 63 | 497 | | 7.90 | | 0.11655 | | | 0.00191 | 5.49001 | | 0.10 | 0.34095 | | 0.00377 | 1905.6 | | | 28.6 | | 1899.0 | | 15.6 | 1891.2 | | 18.1 | 1905.6 | | | 28.6 |
| QM-2-86 | 102 | 189 | | 1.86 | | 0.05457 | | | 0.00414 | 0.26933 | | 0.02 | 0.03623 | | 0.00068 | 394.5 | | | 176.8 | | 242.2 | | 16.6 | 229.4 | | 4.2 | 229.4 | | | 4.2 |
| QM-2-87 | 125 | 998 | | 8.00 | | 0.06948 | | | 0.00125 | 1.52597 | | 0.03 | 0.15901 | | 0.00167 | 922.2 | | | 37.0 | | 940.9 | | 11.7 | 951.3 | | 9.3 | 951.3 | | | 9.3 |
| QM-2-88 | 657 | 901 | | 1.37 | | 0.11453 | | | 0.00184 | 5.43742 | | 0.09 | 0.34401 | | 0.00354 | 1872.5 | | | 29.5 | | 1890.8 | | 13.8 | 1905.9 | | 17.0 | 1872.5 | | | 29.5 |
| QM-2-89 | 253 | 361 | | 1.43 | | 0.06684 | | | 0.00213 | 1.42653 | | 0.04 | 0.15501 | | 0.00203 | 833.0 | | | 66.7 | | 900.1 | | 17.5 | 929.0 | | 11.3 | 929.0 | | | 11.3 |
| QM-2-90 | 187 | 274 | | 1.47 | | 0.05461 | | | 0.00266 | 0.35853 | | 0.02 | 0.04778 | | 0.00065 | 394.5 | | | 109.2 | | 311.1 | | 13.1 | 300.9 | | 4.0 | 300.9 | | | 4.0 |
| QM-2-91 | 79 | 529 | | 6.68 | | 0.11404 | | | 0.00175 | 5.41677 | | 0.08 | 0.34396 | | 0.00309 | 1864.5 | | | 27.8 | | 1887.5 | | 13.2 | 1905.7 | | 14.8 | 1864.5 | | | 27.8 |
| QM-2-92 | 115 | 150 | | 1.30 | | 0.05483 | | | 0.00358 | 0.46176 | | 0.03 | 0.06282 | | 0.00123 | 405.6 | | | 146.3 | | 385.5 | | 19.3 | 392.7 | | 7.5 | 392.7 | | | 7.5 |
| QM-2-93 | 154 | 219 | | 1.42 | | 0.11525 | | | 0.00250 | 5.43913 | | 0.12 | 0.34130 | | 0.00329 | 1883.6 | | | 40.0 | | 1891.0 | | 19.7 | 1892.9 | | 15.8 | 1883.6 | | | 40.0 |
| QM-2-94 | 49 | 189 | | 3.88 | | 0.11489 | | | 0.00350 | 5.41974 | | 0.17 | 0.34149 | | 0.00454 | 1879.6 | | | 54.9 | | 1888.0 | | 26.2 | 1893.8 | | 21.8 | 1879.6 | | | 54.9 |
| QM-2-95 | 70 | 256 | | 3.66 | | 0.07018 | | | 0.00184 | 1.56308 | | 0.04 | 0.16091 | | 0.00167 | 1000.0 | | | 53.7 | | 955.7 | | 17.6 | 961.8 | | 9.3 | 1000.0 | | | 53.7 |
| QM-2-96 | 123 | 88 | | 0.72 | | 0.06932 | | | 0.00335 | 1.32055 | | 0.06 | 0.14025 | | 0.00235 | 909.3 | | | 100.0 | | 854.8 | | 26.7 | 846.1 | | 13.3 | 846.1 | | | 13.3 |
| QM-2-97 | 74 | 466 | | 6.29 | | 0.11504 | | | 0.00192 | 5.42959 | | 0.09 | 0.34225 | | 0.00307 | 1880.6 | | | 29.9 | | 1889.5 | | 13.7 | 1897.5 | | 14.8 | 1880.6 | | | 29.9 |
| QM-2-98 | 171 | 110 | | 0.65 | | 0.11257 | | | 0.00312 | 5.40948 | | 0.16 | 0.34813 | | 0.00555 | 1842.6 | | | 49.8 | | 1886.4 | | 25.8 | 1925.7 | | 26.5 | 1842.6 | | | 49.8 |
| QM-2-99 | 59 | 430 | | 7.31 | | 0.12137 | | | 0.00239 | 5.75039 | | 0.11 | 0.34339 | | 0.00381 | 1976.2 | | | 35.2 | | 1939.0 | | 16.9 | 1902.9 | | 18.3 | 1976.2 | | | 35.2 |
| QM-2-100 | 170 | 158 | | 0.93 | | 0.07181 | | | 0.00418 | 1.28712 | | 0.07 | 0.13498 | | 0.00259 | 980.6 | | | 118.5 | | 840.0 | | 31.1 | 816.2 | | 14.7 | 816.2 | | | 14.7 |
| QM-2-101 | 104 | 194 | | 1.87 | | 0.06676 | | | 0.01138 | 0.28988 | | 0.04 | 0.03708 | | 0.00239 | 831.5 | | | 361.1 | | 258.5 | | 31.4 | 234.7 | | 14.9 | 234.7 | | | 14.9 |
| QM-2-102 | 186 | 232 | | 1.25 | | 0.11947 | | | 0.00412 | 5.66334 | | 0.18 | 0.34522 | | 0.00508 | 1950.0 | | | 61.1 | | 1925.8 | | 27.3 | 1911.7 | | 24.3 | 1950.0 | | | 61.1 |
| QM-2-103 | 126 | 470 | | 3.72 | | 0.12064 | | | 0.00286 | 5.67636 | | 0.14 | 0.34212 | | 0.00532 | 1965.7 | | | 41.5 | | 1927.8 | | 21.7 | 1896.9 | | 25.6 | 1965.7 | | | 41.5 |
| QM-2-104 | 170 | 306 | | 1.80 | | 0.12149 | | | 0.00488 | 5.66548 | | 0.18 | 0.34430 | | 0.00772 | 1988.9 | | | 71.1 | | 1926.1 | | 28.0 | 1907.3 | | 37.0 | 1988.9 | | | 71.1 |
| QM-2-105 | 93 | 673 | | 7.23 | | 0.11744 | | | 0.00376 | 5.44849 | | 0.18 | 0.33972 | | 0.00918 | 1917.6 | | | 57.4 | | 1892.5 | | 28.4 | 1885.3 | | 44.2 | 1917.6 | | | 57.4 |
| QM-2-106 | 59 | 226 | | 3.84 | | 0.11632 | | | 0.00314 | 5.50392 | | 0.16 | 0.34405 | | 0.00466 | 1901.9 | | | 48.5 | | 1901.2 | | 24.5 | 1906.1 | | 22.4 | 1901.9 | | | 48.5 |
| QM-2-107 | 175 | 380 | | 2.18 | | 0.17768 | | | 0.00336 | 11.90702 | | 0.23 | 0.48560 | | 0.00692 | 2631.2 | | | 31.5 | | 2597.1 | | 18.4 | 2551.6 | | 30.0 | 2631.2 | | | 31.5 |
| QM-2-108 | 154 | 312 | | 2.03 | | 0.16898 | | | 0.00319 | 11.49168 | | 0.20 | 0.49379 | | 0.00483 | 2547.2 | | | 31.0 | | 2563.9 | | 16.5 | 2587.1 | | 20.8 | 2547.2 | | | 31.0 |
| QM-2-109 | 34 | 60 | | 1.76 | | 0.10775 | | | 0.00434 | 4.69807 | | 0.19 | 0.31732 | | 0.00474 | 1762.0 | | | 74.1 | | 1766.9 | | 34.5 | 1776.6 | | 23.2 | 1762.0 | | | 74.1 |
| QM-2-110 | 68 | 268 | | 3.92 | | 0.11417 | | | 0.00241 | 5.45574 | | 0.11 | 0.34652 | | 0.00330 | 1933.3 | | | 38.7 | | 1893.7 | | 18.0 | 1918.0 | | 15.8 | 1933.3 | | | 38.7 |
| QM-2-111 | 35 | 607 | | 17.30 | | 0.11261 | | | 0.00177 | 5.35515 | | 0.10 | 0.34410 | | 0.00374 | 1842.6 | | | 28.4 | | 1877.7 | | 15.9 | 1906.3 | | 17.9 | 1842.6 | | | 28.4 |
| QM-2-112 | 64 | 385 | | 5.97 | | 0.07325 | | | 0.00204 | 1.77078 | | 0.05 | 0.17566 | | 0.00168 | 1020.4 | | | 55.6 | | 1034.8 | | 18.2 | 1043.2 | | 9.2 | 1020.4 | | | 55.6 |
| QM-2-113 | 227 | 253 | | 1.12 | | 0.05445 | | | 0.00266 | 0.35529 | | 0.02 | 0.04763 | | 0.00072 | 390.8 | | | 109.2 | | 308.7 | | 13.1 | 299.9 | | 4.4 | 299.9 | | | 4.4 |
| QM-2-114 | 105 | 417 | | 3.99 | | 0.05312 | | | 0.00197 | 0.52922 | | 0.02 | 0.07235 | | 0.00072 | 344.5 | | | 80.5 | | 431.3 | | 13.1 | 450.3 | | 4.3 | 450.3 | | | 4.3 |
| QM-3-1 | 283 | 404 | | 1.43 | | 0.05093 | | | 0.00265 | 0.23879 | | 0.01 | 0.03404 | | 0.00041 | 239.0 | | | 115.7 | | 217.4 | | 10.4 | 215.8 | | 2.5 | 215.8 | | | 2.5 |
| QM-3-2 | 179 | 350 | | 1.95 | | 0.05271 | | | 0.00302 | 0.25364 | | 0.01 | 0.03499 | | 0.00044 | 316.7 | | | 126.8 | | 229.5 | | 12.0 | 221.7 | | 2.7 | 221.7 | | | 2.7 |
| QM-3-3 | 1026 | 1143 | | 1.11 | | 0.05029 | | | 0.00186 | 0.23934 | | 0.01 | 0.03453 | | 0.00033 | 209.3 | | | 89.8 | | 217.9 | | 7.0 | 218.9 | | 2.1 | 218.9 | | | 2.1 |
| QM-3-4 | 203 | 462 | | 2.27 | | 0.05660 | | | 0.00316 | 0.27042 | | 0.02 | 0.03493 | | 0.00046 | 476.0 | | | 124.1 | | 243.0 | | 12.2 | 221.3 | | 2.9 | 221.3 | | | 2.9 |
| QM-3-5 | 320 | 566 | | 1.77 | | 0.05048 | | | 0.00214 | 0.23499 | | 0.01 | 0.03396 | | 0.00041 | 216.7 | | | 102.8 | | 214.3 | | 7.9 | 215.3 | | 2.6 | 215.3 | | | 2.6 |
| QM-3-6 | 249 | 533 | | 2.14 | | 0.05703 | | | 0.00612 | 0.25014 | | 0.02 | 0.03396 | | 0.00075 | 494.5 | | | 243.5 | | 226.7 | | 16.0 | 215.3 | | 4.7 | 215.3 | | | 4.7 |
| QM-3-7 | 494 | 617 | | 1.25 | | 0.05360 | | | 0.00233 | 0.25593 | | 0.01 | 0.03498 | | 0.00040 | 353.8 | | | 98.1 | | 231.4 | | 8.3 | 221.7 | | 2.5 | 221.7 | | | 2.5 |
| QM-3-8 | 238 | 307 | | 1.29 | | 0.05682 | | | 0.00361 | 0.27140 | | 0.02 | 0.03509 | | 0.00055 | 483.4 | | | 137.9 | | 243.8 | | 13.7 | 222.3 | | 3.4 | 222.3 | | | 3.4 |
| QM-3-9 | 324 | 374 | | 1.15 | | 0.05266 | | | 0.00305 | 0.25053 | | 0.01 | 0.03506 | | 0.00056 | 322.3 | | | 131.5 | | 227.0 | | 10.6 | 222.1 | | 3.5 | 222.1 | | | 3.5 |
| QM-3-10 | 432 | 495 | | 1.15 | | 0.05279 | | | 0.00224 | 0.25475 | | 0.01 | 0.03530 | | 0.00049 | 320.4 | | | 96.3 | | 230.4 | | 8.4 | 223.6 | | 3.1 | 223.6 | | | 3.1 |
| QM-3-11 | 193 | 205 | | 1.06 | | 0.05530 | | | 0.00326 | 0.26301 | | 0.02 | 0.03484 | | 0.00055 | 433.4 | | | 131.5 | | 237.1 | | 12.1 | 220.8 | | 3.4 | 220.8 | | | 3.4 |
| QM-3-12 | 120 | 261 | | 2.18 | | 0.05078 | | | 0.00268 | 0.24048 | | 0.01 | 0.03476 | | 0.00052 | 231.6 | | | 122.2 | | 218.8 | | 9.8 | 220.3 | | 3.2 | 220.3 | | | 3.2 |

\* All samples are from the Quemo Co section ( E91°22′55″, N33°48′56″ ).