**表1 伊犁北部果子沟地区奥陶系斑脱岩LA-ICP-MS锆石U-Pb年龄数据**

**Table 1 LA-CP-MS zircon U-Pb age data of bentonites from the Guozigou Section, northern Yili Block**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 点号 | 同位素比值 | 同位素年龄 | 含量(10-6) | 谐和度a(%) |
| 207Pb/206Pb | 2σ | 207Pb/235U | 2σ | 206Pb/238U | 2σ | 207Pb/206Pb | 2σ | 207Pb/235U | 2σ | 206Pb/238U | 2σ | Th | U | 232Th/238U |
| **18TS59-01** | **斑脱岩** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 18TS59-01 - 1 | 0.057 2 | 0.002 2 | 0.5940 | 0.025 0 | 0.074 0 | 0.001 3 | 465 | 84 | 472 | 16 | 460 | 8 | 104 | 213 | 0.49 | 97.4 |
| 18TS59-01 - 2 | 0.057 2 | 0.002 0 | 0.5940 | 0.025 0 | 0.073 7 | 0.001 4 | 468 | 75 | 471 | 16 | 458 | 8 | 109 | 209 | 0.52 | 97.3 |
| 18TS59-01 - 3 | 0.056 4 | 0.003 3 | 0.5780 | 0.034 0 | 0.074 8 | 0.001 7 | 420 | 120 | 460 | 22 | 465 | 10 | 69 | 169 | 0.41 | 98.9 |
| 18TS59-01 - 4 | 0.056 1 | 0.002 9 | 0.590 0 | 0.034 0 | 0.075 0 | 0.001 6 | 410 | 110 | 468 | 21 | 466 | 9 | 94 | 227 | 0.41 | 99.7 |
| 18TS59-01 - 5 | 0.056 3 | 0.001 9 | 0.573 0 | 0.022 0 | 0.074 3 | 0.001 2 | 421 | 73 | 458 | 15 | 462 | 7 | 125 | 234 | 0.54 | 99.2 |
| 18TS59-01 - 6 | 0.055 8 | 0.001 9 | 0.580 0 | 0.025 0 | 0.074 6 | 0.001 3 | 419 | 80 | 462 | 16 | 464 | 8 | 116 | 252 | 0.46 | 99.7 |
| 18TS59-01 - 7 | 0.053 2 | 0.002 0 | 0.548 0 | 0.023 0 | 0.074 1 | 0.001 3 | 302 | 82 | 442 | 15 | 461 | 8 | 112 | 227 | 0.50 | 95.9 |
| 18TS59-01 - 8 | 0.055 1 | 0.002 4 | 0.559 0 | 0.027 0 | 0.073 9 | 0.001 3 | 386 | 99 | 449 | 17 | 460 | 8 | 80 | 188 | 0.43 | 97.7 |
| 18TS59-01 - 9 | 0.055 5 | 0.002 8 | 0.563 0 | 0.031 0 | 0.074 3 | 0.001 5 | 370 | 110 | 450 | 20 | 462 | 9 | 110 | 201 | 0.55 | 97.4 |
| 18TS59-01 - 10 | 0.056 2 | 0.001 9 | 0.576 0 | 0.023 0 | 0.073 7 | 0.001 2 | 416 | 74 | 459 | 15 | 459 | 7 | 77 | 202 | 0.38 | 99.9 |
| 18TS59-01 - 11 | 0.114 7 | 0.005 2 | 1.268 0 | 0.068 0 | 0.079 4 | 0.001 4 | 1789 | 88 | 820 | 31 | 493 | 8 | 92 | 174 | 0.53 | 33.6 |
| 18TS59-01 - 12 | 0.054 7 | 0.001 8 | 0.561 0 | 0.022 0 | 0.074 1 | 0.001 2 | 369 | 72 | 450 | 15 | 461 | 7 | 78 | 198 | 0.39 | 97.7 |
| 18TS59-01 - 13 | 0.055 6 | 0.002 8 | 0.556 0 | 0.031 0 | 0.073 3 | 0.001 4 | 380 | 110 | 448 | 21 | 456 | 8 | 78 | 162 | 0.48 | 98.3 |
| 18TS59-01 - 14 | 0.058 2 | 0.002 6 | 0.590 0 | 0.029 0 | 0.074 0 | 0.001 2 | 472 | 97 | 467 | 18 | 460 | 8 | 64 | 156 | 0.41 | 98.5 |
| 18TS59-01 - 15 | 0.055 9 | 0.002 4 | 0.580 0 | 0.027 0 | 0.074 2 | 0.001 2 | 408 | 93 | 463 | 18 | 461 | 8 | 78 | 208 | 0.38 | 99.6 |
| 18TS59-01 - 16 | 0.055 6 | 0.002 1 | 0.568 0 | 0.025 0 | 0.074 0 | 0.001 2 | 376 | 79 | 453 | 16 | 460 | 7 | 84 | 165 | 0.51 | 98.4 |
| 18TS59-01 - 17 | 0.055 3 | 0.002 1 | 0.568 0 | 0.025 0 | 0.074 6 | 0.001 2 | 371 | 82 | 454 | 16 | 464 | 7 | 102 | 225 | 0.45 | 98.0 |
| 18TS59-01 - 18 | 0.057 8 | 0.002 3 | 0.593 0 | 0.028 0 | 0.073 2 | 0.001 3 | 470 | 87 | 470 | 18 | 456 | 8 | 86 | 182 | 0.47 | 96.8 |
| 18TS59-01 - 19 | 0.055 2 | 0.001 8 | 0.568 0 | 0.023 0 | 0.074 4 | 0.001 2 | 392 | 70 | 456 | 14 | 462 | 7 | 109 | 219 | 0.50 | 98.6 |
| 18TS59-01 - 20 | 0.055 4 | 0.002 0 | 0.561 0 | 0.023 0 | 0.073 8 | 0.001 2 | 371 | 76 | 451 | 15 | 459 | 7 | 63 | 162 | 0.39 | 98.3 |
| 18TS59-01 - 21 | 0.056 4 | 0.002 2 | 0.568 0 | 0.025 0 | 0.073 7 | 0.001 2 | 419 | 84 | 454 | 16 | 458 | 8 | 104 | 250 | 0.42 | 99.1 |
| 18TS59-01 - 22 | 0.055 5 | 0.002 6 | 0.576 0 | 0.031 0 | 0.073 7 | 0.001 5 | 410 | 95 | 463 | 19 | 459 | 9 | 115 | 198 | 0.58 | 99.0 |
| 18TS59-01 - 23 | 0.056 2 | 0.003 4 | 0.564 0 | 0.034 0 | 0.074 3 | 0.001 6 | 400 | 130 | 455 | 24 | 462 | 9 | 65 | 173 | 0.37 | 98.5 |
| 18TS59-01 - 24 | 0.106 0 | 0.004 7 | 1.090 0 | 0.056 0 | 0.074 1 | 0.001 2 | 1642 | 85 | 737 | 27 | 461 | 7 | 88 | 176 | 0.50 | 40.0 |
| 18TS59-01 - 25 | 0.056 7 | 0.002 6 | 0.573 0 | 0.028 0 | 0.073 9 | 0.001 4 | 430 | 100 | 457 | 18 | 460 | 9 | 92 | 203 | 0.45 | 99.4 |
| **18TS59-11** | **斑脱岩** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 18TS59-11 - 1 | 0.053 9 | 0.003 3 | 0.539 0 | 0.035 0 | 0.073 1 | 0.002 0 | 330 | 130 | 436 | 23 | 455 | 12 | 318 | 362 | 0.88 | 95.8 |
| 18TS59-11 - 2 | 0.056 3 | 0.002 1 | 0.582 0 | 0.026 0 | 0.074 1 | 0.001 3 | 430 | 81 | 464 | 17 | 461 | 8 | 83 | 141 | 0.59 | 99.3 |
| 18TS59-11 - 3 | 0.056 4 | 0.002 3 | 0.566 0 | 0.027 0 | 0.073 1 | 0.001 4 | 430 | 90 | 454 | 17 | 455 | 9 | 200 | 333 | 0.60 | 99.8 |
| 18TS59-11 - 4 | 0.057 1 | 0.001 8 | 0.589 0 | 0.023 0 | 0.073 6 | 0.001 3 | 464 | 68 | 469 | 15 | 457 | 8 | 245 | 267 | 0.92 | 97.5 |
| 18TS59-11 - 5 | 0.053 1 | 0.002 5 | 0.552 0 | 0.031 0 | 0.074 2 | 0.001 5 | 330 | 110 | 444 | 21 | 462 | 9 | 160 | 243 | 0.66 | 96.2 |
| 18TS59-11 - 6 | 0.055 1 | 0.001 9 | 0.565 0 | 0.024 0 | 0.074 5 | 0.001 4 | 395 | 78 | 454 | 16 | 463 | 8 | 358 | 369 | 0.97 | 98.1 |
| 18TS59-11 - 7 | 0.056 8 | 0.001 9 | 0.597 0 | 0.024 0 | 0.074 1 | 0.001 4 | 459 | 73 | 474 | 15 | 461 | 8 | 273 | 420 | 0.65 | 97.1 |
| 18TS59-11 - 8 | 0.055 7 | 0.001 6 | 0.573 0 | 0.021 0 | 0.073 6 | 0.001 2 | 413 | 66 | 460 | 14 | 458 | 7 | 118 | 238 | 0.50 | 99.6 |
| 18TS59-11 - 9 | 0.057 2 | 0.001 7 | 0.596 0 | 0.021 0 | 0.075 2 | 0.001 2 | 469 | 63 | 474 | 14 | 467 | 7 | 110 | 192 | 0.57 | 98.5 |
| 18TS59-11 - 10 | 0.058 4 | 0.002 0 | 0.595 0 | 0.024 0 | 0.073 0 | 0.001 2 | 512 | 74 | 473 | 15 | 454 | 8 | 151 | 287 | 0.52 | 95.8 |
| 18TS59-11 - 11 | 0.057 0 | 0.003 2 | 0.589 0 | 0.036 0 | 0.073 7 | 0.001 3 | 430 | 120 | 467 | 22 | 458 | 8 | 179 | 180 | 1.00 | 98.1 |
| 18TS59-11 - 12 | 0.056 1 | 0.001 7 | 0.583 0 | 0.021 0 | 0.074 3 | 0.001 1 | 421 | 64 | 465 | 14 | 462 | 7 | 262 | 309 | 0.85 | 99.3 |
| 18TS59-11 - 14 | 0.057 7 | 0.001 3 | 0.586 0 | 0.018 0 | 0.073 6 | 0.001 1 | 495 | 51 | 467 | 12 | 458 | 7 | 232 | 407 | 0.57 | 98.0 |
| 18TS59-11 - 15 | 0.055 3 | 0.002 3 | 0.577 0 | 0.027 0 | 0.076 5 | 0.001 5 | 389 | 90 | 461 | 17 | 475 | 9 | 135 | 275 | 0.49 | 97.0 |
| 18TS59-11 - 16 | 0.056 4 | 0.002 6 | 0.613 0 | 0.031 0 | 0.078 1 | 0.001 4 | 430 | 100 | 484 | 20 | 485 | 8 | 97 | 155 | 0.63 | 99.9 |
| 18TS59-11 - 17 | 0.056 9 | 0.003 5 | 0.576 0 | 0.040 0 | 0.074 1 | 0.001 4 | 420 | 140 | 458 | 25 | 461 | 9 | 53 | 137 | 0.38 | 99.3 |
| 18TS59-11 - 18 | 0.053 2 | 0.002 2 | 0.528 0 | 0.024 0 | 0.072 8 | 0.001 5 | 307 | 89 | 429 | 16 | 453 | 9 | 159 | 243 | 0.66 | 94.7 |
| 18TS59-11 - 19 | 0.057 0 | 0.001 6 | 0.573 0 | 0.020 0 | 0.073 3 | 0.001 1 | 452 | 60 | 458 | 13 | 456 | 7 | 144 | 251 | 0.57 | 99.6 |
| 18TS59-11 - 20 | 0.057 4 | 0.002 3 | 0.593 0 | 0.026 0 | 0.073 4 | 0.001 5 | 477 | 90 | 475 | 16 | 457 | 9 | 259 | 411 | 0.63 | 96.0 |
| 18TS59-11 - 21 | 0.057 0 | 0.001 7 | 0.576 0 | 0.021 0 | 0.073 3 | 0.001 2 | 451 | 65 | 460 | 14 | 456 | 7 | 110 | 267 | 0.41 | 99.1 |
| 18TS59-11 - 22 | 0.057 2 | 0.001 6 | 0.577 0 | 0.020 0 | 0.073 5 | 0.001 2 | 463 | 61 | 461 | 13 | 457 | 7 | 120 | 272 | 0.44 | 99.1 |
| 18TS59-11 - 23 | 0.058 8 | 0.002 2 | 0.596 0 | 0.027 0 | 0.073 6 | 0.001 2 | 500 | 83 | 471 | 17 | 458 | 7 | 53 | 154 | 0.34 | 97.1 |
| 18TS59-11 - 24 | 0.056 8 | 0.001 9 | 0.573 0 | 0.023 0 | 0.073 4 | 0.001 2 | 439 | 74 | 457 | 15 | 457 | 7 | 116 | 191 | 0.61 | 99.9 |