附表1 弄巴地区泥盆系和石炭系锆石LA-ICP-MS U-Pb年龄

Table 1 Zircon LA-ICP-MS U-Pb data of the Devonian and Carboniferous rocks in the Nongba area

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 分析号 | 含量（10-6） | | Th/U | 同位素比值 | | | | | | 年龄（Ma） | | | | | | 谐和度 | 备注 |
| Th | U | 207Pb/206Pb | 1*σ* | 207Pb/235U | 1*σ* | 206Pb/238U | 1*σ* | 207Pb/206Pb | 1*σ* | 207Pb/235U | 1*σ* | 206Pb/238U | 1*σ* |
| 样品13NB01-1 | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 13NB01-1-01 | 126 | 187 | 0.67 | 0.0688 | 0.0027 | 1.1362 | 0.0428 | 0.1198 | 0.0012 | 894 | 80.7 | 771 | 20.3 | 730 | 6.9 | 94% |  |
| 13NB01-1-02 | 37.5 | 29.8 | 1.26 | 0.0855 | 0.0197 | 0.6941 | 0.1343 | 0.0686 | 0.0027 | 1326 | 459 | 535 | 80.7 | 428 | 16.4 | 77% | N |
| 13NB01-1-03 | 95.9 | 114 | 0.84 | 0.0469 | 0.0048 | 0.3655 | 0.0373 | 0.0561 | 0.0010 | 55.7 | 217 | 316 | 27.8 | 352 | 6.0 | 89% |  |
| 13NB01-1-04 | 107 | 182 | 0.59 | 0.0667 | 0.0020 | 1.1927 | 0.0351 | 0.1296 | 0.0012 | 828 | 67.6 | 797 | 16.2 | 785 | 6.6 | 98% |  |
| 13NB01-1-05 | 45.0 | 47.5 | 0.95 | 0.0983 | 0.0158 | 0.7121 | 0.0990 | 0.0575 | 0.0014 | 1591 | 304 | 546 | 58.8 | 360 | 8.6 | 59% | N |
| 13NB01-1-06 | 87.8 | 132 | 0.66 | 0.0679 | 0.0024 | 1.2409 | 0.0435 | 0.1327 | 0.0012 | 866 | 74.1 | 819 | 19.7 | 803 | 6.9 | 98% |  |
| 13NB01-1-07 | 91.5 | 138 | 0.66 | 0.0611 | 0.0020 | 1.0878 | 0.0355 | 0.1289 | 0.0010 | 643 | 68.5 | 747 | 17.3 | 782 | 5.9 | 95% |  |
| 13NB01-1-09 | 44.1 | 74.4 | 0.59 | 0.0611 | 0.0031 | 1.1280 | 0.0537 | 0.1359 | 0.0016 | 643 | 109 | 767 | 25.6 | 821 | 8.9 | 93% |  |
| 13NB01-1-10 | 56.4 | 98.4 | 0.57 | 0.0623 | 0.0026 | 1.1097 | 0.0457 | 0.1292 | 0.0012 | 685 | 90.7 | 758 | 22.0 | 784 | 7.0 | 96% |  |
| 13NB01-1-11 | 59.8 | 103 | 0.58 | 0.0640 | 0.0026 | 1.0295 | 0.0378 | 0.1184 | 0.0015 | 743 | 89.8 | 719 | 18.9 | 721 | 8.6 | 99% |  |
| 13NB01-1-12 | 49.9 | 112 | 0.44 | 0.0671 | 0.0025 | 1.2350 | 0.0445 | 0.1338 | 0.0013 | 840 | 77.8 | 817 | 20.2 | 810 | 7.5 | 99% |  |
| 13NB01-1-13 | 116 | 194 | 0.60 | 0.0636 | 0.0022 | 1.1115 | 0.0372 | 0.1261 | 0.0011 | 728 | 72.2 | 759 | 17.9 | 766 | 6.1 | 99% |  |
| 13NB01-1-14 | 80.5 | 140 | 0.57 | 0.1930 | 0.0046 | 15.8002 | 0.3809 | 0.5890 | 0.0061 | 2768 | 39.5 | 2865 | 23.0 | 2985 | 24.7 | 95% |  |
| 13NB01-1-15 | 130 | 148 | 0.88 | 0.0739 | 0.0026 | 1.7550 | 0.0591 | 0.1718 | 0.0017 | 1039 | 72.2 | 1029 | 21.8 | 1022 | 9.5 | 99% |  |
| 13NB01-1-16 | 98.9 | 164 | 0.60 | 0.0642 | 0.0024 | 1.1015 | 0.0388 | 0.1243 | 0.0013 | 746 | 50.0 | 754 | 18.7 | 755 | 7.3 | 99% |  |
| 13NB01-1-17 | 418 | 318 | 1.31 | 0.0642 | 0.0018 | 1.1542 | 0.0322 | 0.1293 | 0.0012 | 750 | 54.6 | 779 | 15.2 | 784 | 6.9 | 99% |  |
| 13NB01-1-18 | 318 | 445 | 0.71 | 0.0577 | 0.0018 | 0.6822 | 0.0205 | 0.0851 | 0.0007 | 517 | 66.7 | 528 | 12.4 | 527 | 4.0 | 99% |  |
| 13NB01-1-19 | 94.1 | 118 | 0.80 | 0.0695 | 0.0029 | 1.2737 | 0.0518 | 0.1326 | 0.0014 | 922 | 82.4 | 834 | 23.1 | 803 | 8.0 | 96% |  |
| 13NB01-1-20 | 478 | 421 | 1.14 | 0.0583 | 0.0028 | 0.4394 | 0.0210 | 0.0543 | 0.0006 | 539 | 105.5 | 370 | 14.8 | 341 | 3.6 | 91% |  |
| 13NB01-1-21 | 97.4 | 267 | 0.37 | 0.0603 | 0.0027 | 1.4874 | 0.0661 | 0.1776 | 0.0021 | 613 | 91.7 | 925 | 27.0 | 1054 | 11.3 | 86% | N |
| 13NB01-1-22 | 142 | 316 | 0.45 | 0.0647 | 0.0025 | 1.4791 | 0.0557 | 0.1655 | 0.0019 | 765 | 86.1 | 922 | 22.8 | 987 | 10.4 | 93% |  |
| 13NB01-1-23 | 111 | 188 | 0.59 | 0.0632 | 0.0020 | 1.1136 | 0.0356 | 0.1270 | 0.0011 | 722 | 73.1 | 760 | 17.1 | 771 | 6.5 | 98% |  |
| 13NB01-1-24 | 49.0 | 75.9 | 0.65 | 0.0622 | 0.0035 | 1.0708 | 0.0570 | 0.1267 | 0.0016 | 680 | 120 | 739 | 27.9 | 769 | 9.3 | 96% |  |
| 13NB01-1-26 | 90.9 | 141 | 0.64 | 0.0635 | 0.0028 | 1.1296 | 0.0479 | 0.1292 | 0.0014 | 724 | 94.4 | 768 | 22.9 | 783 | 8.1 | 97% |  |
| 13NB01-1-27 | 299 | 356 | 0.84 | 0.1618 | 0.0015 | 11.1028 | 0.1140 | 0.4929 | 0.0030 | 2476 | 15.4 | 2532 | 9.6 | 2583 | 12.8 | 97% |  |
| 13NB01-1-28 | 96.2 | 170 | 0.57 | 0.0686 | 0.0022 | 1.2851 | 0.0388 | 0.1358 | 0.0013 | 887 | 65.6 | 839 | 17.3 | 821 | 7.2 | 97% |  |
| 13NB01-1-29 | 126 | 371 | 0.34 | 0.0685 | 0.0013 | 1.7874 | 0.0332 | 0.1885 | 0.0015 | 887 | 40.4 | 1041 | 12.1 | 1113 | 8.2 | 93% |  |
| 13NB01-1-30 | 126 | 166 | 0.76 | 0.0819 | 0.0029 | 1.4457 | 0.0496 | 0.1275 | 0.0011 | 1243 | 68.7 | 908 | 20.6 | 774 | 6.1 | 84% | N |
| 13NB01-1-31 | 113 | 155 | 0.73 | 0.0635 | 0.0020 | 1.1352 | 0.0359 | 0.1293 | 0.0011 | 724 | 68.5 | 770 | 17.1 | 784 | 6.3 | 98% |  |
| 13NB01-1-32 | 297 | 405 | 0.73 | 0.0662 | 0.0014 | 1.5800 | 0.0343 | 0.1716 | 0.0013 | 813 | 45.5 | 962 | 13.5 | 1021 | 7.3 | 94% |  |
| 13NB01-1-33 | 385 | 540 | 0.71 | 0.0642 | 0.0019 | 1.5363 | 0.0458 | 0.1717 | 0.0015 | 746 | 61.9 | 945 | 18.3 | 1022 | 8.2 | 92% |  |
| 13NB01-1-34 | 175 | 218 | 0.80 | 0.0668 | 0.0021 | 1.2719 | 0.0408 | 0.1370 | 0.0014 | 831 | 66.7 | 833 | 18.2 | 828 | 7.8 | 99% |  |
| 13NB01-1-35 | 42.7 | 88.5 | 0.48 | 0.0578 | 0.0035 | 1.0397 | 0.0610 | 0.1305 | 0.0018 | 520 | 136 | 724 | 30.4 | 791 | 10.4 | 91% |  |
| 13NB01-1-36 | 49.3 | 54.2 | 0.91 | 0.0699 | 0.0042 | 1.2674 | 0.0741 | 0.1334 | 0.0024 | 924 | 122 | 831 | 33.2 | 807 | 13.6 | 97% |  |
| 13NB01-1-37 | 116 | 205 | 0.57 | 0.0644 | 0.0021 | 1.0978 | 0.0359 | 0.1229 | 0.0011 | 754 | 69.3 | 752 | 17.4 | 747 | 6.1 | 99% |  |
| 13NB01-1-38 | 94.6 | 134 | 0.71 | 0.0658 | 0.0030 | 1.1598 | 0.0531 | 0.1278 | 0.0016 | 1200 | 96.3 | 782 | 25.0 | 775 | 9.4 | 99% |  |
| 13NB01-1-39 | 409 | 704 | 0.58 | 0.0665 | 0.0016 | 1.2109 | 0.0288 | 0.1312 | 0.0008 | 833 | 50.0 | 806 | 13.2 | 795 | 4.8 | 98% |  |
| 13NB01-1-40 | 48.0 | 139 | 0.35 | 0.0725 | 0.0031 | 1.2791 | 0.0544 | 0.1282 | 0.0015 | 999 | 87.0 | 836 | 24.2 | 778 | 8.5 | 92% |  |
| 13NB01-1-41 | 58.9 | 122 | 0.48 | 0.0625 | 0.0027 | 1.1790 | 0.0501 | 0.1378 | 0.0018 | 700 | 94.4 | 791 | 23.3 | 832 | 9.9 | 94% |  |
| 13NB01-1-42 | 185 | 255 | 0.72 | 0.1755 | 0.0041 | 13.0618 | 0.2975 | 0.5364 | 0.0044 | 2611 | 39.0 | 2684 | 21.5 | 2768 | 18.3 | 96% |  |
| 13NB01-1-45 | 166 | 276 | 0.60 | 0.0649 | 0.0017 | 1.1403 | 0.0315 | 0.1264 | 0.0011 | 772 | 52.8 | 773 | 14.9 | 767 | 6.1 | 99% |  |
| 13NB01-1-48 | 174 | 297 | 0.59 | 0.0852 | 0.0015 | 2.8144 | 0.0496 | 0.2385 | 0.0020 | 1320 | 35.2 | 1359 | 13.2 | 1379 | 10.5 | 98% |  |
| 13NB01-1-49 | 18.8 | 28.8 | 0.65 | 0.2874 | 0.0049 | 28.1878 | 0.4980 | 0.7074 | 0.0070 | 3403 | 27.3 | 3426 | 17.3 | 3449 | 26.5 | 99% |  |
| 13NB01-1-50 | 55.2 | 170 | 0.33 | 0.0702 | 0.0023 | 1.2735 | 0.0383 | 0.1316 | 0.0012 | 1000 | 65.9 | 834 | 17.1 | 797 | 7.1 | 95% |  |
| 13NB01-1-52 | 87.5 | 143 | 0.61 | 0.0711 | 0.0024 | 1.2677 | 0.0438 | 0.1283 | 0.0012 | 961 | 63.9 | 831 | 19.6 | 778 | 6.7 | 93% |  |
| 13NB01-1-53 | 46.6 | 80.0 | 0.58 | 0.0600 | 0.0035 | 1.0776 | 0.0629 | 0.1298 | 0.0014 | 606 | 128 | 742 | 30.7 | 787 | 8.1 | 94% |  |
| 13NB01-1-54 | 93.0 | 127 | 0.73 | 0.0889 | 0.0060 | 1.5308 | 0.0907 | 0.1261 | 0.0020 | 1411 | 131 | 943 | 36.4 | 766 | 11.4 | 79% | N |
| 13NB01-1-55 | 81.4 | 179 | 0.45 | 0.0656 | 0.0023 | 1.2112 | 0.0414 | 0.1344 | 0.0014 | 794 | 80.6 | 806 | 19.0 | 813 | 8.1 | 99% |  |
| 13NB01-1-56 | 103 | 111 | 0.93 | 0.1164 | 0.0083 | 0.8681 | 0.0632 | 0.0551 | 0.0010 | 1902 | 128 | 635 | 34.4 | 346 | 6.2 | 41% | N |
| 13NB01-1-57 | 54.3 | 48.9 | 1.11 | 0.0829 | 0.0123 | 0.6408 | 0.0784 | 0.0596 | 0.0015 | 1266 | 293 | 503 | 48.6 | 373 | 9.1 | 70% | N |
| 13NB01-1-59 | 215 | 531 | 0.40 | 0.0667 | 0.0025 | 1.5383 | 0.0561 | 0.1668 | 0.0017 | 829 | 77.8 | 946 | 22.4 | 994 | 9.2 | 94% |  |
| 13NB01-1-60 | 145 | 570 | 0.25 | 0.0651 | 0.0015 | 1.1674 | 0.0282 | 0.1288 | 0.0012 | 777 | 50.0 | 785 | 13.2 | 781 | 6.6 | 99% |  |
| 13NB01-1-61 | 361 | 671 | 0.54 | 0.0680 | 0.0015 | 1.4781 | 0.0331 | 0.1562 | 0.0013 | 878 | 46.8 | 921 | 13.6 | 935 | 7.4 | 98% |  |
| 13NB01-1-62 | 143 | 1322 | 0.11 | 0.0577 | 0.0015 | 0.7567 | 0.0194 | 0.0944 | 0.0009 | 517 | 57.4 | 572 | 11.2 | 581 | 5.3 | 98% |  |
| 13NB01-1-64 | 55.8 | 153 | 0.37 | 0.0647 | 0.0033 | 1.0958 | 0.0541 | 0.1220 | 0.0016 | 765 | 112.0 | 751 | 26.2 | 742 | 9.2 | 98% |  |
| 13NB01-1-65 | 85.4 | 161 | 0.53 | 0.0670 | 0.0025 | 1.1555 | 0.0411 | 0.1247 | 0.0013 | 839 | 77.8 | 780 | 19.4 | 758 | 7.3 | 97% |  |
| 13NB01-1-66 | 58.3 | 105 | 0.56 | 0.0670 | 0.0033 | 1.2195 | 0.0586 | 0.1313 | 0.0015 | 839 | 97.2 | 810 | 26.8 | 795 | 8.4 | 98% |  |
| 13NB01-1-67 | 137 | 155 | 0.88 | 0.0647 | 0.0027 | 1.1120 | 0.0441 | 0.1243 | 0.0013 | 765 | 85.9 | 759 | 21.2 | 755 | 7.2 | 99% |  |
| 13NB01-1-68 | 207 | 266 | 0.78 | 0.0550 | 0.0022 | 0.6930 | 0.0287 | 0.0902 | 0.0008 | 413 | 90.7 | 535 | 17.2 | 557 | 5.0 | 95% |  |
| 13NB01-1-69 | 212 | 362 | 0.58 | 0.0782 | 0.0014 | 2.0560 | 0.0372 | 0.1892 | 0.0014 | 1152 | 36.7 | 1134 | 12.4 | 1117 | 7.5 | 98% |  |
| 13NB01-1-70 | 88.5 | 146 | 0.60 | 0.0684 | 0.0025 | 1.2723 | 0.0449 | 0.1344 | 0.0013 | 881 | 74.1 | 833 | 20.1 | 813 | 7.4 | 97% |  |
| 13NB01-1-71 | 80.9 | 328 | 0.25 | 0.0606 | 0.0025 | 1.4630 | 0.0602 | 0.1752 | 0.0017 | 628 | 61.1 | 915 | 24.8 | 1041 | 9.3 | 87% |  |
| 13NB01-1-73 | 106 | 191 | 0.56 | 0.0711 | 0.0021 | 1.2674 | 0.0356 | 0.1283 | 0.0011 | 961 | 58.9 | 831 | 15.9 | 778 | 6.3 | 93% |  |
| 13NB01-1-74 | 46.2 | 77.8 | 0.59 | 0.0696 | 0.0051 | 1.2147 | 0.0864 | 0.1283 | 0.0019 | 917 | 147 | 807 | 39.6 | 778 | 10.6 | 96% |  |
| 13NB01-1-75 | 92.0 | 140 | 0.65 | 0.0929 | 0.0024 | 3.1377 | 0.0819 | 0.2420 | 0.0024 | 1487 | 49.7 | 1442 | 20.1 | 1397 | 12.2 | 96% |  |
| 13NB01-1-76 | 89.6 | 171 | 0.52 | 0.0669 | 0.0024 | 1.2251 | 0.0428 | 0.1316 | 0.0014 | 835 | 71.3 | 812 | 19.5 | 797 | 8.3 | 98% |  |
| 13NB01-1-77 | 161 | 214 | 0.75 | 0.0660 | 0.0029 | 1.2285 | 0.0547 | 0.1333 | 0.0016 | 807 | 88.0 | 814 | 24.9 | 807 | 9.1 | 99% |  |
| 13NB01-1-78 | 38.2 | 33.8 | 1.13 | 0.1076 | 0.0223 | 0.7657 | 0.1366 | 0.0624 | 0.0024 | 1759 | 388 | 577 | 78.7 | 390 | 14.5 | 61% | N |
| 13NB01-1-79 | 211 | 662 | 0.32 | 0.0687 | 0.0020 | 1.3451 | 0.0377 | 0.1402 | 0.0014 | 889 | 60.0 | 865 | 16.3 | 846 | 7.7 | 97% |  |
| 13NB01-1-80 | 89.0 | 150 | 0.59 | 0.0622 | 0.0028 | 1.1038 | 0.0480 | 0.1275 | 0.0015 | 683 | 96.3 | 755 | 23.2 | 774 | 8.6 | 97% |  |
| 13NB01-1-82 | 81.7 | 110 | 0.75 | 0.0564 | 0.0045 | 0.4361 | 0.0353 | 0.0565 | 0.0010 | 478 | 176 | 368 | 25.0 | 354 | 5.9 | 96% |  |
| 13NB01-1-83 | 44.8 | 137 | 0.33 | 0.0761 | 0.0025 | 1.9803 | 0.0692 | 0.1873 | 0.0029 | 1098 | 66.7 | 1109 | 23.6 | 1107 | 15.5 | 99% |  |
| 13NB01-1-84 | 45.6 | 89.9 | 0.51 | 0.0680 | 0.0033 | 1.1232 | 0.0540 | 0.1203 | 0.0015 | 878 | 104 | 765 | 25.8 | 732 | 8.7 | 95% |  |
| 13NB01-1-85 | 62.1 | 153 | 0.41 | 0.0668 | 0.0023 | 1.2218 | 0.0441 | 0.1311 | 0.0014 | 831 | 73.3 | 811 | 20.1 | 794 | 8.2 | 97% |  |
| 样品13NB02-1 | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 13NB02-1-01 | 255 | 239 | 1.07 | 0.0549 | 0.0022 | 0.5415 | 0.0226 | 0.0710 | 0.0009 | 409 | 90.7 | 439 | 14.9 | 442 | 5.5 | 99% |  |
| 13NB02-1-02 | 218 | 387 | 0.56 | 0.0707 | 0.0019 | 1.3556 | 0.0350 | 0.1384 | 0.0012 | 950 | 58.3 | 870 | 15.1 | 835 | 7.0 | 95% |  |
| 13NB02-1-03 | 154 | 281 | 0.55 | 0.1261 | 0.0026 | 6.4834 | 0.1361 | 0.3707 | 0.0041 | 2044 | 36.1 | 2044 | 18.5 | 2033 | 19.1 | 99% |  |
| 13NB02-1-04 | 56.6 | 96.8 | 0.58 | 0.0606 | 0.0035 | 0.6646 | 0.0392 | 0.0793 | 0.0014 | 626 | 126 | 517 | 23.9 | 492 | 8.4 | 94% |  |
| 13NB02-1-05 | 309 | 389 | 0.80 | 0.0588 | 0.0021 | 0.5093 | 0.0174 | 0.0630 | 0.0008 | 561 | 79.6 | 418 | 11.7 | 394 | 4.9 | 94% |  |
| 13NB02-1-06 | 284 | 483 | 0.59 | 0.0560 | 0.0016 | 0.5576 | 0.0161 | 0.0717 | 0.0007 | 450 | 67.6 | 450 | 10.5 | 447 | 4.3 | 99% |  |
| 13NB02-1-07 | 340 | 396 | 0.86 | 0.0550 | 0.0020 | 0.5162 | 0.0186 | 0.0679 | 0.0007 | 413 | 83.3 | 423 | 12.5 | 423 | 4.5 | 99% |  |
| 13NB02-1-08 | 90.6 | 333 | 0.27 | 0.0701 | 0.0019 | 1.5827 | 0.0434 | 0.1625 | 0.0016 | 931 | 55.6 | 963 | 17.1 | 971 | 9.0 | 99% |  |
| 13NB02-1-09 | 121 | 148 | 0.82 | 0.0575 | 0.0034 | 0.5484 | 0.0324 | 0.0686 | 0.0011 | 522 | 131 | 444 | 21.2 | 428 | 6.8 | 96% |  |
| 13NB02-1-10 | 207 | 449 | 0.46 | 0.0763 | 0.0018 | 1.8854 | 0.0462 | 0.1777 | 0.0018 | 1103 | 47.7 | 1076 | 16.3 | 1054 | 9.9 | 97% |  |
| 13NB02-1-11 | 227 | 270 | 0.84 | 0.0713 | 0.0017 | 1.6239 | 0.0385 | 0.1642 | 0.0017 | 966 | 50.0 | 979 | 14.9 | 980 | 9.2 | 99% |  |
| 13NB02-1-13 | 223 | 259 | 0.86 | 0.0665 | 0.0034 | 0.6594 | 0.0336 | 0.0718 | 0.0010 | 833 | 103 | 514 | 20.5 | 447 | 6.1 | 85% | N |
| 13NB02-1-14 | 161 | 204 | 0.79 | 0.0684 | 0.0028 | 1.1801 | 0.0470 | 0.1252 | 0.0015 | 880 | 86.3 | 791 | 21.9 | 761 | 8.8 | 96% |  |
| 13NB02-1-15 | 120 | 177 | 0.68 | 0.0544 | 0.0026 | 0.5700 | 0.0264 | 0.0761 | 0.0009 | 387 | 112 | 458 | 17.1 | 473 | 5.5 | 96% |  |
| 13NB02-1-16 | 237 | 647 | 0.37 | 0.0690 | 0.0017 | 1.5002 | 0.0361 | 0.1559 | 0.0013 | 898 | 46.1 | 930 | 14.7 | 934 | 7.5 | 99% |  |
| 13NB02-1-17 | 368 | 399 | 0.92 | 0.0728 | 0.0019 | 1.6788 | 0.0428 | 0.1657 | 0.0015 | 1007 | 53.7 | 1001 | 16.2 | 989 | 8.4 | 98% |  |
| 13NB02-1-18 | 482 | 1051 | 0.46 | 0.0796 | 0.0019 | 1.7227 | 0.0369 | 0.1564 | 0.0019 | 1187 | 46.0 | 1017 | 13.8 | 937 | 10.6 | 91% |  |
| 13NB02-1-19 | 153 | 197 | 0.78 | 0.0526 | 0.0023 | 0.5166 | 0.0228 | 0.0713 | 0.0009 | 309 | 100.0 | 423 | 15.2 | 444 | 5.5 | 95% |  |
| 13NB02-1-20 | 93.8 | 132 | 0.71 | 0.0597 | 0.0031 | 0.5787 | 0.0299 | 0.0712 | 0.0011 | 594 | 113 | 464 | 19.2 | 443 | 6.9 | 95% |  |
| 13NB02-1-21 | 155 | 314 | 0.49 | 0.0842 | 0.0019 | 2.4798 | 0.0564 | 0.2118 | 0.0023 | 1298 | 43.4 | 1266 | 16.5 | 1239 | 12.3 | 97% |  |
| 13NB02-1-22 | 180 | 248 | 0.73 | 0.0578 | 0.0023 | 0.5881 | 0.0229 | 0.0739 | 0.0008 | 520 | 90.7 | 470 | 14.7 | 459 | 4.7 | 97% |  |
| 13NB02-1-23 | 117 | 147 | 0.79 | 0.0962 | 0.0024 | 3.8056 | 0.0940 | 0.2862 | 0.0032 | 1551 | 47.7 | 1594 | 19.9 | 1623 | 16.0 | 98% |  |
| 13NB02-1-24 | 72.5 | 235 | 0.31 | 0.0835 | 0.0021 | 2.5984 | 0.0645 | 0.2242 | 0.0022 | 1280 | 48.1 | 1300 | 18.2 | 1304 | 11.4 | 99% |  |
| 13NB02-1-25 | 115 | 89.1 | 1.29 | 0.0635 | 0.0030 | 1.1424 | 0.0507 | 0.1319 | 0.0020 | 724 | 106 | 774 | 24.0 | 799 | 11.6 | 96% |  |
| 13NB02-1-26 | 95.8 | 271 | 0.35 | 0.0554 | 0.0019 | 0.5744 | 0.0195 | 0.0746 | 0.0008 | 432 | 77.8 | 461 | 12.6 | 464 | 4.8 | 99% |  |
| 13NB02-1-27 | 123 | 198 | 0.62 | 0.0559 | 0.0024 | 0.5488 | 0.0232 | 0.0711 | 0.0008 | 450 | 96.3 | 444 | 15.2 | 443 | 5.1 | 99% |  |
| 13NB02-1-28 | 133 | 732 | 0.18 | 0.0694 | 0.0015 | 1.3754 | 0.0292 | 0.1428 | 0.0011 | 909 | 44.4 | 878 | 12.5 | 861 | 6.4 | 97% |  |
| 13NB02-1-29 | 445 | 430 | 1.04 | 0.0715 | 0.0015 | 1.7218 | 0.0390 | 0.1732 | 0.0017 | 972 | 43.4 | 1017 | 14.5 | 1029 | 9.4 | 98% |  |
| 13NB02-1-30 | 235 | 397 | 0.59 | 0.0590 | 0.0024 | 0.5552 | 0.0222 | 0.0681 | 0.0007 | 569 | 87.0 | 448 | 14.5 | 425 | 4.2 | 94% |  |
| 13NB02-1-31 | 325 | 220 | 1.48 | 0.0722 | 0.0021 | 1.3854 | 0.0396 | 0.1384 | 0.0016 | 992 | 59.3 | 883 | 16.9 | 836 | 9.1 | 94% |  |
| 13NB02-1-32 | 165 | 274 | 0.60 | 0.0565 | 0.0019 | 0.5674 | 0.0199 | 0.0723 | 0.0009 | 472 | 75.9 | 456 | 12.9 | 450 | 5.7 | 98% |  |
| 13NB02-1-33 | 354 | 476 | 0.74 | 0.0668 | 0.0016 | 1.4688 | 0.0354 | 0.1579 | 0.0016 | 831 | 48.1 | 918 | 14.6 | 945 | 8.7 | 97% |  |
| 13NB02-1-34 | 164 | 229 | 0.72 | 0.0632 | 0.0019 | 1.1790 | 0.0353 | 0.1344 | 0.0014 | 722 | 63.0 | 791 | 16.5 | 813 | 7.9 | 97% |  |
| 13NB02-1-35 | 266 | 1124 | 0.24 | 0.0682 | 0.0014 | 1.2079 | 0.0278 | 0.1277 | 0.0018 | 876 | 42.6 | 804 | 12.8 | 775 | 10.1 | 96% |  |
| 13NB02-1-36 | 135 | 327 | 0.41 | 0.0547 | 0.0020 | 0.5292 | 0.0190 | 0.0700 | 0.0007 | 398 | 81.5 | 431 | 12.6 | 436 | 4.0 | 98% |  |
| 13NB02-1-37 | 163 | 240 | 0.68 | 0.0511 | 0.0022 | 0.5007 | 0.0222 | 0.0711 | 0.0008 | 243 | 100.0 | 412 | 15.0 | 443 | 4.9 | 92% |  |
| 13NB02-1-38 | 56.9 | 98.3 | 0.58 | 0.0710 | 0.0028 | 1.6026 | 0.0654 | 0.1630 | 0.0021 | 967 | 82.6 | 971 | 25.5 | 974 | 11.9 | 99% |  |
| 13NB02-1-40 | 237 | 179 | 1.32 | 0.1145 | 0.0029 | 4.9424 | 0.1282 | 0.3130 | 0.0032 | 1872 | 46.3 | 1810 | 21.9 | 1755 | 15.7 | 96% |  |
| 13NB02-1-41 | 54.1 | 117 | 0.46 | 0.0621 | 0.0035 | 0.5674 | 0.0308 | 0.0679 | 0.0011 | 680 | 120 | 456 | 20.0 | 424 | 6.4 | 92% |  |
| 13NB02-1-42 | 166 | 173 | 0.96 | 0.1098 | 0.0026 | 4.5959 | 0.1168 | 0.3018 | 0.0030 | 1795 | 42.6 | 1749 | 21.2 | 1700 | 14.9 | 97% |  |
| 13NB02-1-43 | 251 | 319 | 0.79 | 0.0734 | 0.0018 | 1.6236 | 0.0412 | 0.1600 | 0.0016 | 1025 | 51.1 | 979 | 16.0 | 957 | 9.0 | 97% |  |
| 13NB02-1-44 | 93.9 | 169 | 0.56 | 0.0744 | 0.0023 | 1.6085 | 0.0494 | 0.1569 | 0.0016 | 1054 | 62.7 | 974 | 19.2 | 939 | 9.1 | 96% |  |
| 13NB02-1-45 | 173 | 153 | 1.13 | 0.1352 | 0.0029 | 6.5346 | 0.1438 | 0.3488 | 0.0030 | 2166 | 37.7 | 2051 | 19.4 | 1929 | 14.6 | 93% |  |
| 13NB02-1-47 | 197 | 373 | 0.53 | 0.0595 | 0.0020 | 0.5941 | 0.0195 | 0.0725 | 0.0008 | 587 | 74.1 | 473 | 12.4 | 451 | 4.9 | 95% |  |
| 13NB02-1-49 | 415 | 712 | 0.58 | 0.0735 | 0.0022 | 0.7194 | 0.0213 | 0.0706 | 0.0007 | 1028 | 61.1 | 550 | 12.6 | 440 | 4.3 | 77% | N |
| 13NB02-1-50 | 211 | 195 | 1.08 | 0.1751 | 0.0038 | 11.5339 | 0.2465 | 0.4743 | 0.0043 | 2607 | 35.3 | 2567 | 20.0 | 2503 | 19.0 | 97% |  |
| 13NB02-1-51 | 531 | 548 | 0.97 | 0.1655 | 0.0031 | 10.1479 | 0.1929 | 0.4414 | 0.0036 | 2512 | 31.8 | 2448 | 17.6 | 2357 | 16.3 | 96% |  |
| 13NB02-1-52 | 228 | 566 | 0.40 | 0.0586 | 0.0017 | 0.6283 | 0.0188 | 0.0772 | 0.0007 | 554 | 64.8 | 495 | 11.7 | 479 | 4.3 | 96% |  |
| 13NB02-1-53 | 274 | 413 | 0.66 | 0.0650 | 0.0018 | 0.7392 | 0.0202 | 0.0821 | 0.0008 | 774 | 57.4 | 562 | 11.8 | 508 | 4.7 | 90% |  |
| 13NB02-1-54 | 312 | 374 | 0.83 | 0.0596 | 0.0021 | 0.5981 | 0.0206 | 0.0727 | 0.0008 | 587 | 69.4 | 476 | 13.1 | 452 | 4.8 | 94% |  |
| 13NB02-1-55 | 301 | 1364 | 0.22 | 0.0633 | 0.0014 | 0.8739 | 0.0203 | 0.0993 | 0.0011 | 720 | 46.3 | 638 | 11.0 | 611 | 6.2 | 95% |  |
| 13NB02-1-56 | 169 | 301 | 0.56 | 0.0597 | 0.0023 | 0.6232 | 0.0250 | 0.0751 | 0.0010 | 594 | 83.3 | 492 | 15.6 | 467 | 5.7 | 94% |  |
| 13NB02-1-57 | 312 | 591 | 0.53 | 0.0574 | 0.0017 | 0.5739 | 0.0169 | 0.0721 | 0.0007 | 506 | 64.8 | 461 | 10.9 | 449 | 4.4 | 97% |  |
| 13NB02-1-58 | 217 | 152 | 1.43 | 0.0718 | 0.0023 | 1.6385 | 0.0545 | 0.1644 | 0.0018 | 989 | 66.7 | 985 | 21.0 | 981 | 10.2 | 99% |  |
| 13NB02-1-59 | 118 | 106 | 1.11 | 0.0614 | 0.0030 | 0.8379 | 0.0401 | 0.0998 | 0.0016 | 654 | 104 | 618 | 22.2 | 613 | 9.1 | 99% |  |
| 13NB02-1-60 | 143 | 246 | 0.58 | 0.0625 | 0.0025 | 0.5989 | 0.0240 | 0.0693 | 0.0008 | 700 | 82.4 | 477 | 15.2 | 432 | 5.1 | 90% |  |
| 13NB02-1-61 | 121 | 194 | 0.62 | 0.0589 | 0.0023 | 0.5904 | 0.0238 | 0.0718 | 0.0008 | 561 | 89.8 | 471 | 15.2 | 447 | 4.9 | 94% |  |
| 13NB02-1-62 | 395 | 992 | 0.40 | 0.1402 | 0.0024 | 6.6700 | 0.1087 | 0.3421 | 0.0024 | 2229 | 29.6 | 2069 | 14.5 | 1897 | 11.8 | 91% |  |
| 13NB02-1-63 | 245 | 334 | 0.73 | 0.0570 | 0.0021 | 0.5736 | 0.0223 | 0.0723 | 0.0008 | 500 | 79.6 | 460 | 14.4 | 450 | 5.0 | 97% |  |
| 13NB02-1-64 | 51.4 | 75.8 | 0.68 | 0.0568 | 0.0047 | 0.6162 | 0.0479 | 0.0799 | 0.0017 | 487 | 179 | 487 | 30.1 | 496 | 10.2 | 98% |  |
| 13NB02-1-65 | 535 | 779 | 0.69 | 0.2180 | 0.0039 | 16.0736 | 0.2946 | 0.5304 | 0.0055 | 2966 | 27.6 | 2881 | 17.6 | 2743 | 23.1 | 95% |  |
| 13NB02-1-66 | 220 | 521 | 0.42 | 0.0582 | 0.0017 | 0.5908 | 0.0170 | 0.0731 | 0.0007 | 539 | 69.4 | 471 | 10.9 | 455 | 4.1 | 96% |  |
| 13NB02-1-67 | 200 | 197 | 1.02 | 0.0619 | 0.0024 | 0.5950 | 0.0231 | 0.0694 | 0.0008 | 733 | 83.3 | 474 | 14.7 | 433 | 4.8 | 90% |  |
| 13NB02-1-68 | 69.8 | 174 | 0.40 | 0.0661 | 0.0020 | 1.2170 | 0.0362 | 0.1326 | 0.0013 | 811 | 63.0 | 808 | 16.6 | 803 | 7.3 | 99% |  |
| 13NB02-1-69 | 203 | 234 | 0.87 | 0.0560 | 0.0019 | 0.5523 | 0.0196 | 0.0710 | 0.0008 | 450 | 77.8 | 447 | 12.8 | 442 | 4.8 | 98% |  |
| 13NB02-1-70 | 268 | 682 | 0.39 | 0.0766 | 0.0017 | 1.9547 | 0.0413 | 0.1833 | 0.0017 | 1122 | 10.7 | 1100 | 14.2 | 1085 | 9.3 | 98% |  |
| 13NB02-1-71 | 146 | 401 | 0.36 | 0.1292 | 0.0026 | 6.9051 | 0.1416 | 0.3838 | 0.0033 | 2087 | 35.8 | 2099 | 18.2 | 2094 | 15.4 | 99% |  |
| 13NB02-1-72 | 176 | 131 | 1.35 | 0.0673 | 0.0023 | 1.3479 | 0.0463 | 0.1445 | 0.0021 | 856 | 70.4 | 867 | 20.0 | 870 | 11.7 | 99% |  |
| 13NB02-1-73 | 111 | 135 | 0.82 | 0.0555 | 0.0030 | 0.5659 | 0.0304 | 0.0745 | 0.0012 | 432 | 122 | 455 | 19.7 | 463 | 6.9 | 98% |  |
| 13NB02-1-74 | 92.4 | 132 | 0.70 | 0.1006 | 0.0025 | 3.8980 | 0.0953 | 0.2795 | 0.0028 | 1636 | 47.4 | 1613 | 19.8 | 1589 | 14.1 | 98% |  |
| 13NB02-1-75 | 180 | 602 | 0.30 | 0.1048 | 0.0020 | 4.2855 | 0.0806 | 0.2938 | 0.0023 | 1722 | 34.7 | 1691 | 15.5 | 1661 | 11.7 | 98% |  |
| 13NB02-1-76 | 340 | 386 | 0.88 | 0.0549 | 0.0015 | 0.5605 | 0.0159 | 0.0735 | 0.0008 | 409 | 65.7 | 452 | 10.3 | 457 | 4.7 | 98% |  |
| 13NB02-1-77 | 194 | 330 | 0.59 | 0.0692 | 0.0017 | 1.6106 | 0.0390 | 0.1675 | 0.0016 | 906 | 49.2 | 974 | 15.2 | 998 | 8.8 | 97% |  |
| 13NB02-1-78 | 174 | 329 | 0.53 | 0.0555 | 0.0018 | 0.5539 | 0.0189 | 0.0721 | 0.0009 | 432 | 69.4 | 448 | 12.3 | 449 | 5.3 | 99% |  |
| 13NB02-1-80 | 315 | 547 | 0.58 | 0.0561 | 0.0017 | 0.5448 | 0.0162 | 0.0700 | 0.0006 | 457 | 66.7 | 442 | 10.7 | 436 | 3.8 | 98% |  |
| 13NB02-1-81 | 269 | 333 | 0.81 | 0.0553 | 0.0020 | 0.5058 | 0.0176 | 0.0661 | 0.0007 | 433 | 79.6 | 416 | 11.9 | 413 | 4.5 | 99% |  |
| 13NB02-1-82 | 131 | 164 | 0.80 | 0.0485 | 0.0025 | 0.4456 | 0.0233 | 0.0671 | 0.0010 | 124 | 119 | 374 | 16.3 | 419 | 5.8 | 88% | N |
| 13NB02-1-83 | 200 | 999 | 0.20 | 0.1565 | 0.0028 | 9.5237 | 0.1684 | 0.4384 | 0.0030 | 2418 | 31.3 | 2390 | 16.3 | 2343 | 13.5 | 98% |  |
| 13NB02-1-84 | 127 | 469 | 0.27 | 0.0878 | 0.0018 | 2.8529 | 0.0567 | 0.2345 | 0.0020 | 1389 | 38.9 | 1370 | 15.0 | 1358 | 10.4 | 99% |  |
| 13NB02-1-85 | 101 | 182 | 0.56 | 0.0668 | 0.0031 | 0.7434 | 0.0324 | 0.0809 | 0.0013 | 833 | 91.7 | 564 | 18.9 | 502 | 7.8 | 88% | N |
| 13NB02-1-86 | 384 | 548 | 0.70 | 0.0675 | 0.0016 | 1.2206 | 0.0275 | 0.1309 | 0.0012 | 854 | 48.1 | 810 | 12.6 | 793 | 6.6 | 97% |  |
| 13NB02-1-87 | 626 | 1174 | 0.53 | 0.0552 | 0.0014 | 0.4728 | 0.0124 | 0.0618 | 0.0007 | 420 | 57.4 | 393 | 8.6 | 387 | 4.0 | 98% |  |
| 13NB02-1-88 | 409 | 304 | 1.35 | 0.0555 | 0.0022 | 0.5408 | 0.0220 | 0.0703 | 0.0007 | 435 | 88.9 | 439 | 14.5 | 438 | 4.3 | 99% |  |
| 13NB02-1-89 | 244 | 382 | 0.64 | 0.0707 | 0.0017 | 1.7182 | 0.0434 | 0.1754 | 0.0019 | 950 | 50.0 | 1015 | 16.2 | 1042 | 10.7 | 97% |  |
| 13NB02-1-90 | 139 | 365 | 0.38 | 0.0746 | 0.0017 | 1.8885 | 0.0432 | 0.1831 | 0.0019 | 1057 | 44.4 | 1077 | 15.2 | 1084 | 10.4 | 99% |  |
| 13NB02-1-92 | 161 | 891 | 0.18 | 0.1491 | 0.0026 | 7.6736 | 0.1511 | 0.3709 | 0.0039 | 2336 | 29.3 | 2194 | 17.7 | 2034 | 18.4 | 92% |  |
| 13NB02-1-93 | 225 | 378 | 0.60 | 0.0575 | 0.0019 | 0.5725 | 0.0185 | 0.0725 | 0.0007 | 509 | 74.1 | 460 | 11.9 | 451 | 4.3 | 98% |  |
| 13NB02-1-94 | 175 | 473 | 0.37 | 0.0775 | 0.0016 | 1.9995 | 0.0429 | 0.1865 | 0.0015 | 1144 | 41.8 | 1115 | 14.5 | 1102 | 8.4 | 98% |  |
| 13NB02-1-95 | 132 | 212 | 0.62 | 0.0640 | 0.0022 | 0.8844 | 0.0307 | 0.1001 | 0.0009 | 743 | 39.8 | 643 | 16.5 | 615 | 5.5 | 95% |  |
| 13NB02-1-96 | 208 | 274 | 0.76 | 0.0583 | 0.0023 | 0.5776 | 0.0231 | 0.0718 | 0.0008 | 543 | 89.8 | 463 | 14.9 | 447 | 4.8 | 96% |  |
| 13NB02-1-97 | 223 | 210 | 1.06 | 0.1003 | 0.0024 | 3.9184 | 0.0963 | 0.2824 | 0.0025 | 1631 | 45.5 | 1617 | 19.9 | 1604 | 12.7 | 99% |  |
| 13NB02-1-98 | 44.8 | 147 | 0.30 | 0.0771 | 0.0023 | 1.9182 | 0.0588 | 0.1797 | 0.0019 | 1124 | 59.3 | 1087 | 20.5 | 1065 | 10.6 | 97% |  |
| 13NB02-1-99 | 188 | 210 | 0.90 | 0.0636 | 0.0025 | 0.6414 | 0.0245 | 0.0734 | 0.0008 | 728 | 83.3 | 503 | 15.1 | 457 | 4.8 | 90% |  |
| 13NB02-1-100 | 62.2 | 143 | 0.43 | 0.2632 | 0.0047 | 24.5282 | 0.4476 | 0.6720 | 0.0056 | 3266 | 28.1 | 3290 | 17.9 | 3314 | 21.5 | 99% |  |
| 13NB02-1-101 | 132 | 174 | 0.76 | 0.0649 | 0.0030 | 0.6546 | 0.0292 | 0.0735 | 0.0008 | 770 | 97.4 | 511 | 17.9 | 457 | 4.9 | 88% | N |
| 13NB02-1-102 | 150 | 446 | 0.34 | 0.0734 | 0.0016 | 1.6748 | 0.0380 | 0.1641 | 0.0014 | 1033 | 72.2 | 999 | 14.4 | 979 | 7.7 | 98% |  |
| 13NB02-1-103 | 121 | 159 | 0.77 | 0.0670 | 0.0024 | 1.2575 | 0.0453 | 0.1353 | 0.0014 | 839 | 80.6 | 827 | 20.4 | 818 | 8.1 | 98% |  |
| 13NB02-1-104 | 152 | 206 | 0.74 | 0.0664 | 0.0029 | 0.6858 | 0.0309 | 0.0741 | 0.0010 | 817 | 91.5 | 530 | 18.6 | 461 | 5.9 | 85% | N |
| 13NB02-1-105 | 233 | 376 | 0.62 | 0.0583 | 0.0021 | 0.5780 | 0.0204 | 0.0715 | 0.0007 | 539 | 77.8 | 463 | 13.1 | 445 | 4.3 | 96% |  |
| 13NB02-1-106 | 296 | 480 | 0.62 | 0.0723 | 0.0019 | 1.4989 | 0.0378 | 0.1488 | 0.0012 | 994 | 56.5 | 930 | 15.4 | 894 | 6.9 | 96% |  |
| 13NB02-1-107 | 59.3 | 824 | 0.07 | 0.0727 | 0.0016 | 1.5625 | 0.0339 | 0.1543 | 0.0013 | 1006 | 43.4 | 955 | 13.4 | 925 | 7.3 | 96% |  |
| 13NB02-1-108 | 337 | 1279 | 0.26 | 0.0715 | 0.0015 | 1.4607 | 0.0316 | 0.1465 | 0.0014 | 972 | 43.7 | 914 | 13.1 | 881 | 8.0 | 96% |  |
| 13NB02-1-109 | 103 | 217 | 0.47 | 0.0783 | 0.0020 | 1.9201 | 0.0504 | 0.1761 | 0.0017 | 1155 | 51.9 | 1088 | 17.6 | 1046 | 9.5 | 96% |  |
| 13NB02-1-110 | 384 | 691 | 0.56 | 0.0636 | 0.0014 | 0.8948 | 0.0199 | 0.1011 | 0.0009 | 728 | 46.3 | 649 | 10.6 | 621 | 5.2 | 95% |  |
| 13NB02-1-111 | 106 | 119 | 0.89 | 0.0698 | 0.0029 | 1.3865 | 0.0584 | 0.1432 | 0.0018 | 924 | 87.0 | 883 | 24.8 | 862 | 10.4 | 97% |  |
| 13NB02-1-112 | 185 | 403 | 0.46 | 0.0575 | 0.0019 | 0.5777 | 0.0180 | 0.0726 | 0.0007 | 509 | 75.0 | 463 | 11.6 | 452 | 4.5 | 97% |  |

注：N代表不参入年龄计算.

附表2 弄巴地区泥盆系和石炭系锆石Hf同位素组成

Table 2 Zircon Hf isotopic compositions of the Devonian and Carboniferous rocks in the Nongba area

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 分析点号 | 176Yb/177Hf | 176Lu/177Hf | 176Hf/177Hf | 2*σ* | (176Hf/177Hf)i | *ε*Hf(0) | *ε*Hf(*t*) |
| 样品13NB01-1 |  |  |  |  |  |  |  |
| 13NB01-1-82 | 0.042513 | 0.000978 | 0.282811 | 0.000009 | 0.282805 | 1.4 | 8.9 |
| 13NB01-1-04 | 0.024668 | 0.000654 | 0.282341 | 0.000009 | 0.282331 | -15.3 | 1.8 |
| 13NB01-1-09 | 0.021662 | 0.000568 | 0.282307 | 0.000008 | 0.282299 | -16.4 | 1.4 |
| 13NB01-1-10 | 0.050156 | 0.001267 | 0.282355 | 0.000008 | 0.282336 | -14.8 | 1.9 |
| 13NB01-1-11 | 0.020181 | 0.000542 | 0.282332 | 0.000008 | 0.282325 | -15.5 | 0.1 |
| 13NB01-1-12 | 0.021106 | 0.000599 | 0.282339 | 0.000009 | 0.282329 | -15.3 | 2.2 |
| 13NB01-1-13 | 0.035736 | 0.000916 | 0.282339 | 0.000008 | 0.282326 | -15.3 | 1.1 |
| 13NB01-1-16 | 0.028551 | 0.000744 | 0.282352 | 0.000008 | 0.282341 | -14.9 | 1.4 |
| 13NB01-1-19 | 0.037336 | 0.000933 | 0.282363 | 0.000010 | 0.282349 | -14.5 | 2.8 |
| 13NB01-1-22 | 0.033261 | 0.000921 | 0.282333 | 0.000009 | 0.282327 | -15.5 | -8.2 |
| 13NB01-1-23 | 0.025586 | 0.000662 | 0.282328 | 0.000009 | 0.282318 | -15.7 | 1.0 |
| 13NB01-1-24 | 0.040098 | 0.001035 | 0.282404 | 0.000008 | 0.282389 | -13.0 | 3.4 |
| 13NB01-1-26 | 0.034825 | 0.000902 | 0.282334 | 0.000008 | 0.282321 | -15.5 | 1.3 |
| 13NB01-1-28 | 0.029366 | 0.000758 | 0.282369 | 0.000008 | 0.282357 | -14.3 | 3.5 |
| 13NB01-1-83 | 0.022119 | 0.000664 | 0.282141 | 0.000009 | 0.282127 | -22.3 | 1.7 |
| 13NB01-1-31 | 0.052564 | 0.001493 | 0.282425 | 0.000010 | 0.282403 | -12.3 | 4.3 |
| 13NB01-1-32 | 0.033110 | 0.000834 | 0.282240 | 0.000009 | 0.282224 | -18.8 | 3.2 |
| 13NB01-1-34 | 0.081652 | 0.002142 | 0.282219 | 0.000008 | 0.282185 | -19.6 | -2.5 |
| 13NB01-1-35 | 0.019517 | 0.000530 | 0.282360 | 0.000008 | 0.282352 | -14.6 | 2.6 |
| 13NB01-1-84 | 0.025876 | 0.000662 | 0.282324 | 0.000009 | 0.282315 | -15.8 | 0.0 |
| 13NB01-1-37 | 0.027387 | 0.000693 | 0.282364 | 0.000009 | 0.282354 | -14.4 | 1.7 |
| 13NB01-1-85 | 0.040604 | 0.001015 | 0.282369 | 0.000009 | 0.282354 | -14.2 | 2.8 |
| 13NB01-1-39 | 0.049638 | 0.001279 | 0.282328 | 0.000008 | 0.282309 | -15.7 | 1.2 |
| 13NB01-1-40 | 0.049167 | 0.001223 | 0.282342 | 0.000008 | 0.282324 | -15.2 | 1.3 |
| 13NB01-1-41 | 0.043387 | 0.001192 | 0.282397 | 0.000009 | 0.282378 | -13.3 | 4.5 |
| 13NB01-1-42 | 0.035957 | 0.000909 | 0.281133 | 0.000008 | 0.281088 | -58.0 | -0.9 |
| 13NB01-1-45 | 0.034457 | 0.000882 | 0.282340 | 0.000008 | 0.282327 | -15.3 | 1.2 |
| 13NB01-1-50 | 0.048482 | 0.001222 | 0.282356 | 0.000009 | 0.282338 | -14.7 | 2.3 |
| 13NB01-1-52 | 0.029257 | 0.000780 | 0.282346 | 0.000009 | 0.282334 | -15.1 | 1.7 |
| 13NB01-1-53 | 0.031039 | 0.000835 | 0.282360 | 0.000009 | 0.282347 | -14.6 | 2.4 |
| 13NB01-1-55 | 0.030734 | 0.000782 | 0.282346 | 0.000008 | 0.282334 | -15.1 | 2.5 |
| 13NB01-1-59 | 0.028453 | 0.000722 | 0.282341 | 0.000008 | 0.282328 | -15.2 | 6.3 |
| 13NB01-1-60 | 0.059064 | 0.001379 | 0.282328 | 0.000009 | 0.282307 | -15.7 | 0.8 |
| 13NB01-1-61 | 0.070699 | 0.001781 | 0.282155 | 0.000012 | 0.282123 | -21.8 | -2.3 |
| 13NB01-1-62 | 0.035275 | 0.000817 | 0.282495 | 0.000008 | 0.282486 | -9.8 | 2.7 |
| 13NB01-1-64 | 0.043332 | 0.001082 | 0.282368 | 0.000010 | 0.282352 | -14.3 | 1.5 |
| 13NB01-1-65 | 0.026578 | 0.000681 | 0.282359 | 0.000009 | 0.282349 | -14.6 | 1.8 |
| 13NB01-1-66 | 0.054156 | 0.001363 | 0.282366 | 0.000010 | 0.282346 | -14.3 | 2.5 |
| 13NB01-1-68 | 0.011432 | 0.000275 | 0.282159 | 0.000009 | 0.282156 | -21.7 | -9.5 |
| 13NB01-1-69 | 0.035787 | 0.000873 | 0.282052 | 0.000009 | 0.282033 | -25.5 | -1.4 |
| 13NB01-1-70 | 0.035446 | 0.000892 | 0.282357 | 0.000008 | 0.282344 | -14.7 | 2.8 |
| 13NB01-1-71 | 0.037572 | 0.000956 | 0.282369 | 0.000008 | 0.282350 | -14.2 | 8.2 |
| 13NB01-1-73 | 0.036349 | 0.000916 | 0.282353 | 0.000008 | 0.282340 | -14.8 | 1.9 |
| 13NB01-1-74 | 0.032529 | 0.000835 | 0.282364 | 0.000009 | 0.282352 | -14.4 | 2.3 |
| 13NB01-1-75 | 0.039164 | 0.001014 | 0.281904 | 0.000009 | 0.281877 | -30.7 | -0.6 |
| 13NB01-1-77 | 0.057994 | 0.001396 | 0.282181 | 0.000008 | 0.282159 | -20.9 | -3.9 |
| 13NB01-1-80 | 0.068253 | 0.001682 | 0.282391 | 0.000009 | 0.282367 | -13.5 | 2.7 |
| 样品13NB02-1 |  |  |  |  |  |  |  |
| 13NB02-1-01 | 0.019592 | 0.000547 | 0.282416 | 0.000010 | 0.282411 | -12.6 | -3.0 |
| 13NB02-1-04 | 0.056295 | 0.002019 | 0.282819 | 0.000015 | 0.282801 | 1.7 | 11.9 |
| 13NB02-1-06 | 0.025207 | 0.000704 | 0.282603 | 0.000010 | 0.282597 | -6.0 | 3.6 |
| 13NB02-1-08 | 0.015579 | 0.000493 | 0.282313 | 0.000017 | 0.282304 | -16.2 | 4.9 |
| 13NB02-1-11 | 0.049156 | 0.001382 | 0.282200 | 0.000010 | 0.282175 | -20.2 | 0.6 |
| 13NB02-1-15 | 0.037365 | 0.000922 | 0.282241 | 0.000008 | 0.282233 | -18.8 | -8.7 |
| 13NB02-1-16 | 0.046997 | 0.001098 | 0.282098 | 0.000007 | 0.282078 | -23.8 | -3.9 |
| 13NB02-1-19 | 0.047350 | 0.001345 | 0.282242 | 0.000011 | 0.282230 | -18.8 | -9.4 |
| 13NB02-1-20 | 0.036576 | 0.000914 | 0.282262 | 0.000009 | 0.282255 | -18.0 | -8.5 |
| 13NB02-1-23 | 0.024330 | 0.000606 | 0.281681 | 0.000009 | 0.281662 | -38.6 | -3.1 |
| 13NB02-1-24 | 0.028834 | 0.000706 | 0.281730 | 0.000009 | 0.281712 | -36.9 | -8.6 |
| 13NB02-1-26 | 0.021345 | 0.000586 | 0.282215 | 0.000009 | 0.282210 | -19.7 | -9.7 |
| 13NB02-1-27 | 0.033002 | 0.000838 | 0.282332 | 0.000010 | 0.282325 | -15.6 | -6.1 |
| 13NB02-1-28 | 0.083245 | 0.002045 | 0.282153 | 0.000008 | 0.282120 | -21.9 | -4.1 |
| 13NB02-1-29 | 0.037738 | 0.001032 | 0.282025 | 0.000008 | 0.282005 | -26.4 | -4.3 |
| 13NB02-1-30 | 0.047370 | 0.001245 | 0.282239 | 0.000008 | 0.282229 | -18.8 | -9.9 |
| 13NB02-1-32 | 0.030432 | 0.000777 | 0.282354 | 0.000009 | 0.282348 | -14.8 | -5.1 |
| 13NB02-1-33 | 0.071246 | 0.001862 | 0.282184 | 0.000011 | 0.282150 | -20.8 | -1.1 |
| 13NB02-1-36 | 0.037094 | 0.000909 | 0.282253 | 0.000007 | 0.282246 | -18.3 | -9.0 |
| 13NB02-1-38 | 0.033815 | 0.000856 | 0.282365 | 0.000008 | 0.282350 | -14.4 | 6.6 |
| 13NB02-1-40 | 0.054259 | 0.001506 | 0.281317 | 0.000012 | 0.281267 | -51.4 | -14.2 |
| 13NB02-1-41 | 0.034440 | 0.000839 | 0.282210 | 0.000009 | 0.282203 | -19.9 | -10.8 |
| 13NB02-1-42 | 0.038738 | 0.000957 | 0.281379 | 0.000008 | 0.281346 | -49.3 | -10.4 |
| 13NB02-1-44 | 0.040246 | 0.000965 | 0.282232 | 0.000009 | 0.282215 | -19.1 | 1.1 |
| 13NB02-1-51 | 0.027199 | 0.000702 | 0.280962 | 0.000009 | 0.280928 | -64.0 | -8.9 |
| 13NB02-1-52 | 0.029370 | 0.000754 | 0.282385 | 0.000007 | 0.282378 | -13.7 | -3.4 |
| 13NB02-1-56 | 0.031906 | 0.000840 | 0.282197 | 0.000007 | 0.282190 | -20.3 | -10.3 |
| 13NB02-1-59 | 0.019253 | 0.000551 | 0.282451 | 0.000008 | 0.282445 | -11.3 | 2.0 |
| 13NB02-1-60 | 0.037978 | 0.000952 | 0.282227 | 0.000008 | 0.282219 | -19.3 | -10.1 |
| 13NB02-1-61 | 0.045657 | 0.001453 | 0.282808 | 0.000011 | 0.282796 | 1.3 | 10.7 |
| 13NB02-1-64 | 0.029724 | 0.000813 | 0.282776 | 0.000009 | 0.282768 | 0.1 | 10.8 |
| 13NB02-1-66 | 0.049566 | 0.001243 | 0.282235 | 0.000008 | 0.282224 | -19.0 | -9.4 |
| 13NB02-1-67 | 0.028951 | 0.000731 | 0.282596 | 0.000009 | 0.282590 | -6.2 | 3.1 |
| 13NB02-1-68 | 0.020374 | 0.000493 | 0.281995 | 0.000008 | 0.281988 | -27.5 | -10.0 |
| 13NB02-1-69 | 0.023612 | 0.000644 | 0.282322 | 0.000009 | 0.282317 | -15.9 | -6.4 |
| 13NB02-1-71 | 0.022448 | 0.000608 | 0.281351 | 0.000009 | 0.281327 | -50.3 | -4.5 |
| 13NB02-1-73 | 0.023330 | 0.000630 | 0.282811 | 0.000007 | 0.282805 | 1.4 | 11.4 |
| 13NB02-1-74 | 0.012000 | 0.000309 | 0.281550 | 0.000009 | 0.281540 | -43.2 | -7.2 |
| 13NB02-1-75 | 0.041437 | 0.001055 | 0.281545 | 0.000009 | 0.281510 | -43.4 | -6.3 |
| 13NB02-1-77 | 0.067035 | 0.001811 | 0.282357 | 0.000009 | 0.282323 | -14.7 | 6.2 |
| 13NB02-1-86 | 0.083305 | 0.002191 | 0.282202 | 0.000014 | 0.282169 | -20.2 | -3.8 |
| 13NB02-1-88 | 0.037248 | 0.001018 | 0.282606 | 0.000011 | 0.282597 | -5.9 | 3.5 |
| 13NB02-1-90 | 0.033571 | 0.000950 | 0.282173 | 0.000008 | 0.282154 | -21.2 | 2.1 |
| 13NB02-1-109 | 0.040880 | 0.001193 | 0.282415 | 0.000009 | 0.282392 | -12.6 | 9.7 |
| 13NB02-1-94 | 0.043942 | 0.001105 | 0.281932 | 0.000007 | 0.281909 | -29.7 | -6.1 |
| 13NB02-1-95 | 0.052981 | 0.001283 | 0.282611 | 0.000008 | 0.282596 | -5.7 | 7.3 |
| 13NB02-1-110 | 0.053686 | 0.001292 | 0.282472 | 0.000009 | 0.282457 | -10.6 | 2.6 |
| 13NB02-1-103 | 0.048518 | 0.001187 | 0.281858 | 0.000008 | 0.281840 | -32.3 | -14.9 |
| 13NB02-1-106 | 0.036738 | 0.001038 | 0.282261 | 0.000011 | 0.282243 | -18.1 | 1.1 |
| 13NB02-1-112 | 0.044000 | 0.001137 | 0.282235 | 0.000009 | 0.282225 | -19.0 | -9.4 |

注：锆石Hf分析点号与年龄分析点相同，初始Hf计算采用锆石年龄.