**附表1 采样点GPS点位**

**Appendix table 1 GPS of the Sampling site**

|  |  |
| --- | --- |
| **D001** | 39°41´39´´N, 115°54´6´´E |
| **D002** | 39°41´51´´N, 115°54´9´´E |
| **D003** | 39°41´42´´N, 115°54´21´´E |
| **D004** | 39°41´40´´N, 115°54´16´´E |
| **D005** | 39°41´48´´N, 115°54´18´´E |
| **D006** | 39°41´47´´N, 115°54´17´´E |

**附表2 闪长岩锆石U-Pb测年数据**

**Appendix table 2 Raw data of the U-Pb dating of Zircon in diorite**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *Analysis* | *207Pb/206Pb* | | *207Pb/235U* | | *206Pb/238U* | | *208Pb/232Th* | | *rr* | *238U/232Th* | |  | *207Pb/206b* |  | *207Pb/235U* |  | *206Pb/238U* |  | *208Pb/232Th* | *谐和度* |
| ratio | 1s | ratio | 1s | ratio | 1s | ratio | 1s |  | ratio | 1s | Age | 1s | Age | 1s | Age | 1s | Age | 1s |
| **J1RZ1-02** | 0.04832 | 0.00203 | 0.1206 | 0.00489 | 0.0181 | 0.00022 | 0.00567 | 0.00055 | 0.9 | 6.55 | 0.07 | 115 | 71 | 116 | 4 | 116 | 1 | 114 | 11 | 0.00% |
| **J1RZ1-03** | 0.04808 | 0.00373 | 0.11683 | 0.00888 | 0.01762 | 0.0003 | 0.00568 | 0.00021 | 0.9 | 0.91 | 0.01 | 103 | 137 | 112 | 8 | 113 | 2 | 114 | 4 | -0.88% |
| **J1RZ1-04** | 0.04847 | 0.00473 | 0.13566 | 0.01298 | 0.02029 | 0.00042 | 0.00646 | 0.00028 | 0.9 | 0.88 | 0.01 | 122 | 175 | 129 | 12 | 129 | 3 | 130 | 6 | 0.00% |
| **J1RZ1-05** | 0.04605 | 0.00418 | 0.11597 | 0.01039 | 0.01826 | 0.00026 | 0.00583 | 0.0001 | 0.75 | 0.52 | 0.01 |  | 198 | 111 | 9 | 117 | 2 | 117 | 2 | -5.13% |
| **J1RZ1-06** | 0.05071 | 0.00177 | 0.14578 | 0.00485 | 0.02085 | 0.00025 | 0.00692 | 0.00019 | 0.9 | 1.67 | 0.02 | 228 | 55 | 138 | 4 | 133 | 2 | 139 | 4 | 3.76% |
| **J1RZ1-07** | 0.04882 | 0.00393 | 0.14515 | 0.01147 | 0.02156 | 0.00036 | 0.00681 | 0.00035 | 0.9 | 1.66 | 0.02 | 139 | 146 | 138 | 10 | 138 | 2 | 137 | 7 | 0.00% |
| **J1RZ1-08** | 0.04827 | 0.00093 | 0.1175 | 0.00209 | 0.01765 | 0.00017 | 0.00553 | 0.00007 | 0.9 | 0.61 | 0.01 | 113 | 24 | 113 | 2 | 113 | 1 | 111 | 1 | 0.00% |
| **J1RZ1-10** | 0.04846 | 0.00609 | 0.12026 | 0.01485 | 0.018 | 0.00044 | 0.00605 | 0.00024 | 0.9 | 0.63 | 0.01 | 122 | 228 | 115 | 13 | 115 | 3 | 122 | 5 | 0.00% |
| **J1RZ1-11** | 0.04816 | 0.00098 | 0.11272 | 0.00211 | 0.01697 | 0.00016 | 0.00537 | 0.00007 | 0.9 | 0.49 | 0.01 | 107 | 27 | 108 | 2 | 108 | 1 | 108 | 1 | 0.00% |
| **J1RZ1-12** | 0.04806 | 0.00105 | 0.11028 | 0.00221 | 0.01664 | 0.00017 | 0.00536 | 0.00008 | 0.9 | 0.59 | 0.01 | 102 | 28 | 106 | 2 | 106 | 1 | 108 | 2 | 0.00% |
| **J1RZ1-13** | 0.0481 | 0.00856 | 0.12661 | 0.02235 | 0.01909 | 0.00046 | 0.00604 | 0.00057 | 0.9 | 1.26 | 0.01 | 104 | 293 | 121 | 20 | 122 | 3 | 122 | 11 | -0.82% |
| **J1RZ1-14**  **J1RZ2-01** | 0.04809  0.04844 | 0.00875  0.0022 | 0.1137  0.1246 | 0.02044  0.0055 | 0.01715  0.01865 | 0.0005  0.00023 | 0.00621  0.00648 | 0.00025  0.00013 | 0.9  0.9 | 0.59  0.84 | 0.01  0.01 | 104  121 | 290  78 | 109  119 | 19  5 | 110  119 | 3  1 | 125  131 | 5  3 | -0.91%  0.00% |
| **J1RZ2-02** | 0.04847 | 0.0019 | 0.12846 | 0.00484 | 0.01922 | 0.00023 | 0.00667 | 0.00016 | 0.9 | 1.17 | 0.01 | 122 | 66 | 123 | 4 | 123 | 1 | 134 | 3 | 0.00% |
| **J1RZ2-03** | 0.04836 | 0.00259 | 0.11966 | 0.00621 | 0.01794 | 0.00026 | 0.00604 | 0.00016 | 0.9 | 0.91 | 0.01 | 117 | 90 | 115 | 6 | 115 | 2 | 122 | 3 | 0.00% |
| **J1RZ2-05** | 0.04877 | 0.00199 | 0.14289 | 0.00561 | 0.02125 | 0.00026 | 0.00644 | 0.00014 | 0.9 | 0.87 | 0.01 | 137 | 69 | 136 | 5 | 136 | 2 | 130 | 3 | 0.00% |
| **J1RZ2-06** | 0.04865 | 0.00172 | 0.13828 | 0.00468 | 0.02061 | 0.00023 | 0.00652 | 0.00015 | 0.9 | 1.23 | 0.01 | 131 | 58 | 132 | 4 | 132 | 1 | 131 | 3 | 0.00% |
| **J1RZ2-07** | 0.04836 | 0.00288 | 0.12197 | 0.00709 | 0.01829 | 0.00025 | 0.00581 | 0.0002 | 0.9 | 1.23 | 0.01 | 117 | 105 | 117 | 6 | 117 | 2 | 117 | 4 | 0.00% |
| **J1RZ2-09** | 0.04849 | 0.00174 | 0.12969 | 0.00447 | 0.01939 | 0.00022 | 0.00592 | 0.0001 | 0.9 | 0.5 | 0.01 | 123 | 60 | 124 | 4 | 124 | 1 | 119 | 2 | 0.00% |
| **J1RZ2-10** | 0.04874 | 0.0025 | 0.12166 | 0.00605 | 0.0181 | 0.00026 | 0.00596 | 0.00013 | 0.9 | 0.64 | 0.01 | 135 | 87 | 117 | 5 | 116 | 2 | 120 | 3 | 0.86% |
| **J1RZ2-11** | 0.05041 | 0.00274 | 0.13581 | 0.0072 | 0.01954 | 0.00025 | 0.00631 | 0.00016 | 0.9 | 0.88 | 0.01 | 214 | 99 | 129 | 6 | 125 | 2 | 127 | 3 | 3.20% |
| **J1RZ2-12** | 0.04854 | 0.00115 | 0.13157 | 0.00289 | 0.01965 | 0.0002 | 0.00631 | 0.0001 | 0.9 | 0.89 | 0.01 | 126 | 33 | 126 | 3 | 125 | 1 | 127 | 2 | 0.80% |
| **J1RZ2-13** | 0.04881 | 0.00276 | 0.13438 | 0.00738 | 0.01997 | 0.00029 | 0.00611 | 0.00015 | 0.9 | 0.63 | 0.01 | 139 | 98 | 128 | 7 | 127 | 2 | 123 | 3 | 0.79% |
| **J1RZ2-14** | 0.04859 | 0.00137 | 0.1367 | 0.00363 | 0.0204 | 0.00022 | 0.00646 | 0.00014 | 0.9 | 1.41 | 0.01 | 128 | 42 | 130 | 3 | 130 | 1 | 130 | 3 | 0.00% |
| **J1RZ2-15**  **J1RZ3-01** | 0.04834  0.04837 | 0.00157  0.00345 | 0.12434  0.12164 | 0.00385  0.00849 | 0.01865  0.01824 | 0.00021  0.00028 | 0.0062  0.00599 | 0.00014  0.00013 | 0.9  0.9 | 1.51  0.51 | 0.02  0.01 | 116  117 | 52  127 | 119  117 | 3  8 | 119  117 | 1  2 | 125  121 | 3  3 | 0.00%  0.00% |
| **J1RZ3-02** | 0.0499 | 0.00625 | 0.1262 | 0.01561 | 0.01834 | 0.00037 | 0.00636 | 0.00025 | 0.9 | 0.79 | 0.01 | 190 | 238 | 121 | 14 | 117 | 2 | 128 | 5 | 3.42% |
| **J1RZ3-03** | 0.0512 | 0.00326 | 0.12666 | 0.00788 | 0.01794 | 0.00026 | 0.00886 | 0.00022 | 0.9 | 1.2 | 0.01 | 250 | 117 | 121 | 7 | 115 | 2 | 178 | 4 | 5.22% |
| **J1RZ3-05** | 0.04859 | 0.00337 | 0.12608 | 0.00855 | 0.01881 | 0.00029 | 0.0059 | 0.00014 | 0.9 | 0.61 | 0.01 | 128 | 123 | 121 | 8 | 120 | 2 | 119 | 3 | 0.83% |
| **J1RZ3-06** | 0.04846 | 0.00671 | 0.14066 | 0.01924 | 0.02105 | 0.00047 | 0.0073 | 0.00037 | 0.9 | 1.01 | 0.01 | 122 | 247 | 134 | 17 | 134 | 3 | 147 | 7 | 0.00% |
| **J1RZ3-08** | 0.0487 | 0.00196 | 0.13191 | 0.00509 | 0.01964 | 0.00025 | 0.0062 | 0.00011 | 0.9 | 0.47 | 0.01 | 133 | 66 | 126 | 5 | 125 | 2 | 125 | 2 | 0.80% |
| **J1RZ3-09** | 0.0481 | 0.00565 | 0.11938 | 0.01381 | 0.01799 | 0.00039 | 0.00602 | 0.00019 | 0.9 | 0.55 | 0.01 | 104 | 215 | 115 | 13 | 115 | 2 | 121 | 4 | 0.00% |
| **J1RZ3-12** | 0.04881 | 0.01102 | 0.13398 | 0.02998 | 0.0199 | 0.00062 | 0.00651 | 0.00038 | 0.9 | 0.65 | 0.01 | 139 | 354 | 128 | 27 | 127 | 4 | 131 | 8 | 0.79% |
| **J1RZ3-13** | 0.04605 | 0.00439 | 0.12361 | 0.01161 | 0.01947 | 0.00032 | 0.00802 | 0.00054 | 0.22 | 0.77 | 0.01 |  | 199 | 118 | 10 | 124 | 2 | 161 | 11 | -4.84% |
| **J1RZ3-14** | 0.04871 | 0.0031 | 0.12115 | 0.00749 | 0.01803 | 0.00029 | 0.00621 | 0.00014 | 0.9 | 0.56 | 0.01 | 134 | 109 | 116 | 7 | 115 | 2 | 125 | 3 | 0.87% |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **异常数据：** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **J1RZ1-01** | 0.04935 | 0.00077 | 0.10502 | 0.00145 | 0.01543 | 0.00014 | 0.00624 | 0.0001 | 0.9 | 3.25 | 0.03 | 164 | 16 | 101 | 1 | 98.7 | 0.9 | 126 | 2 | 2.33% |
| **J1RZ1-09** | 0.05432 | 0.0028 | 0.13813 | 0.00682 | 0.01844 | 0.00029 | 0.00747 | 0.00024 | 0.9 | 1.31 | 0.01 | 384 | 83 | 131 | 6 | 118 | 2 | 150 | 5 | 11.02% |
| **J1RZ2-04** | 0.04859 | 0.00234 | 0.15011 | 0.00702 | 0.0224 | 0.00028 | 0.00674 | 0.00016 | 0.9 | 0.8 | 0.01 | 128 | 84 | 142 | 6 | 143 | 2 | 136 | 3 | -0.70% |
| **J1RZ2-08** | 0.05387 | 0.00247 | 0.12915 | 0.00569 | 0.01738 | 0.00024 | 0.00606 | 0.00014 | 0.9 | 0.78 | 0.01 | 366 | 74 | 123 | 5 | 111 | 2 | 122 | 3 | 10.81% |
| **J1RZ3-04** | 0.04772 | 0.00572 | 0.1016 | 0.01204 | 0.01544 | 0.0003 | 0.00625 | 0.0003 | 0.9 | 1.2 | 0.01 | 85 | 223 | 98 | 11 | 99 | 2 | 126 | 6 | -1.01% |
| **J1RZ3-07** | 0.08647 | 0.00107 | 2.76966 | 0.02878 | 0.23227 | 0.00198 | 0.07238 | 0.00082 | 0.9 | 1.47 | 0.01 | 1349 | 9 | 1347 | 8 | 1346 | 10 | 1412 | 15 | 0.22% |
| **J1RZ3-10** | 0.05561 | 0.00092 | 0.52837 | 0.00784 | 0.06889 | 0.00064 | 0.02202 | 0.00038 | 0.9 | 2.67 | 0.03 | 437 | 17 | 431 | 5 | 429 | 4 | 440 | 8 | 0.47% |
| **J1RZ3-11** | 0.05331 | 0.00429 | 0.13144 | 0.01036 | 0.01788 | 0.00031 | 0.00712 | 0.00022 | 0.9 | 1 | 0.01 | 342 | 148 | 125 | 9 | 114 | 2 | 143 | 4 | 9.65% |