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| Supplementary Table 3. Zircon Hf isotope compositions of the representative Early Cretaceous igneous rocks from the Erlian Basin. |
| Analysis | Age/Ma | 176Yb/177Hf | 176Lu/177Hf | 176Hf/177Hf | 2σ | εHf(t) | 2σ | TDM1/Ma | TDM2/Ma | 2σ | fLu/Hf |
| Sample NM14-19 basic-intermediate volcanic rocks |
| NM19-01 | 128 | 0.141 | 0.0037 | 0.283004 | 0.000053 | 10.71  | 1.89  | 378  | 499  | 82  | -0.89  |
| NM19-02 | 136 | 0.0244 | 0.0007 | 0.282898 | 0.000019 | 7.38  | 0.68  | 498  | 719  | 27  | -0.98  |
| NM19-07 | 135 | 0.045 | 0.0013 | 0.282983 | 0.000031 | 10.33  | 1.11  | 384  | 529  | 45  | -0.96  |
| NM19-14 | 140 | 0.0359 | 0.0009 | 0.282888 | 0.000024 | 7.11  | 0.84  | 514  | 739  | 34  | -0.97  |
| NM19-16 | 130 | 0.0786 | 0.0024 | 0.283089 | 0.000056 | 13.87  | 1.98  | 239  | 297  | 83  | -0.93  |
| NM19-21 | 132 | 0.021 | 0.0005 | 0.282922 | 0.000025 | 8.15  | 0.89  | 462  | 666  | 35  | -0.98  |
| NM19-29 | 133 | 0.0418 | 0.0014 | 0.282986 | 0.000075 | 10.38  | 2.65  | 380  | 524  | 108  | -0.96  |
| Sample NM14-04 intermediate-felsic volcanic rocks |
| NM04-03 | 133 | 0.0366 | 0.0009 | 0.282522 | 0.000022 | -6.02  | 0.77  | 1031  | 1571  | 31  | -0.97  |
| NM04-08 | 133 | 0.0303 | 0.0009 | 0.282465 | 0.000025 | -8.02  | 0.89  | 1109  | 1698  | 35  | -0.97  |
| NM04-09 | 129 | 0.0281 | 0.0009 | 0.282476 | 0.000031 | -7.70  | 1.11  | 1093  | 1675  | 44  | -0.97  |
| NM04-13 | 134 | 0.059 | 0.0015 | 0.282497 | 0.000028 | -6.93  | 0.99  | 1083  | 1630  | 40  | -0.95  |
| NM04-14 | 136 | 0.0543 | 0.0015 | 0.282573 | 0.000027 | -4.18  | 0.95  | 972  | 1456  | 38  | -0.96  |
| NM04-15 | 133 | 0.0429 | 0.0011 | 0.282474 | 0.000022 | -7.71  | 0.76  | 1103  | 1678  | 30  | -0.97  |
| NM04-18 | 134 | 0.0372 | 0.0012 | 0.282597 | 0.000027 | -3.35  | 0.97  | 932  | 1403  | 39  | -0.96  |
| NM04-19 | 125 | 0.0521 | 0.0014 | 0.282381 | 0.000026 | -11.18  | 0.92  | 1242  | 1892  | 37  | -0.96  |
| NM04-20 | 131 | 0.0561 | 0.0014 | 0.282452 | 0.000027 | -8.55  | 0.94  | 1143  | 1730  | 38  | -0.96  |
| NM04-22 | 132 | 0.0441 | 0.0014 | 0.282544 | 0.00003 | -5.28  | 1.06  | 1012  | 1524  | 42  | -0.96  |
| NM04-24 | 135 | 0.0669 | 0.0014 | 0.282191 | 0.000021 | -17.71  | 0.73  | 1511  | 2311  | 29  | -0.96  |
| NM04-25 | 133 | 0.0733 | 0.002 | 0.282566 | 0.000028 | -4.55  | 0.99  | 997  | 1478  | 41  | -0.94  |
| NM04-26 | 130 | 0.0297 | 0.0007 | 0.282708 | 0.00002 | 0.53  | 0.71  | 765  | 1153  | 28  | -0.98  |
| NM04-27 | 131 | 0.0463 | 0.0012 | 0.282572 | 0.000023 | -4.28  | 0.82  | 966  | 1460  | 33  | -0.96  |
| NM04-28 | 130 | 0.0181 | 0.0006 | 0.282556 | 0.000024 | -4.82  | 0.83  | 973  | 1493  | 33  | -0.98  |
| Sample NM14-44 dacite from dike |
| NM44-02 | 129 | 0.039 | 0.0009 | 0.282575 | 0.000025 | -4.21  | 0.88  | 957  | 1453  | 35  | -0.97  |
| NM44-11 | 128 | 0.0382 | 0.0012 | 0.282623 | 0.000061 | -2.55  | 2.16  | 895  | 1347  | 86  | -0.96  |
| NM44-24 | 130 | 0.0706 | 0.002 | 0.282506 | 0.000049 | -6.72  | 1.72  | 1084  | 1613  | 70  | -0.94  |
| NM44-25 | 291 | 0.097 | 0.0033 | 0.283047 | 0.000062 | 15.49  | 2.20  | 309  | 318  | 94  | -0.90  |
| NM44-28 | 293 | 0.0687 | 0.0025 | 0.283036 | 0.000056 | 15.32  | 1.99  | 317  | 330  | 83  | -0.93  |
| NM44-23 | 289 | 0.0901 | 0.003 | 0.283046 | 0.000065 | 15.49  | 2.30  | 307  | 316  | 98  | -0.91  |
| Sample NM16-26 trachyandesite from dike |
| NM26-08 | 135 | 0.0291 | 0.000627 | 0.282609 | 0.000044 | -2.86  | 1.56  | 901  | 1372  | 61  | -0.98  |
| NM26-10 | 131 | 0.02875 | 0.000736 | 0.28256 | 0.000037 | -4.69  | 1.31  | 972  | 1485  | 52  | -0.98  |
| NM26-09 | 133 | 0.04414 | 0.001115 | 0.282526 | 0.000046 | -5.84  | 1.63  | 1030  | 1561  | 65  | -0.97  |
| NM26-13 | 134 | 0.0229 | 0.000458 | 0.282645 | 0.00004 | -1.59  | 1.41  | 847  | 1291  | 56  | -0.99  |
| NM26-14 | 133 | 0.01823 | 0.0003702 | 0.28267 | 0.000037 | -0.72  | 1.31  | 811  | 1234  | 51  | -0.99  |
| NM26-15 | 133 | 0.02662 | 0.000561 | 0.282695 | 0.000039 | 0.15  | 1.38  | 780  | 1179  | 54  | -0.98  |
| NM26-30 | 131 | 0.03147 | 0.0007045 | 0.282727 | 0.000039 | 1.22  | 1.38  | 738  | 1109  | 55  | -0.98  |
| NM26-26 | 132 | 0.0652 | 0.001546 | 0.282666 | 0.000045 | -0.99  | 1.59  | 842  | 1250  | 64  | -0.95  |