Supplementary Table 4 The characteristics of heavy minerals for the Permian sandstones in Xikou, Zhen’an, Shaanxi of the South Qinling belt.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **No.** | **zircon** | **tourmalinite** | **anatase** | **pyrite** | **hematite-**  **limonite** | **magnetite** | **rutile** |
| **sxz-1** | 11.00 | 24.66 | 0.08 | 0.00 | 48.34 | 0.06 | 0.34 |
| **sxz-2** | 51.44 | 25.67 | 0.12 | 9.06 | 1.42 | 0.23 | 1.44 |
| **sx079** | 49.49 | 28.74 | 0.54 | 0.00 | 0.00 | 0.09 | 3.52 |
| **No.** | **leucosphenite** | **others** | **Total** | **ZTR** | **Rzi** | **RuZi** |  |
| **sxz-1** | 7.86 | 7.65 | 99.99 | 36.00 | 3.68 | 3.00 |  |
| **sxz-2** | 7.86 | 6.21 | 103.45 | 78.55 | 2.94 | 2.72 |  |
| **sx079** | 10.26 | 7.36 | 100.00 | 81.75 | 7.58 | 6.64 |  |