Table 2. Compositions of sandstones in the study area

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sample ID | Location | Q–F–L(%) | 　 | Lv–Lm–Ls(%) | Sandstone type |
| Qm | F | Lt | 　 | Lv | Lm | Ls |
| H1 | Shuanglonggou | 69.39  | 8.84  | 21.77  |  | 44.90  | 39.55  | 15.55  | feldspathic litharenite |
| H2 | Tiaozigou | 63.92  | 8.86  | 27.22  |  | 42.60  | 48.42  | 8.98  | feldspathic litharenite |
| H3 | Tiaozigou | 68.10  | 11.66  | 20.25  |  | 57.50  | 29.35  | 13.15  | feldspathic litharenite |
| H4 | Dongqinggou | 57.23  | 7.55  | 35.22  |  | 41.50  | 37.27  | 21.23  | litharenite |
| H5 | Dongqinggou | 66.90  | 7.41  | 25.69  |  | 31.70  | 61.85  | 6.45  | litharenite |
| H6 | Mahuanggou | 59.75  | 8.98  | 31.27  |  | 41.20  | 41.70  | 17.10  | litharenite |
| H7 | Mahuanggou | 59.81  | 9.55  | 30.65  |  | 36.23  | 43.39  | 20.38  | litharenite |
| E1 | Yaoshan | 76.86  | 4.31  | 18.82  | 　 | 39.80  | 50.46  | 9.74  | lithic quartz sandstone |
| E2 | Yaoshan | 75.71  | 4.05  | 20.24  |  | 52.30  | 34.89  | 12.81  | lithic quartz sandstone |
| E3 | Yaoshan | 79.00  | 5.00  | 16.00  |  | 43.20  | 34.35  | 22.45  | lithic quartz sandstone |
| E4 | Yaoshan | 66.32  | 4.56  | 29.12  |  | 45.80  | 32.62  | 21.58  | litharenite |
| E5 | Yaoshan | 64.02  | 5.82  | 30.16  |  | 49.30  | 41.74  | 8.96  | litharenite |
| Note: Qm = quartz; F = feldspar; Lt = total lithics; Lv = lithic volcanic rock; Lm = lithic metamorphic rock; Ls = lithic sedimentary rock |