Table 1. Summary of the major characteristics of the samples

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| Location | Sample ID | Fomation/Member | Lithofacies |
| Hexi Corridor | Corresponding Odors Basin |
| SL Section | H1 | Upper part of NYE Fm | Chang 6 member (top) | Gray-white fine-grained sandstone |
| TZ Section | H2 | Top part of NYE Fm | Chang 3 member (basal part) | Gray-white fine-grained sandstone |
| H3 | Basal part of NYE Fm | Chang 6 member (basal part) | Gray-white medium- to coarse-grained sandstone |
| DQ Section | H4 | Upper part of NYE Fm | Chang 3 member | Grayish green fine-grained sandstone |
| H5 | Middle part of NYE Fm | Chang 4+5 membet  | Dark gray medium- to fine-grained sandstone  |
| MH Section | H6 | Top part of NYE Fm | Chang 2 member | Yellow Medium-Fine-grained weathered sandstone |
| H7 | Upper part of NYE Fm | Chang 3 member (basal part) | Yellow Medium-Fine-grained weathered sandstone |
| YS Section | E1 | Upper part of NYE Fm | Chang 3 member | Gray-white medium-fine-grained sandstones |
| E2 | Upper part of NYE Fm | Chang 3 member | Gray-white medium-fine-grained sandstone  |
| E3 | Basal part of NYE Fm | Chang 6 member (basal part) | Gray-yellow medium-grained sandstone |
| E4 | Basal part of NYE Fm | Chang 6 member (basal part) | Gray-yellow medium-fine-grained sandstone  |
| E5 | Basal part of NYE Fm | Chang 6 member (basal part) | Gray-yellow medium-grained sandstone |