**Supplementary Information Table S3:** Profile Description at JFL2.

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| Unit (Comparison to KAT1) | Depth (m) | Description |
| 1 (S2) | 0-1.8m | Buff to beige silty sand with rare rhizoliths, occasional b=pebbles and quartzite granules and dune bedding (mean direction to 335°). |
| 2 | 1.8-2m | Cobble conglomerate, flat top with undulose base; coarsens upwards, clast frequency increases upwards. |
| 3 | 2-2.2 | Buff sandy silt with small carbonate rhizoliths; moderate pedogenic alteration. |
| 4 | 2.2-2.3 | Pebble conglomerate lenses with pebble stringers. |
| 5 | 2.3-2.9 | Buff sandy silt with small carbonate rhizoliths; moderate pedogenic alteration. |
| 6 | 2.9-3.1 | Clast supported cobble conglomerate with occasional bifacially flaked tools. |
| 7 | 3.1-3.6 | Buff sandy silt with pedogenic alteration and abundant large pedogenic carbonate nodules more common in the upper part. |
| 8 | >3.6 | Ferricrete coated boulders and sandstone basement. |