Table 1.

| Code | Facies | Description | Thickness (t); extent (l) | Wireline-log Attribute | Interpretation |
|---|---|---|---|---|---|
| A | A1 | Parallel-laminated mudstone with occasional siltstone inputs. Monospecific pattern of disorder bivalves parallel to bedding. | t= 30-425 cm l= 6 to 29 km | GR= 41-308 API<br>DT= 225-355 $\mu sm^{-1}$<br>NPHI= 0.17-0.45 v/v<br>RHOB= 2280-2820 $gcm^{-3}$ | Restricted marine shale |
| | A2 | Interbedded claystone and very fine-grained sandstone; non-parallel and wavy lamination. Scarcely bivalve shells oriented parallel to bedding. | t= 10-725 cm<br>l= 8 km to 13 km | GR= 71-65 API<br>DT= 189-268 $\mu sm^{-1}$<br>NPHI=?<br>RHOB= 2280-2820 $gcm^{-3}$ | Muddy Shallow bay-fill |
| | A3 | Fine to medium grained sandstone; moderately to well sorted grains. Wavy bedding, cross bedding, rare wave ripples | t= 60-370 cm<br>l <8 km | GR= 18-46 API<br>DT= 199-314 $\mu sm^{-1}$<br>NPHI= 0.07-0.52 v/v<br>RHOB= 1690-2745 $gcm^{-3}$ | Sandy shallow bay-fill |
| | A4 | Coarse to fine-grained sandstones with alternating upward fining to coarsening trend. Moderately sorted grains. Sparse sedimentary structures. | t= 250-500 cm<br>l= 1.8 km to 4.2 km | GR= 7-35 API<br>DT= 175-230 $\mu sm^{-1}$<br>NPHI= 0.038-0.146 v/v<br>RHOB= 2280-2820 $gcm^{-3}$ | Marine channel-fill sandstones |
| B | B1 | Upward-coarsening siltstone to fine-grained moderate sorted sandstones, with shell debris, and quartz granules. | t= 30-480 cm<br>l = <2 km | GR= 18-80 API<br>DT= 168-291 $\mu sm^{-1}$<br>NPHI= 0.038-0.191 v/v<br>RHOB= 2322-2723 $gcm^{-3}$ | Distal lower shoreface |
| | B2 | Very fine-fine grained, moderate to well sorted sandstone. Fine grained carbonaceous laminae, typically low angle cross beds. | t= 130-440 cm<br>l = 1.7 km – 8 km | GR= 20-56 API<br>DT= 179-277 $\mu sm^{-1}$<br>NPHI= 0.048-0.168 v/v<br>RHOB= 2314-2696 $gcm^{-3}$ | Proximal lower shoreface |
| | B3 | Coarsening upward, cross laminated, fine to medium grained, well sorted sandstone; consist carbonaceous fragments | t= 425-800 cm<br>l = 1.7 km – 8 km | GR= 15-25 API<br>DT= 250-275 $\mu sm^{-1}$<br>NPHI= 0.09-0.113 v/v<br>RHOB= 2271-2342 $gcm^{-3}$ | Upper Shoreface |
| C | C1 | Highly bioturbated siltstone to very fine sandstones, which has beds of rounded granules | t= 175-1010 cm<br>l = 7.2 km – 19.6 km | GR= 20-80 API<br>DT= 230-260 $\mu sm^{-1}$<br>NPHI= 0.08-0.169 v/v<br>RHOB= 2327-2521 $gcm^{-3}$ | Distal mouth bar |
| | C2 | Very fine to fine grained sandstones; low angle cross-bedding. | t= 290-775 cm<br>l = < 5 km | GR= 12-58 API<br>DT= 167-397 $\mu sm^{-1}$<br>NPHI= 0.05-0.595 v/v<br>RHOB= 1612-2705 $gcm^{-3}$ | Proximal mouth bar |
| D | D1 | Fining upward coarse to fine grained sandstone; stacked fining upward beds with rare coarse grained stringers. | t= 740-820 cm<br>l = < 2 km | GR= 8-134 API<br>DT= 235-335 $\mu sm^{-1}$<br>NPHI= 0.14-0.460 v/v<br>RHOB= 2284-2570 $gcm^{-3}$ | Tidally influenced fluvial channel fill sandstone |
| | D2 | Fining upward coarse to medium grained sandstone. Carbonaceous laminae and fragments. Sharp, and cohesive contact at bed base | t= 580 cm<br>l = < 2 km | GR= 9-34 API<br>DT= 241-297 $\mu sm^{-1}$<br>NPHI= 0.14-0.289 v/v<br>RHOB= 2168-2447 $gcm^{-3}$ | fluvial channel fill sandstone |
| E | E1 | Coal and carbonaceous shale. Basal contact, typically parallel. | t= 30-520 cm<br>l= 6 km to 19.6 km | GR= 8-56 API<br>DT= 313-427 $\mu sm^{-1}$<br>NPHI= 0.24-0.529 v/v<br>RHOB= 1930-2225 $gcm^{-3}$ | coal |
| | E2 | Alternating dark grey mud/claystone and siltstone to very fine-grained sandstone. Wavy to non-parallel lamination. | t= 60 cm<br>l = < 2 km | GR= 32-60 API<br>DT= 358-415 $\mu sm^{-1}$<br>NPHI= 0.43-0.49 v/v<br>RHOB= 1994-2148 $gcm^{-3}$ | Coastal plain fines |