**Delta Database**

**Outcrops location:** Utah, USA

**Age:** Upper Cretaceous, Campanian

**Stratigraphy:** Panther Tongue Member

**Star Point Formation**

**Mesaverde Group**

**Delta (outcrop) thickness:** 35 m (maximum)

**Delta (outcrop) extend:** 30 km W-E (strike) 50 km N-S (dip)

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**Panther Tongue Delta**

**Paleogeography**

**Delta Type**

**Processes:** Fluvial - dominated (hyperpycnal)

Wave - minimal

Tidal - no

**Shelf Location:** Inner Shelf

**Shoreline**

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**Typical vertical profile**

- **Ravinement (depositional environment):**
  - Coarse-grained deposits: Coarse-grained to very coarse grained red sandstone
  - Terminal distributary channel: Meter-thick medium-grained sandstone bed with amalgamation of 3-4 m deep incisions
  - Mouth bar: Meter-thick medium-grained sandstone beds low degree amalgamation
  - Proximal delta front: Alternation of 20 cm - 1 m-thick sandstone with 10 - 20 cm-thick mudstone
  - Distal delta front: Centimeter-thick fine- to medium-grained sandstone beds alternating with centimeter to meter-thick mudstone

**Delta architecture**

**Dip oriented section:**
Delta front sandstone beds are dipping at about 3 degrees in the proximal part and decrease to less than one degree in hundreds of meters.

**Strike oriented section:**
Delta front sandstone beds are laterally continuous for hundreds of meters to kms. Locally the beds are amalgamated.

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**Grain size variability**

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**References**