North Dakota Geological Survey
Geological Investigations No. 225 - Plate I

Stratigraphic Cross-Section of the Three Forks Formation

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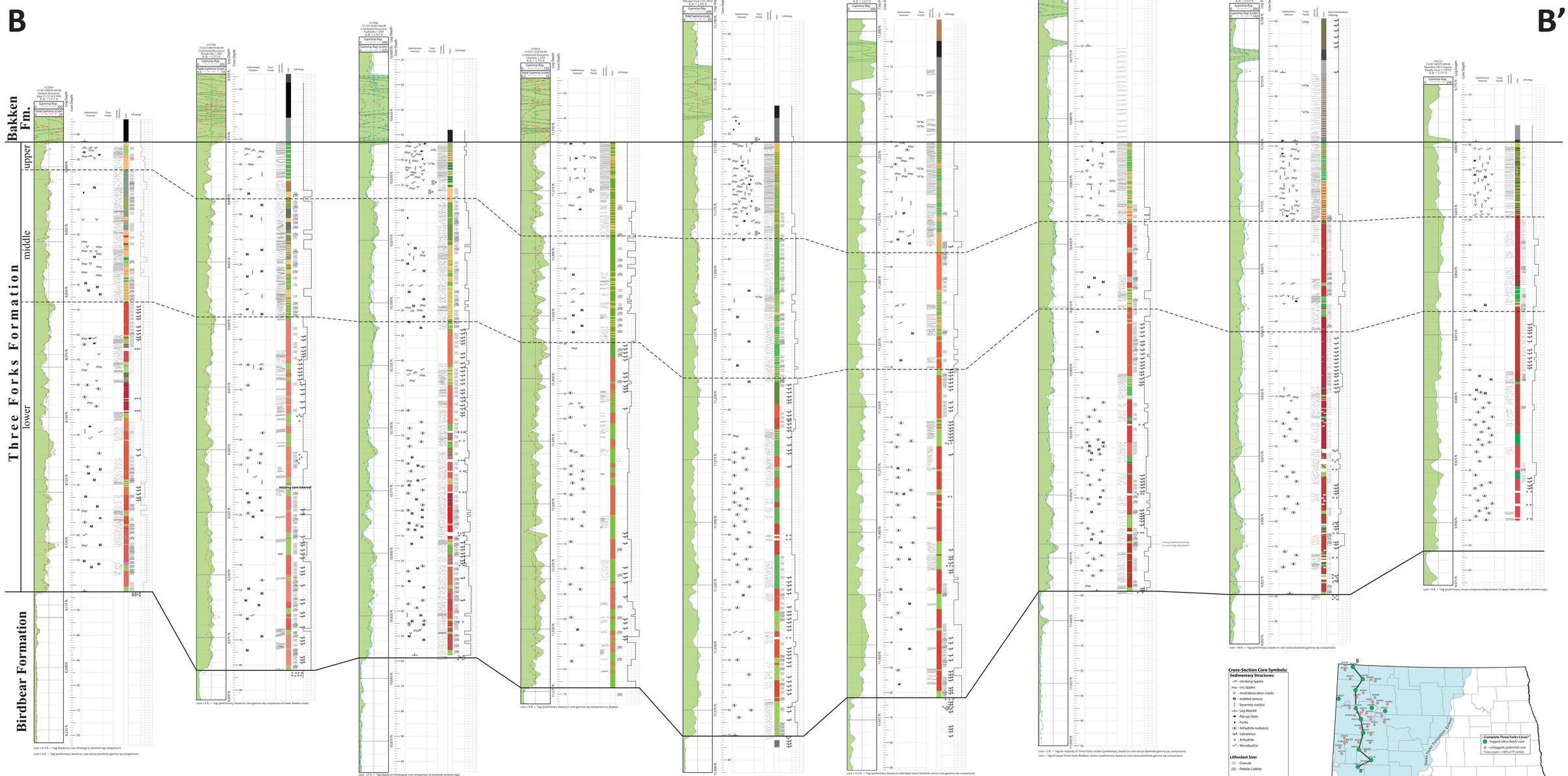

Cross-Section Core Symbols:

Sedimentary Structures:

- climbing ripples
- osc ripples
- mud/dessication cracks
- M - mottled texture
- Syneresis crack(s)
- Lag deposit
- Rip-up clasts
- Pyrite
- Anhydrite nodule(s)
- Calcareous
- Anhydrite
- Microfault(s)

Lithoclast Size:

- Granule
- Pebble-Cobble

Ichnology:

- Skolithos
- Fodinichnia
- *Pb - unidentified burrowing

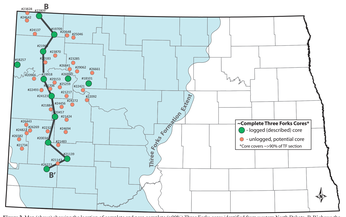

Figure 1. Stratigraphic cross-section of the Three Forks Formation with gamma-ray wireline logs and core illustrations. Core logging was completed by Francis. C. Nwachukwu under the advisement of Dr. Stephen H. Nordeng and Timothy O. Nesheim. Gamma-ray wireline logs displayed above were submitted by the original operator while the Total Gamma (core) wireline logs were generated at the Wilson M. Laird Core and Sample Library.

Figure 2. Map (above) showing the location of complete and near-complete (~90%) Three Forks cores identified from western North Dakota. B-B' shows the locations of the Plate I cross-section.