

FORCE 2023 Analogs for the Jurassic Brent Group

Sedimentology and Stratigraphy Deltas Transgressive Shorefaces Mouthbars
Stacked Parasequences Tidal Channels Analogues for the Brent Group

Location/Accommodation: The field trip begins and ends in Durango, Colorado with several stops in the San Juan Basin in New Mexico, USA. The accommodation will be in Farmington.



Geology: This 5-day field course is designed with a mixed audience of managers, engineers, geologists, and geophysicists in mind. The purpose of this course is to provide participants with the best analog for the Jurassic Brent delta as possible. In addition to the Tarbert, Ness, Etive, and Rannoch, we will also be looking at analogs for the Oseberg Formation. Our aim is for you to be able to tie well-log data and seismic data with these world-class outcrops.

Unlike most field-trips taken by Norwegians into the Book Cliffs of Utah, this entire field trip runs in the San Juan Basin of New Mexico and Colorado and the sandstones you will see are producing reservoirs in the sub-surface.

Who Should Attend: Geologists/geoscientists, geophysicists, seismic interpreters, petrophysicists, engineers.

Number of participants: (minimum 8, maximum 15).

Duration: The field trip is scheduled for June 19-23, 2023. Arrival Sunday 18th of June at Durango Airport in Colorado. Departure Friday 23rd of June from Durango Airport.

Day1: Shallow-marine clastic sequence stratigraphy. Mancos Canyon: Transgressive-regressive cycles.

Day2: Facies partitioning, preservation, sea-level stands. Mesa Verde National Park: shoreface/tidal couples on seismic scale. Sinuous coastal plain channels (Ness and Sleipner analogs).

Day3: Net-transgressive shorelines and parasequences developed during transgression. Chaco Canyon National Historic Park: stacked transgressive shorefaces, tidal channels and back-barrier lagoons as analogs of Tarbert.

Day4: Paralic depositional environments/regressive settings with emphasis on shorefaces. In field examples of wave-dominated shoreface parasequences, delta front deposits, core study and interpretation (Rannoch, Etive & Oseberg).

Day5: Terminal distributary mouth-bar & departure.

Budget: NOK 27500/person if 15 participants; increased cost if less participants.

Field Leader: Ali Jaffri, Ph.D., CEO, Applied Stratigraphix.

Other: Airfare (~NOK 12000) to be covered by traveler (estimated costs in brackets). All other costs are covered by the field trip fee. Recommendation and pricing regarding booking of plane-ticket will be given as soon as the field trip is firm.

Questions regarding the trip: anders.finstad@concedo.no/carol.baunack@harbourenergy.com

How to sign up: <https://www.npd.no/en/force/events/usa-field-trip---analogs-for-the-jurassic-brent-group/>



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"This trip gave us the opportunity to observe large scale transgressive and regressive cycles preserved in the geological record at seismic scale for real." *Carol Baunack, attended trip in 2019*

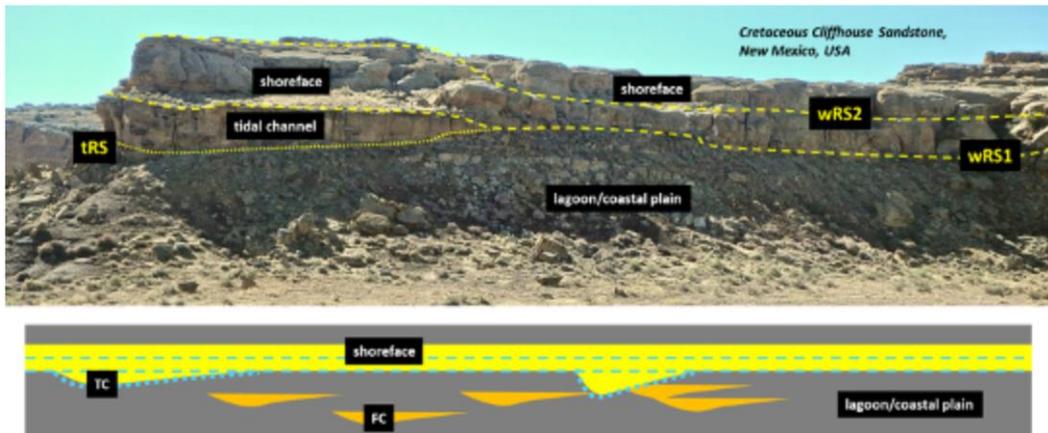
"One locality was like time travel. Standing on an organic-rich lagoonal mud with dinosaur remains all around (Gibson Coal Member), we could see the ancient Hosta Tongue barrier islands right in front of us, with the Mancos Shales further out representing the Cretaceous Seaway that eventually drowned it all." *Anders Gunnar Finstad, attended trip in 2019*



Coastal plain channels and coal at the base and the transgressive barrier-island shoreface of the Cretaceous Hosta Sandstone on top



Classic textbook examples of regressive wave-dominated parasequences as analogs of the Rannoch in New Mexico



Transgressive stratigraphy with shoreface-tidal couplets serve as fantastic analogs for the Tarbert

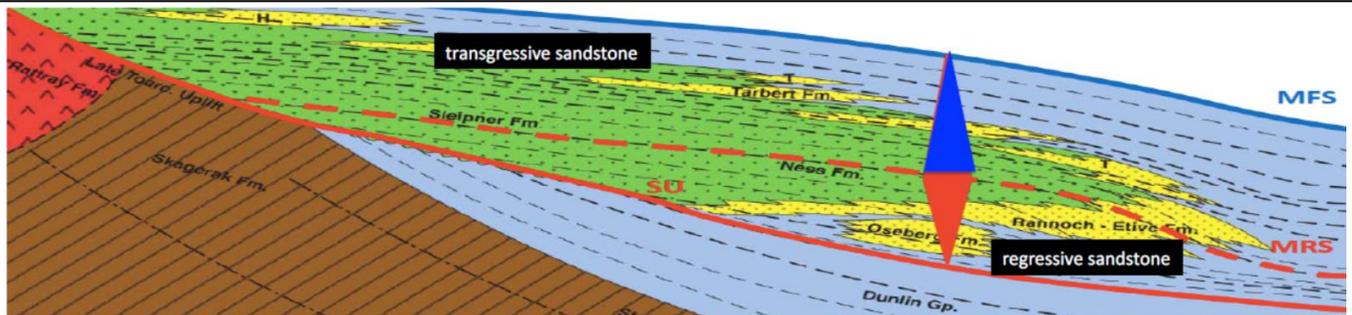


Figure from Loseth et al., 2009 compared with the stratal architecture in the Mancos Canyon, Colorado