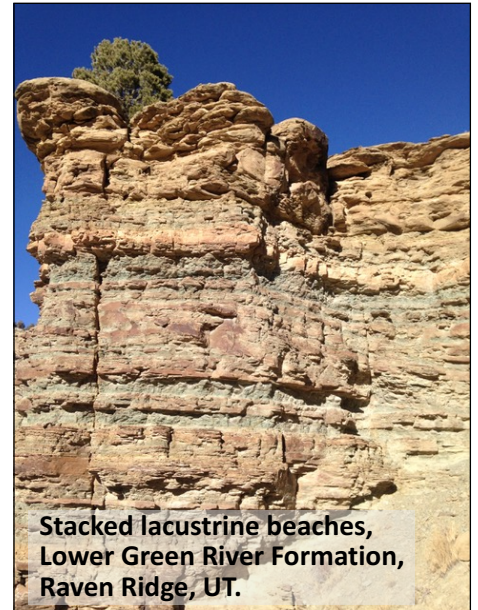

POST-MEETING FIELD TRIP #6

THE GREEN RIVER FORMATION OF THE UINTA BASIN: LACUSTRINE SEDIMENTATION AND HYDROCARBON POTENTIAL

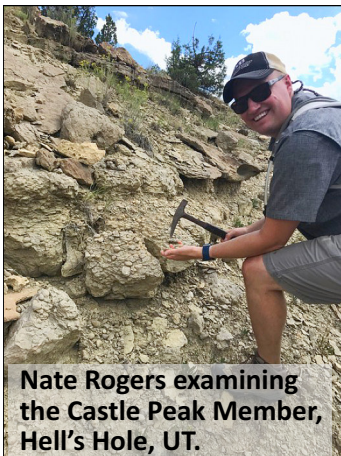
DATES: September 16-17th (1 ½ days).

LEADERS: *Riley Brinkerhoff*, Wasatch Energy Management, rbrinkerhoff@wemenergy.com
Michael Vanden Berg, Utah Geological Survey, michaelvandenber@utah.gov

DESCRIPTION: The goal of this field trip is twofold: (1) to provide geologists and engineers a deeper understanding of the Green River Petroleum System in the Uinta Basin, and (2) expose them to reservoir and stratigraphic characteristics of lacustrine, deltaic and fluvial deposits within the Green River Formation. We will discuss Lake Uinta's structural setting and how the basin's structure and climatic setting influenced the sediments deposited within the lake. We will discuss the different plays within the Uinta Basin and how they are controlled by GRF stratigraphy and maturity. This trip is for anyone wishing to deepen their understanding of lacustrine sedimentation, factors controlling production from lacustrine rocks and the Uinta Basin in general.



Stacked lacustrine beaches, Lower Green River Formation, Raven Ridge, UT.



Nate Rogers examining the Castle Peak Member, Hell's Hole, UT.

ITINERARY:

Wednesday, September 16th: Leave Two Rivers Convention Center after conference ends (around 1 p.m.) and drive north to Raven Ridge in the Uinta Basin. We will make four outcrop stops examining Lake Uinta evolution and marginal lake deposits. Our last stop is a 20 minute drive to our hotel in Vernal, UT. We will enjoy a group dinner that evening.

Thursday, September 17th: Load up and leave by 7:30 a.m. to drive southeastwards examining multiple units and facies including:

- White Face Butte (Wasatch, Uteland Butte, Castle Peak, Long Point Bed and Black Shale Stratigraphy).
- Texas Creek (Microbialite shoals, Douglas Creek clastic stratigraphy).
- Three Mile Canyon (Distributary mouth bars, microbialite colonialization, oil seeps, Mahogany oil shale, Dragon gilsonite vein).
- Condo Section of Evacuation Creek (Parachute Creek Mbr. deltaics).
- Mahogany box cut (oil shale deposition and microstructures).
- Rotated slump block (cyclic saline lake/rapid clastic deposition, seismites and detached blocks).
- Evacuation Creek Bridge (Closing of the lake, Bird's Nest deposition).
- White River Bridge (Uinta Formation progradation and growth faults).
- Bonanza (gilsonite veins).

We will arrive back in Grand Junction at the Two River Convention Center around 7pm.

PARTICIPANT LIMIT and COST: TBA



Ostracod shoals, Uteland Butte Member, Green River Formation, Hell's Hole, UT.