



Wyoming Geologic Association

2019 ½ Field Trip and Social Hour Frontier Formation West of Casper July 12, 2019

Leader: Melanie Peterson, Geologist/Principle of Willow Branch Resources, LLC

This will be an informal 1/2 field trip that will explore several Frontier outcrops west of Casper, Wy. We will be examining the stratigraphic architecture of several Frontier benches and postulate on the possibility that some Frontier parasequences involve localized estuarine deposition rather than the Frontier as a whole being restricted to only deltaic depositional influence. Vary often estuarine sequences are misinterpreted or unrecognized and as a result lumped with deltaic sequences. The outcrops being viewed display potential evidence that estuarine sequences can be interpreted. There will also be an examination of an estuarine sequence identified using logs within the subsurface of Powder River Basin.

Attendees will meet at noon on July 12th within upper deck of the Grunner Brother's Brewery parking lot in Casper, Wy for the field trip. Attendees must be prepared and dressed for hiking in uneven terrain and potentially hot summer weather conditions. We will kick off the field trip with a brief overview and safety discussion at the meeting location and then attendees will load into provided transportation vehicles and be driven to outcrops for viewing and continued discussion of Frontier packages. Water and snacks will be provided. Please eat lunch prior to the field trip.

At the end of the day attendees will be transported back to the Grunner Brother's parking lot and are welcome to engage in a social hour that involves drinks and appetizers.

Helpful Materials:

- Camera
- Notebook/pen
- Sturdy closed toe shoe/boots
- Sun protection (hat, sunscreen, etc)
- Long pants/sleeve shirts

- Water bottle
- Bug spray

Meeting time: 12:00 pm

Meeting location: **Gruner Brothers Brewery. Please park in the upper parking lot as far from the building as possible (NE corner)**

