

GRAND JUNCTION GEOLOGICAL SOCIETY

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JANUARY MEETING

WEDNESDAY, JANUARY 26, 2022

Joint meeting with the CMU Geology Students

7:30 PM

Sacomanno Lecture Hall

(Room 131 in the Wubben-Science Building)

Dr. Javier Tellez

Dept. of Physical and Environmental Sciences

Colorado Mesa University

Will Speak On

**“UAS-Based Photogrammetry for Facies Architecture
and Fluvial Sequence Stratigraphic Definition of the
Burro Canyon Formation, Piceance Basin, Colorado”**

Guests Are Always Welcome

Abstract on Next Page

**The meeting will also be conducted by Zoom. The Zoom
invitation is on the page following the abstract.**

**UAS-Based Photogrammetry for Facies Architecture and Fluvial
Sequence Stratigraphic Definition of the Burro Canyon Formation,
Piceance Basin, Colorado**

**Dr. Javier Tellez
Dept. of Physical and Environmental Sciences
Colorado Mesa University**

The Lower Cretaceous Burro Canyon Formation in the southwestern Piceance Basin, Colorado, is composed of deposits that represent a braided fluvial system with high net-to-gross that transitions stratigraphically upward into a low net-to-gross, low-sinuosity meandering fluvial system. I used well-exposed outcrops, detailed measured sections, and UAS-based imagery to describe the fluvial architecture of the late Cretaceous formation using a hierarchical approach. We described the Burro Canyon Formation as comprised of sandstone-rich amalgamated channel complexes overlain by non- to semi-amalgamated channel complexes. The characteristics and spatial distribution of architectural elements of the Burro Canyon Formation correspond to one depositional sequence. The erosional basal surface of the formation, as well as lateral changes in thickness and net-to-gross, suggest that the Burro Canyon Formation within this study area was deposited within multiple incised-valley fills. The study of fluvial deposits such as the Burro Canyon Formation serves as outcrop analogs for subsurface interpretation, modeling, and prospection of similar reservoirs.

January 26, 2022 GJGS meeting at 7:30 pm in Saccamanno Lecture Hall (Wubben Science 141)

Andres Aslan is inviting you to a scheduled Zoom meeting.

Topic: January GJGS meeting

Time: Jan 26, 2022 07:00 PM Mountain Time (US and Canada)

Join Zoom Meeting

<https://coloradomesa.zoom.us/j/92178149725?pwd=TVpCeG8xMnk4bGVBUINwb0VkeEJrQT09>

Meeting ID: 921 7814 9725

Passcode: 056246

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