Application of UAV-based Photogrammetry for Outcrop Characterization of Fluvial Deposits of the Burro Canyon Formation, Piceance Basin, Colorado

Javier Tellez¹ and Matthew Pranter¹

Abstract

The talk focuses on the use of UAV (Unmanned Aerial Vehicles) in mapping geological features and the construction of three-dimensional outcrops from aerial photographs using photogrammetry methods. The resulting three-dimensional models are used to measure sandstone-body dimensions, proportions, and orientations. Output data generated from this approach is used in the construction of three-dimensional reservoir models.

¹University of Oklahoma