

TYSON BERNDT

Education

MS – Geology, The University of Kansas, 2015
BS – Earth Science, Montana State University, 2011



Specialty Certifications

IADC RigPass Certification

Professional Affiliations

American Association of Petroleum Geologists
Geological Society of America

Professional Experience

Tyson Berndt is a Geologist with experience in the energy sector, including planning, managing, and implementing hundreds of horizontal drilling and development projects in both oil and natural gas shale plays across Texas and Pennsylvania. Additional experience includes exploration geology, assessing conventional and unconventional plays in Pennsylvania, Texas, and Wyoming. In his role as Senior Project Manager at SCS, he is working with the deep-well injection and carbon sequestration team to plan and implement multiple UIC projects across the United States.

Project Experience

Geoscience

Development Geologist. Responsible for pre-drill subsurface interpretation, optimal wellbore spacing/layout, horizontal well planning and execution, post-drill analysis, and pre-completions planning in the Eagle Ford and Marcellus shales.

Exploration Geologist. Evaluated conventional and unconventional reservoirs in sand, shale, and carbonate systems across south Texas; reviewed depositional trends and reservoir characteristics in the Mowry shale, Powder River Basin, Wyoming.

Operations Geologist. Planned and implemented horizontal drilling and geo-steering operations for up to 7 drilling rigs, with over 200+ wells drilled in the Eagle Ford and Marcellus shales; evaluated H₂S risk and shallow over-pressure gas occurrence for the Eagle Ford drilling team; assessed and streamlined horizontal drilling practices for the South Texas Business Unit.

Project Management

Field Development Planning Team Lead (Eagle Ford Shale, TX and Marcellus Shale, PA). Managed multidisciplinary teams (10-20 persons) responsible for optimizing horizontal well development for multi-rig drilling programs in liquid and gas plays; assisted with enhanced oil recovery (EOR) pilot project, micro-seismic acquisition, and subsurface fluid migration testing.

Subsurface Technical Assessment Team (Marcellus Shale, PA). Investigated and analyzed casing integrity and casing cement variables and how they related to fluid migration in shallow subsurface environments; assisted with migration pathway and hazard assessment as well as property owner relations.

Wedge Production Team (Eagle Ford Shale, TX). Led a multidisciplinary team (15+ persons) with the task of optimizing wedge production for the Eagle Ford Shale horizontal drilling program; evaluated vertical wellbore separation, well to well communication, completion variables, and flowback strategy, resulting in a 10% increase in liquids volume by end of project.