

Dylan Rose-Coss
Geologist, Glorieta Geoscience Inc.

EXPERIENCE SUMMARY

- Geologic and petrophysical modeling for carbon sequestration and storage
- Core description and facies analysis
- Wire-line log analysis and interpretation
- Gravity and seismic data analysis
- Larger point source Air Quality reports inspection and compliance
- Application of ArcGIS to geologic analysis
- Private well water assessment for nitrate contamination
- Multi-format presentation of research and technical reports; narrow to broad audiences
- Field work in Geological, Geophysical and surface water systems

Previous Work Experience

Southwest Partnership for Carbon Sequestration (2014 – 2017):

- Lead characterization geologist on DOE-funded carbon sequestration project
- Utilized wire-line logs to map depositional and structural trends within field site
- Interpreted 780 ft of core and 150 associated thin sections through sandstone, mudstone and limestone lithologies
- Correlated core measurements with advanced petrophysical analysis
- Created a petrophysical model of field used in modeling carbon storage permanence

Instructor at New Mexico Institute of Mining and Technology (Summer 2016):

- Instructed petroleum geology course
- Prepared syllabus, readings and assignments
- Lectured and guided field trips
- Created and graded exams

Noble Energy International New Ventures Intern (Summer 2015)

- Team member in a group evaluating reservoir presence in offshore west Africa
- Synthesized large data sets of wire-line logs, core, gravity and seismic data
- Created depositional and structural maps to assess reservoir type, presence and quality

New Mexico Environment Department Intern (Summer 2013)

- Air Quality reports and enforcement division
- Reviewed compliance reports for large point source permits
- Assisted in power plant compliance inspections

New Mexico Environment Department Intern (Summer 2005)

- Solid Waste Division
- Water quality reconnaissance and evaluation, Chimayo New Mexico
- Collected water samples from private wells and evaluated for nitrate concentrations
- Assisted in septic tank inspections



EDUCATION

M.S. Geology, New Mexico Institute of Mining and Technology 2014-2017

B.S. Earth and Environmental Science, University of New Mexico, 2011-2012

B.S. Environmental Science, University of New Mexico, 2004-2008

PROFESSIONAL DEVELOPMENT AND TRAINING

- IHS Petra software basics
- Stanford online course "Reservoir Geomechanics"
- Fracture studies LLC short course on interpreting fractures in core
- Schlumberger software "Petrel Geology"
- AAPG's petroleum exploration competition the "Imperial Barrel Awards"
- SPE's student paper competition state champion and regional competitor

SKILLS

- Core description
- Wire-line log analysis
- Subsurface mapping
- Water and soil sampling
- Mineral and rock identification
- Water and wastewater chemistry
- Field mapping
- ArcGIS, Word, Excel, PowerPoint, and Adobe Illustrator

SELECTED PUBLICATIONS

Rose-Coss, D. Trujillo, N. Mozley, P. Heath, J. Cather, 2016, M. Mudstone Facies, Diagenesis, and Sequence Stratigraphic Interpretation for Caprock Integrity Assessment of the Upper Morrow Shale and Atokan Thirteen Finger Limestone, Farnsworth Unit, Texas. Presented at SEPM/AAPG Research Conference "Mudstone Diagenesis" Santa Fe, New Mexico, USA, 16-19 October 2016

Rose-Coss, D. Ampomah, W. Cather, M. Balch, R.S. Mozley, P. Rasmussen, L. 2016, An Improved Approach for Sandstone Reservoir Characterization. Paper SPE-180375-MS presented at the SPE Western Regional Meeting, Anchorage, Alaska, USA, 23-26 May 2016.

Rose-Coss, D. Ampomah, W. Hutton, A. Gragg, E. Mozley, P. Balch, B. Grigg, R., 2015, Geologic Characterization for CO₂-EOR Simulation: A Case Study of the Farnsworth Unit, Anadarko Basin, Texas. Oral presentation #80484 AAPG annual conference Denver 2015.

Ampomah, W., Balch, R., Cather, M., **Rose-Coss, D.**, Dai, Z., Heath, J., Dewers, T., Mozley, P., 2016, Evaluation of CO₂ Storage Mechanisms in CO₂ Enhanced Oil Recovery Sites: Application to Morrow Sandstone Reservoir. Energy & Fuels 2016 v. 30, p. 8545-8555.

Ampomah, W., Balch, R.S., **Rose-Coss, D.**, Hutton, A., and Will, R., 2016b, An Integrated Approach for Characterizing a Sandstone Reservoir in the Anadarko Basin: paper OTC-26952-MS presented at Offshore Technology Conference held in Houston-Texas USA, May 2-5.

