

Ryan L. O'Connell

Address:

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Objective: To obtain a position that will effectively utilize my industry experience and strong educational background to advance a career in the geologic exploration of energy resources.

Education:

2006 – Present, M.S. in Geology, West Virginia University

Thesis Title: *Depositional Models of the Middle Pennsylvanian Kanawha Formation in Gilmer County, West Virginia*

Cum laude graduate, GPA: 3.50 / 4.00

2002 – 2006, B.S. in Geology, Indiana University of Pennsylvania

Senior Thesis Title: *Surface Exposure Dating by Nitrate Accumulation in Soils from Beacon Valley, Antarctica*

Work Experience:

2008 - 2009, Geology Internship, Dominion Exploration and Production, Inc. (DEPI)

Responsible for a regional project involving Western Pennsylvania, objectives were:

- Using GeoGraphix, correlated major sand units across study area using sequence stratigraphic boundaries
- Using ZoneManager, mapped sand trends with sand and pay for major sand units
- Detailed outcrops near Penn State University to help correlate chrono- and litho-stratigraphic units in the subsurface
- Developed simple depositional models using a sequence stratigraphic approach

Development Geology:

- Evaluating major sand units using log analysis software (PRIZM and ZoneManager) for petrophysical characteristics
- Constructed petrophysical maps using the calculated data from user-defined equations to identify drillable locations
- Provided supervisor with recommendations on future drilling locations

Responsible for maintaining location database of competing companies targeting the Marcellus Shale within the basin to help the company strategize over future drilling locations

Mentors: Roy Lynch, Patrick McBride, Phillip Morath, and Edward Frame

2007, Geology Internship, Petroleum Development Corporation (PDC)

Responsible for a project involving the Piceance Basin with responsibilities including:

- Developing and building cross-sections of the basin
- Analyzing and interpreting cross-sections searching for natural gas reserves

Mentor: Bob Williamson

2005 – 2006, Student Researcher, Indiana University of Pennsylvania

Responsible for researching and data collection on senior thesis project, which will be published through the adviser

Adviser: Dr. Michael Poage

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Field Experience:

2008 – Outcrop Work

- Studied outcrops near Penn State University for the purpose of correlating rock units at the surface to their chrono- and litho-stratigraphic equivalents
- Data used to conjunction of a project to correlate subsurface units through sequence stratigraphy

2007 – Field Camp

- Run through West Virginia University
- Created detailed maps for portions of the Black Hills, SD and Block Mountain, MT
- Applied skills and techniques learned in the classroom for problem solving situations

2005 – Geology of the Southwestern United States

- Run through Indiana University of Pennsylvania
- First time exploring geology outside of the classroom on a regional scale

Major Related (Graduate and Undergraduate) Coursework:

Aqueous Geochemistry, Basin Analysis, Environmental Geology, Field Camp, Field Geology, Formation Evaluation, Geochemistry, Geology of the Southwestern United States, Historical Geology, Hydrogeology, Igneous & Metamorphic Petrology, Log Analysis, Mineralogy, Paleoecology, Paleontology, Petroleum Geology, Physical Geology, Plate Tectonics, Quantitative Methods in Geoscience, Sedimentary Petrology, Spatial Analysis, Stratigraphy, Stratigraphy of Porous Media, and Structural Geology

Awards:

2006 - Indiana University of Pennsylvania, Geoscience Department

Best Research Award for Undergraduate Thesis, Geoscience Day, April 28, 2006

Senior Thesis Title: *Surface Exposure Dating by Nitrate Accumulation in Soils from Beacon Valley, Antarctica*

Professional Memberships:

2003 – Present, Pittsburgh Geological Society

2006 – Present, Geological Society of America

2006 – Present, American Association of Petroleum Geologists

Computer Skills:

GeoGraphix Suite , Petra, Adobe Acrobat 7.0 Professional, Adobe Photoshop 7.0, ArcGIS 9.3, Microsoft Office 2003 & 2007 Suites, Microsoft Windows Operating Software (Any Version), various programming environments (i.e., C++, C, Java, etc.)

Volunteer Work:

2007 – 2008, Head Teaching Assistant, West Virginia University

2007 – 2008, Tutor, West Virginia University

2005 – 2006, Geoscience Club, President, Indiana University of Pennsylvania

2005 – 2006, Tutoring for freshmen level geology courses, Indiana University of Pennsylvania

2004 – 2005, Geoscience Club, Secretary, Indiana University of Pennsylvania

References: References are available upon request.