

SAN MATEO - EXHIBIT AD

“NED” EDMUND LOCKE FROST III

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SUMMARY: My professional experience is broadly centered in stratigraphy and structural geology with a strong emphasis on both rock-based (outcrop, core, thin section) and subsurface characterization (well log and seismic analysis, and geomodeling). I have worked on a broad array of industry-applied technical service and technical development projects in both conventional and unconventional systems around the world.

EMPLOYMENT AND EXPERIENCE:

- 2014– SENIOR VICE PRESIDENT–Geosciences. Matador Resources Company, Dallas, TX.
- 2011– 2014 RESEARCH ASSOCIATE, State of Texas Advanced Resource Recovery (STARR) Group. Bureau of Economic Geology, Jackson School of Geosciences, The University of Texas at Austin, Austin, TX.
- 2007–2011 SENIOR GEOLOGIST, Reservoir Quality Prediction Team, Basin and Sedimentary Systems Group. ConocoPhillips Subsurface Technology Company, Houston, TX.
- 2005 GEOLOGY INTERN, Integrated Carbonate Reservoir Research Team. ExxonMobil Upstream Research Company, Houston, TX.
- 2003–2007 GRADUATE RESEARCH ASSISTANT, Reservoir Characterization Research Lab (RCRL). Bureau of Economic Geology, Jackson School of Geosciences, The University of Texas at Austin, Austin, TX.
- 2002–2003 TEACHING ASSISTANT, Department of Geological Sciences. Jackson School of Geosciences, The University of Texas at Austin, Austin, TX.
- 2001–2002 LAND SURVEYOR, Geosurv Land Surveying, Lafayette, CO.

EXTERNAL CONSULTING:

- 2016 Nautilus–Advanced Concepts in Carbonate Stratigraphy (New Course)
- 2014 ExxonMobil–Developed and led workshop on “analogues for deformation and diagenesis in the giant Kashagan field”
- 2013–2014 Nautilus–Field school leader M-091 “Carbonate Reservoir Architecture & Applied Carbonate Sequence Stratigraphy”. New “advanced carbonate” course development.
- 2012 ConocoPhillips. Lisburne structural and geomechanical characterization.

EDUCATION:

- 2007 PH.D. GEOLOGY, Jackson School of Geosciences, The University of Texas at Austin, Austin TX. DISSERTATION TITLE: “Carbonate platform architecture and syndepositional fracture patterns of the Devonian reef complexes across the Frasnian-Famennian boundary: Canning Basin, Western Australia.” ADVISOR: Charles Kerans
- 1998 B.A. GEOLOGY, The University of Colorado, Boulder CO.

PUBLICATIONS:

- BUDD, D., FROST, E.L., HUNTINGTON K. W., AND ALLWARDT, T., 2013. Syndepositional deformation features in high-relief carbonate platforms: long-lived conduits for diagenetic fluids. *Journal of Sedimentary Research*. Vol. 83, 12-36.

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- FROST, E.L., BUDD, D.A., AND KERANS, C., 2012. Syndepositional deformation in a high-relief carbonate platform and its effect on early fluid-flow as revealed by dolomite patterns. *Journal of Sedimentary Research*. Vol. 82, 913-932.
- FROST, E.L., AND KERANS, C., 2010, Controls on syndepositional fracture patterns, Devonian reef complexes, Canning Basin, Western Australia. *Journal of Structural Geology*, v. 32, p. 1231-1249.
- FROST, E.L., AND KERANS, C., 2009. Platform-margin trajectory as a control on syndepositional fracture Patterns, Canning Basin, Western Australia. *Journal of Sedimentary Research*, Vol. 79, 44-55.

ABSTRACTS AND PRESENTATIONS:

- FROST, E.L., HUNT, D.W., SIMO, T.A., AND LABRANA, G., 2014. Variations in Syndepositional Fault Properties as a Function of Stratigraphic Position in High-Relief Carbonate Platforms. AAPG annual conference, Houston, TX
- FROST, E.L., 2014. New Carbonate Plays in the Mississippian Lime of the Bend Arch Area, Texas. AAPG annual conference, Houston, TX
- FROST, E.L., 2014, New Carbonate Plays in the Mississippian Lime of the Bend Arch Area, Texas. Permian Basin SEPM luncheon (Invited Speaker).
- FROST, E.L., BUDD, D., KERANS, C., HUNTINGTON, K., ALLWARDT, T., 2012. Syndepositional deformation and its effect on fluid-flow on through reflux dolomitization, burial, and exhumation. In: Kerans, C., and Bellian, J.A., (Conveners), Digital geospatial context for 3-D source-to-sink models: new insights into the classic shelf to basin system of the Guadalupe and Delaware Mountains: SEPM Research Conference, Carlsbad, New Mexico, p. 101-108.
- KERANS, C., BELLIAN, J.A., PLAYTON, T.E., HARMAN, C.A., RUSH, J., FROST, E.L., 2012. 3-D sequence framework of Leonardian to Guadalupian shelf-to-basin successions of the Guadalupe Mountains, *in* Kerans, C., and Bellian, J.A., (Conveners), Digital geospatial context for 3-D source-to-sink models: new insights into the classic shelf to basin system of the Guadalupe and Delaware Mountains: SEPM Research Conference, Carlsbad, New Mexico, p. 45-58.
- BUDD, D. A., HUNTINGTON K. W., AND FROST, E. L., 2011. Clumped-isotope thermometry: a new tool to delineate temperatures and fluids of calcite phases. American Association of Petroleum Geologists Annual Meeting: Houston, TX.
- FROST, E.L., BUDD, D.A., KERANS, C, AND ALLWARDT, T., 2010. Syndepositional fault and fracture control on diagenetic fluid-flow, Tansill carbonates (Permian), Dark Canyon, Guadalupe Mountains, New Mexico. American Association of Petroleum Geologists Annual Meeting: New Orleans, LA.
- FROST, N., 2007. Geologic modeling of Frasnian and Famennian carbonate platforms, Canning Basin, Western Australia. American Association of Petroleum Geologists Annual Meeting: Long Beach, CA. **Best Student Presentation.**
- FROST, N., AND GOMEZ, L., 2007. Syndepositional fracture patterns of the Devonian reef complexes, Canning Basin, Western Australia. American Association of Petroleum Geologists Annual Meeting: Long Beach, CA.
- FROST, N., CARPENTER, D., AND KERANS, C., 2006. Platform-margin trajectory as a control on neptunian dike distributions, Devonian reef complexes, Canning Basin, Western Australia. American Association of Petroleum Geologists International Meeting: Perth, Western Australia. **Best Student Poster.**
- FROST, N., PLAYFORD, P.E., AND KERANS, C., 2006. Platform evolution, facies patterns, and cyclicity across the late Devonian Frasnian/Famennian Boundary – Barnett Spring platform, Canning Basin, Western Australia. American Association of Petroleum Geologists International Meeting: Perth, Western Australia.

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FROST, N., KERANS, C., AND PLAYFORD, P.E., 2005. Carbonate platform evolution across the Frasnian/Famennian boundary – Napier Range, Canning Basin, Western Australia. Geological Society of America Annual Meeting: Salt Lake City, Utah.

INTERNAL REPORTS:

FROST, E.L., BUDD, D. A., ALLWARDT, T., AND KERANS, C., 2010. Syndepositional deformation control on fluid-flow, diagenesis, and reservoir properties. Dark Canyon, Guadalupe Mountains New Mexico. ConocoPhillips Subsurface Technology Internal Report, 111p.

INTERNAL TRAINING:

2010 Lead instructor, ConocoPhillips Ancient Carbonate Field Seminar
2010 Instructor, ConocoPhillips New-Hire Training
2007–2008 Instructor, ConocoPhillips Ancient Carbonate Field Seminar

AWARDS, FELLOWSHIPS, GRANTS, SCHOLARSHIPS:

2007 TECHNICAL SESSIONS BEST SPEAKER AWARD (Spring), Jackson School of Geosciences, University of Texas at Austin.
2007 SHELL BEST ORAL PRESENTATION AWARD - Best student oral presentation, American Association of Petroleum Geologists Annual Meeting, Long Beach CA.
2006 OZAN SUNGURLU MEMORIAL AWARD - Best international student poster, American Association of Petroleum Geologists International Meeting, Perth Australia.