

## **MUDTOC CONSORTIUM: INCEPTION: JAN 1<sup>ST</sup>, 2016 (ONGOING)**

**{INCLUDES RESEARCH FROM: BAKKEN: 2009-2016, NIOBRARA: 2010-2017, VACA MUERTA: 2013-2016}**

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*Archival Research (Completed before given consortia was rolled into MUDTOC)*

### **BAKKEN CONSORTIUM – COMPLETED RESEARCH (2016)**

1. **Steve Brennan:** Geochemical Controls on the Distribution of Carbonate Cement in the Middle Member Bakken Formation, Williston Basin, North Dakota (MS Geology, Spring 2016)
2. **Sanyog Kumar:** Upper and Lower Bakken Shale Production Contribution to the Middle Bakken Reservoir (MS→PhD PE, Spring 2016)
3. **Gary Listiono:** Petrographic Analysis of Middle Bakken Coarse-Grained Facies in Renville, Ward and Mountrail County, North Dakota (MS Geology, Spring 2016)
4. **Nathan Brown:** Petrographic Constraints for EOR in the Elm Coulee Field, Richland County, MT (MS Geology, Spring 2016)
5. **Andrew Graham:** : Integrated Analysis of Waulsortian-Type Bioherms of the Lodgepole Formation: Stark County, North Dakota and Bridger Range, Montana (MS Geology, Spring 2016)
6. **Thomas Lockwood:** Outcrop and Subsurface Analysis of the Sappington member, Three Forks Formation, Central MT (MS Geology Spring 2016)
7. **Amanda Wescott:** Reservoir Characterization of the Bakken Formation, (focus on Middle Bakken Mbr), Fort Berthold Region, ND (MS Geology Spring 2016)

### **BAKKEN CONSORTIUM – COMPLETED RESEARCH (2015)**

8. **Spencer Rolfs:** Three Dimensional Seismic Characterization of the Bakken Formation with a Synthesis of Previous Work, Elm Coulee Field, Williston Basin, Montana (MS Geology, 2015)
9. **Zack Newnam:** Reservoir Quality of the Upper Three Forks, Fort Berthold Reservation, Williston Basin, ND (MS Geology, Fall 2015)

### **BAKKEN CONSORTIUM – COMPLETED RESEARCH (2014)**

10. **Mohammed Al Duhailan:** Investigation of the factors controlling hydrocarbon-expulsion microfracturing in organic-rich mudrocks. (PhD Geology 2014)
11. **Aaron Bazzell:** Origination of Brecciated Intervals and Petrophysical Analysis of the Three Forks Formation, Williston Basin, North Dakota, U.S.A. (MS Geology 2014)
12. **Katie Kocman:** Interpreting Depositional and Diagenetic Trends in the Bakken Formation Based on Handheld X-Ray Fluorescence Analysis, McLean, Dunn and Mountrail Counties, North Dakota (MS Geology 2014)
13. **Basak Kurtoglu:** Integrated Reservoir Characterization and Modeling in Support of Enhanced Oil Recovery for Bakken (PhD PE 2014)
14. **Alyssa Franklin:** Stratigraphic Analysis and Petroleum Potential of the Three Forks Formation, Northeast Montana, Williston Basin, USA (PhD Geology, 2014)

### **BAKKEN CONSORTIUM – COMPLETED RESEARCH (2013)**

15. **Dylan Cobb:** Characteristics and Thickening Anomalies associated with the Lower Bakken Shale, Eastern Williston Basin, ND (MS Geology 2013)
16. **Lillian Comegys:** 9C-3D Seismic Interpretation of the Bakken Formation, Banner Field, North Dakota (MS Geophysics, 2013)
17. **Henriette Eidsnes:** Structural and Stratigraphic Factors Influencing Hydrocarbon Accumulations in the Bakken Petroleum System, Elm Coulee Field, Williston Basin MT (MS Geology 2013)
18. **Claudia Gutierrez:** Stratigraphy and Reservoir Characterization of the Three Forks Formation, Montrail County, ND (MS Geology 2013)
19. **Hui Jin:** Characterization of Source Rock Potential for the Bakken Shales in the Williston Basin, North Dakota & Montana. (PhD Geology 2013)
20. **Rebecca Johnson:** Three Forks/Pronghorn Stratigraphy & Facies Analysis (MS Geology 2013)

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21. **Paul Schietinger:** Upper Devonian – Lower Mississippian Stratigraphy of NW Montana: A Petroleum System Approach (MS Geology 2013)
22. **Cosima Theloy:** Integration of Geological and Technological Factors Influencing Production in the Bakken Play, Williston Basin. (PhD Geology 2013)

### BAKKEN CONSORTIUM – COMPLETED RESEARCH (2012)

23. **Virginia A. Gent:** Fourier Analysis of the Laminated Facies of the Middle Bakken Member, Sanish-Parshall Field, Mountrail County, ND (MS Geology 2012)

### BAKKEN CONSORTIUM – COMPLETED RESEARCH (2011)

24. **Chloe Alexander:** Reservoir Characterization and Petrology of the Bakken Formation, Elm Coulee Field, Richland County, MT (MS Geology 2011)
25. **Adrian Almanza:** Integrated Three Dimensional Geological Model of the Devonian Bakken Formation Elm Coulee Field Williston Basin, Richland County, MT (MS Geology, 2011)
26. **Matt Billingsley:** Analysis of Facies and Fractures With Respect to Production in The Bakken Formation, Parshall/Sanish Fields, Williston Basin, North Dakota (MS Geology 2011)
27. **Jesse Havens:** Static & Dynamic Properties of the Bakken (MS Geology 2011)
28. **Becky L. Kowalski:** Quantitative Mineralogic Analysis of the Middle Bakken Member,
29. Parshall Field Area, Mountrail County, North Dakota (MS Geology 2011)
30. **Vasilisa Nekhorosheva:** Stratigraphy, Diagenesis and Fracture characterization of the Three Forks Formation, Montana, Wyoming, South Dakota (MS Geology 2011)
31. **Andrea L. Simenson:** Depositional Facies and Petrophysical Analysis of the Bakken Formation, Parshall Field and Surrounding Area, Mountrail County, North Dakota (MS Geology 2011)
32. **Kene Mba:** Organic-rich Shale Maturity: Velocity and Impedance Study of Bakken Shale Samples (Petroleum Engineering Report)

### BAKKEN CONSORTIUM – COMPLETED RESEARCH (2010)

33. **Stephen Angster:** Fracture Analysis of the Bakken Formation, Williston Basin. Field Studies in the Little Rocky Mountains and Big Snowy Mountains, MT and Beartooth Mountains, WY and 3D Seismic Data, Williston Basin (MS Geology 2010)
34. **Brian Berwick:** Depositional Environment, Mineralogy, and Sequence Stratigraphy of the Late Devonian Sanish Member (Upper Three Forks Formation), Williston Basin, North Dakota (MS, Geology 2010)
35. **Piya Dechongkit:** Recovery Factor and Reserves Estimation in the Bakken petroleum System: Analysis of the Antelope, Sanish & Parshall Fields (MS Petroleum Engineering)
36. **Allaudin A. Gantyno:** Sequence Stratigraphy and Microfacies Analysis of the Late Devonian Three Forks Formation, Williston Basin, North Dakota and Montana, USA (MS Geology 2010)
37. **Aris Pramudito:** Depositional Facies, Diagenesis, and Petrophysical Analysis of the Bakken Formation, Elm Coulee Field, Williston Basin, Montana (MS Geology 2010)
38. **John Stroud:** The Role of the Lower Lodgepole Formation in the Bakken Petroleum System, Billings Nose, North Dakota (MS Geology 2010)
39. **James Vickery:** Lithofacies, Mineralogy and Ichnology of the Bakken Formation (Mississippian and Devonian), Williston Basin, MT & ND, USA (MS Geology 2010)