

SPE-DENVER NEWSLETTER

MAY 2022



GENERAL MEETING

Testing XLE in the DJ Basin: A Fiberoptic Case Study

Location

- Denver Athletic Club
 - 1325 Glenarm Pl, Denver, CO 80204

Date

- Wednesday, May 18th, 2022
 - 11:30 AM – 1:00 PM

Speaker

- Jessica Barhaug
 - Senior Reservoir Engineer – Studies & Analytics, Great Western Petroleum.

Session Overview

Based on the successes of Extreme Limited Entry (XLE) in other basins, Great Western Petroleum (GWP) constructed a design of an experiment to test XLE in the first zipper group of a two-zipper group pad. The goal was to find a design that would yield the same production, but with less cost.

Increasing stage length provides a significant cost saving and with XLE, production should be maintained.

Based on the results from zipper one, the best design could then be implemented on the same pad in the second zipper group. This allows for a direct comparison of hydraulic fracturing designs, minimizing geologic impact.

EARLY BIRD REGISTRATION CLOSING 05/16 AT 1200

[REGISTER NOW](#)

Meet our Speakers



Jessica Barhaug is a Senior Reservoir Engineer focusing on field studies and data analytics at Great Western Petroleum.

Previously, she worked for WPX Energy as a Senior Completions Engineer in the Williston Basin, where Jessica was one of the lead engineers for a completion and spacing optimization program. As a Completion and Production Engineer at Schlumberger, she worked on a variety of technical projects, including the design, execution, and evaluation of hydraulic fracturing treatments, rate transient analysis, production history matching, and microseismic monitoring and evaluation. She received her M.S. in Petroleum Engineering and B.S. in Environmental Engineering from the Colorado School of Mines.

PRODUCTION STUDY GROUP

Discussion of Liquid Loading Issues in Horizontal Wells

Location

- Hybrid Meeting:
 - Denver Earth Resources Library
 - 730 17th Street B-1, Denver, CO 80202
 - Online
 - The link will be sent to registered emails

Date

- Tuesday, May 24th, 2022
 - 12:00 PM – 1:00 PM

Speaker

- Dr. Bob Barree
 - Technology Fellow, Production Enhancement, Halliburton.

Study Group Overview

Water loading in horizontal wells is a much more difficult problem to address than in vertical wells because of the well trajectory and difficulty in effectively de-watering the lateral. Water loading in horizontal wells is one of the major causes of loss of production and reserves and damage to fracture effectiveness. The cause and severity of the damage are more complex than simply increased bottomhole flowing pressure and is based on fundamental porous media flow physics. This talk will discuss why water loading damages production and methods to reduce the damage.

EARLY BIRD REGISTRATION CLOSES 05/23 AT 1200

[REGISTER NOW](#)

Meet our Speaker



Dr. Robert D. Barree (PE, Colorado; B.S. Petroleum Engineering from Penn State; Ph.D. Petroleum Engineering from Colorado School of Mines) is a Halliburton Technology Fellow (Production Enhancement) specializing in hydraulic fracture design and simulation with more than 40 years of experience in the industry, and more than 75 technical publications. He was president of Barree & Associates consulting firm from 2000 to 2018. He was a Senior Technical Consultant at Marathon's Petroleum Technology Center until 2000, specializing in advanced core analysis and integration with petrophysics and numerical simulation. He is the developer of fracture diagnostic procedures (DFITs) and is the primary author of the fully three-dimensional hydraulic fracture simulator GOHFER. The SPE/AIME awarded Dr. Barree the Anthony F. Lucas Gold Medal in 2018 and appointed him SPE Distinguished Member.

COMMUNITY OUTREACH

SPE Serves Breakfast at the Denver Rescue Mission

Location

- Lawrence Street Community Center
 - 2222 Lawrence Street, Denver, CO 80205

Date

- Tuesday, May 17th, 2022,
- 6:30 AM – 8:30 AM



Description

Please join SPE Denver in their support of the Denver Rescue Mission, a nonprofit organization helping the poor and homeless populations of the Denver area at the Denver Rescue Mission. More than 85% of the services of the Denver Rescue Mission are operated by volunteers, serving people experiencing homelessness and poverty in our community since 1892. Please come and bring friends or family. Volunteers must be vaccinated.

- **Please get in touch with community outreach team member Nico Cosca for more details!**

SPE Supports the Next Generation of Female STEM!

Location

- Auraria Campus | Auraria Pkwy, Denver, CO 80204

Date

- Tuesday, May 17th, 2022,
- Time: 9:00 AM - 3:00 PM



Description

Girls Exploring Science, Technology, Engineering, and Math (GESTEM) is an exciting event that introduces middle school girls to the wide range of opportunities for potential careers in STEM fields through hands-on workshops and interactions with engineering professionals.

SPE will be in attendance and will be presenting a hands-on workshop titled “Fracturing with Jello”! We need volunteers who are passionate about science to help guide students through the activity and show them that opportunities exist within the STEM field!

- **Please contact community outreach team member, Julie Tannehill, for more details!**

WATCH THIS SPACE FOR ADDITIONAL UPCOMING VOLUNTEER OPPORTUNITIES IN THE DENVER AREA.



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ESPECIAL ANNOUNCEMENT

2022 DENVER SPE

GOLF TOURNAMENT

SCHOLARSHIP FUNDRAISER

FRI AUG 12

THE RIDGE AT
CASTLE PINES NORTH

EARLY REGISTRATION FOR SPONSORS OPEN UNTIL JUNE 3!



The Denver Section of the Society of Petroleum Engineers is pleased to announce our annual golf tournament on Friday August 12th at The Ridge at Castle Pines North. As in previous years, breakfast, lunch and dinner will be included. Separate award ceremonies and raffle drawings will take place immediately following each flight, thereby eliminating the need to return in the evening to collect prizes.

The proceeds from the tournament benefit the SPE Scholarship Fund and are distributed to petroleum engineering students in the Rocky Mountain Region. Our 2021 tournament resulted in a donation of over \$24,000! We constantly strive to exceed the previous years' donations and to do so, we will need the continued support of your organization.

The majority of the scholarship money comes from your generous sponsorship and support. Those companies generously donating \$1,500 or more will receive the ultimate recognition as a Platinum Sponsor. Likewise, companies donating \$1000, \$500 or \$300 will be recognized as Gold, Silver, or Bronze sponsors. The sponsoring companies will be recognized at the tournament and in the SPE Newsletter.

[Register Here.](#)

