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### **SPE Denver Section**

9 February 2024



#### **GENERAL MEETING - PLEASE NOTE NEW LOCATION!**

# Optimizing Stage Lengths by Leveraging Fracture Interference

#### **Location - NEW VENUE**

- Fogo de Chão
  - o 1513 Wynkoop Street, Denver, CO 80202

#### Date

- Wednesday, December 13th, 2023
  - 11:30 AM 1:00 PM

#### Speaker

- Evan Rodgers
  - Production Engineer at Chevron Rockies (Formerly Reservoir Engineer at PDC Energy)

EARLY BIRD REGISTRATION
CLOSES DECEMBER 11TH AT 12:00 PM
EVENT IS EXPECTED TO SELL OUT
REGISTER NOW

#### Session Overview

This discussion covers a case study in the Denver-Julesburg (DJ) Basin that reveals stage lengths can be dynamically varied when wells are tightly spaced to optimize pad drainage and completion cost in homogeneous rock strata. Alternating stage designs in offset wells can support increased stage lengths up to 6x standard (exceeding 1,000 ft) and still treat and produce as uniformly as smaller stages, due to the cooperative effect of the overlapping fracture network created by neighboring infill wells. These findings were corroborated by fiber optic data acquired during frac (cross-well strain) and post-flowback production monitoring and interference testing. We also observed formations within damage zones altered from faults can affect drainage

Sponsor:







Evan Rodgers is a Petroleum Engineer from the Colorado School of Mines, class of 2012, currently working as a Production Engineer for Chevron in their Rockies business unit within the DJ basin. He has held additional roles outside of Chevron within Reservoir and Completions engineering in various basins including the Utica Shale, Piceance, and DJ basin. He has been a part of both exploration and developmental teams along with projects varying from single well de-liquification to basin-wide reservoir delineation. His interest gravitates towards acknowledging how much we do not fully understand, especially around the technical aspects we think we do. He uses this approach to set his mindset while designing, analyzing, or proposing a field experiment.

Visit us at denverspe.org





- General Meeting
- Young Professionals Lunch and Learn
- Industry Events
- Community Outreach SPE Cares
- December Food Drive
- SPE Awards
- Special Events
- Special Announcements



#### YOUNG PROFESSIONALS LUNCH AND LEARN

#### **Tying Stage Architecture to Wolfcamp Performance Through Stacked Diagnostics**

#### Location

- Liberty Energy
  - o 950 17th Street Suite 2400, Denver, CO 80202

• Thursday, December 14th, 2023 11:30 AM – 1:00 PM

#### **Speaker**

- Jessica Barhaug
  - Sr. Completions Engineer Chief Team, Ovintiv

**REGISTRATION AVAILABLE UNTIL DAY OF EVENT EVENT IS FREE!** 

**REGISTER NOW** 

Venue, Food and Drink



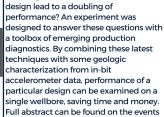
# registration page!

#### Meet our Speaker

Jessica Barhaug is a Senior Completions Engineer for the Ovintiv Chief Completions Team. Her focus is on optimizing job size and perf design through modeling and integrated diagnostics. Prior to Ovintiv, she was a Senior Reservoir Engineer focusing on field studies and data analytics in the DJ Basin 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 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.

# Sponsored by:









#### **SPE YOUNG PROFESSIONALS HOLIDAY PARTY**



Please join us for the SPE Young Professionals Holliday Party!
Location: SNÖBAHN Indoor Ski + Snowboard Center
Date: Thursday, December 14th, 2023
Time: 6:30 pm - 9:00 pm
Alcoholic and Non-Alcoholic drinks will be provided!





#### **COMMUNITY OUTREACH - SPE CARES**

# SPE Serves Breakfast at the Denver Rescue Mission



#### Location

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

#### Date

- Tuesday, December 19th, 2023
- ∘ 6:45 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. We had a great turnout in November! Lets keep that momentum going!

• Please get in touch with community outreach team member <u>Nico Cosca</u> for more details!

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





#### **DECEMBER FOOD DRIVE**



The SPE Denver Section is partnering with Denver Metro Caring during this Holiday Season. Please bring a can of food to the December General Meeting at Fogo de Chão on Wednesday, December 13th, 2023.





#### **SPE AWARDS**



Nominate a well-deserving colleague **TODAY**.

SPE recognizes members for the following categories at two levels: Regional and International

Technical Contributions Service to Colleagues Professional Excellence

Industry Leadership Career Achievement Public Service



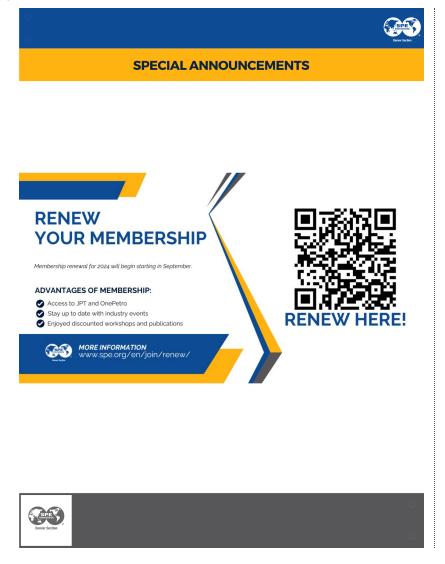




## Additional Details to Follow Sponsorship Opportunties Available







#### **Society of Petroleum Engineers - Denver Section**

SPE members receive periodic emails on events and programs related to the section to which they belong.

If you no longer wish to receive emails from this section, please opt- out.

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