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SPE Denver Section

9 February 2024



GENERAL MEETING - PLEASE NOTE NEW LOCATION!

Optimizing Stage Lengths by Leveraging Fracture Interference

<p>Location - NEW VENUE</p> <ul style="list-style-type: none"> • Fogo de Chão <ul style="list-style-type: none"> ◦ 1513 Wynkoop Street, Denver, CO 80202 <p>Date</p> <ul style="list-style-type: none"> • Wednesday, December 13th, 2023 <ul style="list-style-type: none"> ◦ 11:30 AM - 1:00 PM <p>Speaker</p> <ul style="list-style-type: none"> • Evan Rodgers <ul style="list-style-type: none"> ◦ Production Engineer at Chevron Rockies (Formerly Reservoir Engineer at PDC Energy) 	<p>Session Overview</p> <p>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 results.</p>
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EARLY BIRD REGISTRATION CLOSING DECEMBER 11TH AT 12:00 PM
 EVENT IS EXPECTED TO SELL OUT
 REGISTER NOW

Sponsor:  **ZEBEL**
an Archer company



Meet our Speaker

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.

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- [Industry Events](#)
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- [December Food Drive](#)
- [SPE Awards](#)
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YOUNG PROFESSIONALS LUNCH AND LEARN

Tying Stage Architecture to Wolfcamp Performance Through Stacked Diagnostics

Location

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

Date

- 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
Sponsored by:**



Abstract

While post-frac erosion and Fracture Driven Interactions (FDI) can be good indicators of a successful frac, getting long-term performance data has mainly been limited to full wellbores of a single design and waiting months for the results. Did different designs come on strong, but then fall off over time? Could a doubling of flow area from the standard design lead to a doubling of performance? An experiment was designed to answer these questions with a toolbox of emerging production diagnostics. By combining these latest techniques with some geologic characterization from in-bit accelerometer data, performance of a particular design can be examined on a single wellbore, saving time and money. Full abstract can be found on the events 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.



Please join us for the SPE Young Professionals Holiday 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 [Nico Cosca](#) 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.





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 Opportunities Available





SPECIAL ANNOUNCEMENTS

General Meeting Ticket Packages Available for 2023/2024



Interested in purchasing a block of tickets for the general meetings at a discounted price?

Purchase your block of tickets then register using the promo code we send you for any general meeting for the 2023/2024 season!

- 5 Tickets - \$200
- 10 Tickets - \$400
- 20 Tickets - \$800

Sponsorship opportunities available!

	10 Yearly Sponsor \$1500	COLO \$750	EXLSPR \$750
General Meetings (GM) held Monthly			
8 available GMs within the year cycle	*	*	*
GM Sponsorship Opportunities*			
Exclusive sponsor of the entire yearly program	*	*	*
Exclusive sponsor for single general meeting	*	*	*
Sponsor of a single general meeting (non-exclusive)	*	*	*
Benefits			
Company's short ads added to SPE Denver Monthly Newsletter	*	*	*
Acknowledgement on Website (Sponsorship Banner)	*	*	*
2 Attendee Passes Per Session	*	*	*
Option to provide advertisement material at the registration table	*	*	*
Company logo on name tags	*	*	*
1 Attendee Pass to the GM Being Sponsored	*	*	*
Facebook / Twitter / LinkedIn Event Posts	*	*	*
Acknowledgement on Website (Event Advertisement)	*	*	*

*All contributions made to our programs are considered charitable contributions for IRS purposes

CONTACT DENVERSECTION@SPEMAIL.COM FOR MORE INFORMATION!





RENEW YOUR MEMBERSHIP

Membership renewal for 2024 will begin starting in September.

ADVANTAGES OF MEMBERSHIP:

- ✓ Access to JPT and OnePetro
- ✓ Stay up to date with industry events
- ✓ Enjoyed discounted workshops and publications

MORE INFORMATION
www.spe.org/en/join/renew/

RENEW HERE!



Society of Petroleum Engineers - Denver Section

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