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Society of Petroleum Engineers

## SPE Denver Section

9 February 2024

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

### DJ Basin Fundamentals: How the Basin Stacks Up Across North America

<p><b>Location - NEW VENUE</b></p> <ul style="list-style-type: none"> <li>• <b>Fogo de Chão</b> <ul style="list-style-type: none"> <li>◦ 1513 Wynkoop Street, Denver, CO 80202</li> </ul> </li> </ul> <p><b>Date</b></p> <ul style="list-style-type: none"> <li>• Wednesday, January 24th, 2024           <ul style="list-style-type: none"> <li>◦ 11:30 AM - 1:00 PM</li> </ul> </li> </ul> <p><b>Speaker</b></p> <ul style="list-style-type: none"> <li>• Dane Gregoris           <ul style="list-style-type: none"> <li>◦ Managing Director and Head of North American Onshore Intelligence</li> </ul> </li> </ul>	<p><b>Session Overview</b></p> <p>This presentation will cover the findings from the recent in-depth analysis conducted on DJ basin, including the current status and our future expectations for topics such as permits, regulatory environment, operatorship, activity, production, GOR and WOR trends and more. Additionally, a benchmarking for DJ versus the rest of US unconventional plays will be shared.</p>
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EARLY BIRD REGISTRATION CLOSING JANUARY 22ND AT 12:00 PM  
 EVENT IS EXPECTED TO SELL OUT  
**REGISTER NOW**

**Sponsor:**



#### Meet our Speaker

**Dane Gregoris** joined Enverus (ITG) in 2014. His previous work experience includes positions at GLJ Petroleum Consultants and Encana (now Ovintiv). Dane leads the North American Onshore Intelligence team and has worked on numerous advisory mandates for our institutional and corporate clients over the years. He is also a regular presenter to executive audiences and at industry conferences. Dane graduated from Queen's University with a degree in geological engineering and is a CFA charterholder.

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## SPECIAL ANNOUNCEMENTS - 2024 JACK ENGLAND PASS



**GET ACCESS TO FOUR GENERAL MEETINGS FOR THE SPRING OF 2024 AT A DISCOUNTED PRICE!**

**JANUARY 24TH: DANE GREGORIS, ENVERUS**

- DJ BASIN PLAY FUNDAMENTALS | HOW THE BASIN STACKS UP ACROSS NORTH AMERICA

**FEBRUARY 21ST \*DISTINGUISHED LECTURER\*: RAWDON SEACER, CAFFNEY, CLINE & ASSOCIATES**

- CARBON CAPTURE & STORAGE AND THE CO2 STORAGE RESOURCES MANAGEMENT SYSTEM (SRMS)

**MARCH 30TH \*DISTINGUISHED LECTURER\*: TOM BRADLEY, BAKER HUGHES COMPANY**

- APPLICATION OF OIL AND GAS SUBSURFACE EVALUATION METHODOLOGY TO GEOTHERMAL: THE VALUE OF DATA

**MAY (TBA): DE GOYLER & MACNAUGHTON**

- A SURVEY ON DIAGNOSTIC BASED METHODS FOR WELL PERFORMANCE ANALYSIS AND PRODUCTION FORECASTING IN UNCONVENTIONAL RESERVOIRS





## Validation of Conductive Fracture Imaging with Cross Well Strain and Permanent Fiber Optic Flow

**Location**

- Ovintiv 40th Floor
  - 370 17th St, Denver, CO 80202

**Date**

- Tuesday, January 30th, 2024
  - 4:00 – 6:00 PM

**Speaker**

- Scott Taylor
  - Co-Founder/CEO, Reservoir Imaging Solutions

**REGISTRATION AVAILABLE UNTIL DAY OF EVENT**

**EVENT IS FREE!**

**REGISTER NOW**

**EVENT SPONSORSHIP AVAILABLE**

**Abstract**

The study applies Conductive Fracture Imaging (CFI) on Hydraulic Fracturing Test Site- 2 in the Delaware Basin, USA, acquired in 2019. The CFI results are independently delivered and compared with strain data recorded by permanent distributed fiber optic sensor arrays in a vertical data well (the Boxwood 5PH) and two horizontal wells (Boxwood 3H and Boxwood 4H). Boxwood 4H's permanent fiber provides Distributed Acoustic Sensing (DAS) cluster flow and proppant allocation analytics, as well as distributed strain sensing (DSS) for cluster level shut-in pressure build-up tests.

The objective of this study is to directly compare CFI results with in-well DAS and DSS fiber optic measurements. CFI utilizes microseismic events as active sources for reflection imaging of the conductive portion of hydraulic fractures, offering high-resolution images of the seismically active zone for precise description of cluster level fluid allocation and conductivity.

CFI has been benchmarked successfully against established fiber optic diagnostics, providing insights into conductive fracture geometries, cluster efficiencies, and in-well production flow profiling. Key advantages of CFI include imaging fluid and proppant allocation at the cluster level, offering a four-dimensional view of dynamic transport, estimating fracture height, and providing valuable data on hydraulic and conductive fracture geometries.

The study reveals strong correlations between CFI and cross-well strain intensity measured by fiber monitors, as well as good agreement with in-well DAS stimulation fluid allocation. Furthermore, CFI shows clear correlations with cluster level DSS strain changes during the production phase, accurately resolving cluster positions along the wellbore. Cluster level reflectivity values from CFI demonstrate a robust agreement with DSS strain change peak values observed on the same clusters.

**Meet our Speaker**

**Scott Taylor** has over 20 years' direct experience spanning finance, energy, mining, defense, and civil engineering industries. He graduated from Franklin College (Lugano) Switzerland with BSc in Finance 2002. Scott started his career raising money for both public and private markets as well as mining project in commodities trading. He co-founded Reservoir Imaging Solutions (RIS) in 2019, a technology-driven subsurface imaging company that was recognized by Darcy Partners as one of the top 10 subsurface oilfield technologies in 2022. Scott also founded Lithos in 2022 and took it public (CBOE:LITS) in Q2 of 2023. Lithos is a technology company focused on delivering sustainable lithium production from brine reservoirs. Scott has prior technical and financial experience in exploration, development, and pilot scale production on mines in Canada, Mexico and the Russian Federation. His experience also includes five years working for an engineering company in the mining and energy space which included resource development and drill programs on mines, and his skill-set enables him to work hands-on in the field and advising to use modern subsurface imaging techniques. He is a published author, has 5 issued patents, and is an invited speaker and member of the Society of Petroleum Engineers and the Society of Exploration Geophysicists.



## 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, January 11th, 2024
  - 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.



**YOUNG PROFESSIONALS 2024 SKI TRIP**



**SPE YP SKI FAST ENERGY BASH**



**#WORKFROMTHESLOPES**  
**KEYSTONE, CO**  
**MARCH 8-10**

**SPONSORSHIPS AND A-LA-CARTE REGISTRATIONS ARE NOW OPEN!**



  
**SPECIAL ANNOUNCEMENTS - MEMBERSHIP RENEWAL**

**RENEW YOUR MEMBERSHIP FOR 2024!**

**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/](http://www.spe.org/en/join/renew/)

  
**RENEW HERE!**





**SPECIAL ANNOUNCEMENTS - SPE AWARD NOMINATIONS**



Nominate a well-deserving colleague by clicking here **TODAY!**  
SPE recognizes members for the following categories at two levels: **Regional (March 1st)** and **International (February 15th)**

- Technical Contributions
- Service to Colleagues
- Professional Excellence
- Industry Leadership
- Career Achievement
- Public Service





## 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, January 16th, 2024
  - 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.

- 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.







## COMMUNITY OUTREACH - DMRSEF



Contact Julie Tannehill for more information:  
[tannehilljulie@gmail.com](mailto:tannehilljulie@gmail.com)



### Give Time

**VOLUNTEERS:**  
From fair setup to photographers, student advocates to display & safety judges, we need all types of volunteers to make the fair a success.



### Give Money

**Volunteer shifts available:**  
Thursday, February 22nd  
Friday, February 23rd  
Saturday, February 24th  
Sunday, February 25th



### Give Connection

**JUDGES:**  
Interview students, evaluate projects, and help us determine this year's DMRSEF winners!



Over 100 volunteer judges are needed  
and we would love a strong  
representation from SPE!

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





**SPECIAL ANNOUNCEMENTS - VOTE FOR YOUR 2024/2025 DISTINGUISHED LECTURES!**

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Click here to vote by January 15th



  
**SPECIAL EVENTS**



For Registration and Sponsorship Opportunities Click Here!

Platinum - \$600

Gold - \$450

Silver - \$350





### 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!

	Per Yearly Meeting \$1,000	COO \$750	EXCER \$500
<b>General Meetings (GM) held Monthly</b>			
8 available GMs within the year cycle	•	•	•
<b>GM Sponsorship Opportunities*</b>			
Exclusive sponsor of the entire yearly program	•	•	•
Exclusive sponsor for single general meeting	•	•	•
Sponsor of a single general meeting (non-exclusive)	•	•	•
<b>Benefits</b>			
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	•	•	•
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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!



## Society of Petroleum Engineers - Denver Section

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