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SPE Denver Section

9 February 2024



GENERAL MEETING - PLEASE NOTE NEW LOCATION!

Making More Informed Business Decisions Through Rate Transient Analysis in Unconventionals

Location - NEW VENUE

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

Date

- Wednesday, October 25th, 2023
 - 11:30 AM 1:00 PM

Speaker

- John Thompson
 - President and Co-founder, SAGA Wisdom

EARLY BIRD REGISTRATION
CLOSES OCTOBER 23RD AT 12:00 PM
EVENT IS EXPECTED TO SELL OUT
REGISTER NOW

Session Overview

The benefits of Rate Transient Analysis (RTA) for production forecasting and reservoir characterization are generally well understood. However, the utility for RTA beyond these common practices goes frequently unrecognized, by itself, RTA can be used to identify costly pitfalls with drilling decisions, rigorously normalize well and reservoir production attributes, and diagnose wells with uplift potential. As the cornerstone of an integrated reservoir study, RTA can further be applied to reduce reservoir estorption uncertainty, optimize well landing zone, and validate petrophysical properties derived from log analysis. In an era that has asset teams migrating from physics-based to data-driven development planning workflows. It is important to remember the value that well performance analysis and modeling techniques serve. This presentation will feature RTA solving several different objective functions, illustrated through cases studies. Attendees to this talk will exit with a better understanding of how RTA can be used as a practical tool for well and reservoir evaluations; providing auditable insichts with high texturn-or-investment.

Sponsor:





Meet our Speaker

John Thompson is the President and Co-Founder of SACA Wisdom; a tech start-up focused on digitally transforming education for energy industry professionals. He has a bachelors degree in mining engineering from Queen's University and a masters degree in chemical engineering from the University of Calgary. Over the past 15 years, he is better known as a reservoir engineer and instructor of Rate Transient Analysis (RTA) specializing in unconventional reservoirs. He has analyzed production data from thousands of wells, spanning most major tight and ultra-tight plays in the U.S., Canada, and Argentina. He has authored or co-authored 20 SPE papers, primarily focused on production forecasting, stimulation effectiveness evaluation, well spacing and completions optimization and diagnosing untapped well performance potential. From 2017 to 2019 he was Chair of the SPE Reservoir Evaluation and Production Optimization Special Interest Croup in Calgary and in 2019 he received the SPE Calgary Section Service Award and the Canadian Regional Service Award for his contributions to the society

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- General Meeting
- <u>Production Study Group -</u> <u>Technical Happy Hour</u>
- <u>Young Professionals</u> <u>Halloween Party</u>
- <u>Community Outreach -</u> <u>Energy4Me</u>
- Community Outreach SPE Cares
- Special Announcements
- Industry Event: Zoo Lights



PRODUCTION STUDY GROUP - TECHNICAL HAPPY HOUR

Multi-Basin Case Study: Remediating Damage from Fracture Driven Interactions Utilizing a Rigless Chemical Process and a Bit More

Location

- In-person Meeting:
 - Ovintiv 40th Floor
 - 370 17th Street, Denver, CO 80202

Date

- Thursday, October 12th, 2023
 - 4:00 PM 6:00 PM

Speaker

- Michael Lantz
 - Co-founder and CEO, Kairos Energy Services

REGISTRATION AVAILABLE UNTIL DAY OF EVENT

REGISTER NOW

Meet our Speaker

Michael Lantz is the co-founder and CEO of Kairos Energy Services. Lantz has over 15 years of experience in maximizing hydrocarbon recovery from conventional and unconventional reservoirs. This includes the design and application of EOR technologies, stimulation fluids, oilfield chemistry, and remedial processes. He holds a BSc in Chemical Engineering from the Colorado School of Mines and a MSc in Energy Management from the University of Colorado.

Study Group Overview

The development of US unconventional wells has reached the point where most new completions risk interactions with existing parent wells. FDI's between child and parent wells result in a wide variation of production impacts but in many cases, production can be negatively affected and cannot be solely attributed to stolen reserves from the child well. Numerous damage mechanisms are identified with the two most dominant mechanisms being capillary phase trapping and fracture conductivity damage from FR-iron gels.

Multiple surfactant-nanoparticles chemistry was studied to reduce capillary pressure across multiple unconventional basins. A new chemistry was developed that significantly reduced the required amount of citric acid to remediate FR-iron gel damage. The chemistry was integrated into a novel rigless process that utilizes a diversion process combined with a specific volumetric design methodology to improve fluid distribution along lateral and into the propped fracture network and fracture-matrix interface. Case studies across two different basins are described, yielding 2-10x increases in hydrocarbon production and paybacks in less than 4 months.

This process is being applied to wells that are underperforming as a restimulation technique and a case study from the DJ Basin and Anadarko Basin will be reviewed.



Location

Holey Moley Golf Club Denver
 1201 18th Street, Denver, CO 80202

Date

- Thursday, October 26th, 2023
 6:00 PM 8:00 PM

For \$35/person, this frightfully fantastic takeover includes a game of mini golf, networking, delicious appetizers,drinks, and hours of fun! Costumes are strongly encouraged! If registering as an operator or student, you must register with your company or school email to verify registration. Please feel free to bring your friends or spouse, but all attendees must have a ticket.

SPONSORSHIP OPPORTUNITIES ARE AVAILABLE

- Headline Sponsor \$2500
- Jack-o'-lantern Sponsor \$500

We look forward to seeing you there for a casual and exciting SPE Halloween event!

• Please get in touch with YP Chair <u>James DeBartolomeis</u> for more details!





COMMUNITY OUTREACH - ENERGY4ME



- - classroom presentations!

 o 10/23/23 8:30-10:45am, Newlon Elementary

 o 10/26/23 12:30-3:00pm, Munroe Elementary

 t11/13/23 12:30-3:00pm, Newlon Elementary

American Physical Society Division of Plasma Physics Student Expo

• Showcase interactive demos to students/teachers regarding physical science concepts related to oil and gas

• 11/2/23 8:30am-3:00pm, Colorado Convention Center

Contact tannehilljulie@gmail.com for more info!



Bring Energy in to the Classroom!

Energy4me promotes fact-based education to help demystify the industry. It is designed to $promote\ an\ energy\ conscious\ and\ educated\ society,\ and\ create\ interest\ in\ science,\ technology,$ engineering and math (STEM) careers. Energy education is not a topic that is widely taught in school systems globally. By making this curriculum available to teachers for use in their classroom, energy4me can reach thousands of students every year.

 $\bullet \ \ \text{Please get in touch with community outreach chair} \ \underline{\textbf{Julie Tannehill}} \ \text{for more details!}$

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





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, October 17th, 2023.
 - o 6:45 AM 8:30 AM

Description

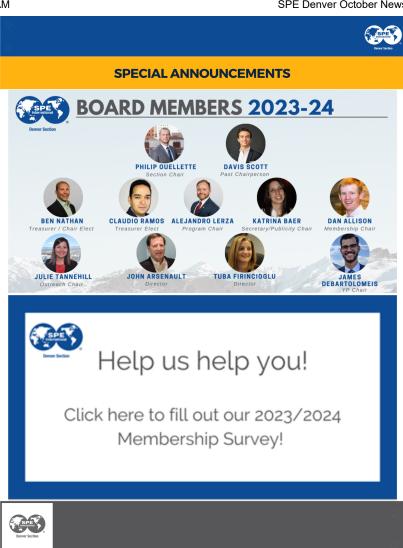
Please join SPE Denver in their support of the Denver Rescue Mission, a nonprofit organization helping the poor and homeless populations of the Denver area at the Denver Rescue Mission. More than 85% of the services of the Denver Rescue Mission are operated by volunteers, serving people experiencing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

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

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





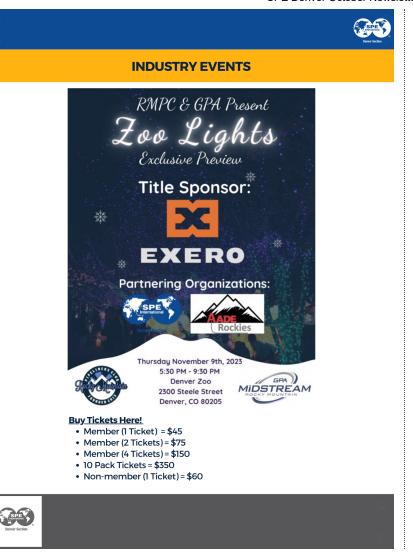




SPECIAL ANNOUNCEMENTS







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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