14-15 AUGUST 2023 GRAND HYATT DENVER, COLORADO



Refracturing: A Proven Strategy to Maximize Economic Recovery

Refracturing creates highly attractive opportunities to use existing wellbores for additional hydrocarbon recovery without having to drill a new well, reducing environmental impact. Within a given field, the completion techniques typically evolve leaving many wells with stranded volumes of commercial hydrocarbons. Re-entry and re-stimulation is a proven approach to economically recover those previously stranded resources.

Refracturing parent wells has also become a valuable option for mitigating the negative impacts of fracturing interaction from infill wells or child wells leading many operators to co-develop refracturing of projects alongside new drill activity. Potential improved performance of new drill wells, protection of existing parent wellbores, ESG synergies, and capital efficiencies are among the reasons that some operators have adopted this strategy. This workshop creates a venue for attendees to engage with subject matter experts on a variety of technologies, well conditions and lessons learned. This workshop is an opportunity to network as well as to learn the newest developments.

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CHAIRPERSON SAM SCHROEDER

PROGRAM COMMITTEE

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WELLMATIC



Technical Agenda

SUNDAY, 13 AUGUST

All functions take place in the Atrium Tower Pinnacle Club - 38th Floor. 1730 Welcome Reception -1900

Crystal Peak

MONDAY, 14 AUGUST

MORNING EVENTS

Technical	sessions located in Capitol Peak Ballroom.	
0700- 0800	Registration Check-in Breakfast	Prefunction Crystal Peak
0800- 0810	Chairperson's Welcome and Introduction	
0810- 0840	Keynote: Refracs in the Eagle Ford: A Devon Energy Perspective	Brian Schmitt, Devon
0840 -1010	Session 1: Selection Process for Refracturing Candidates and Program Management	Chairs: Kevin Eichinger, BKV Corporation Neil Modeland, Halliburton
	If at First You Don't Succeed, Frac Again: A Review of Unconventional Refracs	Ray Ellis Liberty Energy
	Integrated Well Performance Analysis Methodology to Prioritize Refracturing Candidates	Eric Bryan, DeGolyer & McNaughton
	A Review of the Selection Process for Refrac Candidates	Bob Barba, Triple R Energy Partners
1010- 1030	Coffee Break	
1030 -1200	Session 2: Intra- and Inter-well Fracture-driven Interactions Between Horizontal Wells	Chairs: Sam French, BKV Corporation Dick Leonard, ProTechnics
	BKV Barnett New Well and Refrac Co-Development to Optimize Value	Philip Lee, BKV Corporation
	Casing Damage Potential in Refracturing	George King, GEK Engineering
	Mitigation of FDIs In the NEPA Marcellus Shale	John Stell, BKV Corporation
1200 1300	Lunch	Crystal Peak

🏂 AFTERNOON EVENTS

1300 1430	Session 3: Completions and Coiled Tubing Intervention	Chairs: David Traugott, NOV Eivind Moen, Comitt		
	Thru Tubing Cleanouts and Acidization in Unconventional Wells	Jason Burke, ConocoPhillips		
	Hybrid Expandable Liner System: A Cost-Effective Alternative to Bullhead	Ken Day, BKV Corporation		
	Advancements in Coiled Tubing Technologies for Extended Reach Horizontal Wells in North America	Jeremy Workman, NOV		
1430 -1500	Coffee Break			
1500- 1630	Session 4: Future and Emerging Technologies	Chairs: Dustin Ellis, NCS Multistage Eivind Moen, Comitt		
	Beyond Aphrons: How Structuralized Microfoams Maximize Clean Out Efficiency & Refrac Liner Success	Eddie Valverde, Emerald Surf Sciences		
	Liner Tie Back Technology Opens Up Refrac Candidate Opportunities: A Case Study	Cameron Radtke NewGen		
	DOE HFTS #1 Phase 3–EagleFord Refracs, A Review of the Fracture Diagnostics (SWPM, Fiber and Modelling)	Karen Olson, Well Data Labs		
1630 -1800	Networking Reception and Poster Session	Poster Session Chairs: Robert Coon, PetroQuip Energy Services Neil Modeland, Halliburton Jason Baihly, SLB		
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resources, and life-long learning opportunities to fuel the success of our				
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members and the future of the industry.

LEARN AND CONNECT



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TUESDAY, 15 AUGUST-

K MORNING EVENTS

0700- 0800	Breakfast	Crystal Peak
0800- 0930	Session 5: Diversion and Zonal Isolation	Chairs: <i>Luis Castro, Baker</i> <i>Hughes</i> <i>Kevin Eichinger,</i> <i>BKV Corporation</i>
	Beyond Bullheads: Isolation and Diversion Techniques for Modern Refracs	Aaron Burton, ProTechnics
	Improving Connectivity and Placement using Microproppant	Terry Palisch, Carbo Ceramics
	A Cost Effective Approach to Refracturing – Temporary Lateral Squeeze Using Particulates	Nick Koster, DiverterPlus
0930 -1000	Coffee Break	
1000 -1130	Session 6: Refrac Design and Technique Selection	Chairs: <i>Steve Asbill,</i> <i>Foundation Energy</i> <i>Sam Schroeder,</i> <i>ConocoPhillips</i>
	Refrac'n Refracs	Jamie McEwen & Melody Zhang, ConocoPhillips
	A Success Story: Screening and Optimizing Refracs in the Eagle Ford'	Dave Ratcliff, ResFrac
	Rejuvenate the Largest Shale Gas Field of China with Casing in Casing	Rong (Hannah) Han. Halliburton
	Refracturing Method	,,

🗱 AFTERNOON EVENTS

1230- 1400	Session 7: Diagnostics and Surveillance	Chairs: Dick Leonard, ProTechnics David Traugott, NOV
	Understanding Well Integrity for Refrac Operations	Charles Bourgeois, Dark Vision
	RA Tracer: A Radioactive Perspective on Refracs	Tyler Williams, Devon
	Using Existing Wellbore Data to Improve Refrac Success	Kevin Wutherich, Drill2Frac
1400- 1415	Coffee Break	
1415- 1545	Session 8: Panel: If I Could Do It All (Moderators: Dustin Ellis, NCS Multistage LLC Sam French, BKV Corporation Panelists: Tyler Williams, Devon Steve Asbill, Foundation Energy Jamie McEwen, ConocoPhillips	Over Again



i GENERAL INFORMATION

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ALCOHOL POLICY

SPE recognizes the legitimate serving of alcoholic beverages in the process of conducting business and social activities. We also recognize that the use and consumption of alcohol carries with it the requirement for all attendees to consume those beverages responsibly.

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In remaining consistent with workshop objectives and SPE guidelines, commercialism in presentations will not be permitted. Company logos should be used only to indicate the afflilation of the presenter(s).

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Attendees will receive 1.6 CEUs. One CEU equals 8 contact hours of participation. CEUs will be awarded through SPE Professional Development for participation and completion of an SPE workshop. A permanent record of a participant's involvement and awarding of CEUs will be maintained by SPE.

DOCUMENTATION

Following the workshop, a URL containing released copies of the workshop presentations will be available to all attendees.

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WORKSHOP FORMAT

Workshops maximize the exchange of ideas among attendees and presenters through brief technical presentations followed by extended Q&A periods. Focused topics attract an informed audience eager to discuss issues critical to advancing both technology and best practices.

Many of the presentations are in the form of case studies, highlighting engineering achievements and lessons learned. In order to stimulate frank discussion, no proceedings are published and members of the press are not invited to attend.

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