Completion Optimization focused on the Near Wellbore Region – Methods, Techniques and Technologies that are Critical for Continued Process Improvement

The execution of perforating and fracture stimulation continues to be critical to the development of horizontal plays everywhere. The overall goal is to maximize the recovery of hydrocarbons by creating large effective drainage areas and minimizing reserves left behind. This workshop will focus on technologies and techniques, from spud to production, employed to optimize the near wellbore region for stimulation. Primary topics will be focused on limited entry perforating, diagnostics, data analytics and case studies that have integrated recent learnings in new developments and re-fracs alike. Attendees that are focused on the multidisciplinary big picture of optimization will find this workshop engaging and beneficial.
Technical Agenda

**MONDAY, 6 NOVEMBER**

**MORNING EVENTS**

All Technical Session take place in New Mexico Room

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
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</thead>
<tbody>
<tr>
<td>0700–</td>
<td>Registration Check-In and Continental Breakfast</td>
<td>New Mexico</td>
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<tr>
<td>0800–</td>
<td>Chairperson’s Welcome and Safety Moment</td>
<td>New Mexico</td>
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<tr>
<td>0810–</td>
<td>Objectives &amp; Overview of Workshop</td>
<td>New Mexico</td>
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<tr>
<td>0830–</td>
<td><strong>Panel:</strong> Importance and Challenges of Collecting NWB Data for Optimization</td>
<td>New Mexico</td>
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<tr>
<td>0830–</td>
<td>More Data is Better...Even if it Gets Complicated</td>
<td>New Mexico</td>
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<tr>
<td>0850–</td>
<td>Scrutinizing the Usefulness of Post-Treatment Perforation Imaging Surveys</td>
<td>New Mexico</td>
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<tr>
<td>1000–</td>
<td>Coffee Break</td>
<td>New Mexico</td>
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<tr>
<td>1030–</td>
<td><strong>Session 2:</strong> Cementing—Best Practices for an Optimal Stimulation</td>
<td>New Mexico</td>
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<tr>
<td>1030–</td>
<td>Cementing Refrac Wells: Overcoming Depletion and Tight Annular Space with Innovative Cement Slurries</td>
<td>New Mexico</td>
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<tr>
<td>1200–</td>
<td>Lunch</td>
<td>La Terraza</td>
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<tr>
<td>1330–</td>
<td><strong>Session 3:</strong> Completion Hardware—New Technologies</td>
<td>New Mexico</td>
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<tr>
<td>1500–</td>
<td>Coffee Break</td>
<td>New Mexico</td>
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<tr>
<td>1530–</td>
<td><strong>Session 4:</strong> Perforating Design &amp; Execution</td>
<td>New Mexico</td>
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**AFTERNOON EVENTS**

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<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>1330–</td>
<td>Application of Fiber Optics and Acoustic Imaging to Multi-Bench Marcellus Development</td>
<td>New Mexico</td>
</tr>
<tr>
<td>1500–</td>
<td>RA Tracer: A Radioactive Perspective on Refracs</td>
<td>New Mexico</td>
</tr>
<tr>
<td>1700–</td>
<td>Networking Reception</td>
<td>La Terraza</td>
</tr>
</tbody>
</table>

SPE provides shared expertise, resources, and life-long learning opportunities to fuel the success of our members and the future of the industry.

LEARN AND CONNECT

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Tuesday, 7 November

Morning Events

0700–0800  Continental Breakfast  New Mexico Foyer

0800–0930  Session 5: Parent Child Interactions — Depletion Focused  
Chairs: Dick Leonard, ProTechnics  
Joel Mazza, ESG Solutions

Feature-Driven Interactions: Near-Wellbore Strategies and Basin Benchmarking Metrics  
Chad Senters, ProTechnics

Case Studies Showing the Use of Near-Wellbore Data in Child Wells to Proactively Mitigate Negative Effects of FDIs  
Kevin Wutherich, Drill2Frac

Using Sealed Wellbore Pressure Monitoring (SWPM) to Quantify the Impact of Depletion on Asymmetric Fracture Growth  
Mary Van Domelen, Well Data Labs

0930–1000  Coffee Break  New Mexico Foyer

1000–1130  Session 6: Diagnostics—Pressure Transient  
Chairs: Karen Olson, Well Data Labs  
Mojtaba Shafri, Apache

Insights Into Completion and Production Performance From Permanent Downhole Gauges in the Bakken  
Michael McKimmy, Hess

Real-Time Measurements of Pipe Friction and Perforation Friction Through Surface Acoustic Measurements  
Nathan Crawford, Seismos

1130–1200  Lunch  La Terraza Room

Afternoon Events

1300–1430  Session 7: Refrac—Economics and Results  
Chairs: Dick Leonard, ProTechnics  
Karen Olson, Well Data Labs

The Value of the Perfect Frac Stage  
Craig Cipolla, Hess

Bakken Refracs—Isolation Challenges  
Taylor Carlson, Devon

A Case Study: Understanding Perforation Erosion in Mechanical Isolation Refracs  
Charles Bourgeois, DarkVision

1430–1500  Coffee Break  New Mexico Foyer

1500–1630  Session 8: Case Studies  
Chairs: Craig Cipolla, Hess  
Dave Cramer, ConocoPhillips

Field Data and Correlations on Proppant Transport from the Well: Turning the Corner, Phasing, and Erosion  
Mark McClure, ResFrac

Cluster Efficiency and Fracture Geometry using Treatment Pressures  
Lucas Bazan, Bazan Consulting

1700–2200  Offsite Reception  Sponsored by DarkVision  
Please join DarkVision for an offsite reception at the Eldorado Hotel and Spa!  
www.eldoradohotel.com

Wednesday, 8 November

Morning Events

0700–0800  Continental Breakfast  New Mexico Foyer

0800–0930  Session 9: Data Analytics—Past, Present and Future  
Chairs: Eric Marshall, GEODynamics  
Joel Mazza, ESG Solutions

The Evolving Interplay of the Human and AI in Economics-Driven Completion Optimization  
George Voneiff, Datagration

A Rapid and Robust Approach for Optimizing Production in the Northern Delaware Basin  
Eric Wigger, Liberty Energy

Analyzing Treatment Data and Downhole Measurements to Optimize Frac Execution in the DJ Basin  
Matt Paradeis, Chevron

0930–1000  Coffee Break  New Mexico Foyer

1000–1130  Session 10: Group Discussion - Live Polling  
Chairs: Dante Guerra, NSI Technologies  
Eric Marshall, GEODynamics

Chairperson’s Closing & Wrap Up

THE PLACE FOR OIL AND GAS PROFESSIONALS
**GENERAL INFORMATION**

**ACCESSIBILITY**
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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 affiliation of the presenter(s).

**CONTINUING EDUCATION UNITS**
Attendees will receive 2.4 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.

**ELECTRONIC DEVICES**
As a courtesy to the speakers and your fellow registrants, please turn off all electronic devices during presentations.

**NAME BADGES**
Please wear your badge at all times. It is a courtesy to your fellow registrants, speakers, and sponsors.

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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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Please take a moment and let us know your thoughts on this event!  
go.spe.org/ASANWorkshopAttendee