

6-8 NOVEMBER 2023

LA FONDA ON THE PLAZA

SANTA FE, NEW MEXICO, USA



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.



CHAIRPERSONS

ERIC MARSHALL
GEODYNAMICS

DICK LEONARD
PROTECHNICS

PROGRAM COMMITTEE

KOURTNEY BRINKLEY
DEVON

CRAIG CIPOLLA
HESS

DAVE CRAMER
CONOCOPHILLIPS

DANTE GUERRA
NSI TECHNOLOGIES

JOSH JACKSON
CHESAPEAKE ENERGY

JOEL MAZZA
ESG SOLUTIONS

KAREN OLSON
WELL DATA LABS

MOJTABA SHAHRI
APACHE

AMIT SINGH
CHEVRON

MARY VAN DOMELLEN
WELL DATA LABS

THANK YOU TO
OUR SPONSORS >



PLATINUM SPONSOR



GOLD SPONSOR



TUESDAY OFFSITE RECEPTION



Society of Petroleum Engineers

Technical Agenda

MONDAY, 6 NOVEMBER

MORNING EVENTS

All Technical Session take place in New Mexico Room

0700–0800	Registration Check-In and Continental Breakfast	New Mexico Foyer
0800–0810	Chairperson's Welcome and Safety Moment	New Mexico Room
0810–0830	Objectives & Overview of Workshop	New Mexico Room
0830–1000	Panel: Importance and Challenges of Collecting NWB Data for Optimization	Chairs: <i>Dante Guerra, NSI Technologies</i> <i>Eric Marshall, GEODynamics</i>
	More Data is Better...Even if it Gets Complicated	<i>Jess Barhaug, Oviniv</i>
	Scrutinizing the Usefulness of Post-Treatment Perforation Imaging Surveys	<i>Dave Cramer, ConocoPhillips</i>
1000–1030	Coffee Break	New Mexico Foyer
1030–1200	Session 2: Cementing—Best Practices for an Optimal Stimulation	Chairs: <i>Josh Jackson, Chesapeake Energy</i> <i>Mary Van Domelen, Well Data Labs</i>
	Cementing Refrac Wells: Overcoming Depletion and Tight Annular Space with Innovative Cement Slurries	<i>Jeremiah Anderson, Continental Resources</i>
	Fiber Optics Improve Cement Performance and Drilling Cost in the Bakken	<i>John Lassek, Hess</i>
1200–1330	Lunch	La Terraza Room

AFTERNOON EVENTS

1330–1500	Session 3: Completion Hardware—New Technologies	Chairs: <i>Kourtney Brinkley, Devon</i> <i>Craig Cipolla, Hess</i>
	Application of Fiber Optics and Acoustic Imaging to Multi-Bench Marcellus Development	<i>Matt Mantell, Chesapeake</i>
	RA Tracer: A Radioactive Perspective on Refracs	<i>Steven Young, Devon</i>
	Field Trial of Multi-Entry Cemented “Unlimited” Frac Sleeve System Yields Varied Results	<i>Matt White, ConocoPhillips</i>
1500–1530	Coffee Break	New Mexico Foyer
1530–1700	Session 4: Perforating Design & Execution	Chairs: <i>Dave Cramer, ConocoPhillips</i> <i>Dante Guerra, NSI Technologies</i> <i>Amit Singh, Chevron</i>
	Oriented Perforating: Do's and Don't's	<i>Cody Douglas, ConocoPhillips</i>
	Tying Stage Architecture to Wolfcamp Performance Through Stacked Diagnostics	<i>Jess Barhaug, Oviniv</i>
	Risk Reduction Through Automated Plug-and-Perf	<i>Joel Walden, Halliburton</i>
1700–1830	Networking Reception	La Terraza Room

“

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

6-8 NOVEMBER 2023

LA FONDA ON THE PLAZA

SANTA FE, NEW MEXICO, USA



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 Shahri, 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*

1130–1300 **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, Datagrattion*

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 *Dante Guerra, NSI Technologies*
Eric Marshall, GEODynamics

1130–1200 **Chairperson's Closing & Wrap Up**

THE PLACE FOR OIL AND GAS PROFESSIONALS





6-8 NOVEMBER 2023

LA FONDA ON THE PLAZA

SANTA FE, NEW MEXICO, USA

i GENERAL INFORMATION

ACCESSIBILITY

Our events and functions are accessible to all attendees with wheelchairs. If you require special arrangements, please contact our staff at the registration desk.

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.

COMMERCIALISM

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.

PHOTOGRAPHY AND RECORDING POLICY

SPE reserves the exclusive rights to all video/audio recording or reproductions of the workshop. Unauthorized video/audio recording is expressly prohibited in the session room(s) or poster area, whether by video, still or digital camera, mobile phone, or any other means or form of reproduction.

Any person attending may be photographed or videotaped, and by your attendance, you give permission to use your image in possible future marketing publications including print, online, and video.

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.

SPE IS THE LARGEST INDIVIDUAL MEMBER ORGANIZATION SERVING MANAGERS, ENGINEERS, SCIENTISTS AND OTHER PROFESSIONALS WORLDWIDE IN THE UPSTREAM SEGMENT OF THE OIL AND GAS INDUSTRY.



Please take a moment and let us know your thoughts on this event!

go.spe.org/ASANWorkshopAttendee

www.spe.org

in f t v i

THANK YOU TO
OUR SPONSORS >



PLATINUM SPONSOR



GOLD SPONSOR



TUESDAY OFFSITE RECEPTION



Society of Petroleum Engineers