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October 2, 2018

GENERAL MEETING

Well Collision Avoidance - The Way Forward SPE Distinguished Lecturer: Steve Sawaryn - Consultant

Denver Athletic Club

Wednesday, October 17, 2018, 11:30 AM - 1:00 PM

Early-bird registration deadline: October 15 at 5:00 PM

Tickets:

Members	\$25
Non-Members	\$35
Walk-Ins	\$45

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Outline: The consequences of an unplanned intersection with an existing well can range from financial loss to a catastrophic blow-out and loss of life. The process of well collision avoidance involves rules that determine the allowable well separation, the management of the associated directional planning and surveying activities and assurance and verification. The adoption of a particular minimum allowable separation rule, no matter how conservative, does not ensure an acceptably low probability of collision. Many other factors contribute, such as the level of compliance by office and rig personnel with collision avoidance procedures, and the completeness and correctness of the directional database. All these factors are connected.

This is not a new subject, but current guidance is disparate, company specific and occasionally contradictory. As a result, the guidance can be difficult to understand and implement. Standardization is required. This standardization has been the goal of the SPE Wellbore Positioning Technical Section (WPTS). The resulting recommendations are a culmination of the work and consensus of industry experts from both operators and service companies. The effects of a standardized separation rule and attendant practices are far reaching. They influence slot separations, trajectories, drilling practices, surveying program and well shut-in, with commercial as well as HSE implications.

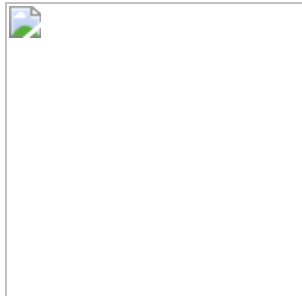
Although collisions are rare, investigation of 19 anonymous collision events suggests they occur more frequently than formal

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accounts would lead us to believe. Common themes across these events can be identified and these lead to a conclusion that all such collisions are avoidable.



Biography: Steve Sawaryn is an independent drilling engineering consultant specialising in drilling systems. During the previous 35 years he held a variety of national and international posts in BP's Drilling Engineering Division in drilling operations, consultancy and projects. He is also a chartered engineer and fellow of the British Computer Soc. Sawaryn holds

PhD and M.A. degrees from Cambridge U. He has authored more than 35 SPE papers and has served on a number of SPE committees. He received the 2010 SPE North-Sea Region Technical Award for Drilling Engineering and now chairs the SPE Wellbore Positioning Technical Section Collision Avoidance sub-committee.

CONTINUING EDUCATION

Production Forecasts and Reserves Estimates in Unconventional Reservoirs

Dr. John Lee - Texas A&M

📍 Schlumberger Training Room, 1675 Broadway, Suite 700, Denver

📅 October 8-9, 2018

🎓 1.6 CEUs (Continuing Education Units) will be awarded for this 2-day course

Registration deadline: October 5, 2018

[Register Now](#)

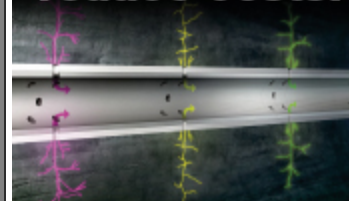
Description: This course teaches the skills and understanding needed to forecast production and estimate reserves in unconventional (ultra-low permeability) oil and gas reservoirs. The course emphasizes "simple" production decline models appropriate for routine forecasting for hundreds of wells in short periods of time. Both tight oil and gas reservoirs, such as shale resources, are discussed.

Instructor:

W. John Lee is Professor of petroleum engineering at Texas A&M University. He previously held the Hugh Roy and Lillie Cranz Cullen Distinguished University Chair at the University of Houston's petroleum engineering program. Prior to this, Lee held the L.F. Peterson Chair and was Regent's Professor of petroleum engineering at Texas A&M University. He was the former executive vice president of S.A. Holditch & Associates, where he specialized in reservoir engineering for unconventional gas reservoirs. He served as an Academic Engineering Fellow with the US Securities and Exchange Commission (SEC) in



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Washington during 2007–2008, and was a principal architect of the new SEC rules for reporting oil and gas reserves.

Prior to beginning his career in academia, Lee managed Exxon's Major Fields Study Group. He has written many technical papers and co-authored four SPE textbooks: Well Testing, Gas Reservoir Engineering, Pressure Transient Testing, and Applied Well Test Interpretation. He is also co-author of SPEE Monograph 4, Estimating Ultimate Recovery of Developed Wells in Low Permeability Reservoirs. Lee is an Honorary Member of SPE and a member of the US National Academy of Engineering. He received his BChE, MS, and PhD degrees in chemical engineering from the Georgia Institute of Technology



CONTINUING EDUCATION

Artificial Lift and Production Optimization

Dr. Rajan Chokshi - Accutant Solutions of Houston

📍 Liberty Oilfield Training Room, 950 17th Street, Suite 2400, Denver

📅 February 26-27, 2019

🎓 1.6 CEUs (Continuing Education Units) will be awarded for this 2-day course

Registration deadline: February 12, 2019

[Register Now](#)

Description: This course is designed to give trainees an overview of various artificial lift solutions and related production optimization concepts. After introducing participants to the need for an artificial lift system, training will focus on each of the following lift methods: Gas lift, Reciprocating Rod Lift, Progressing Cavity Pumping, Hydraulic Pumping, Electrical Submersible Pumping, Plunger and Capillary System. For each lift type, the course covers main components, application envelope, relative strengths and weaknesses. Animations, field cases, and example-calculations are used to reinforce concepts. A unique feature of this course is discussion on digital oil field as applicable to lift optimization. The course will close with a discussion session wherein trainees would discuss their challenges and plans for lift systems with a view to understand applicability of the concepts learned during the training.

Instructor:

In a career spanning over 30 years, Chokshi has worked on petroleum and software engineering projects globally in the areas of multi-phase flow, artificial lift design, and production optimization in oil and gas industries for national oil company and service providers. He continues to consult and teach professional

courses in these areas. His interests are developing and nurturing young talent globally, technology integration and commercialization.

Dr. Chokshi is a Society of Petroleum Engineers' Distinguished Lecturer for the 2015-2016 year. He also serves on the SPE global committees for training and production awards. He holds a Bachelors and a Masters in Chemical Engineering from the Gujarat University and IIT-Kanpur, India respectively; and a Ph.D. in Petroleum Engineering from the University of Tulsa, USA.



STUDY GROUPS

New Concepts for Drilling and Completion: Leading to Substantial Cost Savings

Donald Fry - 50/50 Energy

📍 Halliburton Downtown Office, 1125 17th St, Suite 1900, Denver, CO

📅 Thursday, October 25, 2018, 11:30 AM - 1:00 PM

[Register Now](#)



Biography: Don currently works as a consulting geophysicist after a 36 year full time career. He worked for Amoco/Crescendo Resources/BP for 24 years, followed by four years with Ward Petroleum, three years with Sandridge Energy, and finally three years with Devon Energy. Don has three degrees, including a Masters in Geology from the University of Tulsa.

Don has worked major basins throughout the US and in several foreign settings. His most recent assignment with Devon was in the Barnett shale play where he began the development of the techniques being shown.

Abstract: Engineers and other Oil and Gas specialists have become increasingly adept in targeting a wide range of reservoirs with extended reach laterals, with overall positive production results. As such the term 'dry hole' is becoming nearly obsolete, and drilling locations in the thousands rest on the books of numerous energy companies. One would think that this status would suggest nothing but a rosy future, both near term and far for the energy sectors.

However, investor expectations, service company and other costs, regulations, and commodity prices in particular continue to weigh heavily on outcomes, such that what appears to be so stable and promising finds itself still to be highly vulnerable to markets and

events. Energy companies have limited control over these above mentioned variables. But in general, if the return on investment can't with certainty remain up, the cost of finding may need a 'step-change' to go substantially down.


One key way to accomplish this is to actually drill wells differently, in particular shorter laterals, but to do so in a unique way that generates additional effective porosity, and then complete these wells with focused methods that take advantage of this induced porosity. As a result one can obtain wells that produce on par with extended length laterals, but at a significantly reduced cost, that is greater than 25%. These methods have been tested, and show not only great promise for new drilling areas, but further for infill and edge drilling as well.


These are 'win-win' recommendations. If commodity prices drop, ROR's can be protected. If prices remain stable or rise, gains are all the more.

YOUNG PROFESSIONALS

Lunch & Learn - Financial Planning 101

Jessica Veitch, Wealth Management Advisor at Northwestern Mutual

 Liberty Oilfield Services, 950 17th St. Suite 2400, Denver

 October 10, 2018, 11:30 AM - 1:00 PM


Lunch will be provided

[Register Now](#)

Abstract: This seminar is for people new to financial planning who want to learn the basics. It breaks finances down into 5 key considerations – Save, Spend, Grow, Protect, Give.


YP Happy Hour


 Terminal Bar - Union Station, 1701 Wynkoop Street

 October 10, 2018, 4:30 PM - 6:00 PM

Join us for a drink and appetizers to catch up and network with friends and colleagues. It's on us!

YP Topgolf Halloween Costume Party

 Topgolf Centennial 10601 E. Easter Ave, Centennial, CO 80112

 October 31, 2018, 6:00 PM

Enjoy 3 hours of Top Golf, drinks, appetizers and prizes with friends and colleagues (non-members are welcome).

[Register Now](#)

Registration Fee: \$25 (professionals), \$15 (students)

Dress Code: Costumes are strongly encouraged!

Transportation: Party bus leaving downtown Denver at 5:10 PM (location TBD).

Sponsorship still available! Spots are limited!



SPE DENVER ANNUAL TENNIS TOURNAMENT

📍 Gates Tennis Center, 3300 E. Bayaud Ave. Denver, CO

📅 October 5, 2018, 11:30 AM - 4:30 PM

Join us for the 2018 Denver SPE Tennis Tournament

[Register Now](#)

All proceeds benefit the Denver SPE Scholarship Fund.

Registration includes: court fees, lunch, refreshments, balls, awesome door prizes and awards.

Fees: \$30 entry fee per registration plus online fees

Sponsorships: We offer three levels of sponsorship donation. Companies donating \$500, \$250 or \$100 will be recognized as Gold, Silver, or Bronze sponsors. The sponsoring companies will be recognized at the tournament and in the SPE Newsletter.

PLEASE REGISTER SOON! Limited to the first 40 entries.

Questions? Reach out to Renee Supplee at (303) 229-4920 or renee.supplee@bhge.com.

COMMUNITY OUTREACH

Do you want to teach young students about energy, serve breakfast at the Denver Rescue Mission, or judge science fairs? Join other SPE members in giving back to our community! If you want to learn more about SPE's outreach activities, please contact Community Outreach Chair, Ellen Scott.

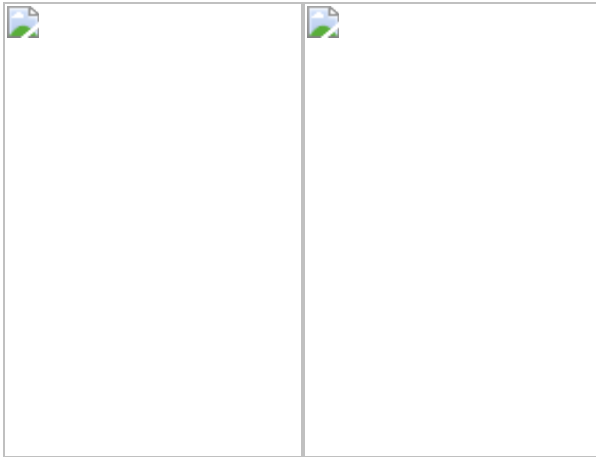
ellen.scott@fractureid.com

SPE Golf Tournament Results

A big thank you to all of the sponsors and participants of our 2018 SPE Golf Tournament. The tournament was held Thursday, August 2nd and Friday August 3rd at The Ridge at Castle Pines. Everyone

had a great time and some incredible golf was played at the scenic course.

Thanks to the sponsors of the tournament listed below. Through their generosity, the tournament was able to raise significant funds for the SPE Scholarship Fund!

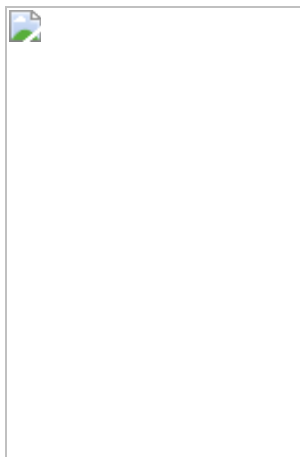


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AND Special Thanks to our food sponsors. Through their hard work and generosity we all ate very well!



Winning Teams were:

Thursday August 2nd PM Flight

1st Place - Gross - Farmer, Altenburg, Meineke, Sanders with a score of 56. 1st Place - Net - Windom, Marshall, Hampton, Pulec

with a score of 60

Friday August 3rd AM Flight

1st Place Gross - Madrid, Hampton, Sinesi, Robinson with a score of 57 (27 on back 9 !!) 1st Place Net - Stender, Eklund, Engbreston, Clickner with a score of 66 (29 on back 9 !!)

Friday August 3rd PM Flight

1st Place Gross - Belden, Greene, Walter, Fisher with a score of 55. 1st Place Net - Henry, Herrin, Foytlyn, Hebert with a score of 65 (31 on Back 9, 19 on last 6 !!)

Thank you to all who participated, we look forward to seeing you again next year.

Todd Elston

Chair – SPE Golf Tournament Committee

Society of Petroleum Engineers - Denver Section

Americas

222 Palisades Creek Dr.
Richardson, TX 75080-2040 USA

Asia Pacific

Level 35, Gardens South Tower
Mid Valley City, Lingkaran Syed Putra
59200 Kuala Lumpur, Malaysia

Europe

1st Floor, Threeways House
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London W1W 5DW UK

Middle East

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