

SPE-DENVER NEWSLETTER

OCT 2022



GENERAL MEETING

Success and Failure Factors for Cyclic Gas Injection in Unconventional Reservoirs

Location

- Denver Athletic Club
 - 1325 Glenarm Pl, Denver, CO 80204

Date

- Wednesday, October 19th, 2022
 - 11:30 AM – 1:00 PM

Speaker

- Tuba Firincioglu
 - Managing Director at NITEC LLC.

EARLY BIRD REGISTRATION CLOSING 10/17 AT 1200

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Session Overview

Unconventional reservoirs through hydraulic fracturing produce higher initial volumes of oil, while the decline rates are very high with low recovery factors. Enhanced oil recovery (EOR) through cyclic gas injection has increased recovery factors in the Eagle Ford. There have also been some unsuccessful attempts. This presentation focuses on the factors that yield a successful cyclic gas injection project with a special emphasis on containment and contact. The challenges of unconventional reservoirs from a reservoir perspective during the application of cyclic gas injection are discussed.

Meet our Speakers



Tuba Firincioglu is the Managing Director at NITEC LLC. Since joining NITEC in 1998 as a Reservoir Engineer, she has focused on applying reservoir engineering technologies to resolve complex reservoir development programs. She has performed or managed over 100 reservoir studies involving dry gas, gas condensate, volatile oil, and black-oil fields, including modeling and designing many conventional and unconventional EOR applications. Her experience covers most geological depositional environments, from fluvial sands to carbonates. Dr. Firincioglu holds a B.S. degree from Istanbul Technical University, an M.S. degree from Stanford University, and a Ph.D. degree from Colorado School of Mines, all in Petroleum Engineering.

COMPLETION STUDY GROUP

Single Use Fiber Analysis on the Effects of Cluster Spacing on Frac Propagation in the Jo Mill and Lower Spraberry

Location

- In-person Meeting:
 - Denver Earth Resources Library
 - 730 17th Street B-1, Denver, CO 80202

Date

- Tuesday, October 25th, 2022
 - 4:00 PM – 6:00 PM

Speaker

- Dugan Hughes
 - Completion Engineer at Ovintiv.

Study Group Overview

To understand the effects of cluster spacing and frac propagation Ovintiv designed an experiment to test 15', 25', and 30' cluster spacing while holding scope constant. Using two monitor wells, one in the Jo Mill and one in the Lower Spraberry, cluster spacing was changed in groups of four to evaluate volume to first response, impact length, and uniformity. High-level observations resulting from the project include:

- Faster propagation at tighter cluster spacing
- Increased uniformity in wells rotated while cementing
- Longer half-lengths in the Jo Mill

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Meet our Speaker



Dugan is a Completion Engineer focusing on projects that enhance stimulation and returns at Ovintiv. Leveraging his previous experience in Production, Drilling, and Reservoir, Dugan works with multiple disciplines to design, execute, and analyze experiments in the Permian Basin. He received his B.S. in Mechanical Engineering and M.B.A. from the University of Wyoming.

YOUNG PROFESSIONAL - LUNCH & LEARN

Acoustic Imaging of Perforation Erosion in Hydraulically Fractured Wells (SPE-199718-MS and SPE-URTEC-2021-5442-MS)

Location

- In-person Meeting:
 - Liberty Oilfield Services
 - 950 17th St Ste 2400, Denver, CO 80202

Date

- Tuesday, October 11th, 2022
 - 11:30 PM – 1:00 PM

Speaker

- Tamara Maxwell
 - Sales Director, DarkVision Technologies.

Study Group Overview

This presentation will discuss using acoustic-based downhole imaging technology to provide a 360-degree view inside various lateral stimulated wells from new completions to refrac wells. Solid-state, high-resolution acoustic imaging technology has been deployed in hydraulically fractured horizontal wells to capture images of perforations and measure the degree of erosion. Instead of optics, imaging technology uses high-frequency sound waves to image a full lateral through opaque fluids at sub-millimetric levels.

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Meet our Speaker



Tamara Maxwell is the Western Region Sales Director for DarkVision Technologies. She has over 15 years of experience within the OFS sector of our industry and holds a Bachelor of Science in Materials Engineering from the Colorado School of Mines. Her experience spans operations, data analysis, and sales focusing on acoustics measurements. As a Petrophysicist, she leveraged acoustic data to build geomechanical models, and as a technical sales engineer, she used the data for casing evaluation. At DarkVision, she continues to focus on acoustics data of the immediate wellbore and apply her refined skillset to a downhole evaluation in well integrity and completion optimization.

YOUNG PROFESSIONAL - EVENT

Top Golf Halloween Party

Location

- In-person Meeting:
 - Topgolf Thornton
 - 16011 Grant St, Thornton, CO 80023

Date

- Thursday, October 27th, 2022
 - 6:00 PM – 9:00 PM

Overview

Come Celebrate Halloween with SPE Young Professionals at our annual Top Golf Halloween Party! This frightfully fantastic takeover for \$35/person includes 3 hours of play, an (optional) party bus seat, delicious appetizers, beer, wine, and hours of fun! Costumes are strongly encouraged!


EARLY BIRD REGISTRATION CLOSES 10/24 AT 1200

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SPE YP TOP GOLF HALLOWEEN PARTY



 **SPE YP**
TOP GOLF HALLOWEEN PARTY

Topgolf Thornton
October 27th 2022
6:00 PM to 9:00 PM

\$35* ticket includes: 3 hours of play, wine/beer tickets, finger foods, optional roundtrip party bus from Union Station, and tons of fun!
Costumes strongly encouraged!

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Sign up n

*Price subject to

COMMUNITY OUTREACH



SPE Serves Breakfast at the Denver Rescue Mission

Location

- Lawrence Street Community Center
 - 2222 Lawrence Street, Denver, CO 80205

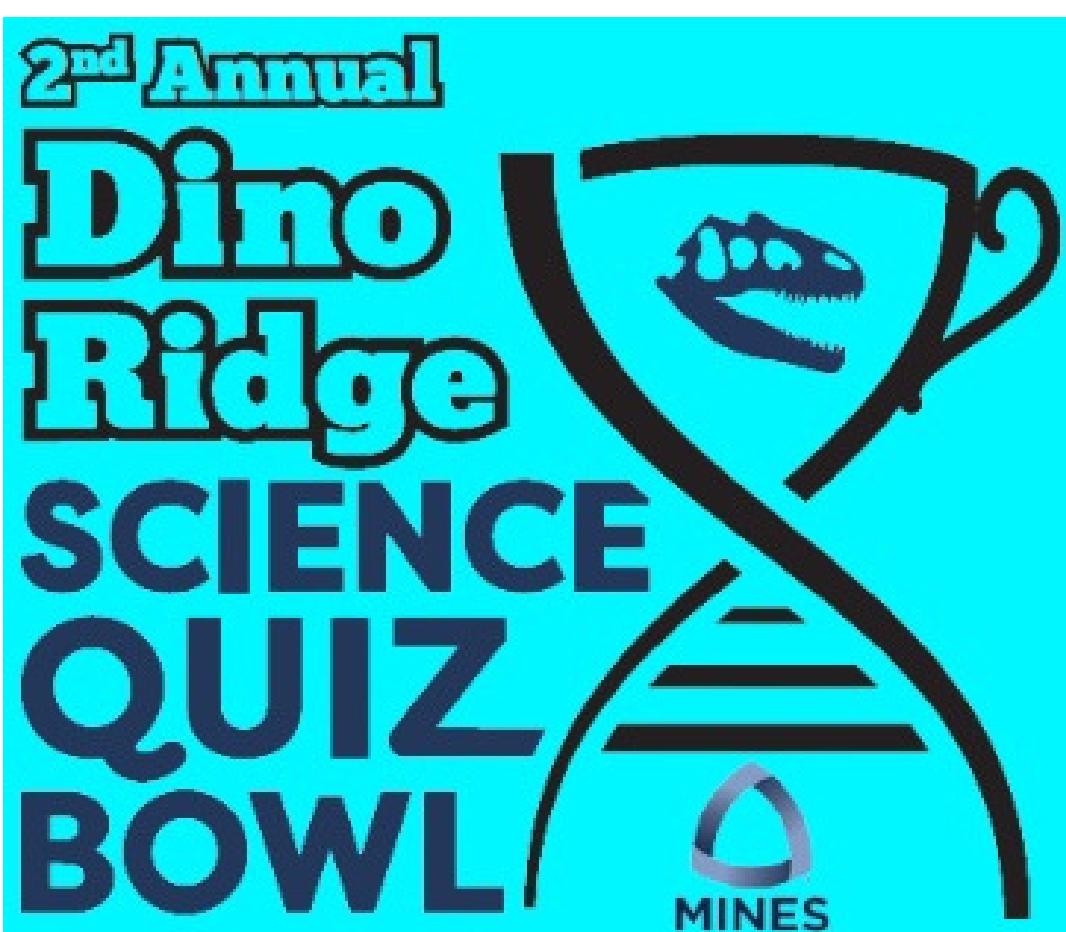
Date

- Tuesday, October 18th, 2022.
- 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. Volunteers must be vaccinated. Masks may be required.

- Please get in touch with community outreach team member **Nico Cosca** for more details!



SPE Volunteer at the Dino Ridge Science Quiz Bowl!

Location

- Market Hall, Colorado School of Mines
- 1500 Illinois St., Golden, CO 80401

Date

- Saturday, November 5th, 2022.
- Time: 1:00 PM - 3:00 PM

Description

Help Organize or run events to benefit Dinosaur Ridge.

- For more information, contact **Bill Savage**, for more details!

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



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ESPECIAL ANNOUNCEMENT

CONGRATULATIONS TO ALL OUR REGIONAL AND SECTION AWARD WINNERS!



Always so great to celebrate the #technical and #volunteer contributions of our members as well as connect with old friends and make new connections. Congratulations to all the Regional and Section award winners who were recognized at our social on Wednesday night!

[Here](#)