

SOCIETY OF PETROLEUM ENGINEERS

Wyoming Petroleum Section
Marron Bingle-Davis, Secretary
P.O. Box 2154
Casper, WY 82602-2154



Section Website for Latest News:
<http://wyoming.spe.org/>

2022-2023 Wyoming Petroleum Section				
Section Chairman	Dave Chase	BLM	261-7685	dchase@blm.gov
Treasurer	Julie Cruse	Consultant	258-6092	juliemcruse@gmail.com
Scholarship Chair	Luke Opitz	True Companies	266-0459	luke.opitz@truecos.com
Program Chairman	Kelly Meyers	Encompass Energy Consulting	266-3199	kelly@encompassenergyconsulting.com
Secretary	Marron Bingle-Davis	Sunshine Valley Petroleum	233-8737	marron@sunshinevalleypetroleum.com
Continuing Education	Vacant			
Membership Chair	Sabrina Hamner	WOGCC	234-7147	sabrina.hamner@wyo.gov

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UPCOMING AREA MEETINGS

WYOMING GEOLOGICAL ASSOCIATION – All in-person meetings at Occasions by Cory. Lunch Buffet served from 11:15 to 12:00 at a cost of \$25.00. Contact the WGA office at 237-0027 or wygeology@gmail.com for more information or to RSVP. Reservations are mandatory and are due **Tuesdays by 5 PM** for that week's talk.

Jan 13, 2023 (SPE): George Norton – Red Bluff Resources LLC – *Optimizing Field Development & Predicting EUR Utilizing Geochemistry*

Jan 20, 2023: TBA

UPCOMING MONTHLY PRESENTATIONS FOR THE SPE WYOMING PETROLEUM SECTION

January 13, 2023 – SPE DL – George Norton – Red Bluff Resources LLC – Optimizing Field Development & Predicting EUR Utilizing Geochemistry

February 2023 – TBA





Society of Petroleum Engineers



Wyoming Petroleum Section January 2023 Newsletter

<http://wyoming.spe.org/>



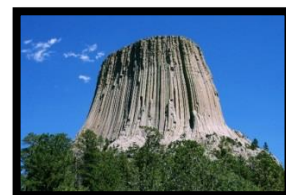
When: **January 13, 2023**

RSVP at

Where: Occasions by Cory

wygeology@gmail.com

Time: 11:15 AM (\$20 for buffet lunch)



Event: **George Norton – Red Bluff Resources LLC –
Optimizing Field Development & Predicting EUR
Utilizing Geochemistry**

BIOGRAPHY:

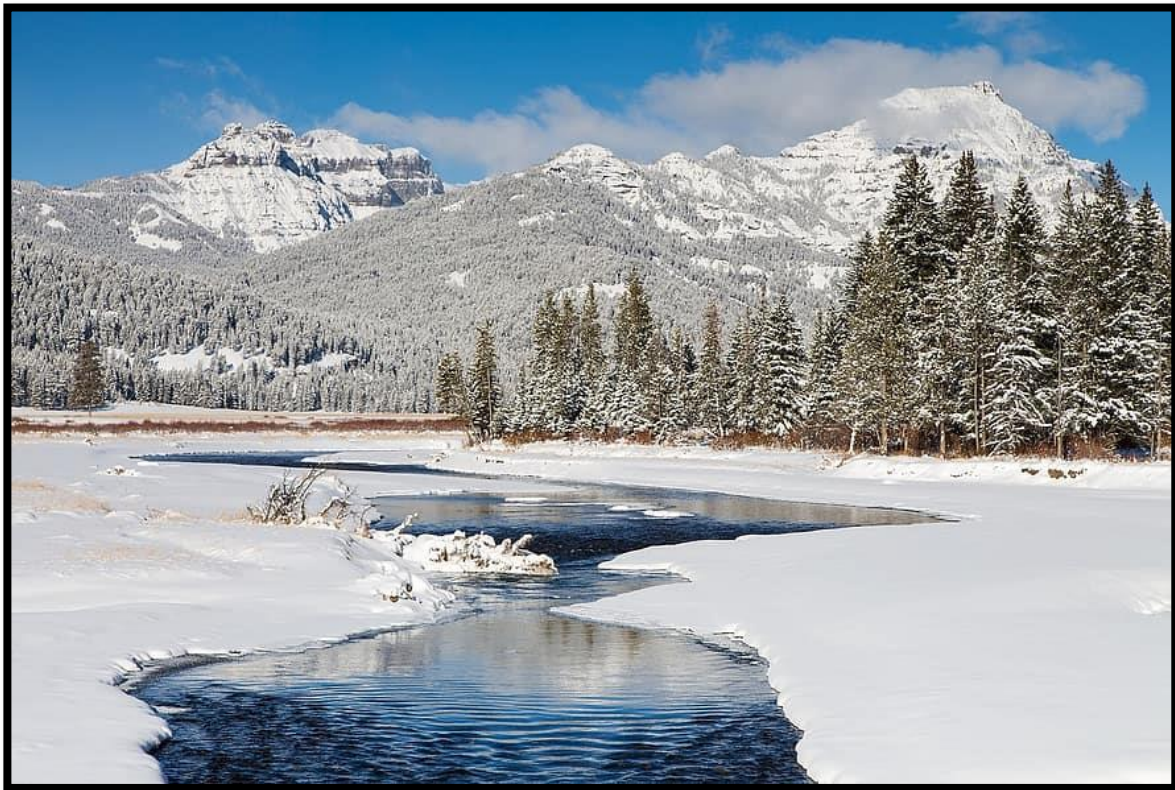
George Norton is a Senior Completions Engineer with Red Bluff Resources and holds a BS in Mechanical Engineering. George is a recipient of the Exemplary Volunteer Award and Outstanding Study Group Award via SPE along with 4 awards from his time at Occidental Petroleum related to innovation, and 1 award at Schlumberger for operational performance. George has worked with multidisciplinary teams focused on new technologies and innovation to understand well performance. George has chaired sessions for URTeC, currently serves as the Oklahoma City Education Chair/ 2022 Section Chair Elect, has organized SPE workshops, and presented multiple times at various conferences.



ABSTRACT:

Field development strategies have been variable in many basins due to the unpredictability of well performance, spacing implications, and parent/child well interactions. Oil in place, reservoir thickness and porosity have been used for mapping efforts to increase the likelihood of drilling in the most desirable locations for years with limited success. Using a data analytics approach in conjunction with a state-of-the-art geochemical drainage analysis, a new strategy for appraisal and development can be formulated and key areas identified with limited amounts of new drilling activity. Combining the geochemistry data which identifies the specific regions that are contributing with basic vertical logs from historical wells and applying multi-variant analysis techniques to those specific drained regions, it is possible to identify which variables lead to correlations to EUR (expected ultimate recovery). Once EUR can be predicted in a stand-alone well, it is then possible to further evaluate spacing implications (vertically or horizontally), and accurately measure the percentage of degradation and communication. Combining this information is possible utilizing a RQI (reservoir quality index) and generating a contour map of the RQI allows the user to predict with ~75%+ accuracy the EUR of potential wells. This significantly aids in land evaluation, development planning, well spacing, and economic prediction.

SPE members should take away a new approach for utilizing geochemistry data in conjunction with conventional log data and data analytics not for purely just a drainage analysis, but a field development and EUR predicting method that is able to be mapped with accuracy previously unavailable.



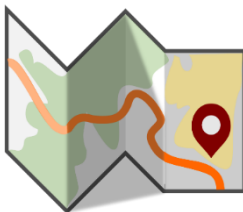


CALENDAR OF EVENTS and NEWS WYOMING PETROLEUM SECTION



Due to our excellent participation in past continuing education events, we will continue to offer these as they become available. Our web address is <http://wyoming.spe.org>

The SPE Wyoming Petroleum Section has sent out letters requesting scholarship sponsors for the 2023 year. Please consider helping out these deserving students in their academic pursuits. Scholarships will be awarded in the Spring of 2023. If you need further information please contact Sabrina Hamner at: sabrina.hamner@wyo.gov



All in-person meetings unless otherwise noted will be held at the Occasions by Cory.

**OCCASIONS BY CORY
303 S. WOLCOTT ST.
CASPER, WY 82601**



2022-2023 SCHOLARSHIP RECIPIENTS

Andrea Comer – University of Wyoming

Tatiana Lubashkina – University of Wyoming

Elaina Soellner – University of Wyoming

Nicholas Bryan – Colorado School of Mines

Nathan Wasylowich – Montana Tech

Brady Weber – Montana Tech

TOTAL AMOUNT AWARDED: \$6,500

GREAT JOB – KEEP UP THE GOOD WORK!!