

JANUARY 2021 | THE UNIVERSITY OF TEXAS

UT SOCIETY OF PETROLEUM ENGINEERS

NEW YEAR, NEW OPPORTUNITIES



SPRING 2021

The end of a unforeseeable year, looking ahead to the future, and continuing to offer amazing virtual experiences

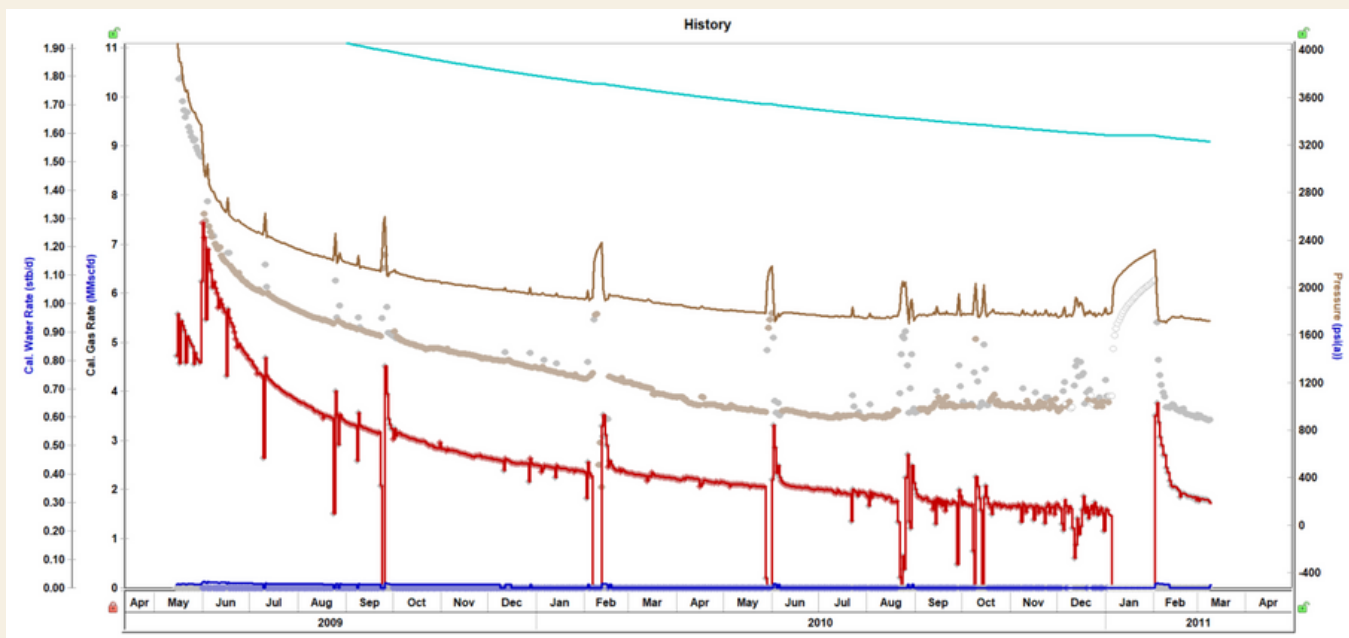
2020 was described as an unprecedented year with many ups and downs. Entering 2021, many things have not changed. Virtual environments will continue to dominate our chapter this semester. Some students have found the change challenging, but it opened up new opportunities for members. Improvements in virtual communication and software allowed for two certification programs to be offered remotely over winter break. With vaccine distribution beginning on campus, we will continue to follow social distancing guidelines and keep the safety of members our top priority. Happy New Year engineers and Hook'em Horns!

INSIDE THE JANUARY 2021 NEWSLETTER

Winter Break Certification Programs - 02 and 03

Girl Day and Expo - 04

GM #8 with Pioneer President and CEO - 05



DATA ANALYSIS: IHS MARKIT HARMONY ENTERPRISE VIRTUAL WORKSHOP

Growing skill set and knowledge about industry over winter break

Over three weeks, students had the opportunity to become certified in two Harmony Enterprise Systems: Forecast and Reservoir. IHS Markit, an information and analytic company, hosted the certification process. Students were given licenses and real world data to understand the software and what they might encounter in the job force. Informative pre-recorded videos taught how to use the software engine and understand many data analytic concepts. This allowed for students in different time zones due to the pandemic to still be able to participate. To complete the process, two projects and a one-on-one session with an instructor to showcase knowledge and execution were needed. In total, **28 students completed both certifications.**

Harmony Forecast allows for multi-well data to be analyzed, sorted, and understood. Decline curve analysis could be created to predict a forecast trend of a well. Type wells could be created to understand a multitude of different well data and analyze the prospect of creating a new well in the same area. For instance, students were asked to drill a new well in a low GOR area and predict the rate of return of the well.

Harmony Reservoir utilized well data to understand the value and aspects of a surrounding reservoir. Qualitative interpretation was key to creating a proper numerical model and understanding the flow regime. This analysis was key to understanding the payoff of a reservoir and additional properties.

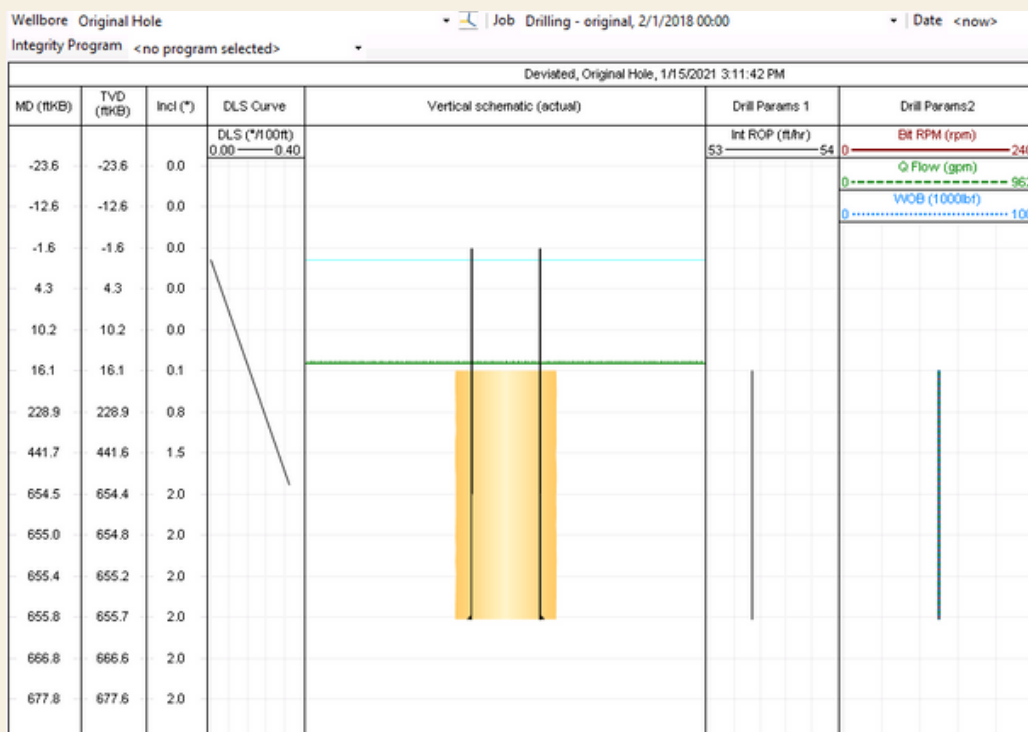
PELTON PLATFORM: WELL DATA LIFECYCLE TRAINING COURSE

A one day course on a widely used drilling data manager

During the Friday before the second semester began, **25 students** participated in a 6 hour workshop with the oil and gas software company: Peloton. Each student was designated their own well in the Peloton training environment via an online portal. Students learned what the data meant and also workflows that occur in industry. Lice presenters guided students via an online video conference service alongside a provided instructional pdf.

Students first learned how to utilize the system and access data reports and well sorting. With their provided well, students set up the daily job and operations of a singular well. Manually entering the data initially made later processes easier as the system would recognize categories and store them in a database for future use. An important part of the process was understanding how well strings worked and if a mistake was made.

By the end of the day, all participants could view a generated model of the well as well as the building process virtually. Each student received a physical certification certificate in the mail.



UT AUSTIN GIRL DAY

Saturday, February 20th

With a majority of classes and events moving to a virtual environment, Girl Day will take place on the platform Brazen and span 10 days. As there are typically around 10,000 participants who travel to Austin, every year, UT SPE wants to help create connections between our members and teach the next generation of engineers. Members will be volunteering and explaining to young students about petroleum engineering through "Twinkie Coring". This activity will be easy for parents to gather supplies for and to clean up as well. Many members are staying at home, so a virtual volunteering event will help members stay connected and give back to the community at the same time.



SPRING EXPO

Virtual Career Fair

Similar to the fall semester, the annual engineering career fair will be completely virtual. The expo will occur **February 3rd and 4th** and currently has 92 employers attending. Students must register via ECAC (Engineering Career Assistance Center) to attend.

Make sure to prepare your resume and industry knowledge beforehand. Follow the ECAC Pathways guide to help you prepare. Remember, this is **not** on career eco like the fall, so make sure you watch the tutorial video before attending.



INDUSTRY UPDATE



Many students still worry about the future of PGE. For our first general meeting of the spring. **CEO and President of Pioneer Natural Resources, Scott Sheffield**, gave an industry update. He first clarified the importance of maintaining a good balance sheet and that was why Pioneer was doing very well as a company lately. What calmed many students was hearing that oil will still be needed for multiple years to come due to energy demand. Some processes might change however, such as exporting natural gas due to the growing world population and demand for energy. We thank Mr. Sheffield for sharing his vast industry knowledge with our chapter members.

UPCOMING EVENTS

Technical Talk #3 Mark Murray Feb 3rd

Spring Expo Feb 3rd and 4th

Jeopardy Night! Feb 17th

GM #9 Ameredev March 3rd

