**General Section Meeting**

**Topic**

**Novel In Situ Characterization of Heavy Oil Integrating NMR and Dielectric Logs**

**Speaker:** Nick Heaton, Schlumberger

**Date:** Thursday, January 17, 2013 @ 11:30 AM

**Location:** The Petroleum Club, 12th Floor, 5060 California Avenue, Bakersfield

**Cost:**
- With online payment or RSVP: $20 members, $25 non-members
- Walk-ins: $25 members, $30 non-members

**Reservations:** RSVP by Tuesday morning January 15th, using one of the three options:

- Using the corresponding link below to pay online using your Visa, MasterCard, American Express, Discover or PayPal account:
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  - **PayPal Link for Non-SPE Members** - $25

- OR if the above links don’t work copy these links in your browser’s address box

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  Email Jesse Frederick at [pamelaw@wziinc.com](mailto:pamelaw@wziinc.com), Call (661) 326-1112

**ABSTRACT:**

The choice of production technologies for heavy oil reservoirs hinges on robust determination of both hydrocarbon volume and viscosity. Lateral and vertical disposition of hydrocarbon as well as variations in oil properties must be quantified along with their associated uncertainties for optimizing production strategies.
(continued from previous page)

A new approach to the characterization of heavy oil reservoirs is presented, integrating nuclear magnetic resonance (NMR) with dielectric dispersion measurements and conventional nuclear porosity logs in a single self-consistent workflow that provides reliable fluid saturation and oil viscosity. The complementary information content and commensurate sensitive volumes of dielectric and NMR logging tools make these measurements natural choices for heavy oil evaluation. Whereas conventional resistivity-based analysis may be challenged by the fresh or variable salinity formation water in many heavy oil reservoirs, dielectric logs provide robust saturations even in freshwater environments.

The method builds on recent advances in NMR viscosity estimation techniques that enable accurate viscosity determination for crude oils with viscosities ranging from tens to millions of centipoise. NMR diffusion measurements as well as relaxation time distributions can be incorporated in the analysis. The method is valid for any NMR acquisition sequence, tool design, or conveyance method and ensures that radial as well as axial responses of the respective measurements are properly considered. Monte Carlo sampling is used to derive uncertainties on fluid volumes and viscosities, which can be fed in decision-making processes that rely on these quantities. Although particular attention is paid to the integration of wireline NMR, and dielectric measurements, the method is quite general and may be adapted to conventional resistivity measurements in place of dielectric logs and LWD in place of wireline logs.

Examples are presented that demonstrate the application of the method in a range of very different heavy oil reservoirs. Results are compared with core and fluid sample measurements where available.

SPEAKER:

Nick Heaton received his BSc in chemistry from the University of Leeds, U.K. in 1983 and a PhD in chemical physics from the University of Southampton, U.K. in 1987. He then worked in NMR research at the University of California at San Diego and the University of Stuttgart, Germany, before joining Schlumberger in 1998 at the Sugar Land Product Center as NMR specialist. In 2004 he moved back to Europe, where he held marketing and product development positions. Nick is currently manager of NMR interpretation program in the Schlumberger Houston Formation Evaluation Center.
Happy New Year,

As we enter 2013 I wanted to share some thoughts. Our opportunities to find and provide new sources of energy to help fuel the new economy will consume more time than we anticipate. It is imperative that we take a little time to share time and thoughts with our colleagues. This new era like many of the past historic periods in E&P will be marked by technological advancement and will be coupled with regulatory factors that must be carefully considered and addressed in a manner that reflects our commitment to stewardship. I am certain that as committed professionals we will meet these challenges to discover, promote and safely produce the hydrocarbons that feed our standard of living and that we will do this with an eye to the future of our progeny.

Times change but professionals don’t, guilds and societies help us to improve our skills and keep pace with changes. Today, we are connected globally by the modern marvel of the internet; professionally we remain connected by the age old relationship of our society. The San Joaquin Valley Chapter of SPE looks forward to serving you and in the next year and to the pleasure of sharing of our achievements and camaraderie.

Jesse Frederick
Program Chair
Ksenia Eliseeva, SPE, is district technical engineer for Schlumberger’s Pressure Pumping Services in California. Ksenia has worked in the industry since 2004 with the experience ranging from Research & Development to Operations roles in Russia and United States. Her areas of interest include well cementing, hydraulic fracturing and matrix acidizing design and evaluation. Ksenia has been an SPE member since 2004 and is a co-author of four SPE papers and four patent applications. She serves on the SPE SJV Board since 2012.

PROFESSIONAL SPOTLIGHT

LARRY MILLER

Larry Miller is District Manager of Halliburton for the West Coast. Larry has 37 years of experience, all of them with Halliburton. He started with Halliburton in Abilene, Texas as a Cement Operator, then was transferred overseas to Aberdeen, Scotland to work as a Multi Service Operator on a variety of rigs in the North Sea. There he met his wife, Jill, to whom he is still madly in love with today. From there, he went to Palestine, Texas (his most foreign assignment); Piacenza, Italy; Syracuse, Sicily; Den Haag, Netherlands; and Milano, Italy, all in engineering roles with Halliburton. In 1990, Larry was transferred to Bakersfield where he took on a technical sales role and tried to learn golf. He moved on from the technical sales role to operations management, but never quite moved on in his golf game as well. Larry has been an active SPE member since 1982, and joined the local SJV board in 2005. He is our current Awards Director and will have served 8 fun years on the board. Under Larry’s command as a Board Chairman SJV SPE section has received prestigious SPE President’s award in 2012. Larry holds a BA degree with a major in Geology from the University of California at Berkeley, and is a staunch supporter of his alma mater both culturally and athletically. He is a proud card holding member of the SCGA (Southern California Golf Association) and holds a 20.6 Handicap Index.

SPE SJV: What is your primary task as a District manager of Halliburton for West Coast?

LM: My primary task is to run Halliburton’s organization on the West coast. We have 8 different product lines and I am making sure the business runs smoothly and our support functions work in line with our operations. I am the guy who needs to pull everybody together and keep the peace.

SPE SJV: 37 years with one Service Company! How did you manage to stay with one employer for so many years and why?

LM: The fact that it was a service company opened up so many different avenues for my career: operations, sales, support, management, technology, and more! There are so many various facets of the service industry, that over the 37 years I tried to explore them all. It’s almost like a new job.

(continued on next page)
Every time you make a change in service company business – it’s fresh, it’s rewarding! What was even more rewarding to me is international experience. I got to go overseas, I met my wife, and all my children were born overseas. Halliburton always treated me well. Looking back - it was a great way to spend 37 years. That’s why I stayed.

**SPE SJV:** What was the most interesting assignment for you in your Halliburton career?

**LM:** I was assigned a blow-out project in Sumatra, Indonesia. I stayed in the middle of the jungle for 4 months with nobody else, but me in the area. Only gorillas and lots of other wild animals were walking around. It was exciting, because it was a place that I would have never had an opportunity to go to, not on vacation, not even for work other than for that particular project. Without a doubt this is one of the biggest memories I’ve ever had.

**SPE SJV:** Oilfield industry is a tough place to work: long hours, difficult environment, dynamic schedule. What is the key for successful career in our business from your perspective?

**LM:** The key for success is patience, both from you and your family, and it takes a sense of drive to improve the service. You have to have an attachment to the service that you are providing to continually improve. I personally want to leave Halliburton in a better position than when I joined it.

**SPE SJV:** What are the biggest challenges service companies facing right now?

**LM:** Keeping motivated and knowledgeable employees is a huge challenge. Handling peaks and valleys of our business is difficult too. Both retention and these ups and downs make it very challenging to continue delivering top quality service to our customers.

**SPE SJV:** With all the positive things that oilfield industry contributes into national and global economy, why do you think there is so much negative public perception of oil and gas business and how can we change it?

**LM:** It is all because of poor publicity. Education of the public without a doubt is the #1 challenge, because people are afraid of the unknown, and politics unfortunately drives fear sometimes. Education of people is really the only answer to eliminate fear pressure. In addition to that I think all service companies are making very smart political moves by offering environmentally friendly chemicals and it helps as well. Hydraulic fracturing in particular, is getting a bad reputation because of the movies like Gasland, that misinforms uneducated people. But it’s going to take hydraulic fracturing to drive the energy policy of the US. If we can’t hydraulically fracture the shale, than our long-term goals as a country for energy independence will never be reached.

**SPE SJV:** You have been playing golf since 1990. Does golf make you better at your day job?

**LM:** Golfing doesn’t make me better at my day job, because it takes away from my day job! [laughing] What’s great about golf though is that I find out a lot about not only my own character but other people’s characters as well. Business golf is super valuable, because you learn how other people react and handle certain situation and it definitely helps the relationships of the day job.
SPE Subsurface Study Group Lunch

“Assessment of Remaining Recoverable Oil in Selected Major Oil Fields of San Joaquin Basin, California”

Lynn Tennyson earned her A.B. in Geology at Middlebury College and Ph.D. in Geological Sciences at the University of Washington. She taught geology at Whittier College (CA) and Carleton College (MN), then worked for Phillips Petroleum Company in Bartlesville, Oklahoma, and Denver, Colorado. Since 1989 she has been with the U.S. Geological Survey in Denver, where she has conducted oil and gas resource assessments and related studies in western U.S. and Canada. She is a member of the American Association of Petroleum Geologists and the Society of Petroleum Engineers.

In her presentation on the San Joaquin Basin, she indicated 8 billion barrels of oil were added to reserves in existing fields from 1965 to 2005, 9 fields were evaluated. USGS estimated that they could yield an additional 3 to 10 billion barrels using existing technology, although projects to recover the oil may not be currently economic. Growth will continue from thermal recovery of low-gravity oil, expansion of fracturing, waterfloods, and thermal projects to recover oil from diatomites, and possibly CO₂ floods in deep sandstone reservoirs.

You can get a copy of the USGS Reserve Growth Assessment fact sheet from:

SJV SPE Continuing Education Courses Coming Up

Jan. 23, 2013  **SPE – Coiled Tubing and Its Applications**
(8:00 am – 5:00 pm); $750
University of Phoenix, Bakersfield

Feb. 19-21, 2013  **Log Applications for Fracturing – Including Shaley Sand Analysis**
(8:00 am – 4:30 pm); $2300 for SPE members, $2400 for non-members
University of Phoenix, Bakersfield

Mar. 11-12, 2013  **ASME PD583 Pressure Relief Devices: Design, Sizing, Construction, Inspection and Maintenance**
(8:00 am – 5:00 pm); $1150 for SPE members, $1250 for non-members
University of Phoenix, Bakersfield
SJV SPE Continuing Education

Coiled Tubing and Its Applications

Instructor: Ed Smalley

Date: January 23, 2013 (8:00 am to 5:00 pm)
Location: University of Phoenix, 4900 California Ave, Bakersfield, California.

Announcement:
SJVSPE is proudly offering *Coil Tubing and Its Applications*. This 1-day course presents an introduction to coiled tubing (CT) as a tool for workover, drilling, and completions. It provides an overview of conventional CT applications, the properties of CT, its manufacture, surface equipment and subsurface tools. 0.8 CEUs (Continuing Education Units) awarded for this 1-day course.

Questions:
Please call Terry L. Kloth @ 661-398-5952 (office); 661-342-1068 (mobile) or e-mail TLKB@pge.com if you have questions or need additional information.

Payment & Cost:
Payment can be made by check at the door on the first day of class (RSVP in advance by e-mail) or register & pay with a credit card via the SPE link (below). The price of this course is $750. A morning and afternoon snack and cold and hot drinks are included. Please note lunch is not included in this price. For more details, please contact us at trainingcourses@spe.org.

RSVP & SPE Payment Link: [http://www.spe.org/training/courses/CTU.php](http://www.spe.org/training/courses/CTU.php)

Target Audience:
This introductory course is appropriate for those who are new to coiled tubing, and for anyone who would like to refresh or expand their knowledge.

Description:
This 1-day course presents an introduction to coiled tubing (CT) as a tool for workover, drilling, and completions. It provides an overview of conventional CT applications, the properties of CT, its manufacture, surface equipment and subsurface tools. A significant portion of the course covers mechanical performance, including working limits, buckling, lockup and fatigue. There will also be a discussion of drilling technology and hydraulics.

Instructor:
**Ed Smalley** has more than 30 years of oilfield experience, including new product development, field operations, sales and management. His expertise includes coiled tubing, formation evaluation, coalbed methane, hydraulic fracturing and the commercialization of emerging technology. Smalley began his career with Schlumberger and held various positions in sales and operations. He later joined the Gas Technology Institute, where as director of E&P business development he spearheaded the commercial launch of more than 60 new E&P products. Smalley is currently the general manager of National Oilwell Varco’s Coiled Tubing Equipment Services (NOV CTES) in Conroe, TX. Smalley holds a BS in Engineering from Kansas State
Log Applications for Fracturing – Including Shaley Sand Analysis

Instructor: Mr. Gary Batcheller, GWB Consultants
Date: February 19 - 21, 2013 (8:00 am to 4:30 pm)
Location: University of Phoenix, 4900 California Ave, Bakersfield, California.

Description:
This 3-Day workshop will use an Excel spreadsheet to analyze logs in shaley sands. Once zones of interest are analyzed fracture modeling inputs are determined using logs. Then a fracture optimization process of perforating and staging is discussed based upon reservoir analysis and rock properties. Finally the effectiveness of staging fractures and perforating will be reviewed using temperature and/or tracer surveys. Bring your computer to use Excel spreadsheets for log assessment and rock property determination. The workshop will include:

- Gamma Ray Logs – Lithology and Clay Indicator
- Neutron, Density and Photoelectric – Lithology, Porosity and Stress Layering
- Resistivity – Water Saturation and Producible Water
- Shaley Sand Analysis using Excel with Bulk Volume Water Applications
- Gas and shale effects on logs
- Development of a Permeability Profile
- Introduction to Nuclear Magnetic Resonance Logs – BV I and Movable Fluids
- The Role of Stress and Finding Stress Direction
- Estimating a In-Situ Stress Profile
- Building Profiles for 3-D Models
- Evaluating Fracture Effectiveness with Production Logs, Tracers and Temperature Surveys

Questions:
Please call Terry L. Kloth @ 661-398-5952 (office); 661-342-1068 (mobile) or e-mail TLKB@pge.com if you have questions or need additional information.

Payment & Cost:
Payment can be made by check at the door on the first day of class (RSVP in advance by e-mail) or register & pay with a credit card via the PayPal Website (below). The price of this course is $2,300 for members and $2,400 for non-members. A morning and afternoon snack and cold and hot drinks are included. Please note lunch is not included in this price.

Member Paypal Payment Link: https://www.paypal.com/cgi-bin/webscr?cmd=_s-xclick&hosted_button_id=57GNEMZU58ABE
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RSVP: Please RSVP to pamelaw@wziinc.com

Target Audience:
All industry professionals who are involved in fracture design, application and the resulting evaluation. Both technical and none technical personnel have benefited from techniques presented in this workshop. A familiarity with Excel spreadsheet application is not required but will be beneficial. A complete workbook and actual log examples will be provided to help the student to understand the uses of logs for fracturing applications. Practical exercise will enable learning these techniques easily and make better decisions affecting ultimate production. Over 1200 personnel in the industry have learned how to apply these techniques.

Instructor:
Mr. Gary Batcheller has operated GWB Consultants, a technical training and services firm in Oklahoma City since 1989. He was employed for 18 years at Schlumberger Well Services, and held various positions including a training coordinator. Mr. Batcheller has held log workshops for the Society of Petroleum Engineers and over 250 companies worldwide and authored two papers on the evaluation of lightweight cement one on finding low resistivity pay in air holes. He holds a BSc degree in Physics from Texas Technological University and is a member of SPE, API, SPWLA. He received two SPE service awards.
SJV SPE Continuing Education

ASME PD583 Pressure Relief Devices: Design, Sizing, Construction, Inspection and Maintenance

Instructor: Mr. Mohammad A. Malek, PH.D., P.E.

Date: March 11, 2013 – March 12, 2013 (8:00 am to 5:00 pm)
Location: University of Phoenix, 4900 California, Ave, Bakersfield, California.

Announcement:
SJVSPE is proudly sponsoring the ASME Course – PD583- This is an intensive two day course which explains the Design, Sizing, Construction, Inspection, and Maintenance of Pressure Relief Devices.

Questions:
Please call Terry L. Kloth @ 661-398-5952 (office); 661-342-1068 (mobile) or e-mail TLKB@pge.com if you have questions or need additional information.

Payment & Cost:
Payment can be made by check at the door on the first day of class (RSVP in advance by e-mail) or register & pay with a credit card via PayPal (below). The course is limited to 35 students. The price of this course for SPE members is $1,150 and for non – SPE members the cost is $1,250 per person. A morning and afternoon snack and cold and hot drinks are included. Please note lunch is not included in this price. Course books /notebooks will be provided.

Member PayPal Link: https://www.paypal.com/cgi-bin/webscr?cmd=_s-xclick&hosted_button_id=EANJJY7FFZCSU
Non-Member PayPal Link: https://www.paypal.com/cgi-bin/webscr?cmd=_s-xclick&hosted_button_id=XBXGD66U87PQ2

RSVP: Please RSVP to pamela@wziinc.com

Target Audience:
Facility Engineers, Facility Engineering Supervisors, Construction Engineers and Supervision, Engineering Piping Engineers, Designers, Project Engineers, Project Managers, Operation / Reliability Engineers, Safety Representatives Operating Foremen should attend who need or would like a greater understanding of Pressure Relief Devices.

Description:
Possibly the most important single safety device on a boiler, oilfield steam generator, or pressure vessel the pressure relief device is all that stands between overpressure conditions and catastrophic explosions. This comprehensive review of the design, construction, installation, operation, inspection and maintenance of pressure relieving devices currently in use on boilers, oilfield steam generators, and pressure vessels details how to protect pressurized equipment from exceeding the maximum allowable working pressure. The focus of the seminar is to enhance the attendees’ understanding and application of the Design, Sizing, Construction Inspection, the maintenance of Pressure Relief Devices.

(continued on next page)
"ASME PD583 Pressure Relief Devices: Design, Sizing, Construction, Inspection and Maintenance"

(continued from previous page)

Outline:

The code requirements for pressure relief devices are covered by the following ASME Boiler and Pressure Vessel Codes:

- ASME Section I - Power Boilers
- ASME Section III - Nuclear Systems
- ASME Section IV - Heating Boilers
- ASME Section VIII, Div. 1 – Pressure Vessels
- ASME Section XII - Transport Tanks
- ASME B31.1 - Power piping
- ASME B31.3 - Process Piping
- ASME B31.8 Gas Transmission & Distribution Piping Systems
- ASME B31.4 Pipeline Transportation Systems for Hydro Carbon & other liquids

You Will Learn:

- Code requirements for pressure relief devices covered by the ASME Boiler and pressure Vessel Code.
- API RP -520 Part I, Sizing and Selection of Pressure Relieving Devices, and API RP 520 Part-2,
- Installation of Pressure Relief Devices
- Construction and installation
- Testing and testing facilities
- Records and maintenance and VR (valve repair) certification program.

Instructor:

Happy New Year!

It is time for the SPE SJV Section Monthly Networking Bash.

The January Sponsor is the SPE SJV Chapter.

Thursday, January 31st, 2013
5:30-7:30 @
Lengthwise Brewery “The Pub” - Northwest
2900 Calloway Drive

SPE Networking bashes are held monthly as a service to our members. This is a great opportunity to come out and meet people from all areas of our industry in a social setting. Our sponsor generously provides appetizers for your enjoyment while you are meeting new people or visiting with a long time colleague.

Non-member guests are always welcome to attend.

RSVP to Tara Butler @ tbutler@enovaes.com or 661-319-4022
The San Joaquin Valley SPE & SPE Young Professionals would like to thank WZI, Inc. for sponsoring our December Toys for Tots Networking Bash!

SPE Networking bashes are held monthly as a service to our members and are great opportunities to come out and meet people from all areas of our industry in a social setting. Our sponsor generously provides appetizers for your enjoyment while you are meeting new people or visiting with a long time colleague.

We are always looking for companies or individuals that would like to sponsor this event. For additional information please contact Tara Butler @ tbutler@enovaes.com or 661-319-4022.

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- Process Safety Management
- Contractor & Construction Safety
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- Program Development & Implementation

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2012 SPE Golf Tournament
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To All of our Generous Sponsors in 2012,

On behalf of the Society of Petroleum Engineers, the golf committee wishes to thank you again for your valued sponsorship of our tournament held on March 23rd, 2012. This year we were able to raise close to $16,000 for our scholarship program. This was a significant contribution to the $50,000 total we will be giving out to local college students in June from our community, who will be our future in the oil industry. Without your participation, this would not be possible.

Thank You for Your Sponsorship,

The 2012 SPE Golf Committee

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