August 15, 2013 General Section Meeting

The Challenges of Full Field Implementation of Fiber-Optic DTS for Monitoring Injection Profile in Belridge Field, California

Speaker: Mahmood Rahman, Aera Energy, LLC
Date: Thursday, August 15 @ 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 August 13th, using one of the three options:
Using the corresponding link below to pay online using your Visa, MasterCard, American Express, Discover or PayPal account:
PayPal Link for SPE Members - $20
PayPal Link for SPE Non-Members - $25
OR if the above links don’t work copy these links in your browser’s address box
Members SJVSPE August 15th GSM - MEMBERS
https://www.paypal.com/cgi-bin/webscr?cmd=_s-xclick&hosted_button_id=ZZZVQVU25MN84
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https://www.paypal.com/cgi-bin/webscr?cmd=_s-xclick&hosted_button_id=XPQ783Y9EGN2
OR Email Blythe Miron bmmiron@aeraenergy.com
Call (661) 665-5407
Walk-ins and attendees with email/phone RSVP must pay by cash at the door. Sorry, no credit cards accepted at the door. RSVP no shows may be billed.

PLEASE NOTE: Thanks to Neil Malpiede (Editor) & Ksenia Elisseva (Asst. Editor) for their service!

Editor & Asst. Editor:

Thomas J. Hampton
TJHampton@AeraEnergy.com

Mojtaba Ardali
Mojtaba_Ardali@Oxy.com
The Challenges of Full Field Implementation of Fiber-Optic DTS for Monitoring Injection Profile in Belridge Field, California

Abstract

The Diatomite reservoir at the giant Belridge field, California, has been undergoing water injection for pressure maintenance to mitigate reservoir compaction and improve oil recovery. Accurate placement of injection water across this 1500 feet thick reservoir is essential for balancing voidage and reducing in-situ compaction. However, monitoring injection profile using conventional Radio-Active Tracer (RAT) technology has been a challenge due to the inability to access wellbores for logging because of scale buildups and casing deformations.

Field tests with Fiber-Optic Distributed Temperature Sensing (DTS) confirmed that the technology had the potential to replace the RAT for continuous monitoring of injection profile. However, moving from a successful pilot to full field implementation faced numerous challenges both technical and economic.

To begin with, the wellbore had to be free of any restrictions for logging, stimulation, or workover activities. This meant that the fiber needed to be deployed outside the casing and cemented in place without creating a micro-annulus. The fiber and its control line also had to be installed in a way that would permit perforation for completion without damaging the fiber. Another installation challenge was to pull the control line and fiber through the wellhead mandrel, and secure the fiber from damage during rig move-out, and installation of the well-head and injection manifold.

After these technical challenges were overcome, the operational challenge was how to make the whole installation procedure simple and fast enough to be integrated into Aera’s lean manufacturing style of drilling process that takes less than three days to complete a well from spud to rig release.

After resolving the technical and operational issues, the remaining and bigger challenge was how to make the acquisition and interpretation of this new DTS technology for monitoring injection profile cheap enough to be incorporated in a “low-cost” environment. With the potential for hundreds of injectors to be surveyed and analyzed each year, the cost breakthrough came when Aera decided to acquire its own profile surveys and develop its own software for processing and interpreting the data.

A five-well permanent installation pilot followed by a 30-well survey acquisition program, and eventual development of data processing/interpretation software were successful in meeting the technical and economic challenges. The injection profiles from over 100 injection strings with DTS fibers are now being routinely surveyed and the interpreted results are being pro-actively used for waterflood surveillance and optimization. A 60-well per year program is currently in progress with plans for continued expansion in future years.

This paper shows how innovative ideas and persistence can overcome technical and economic hurdles that often make new technologies unfeasible for old fields. The learnings from this project have potential application in converting low-cost brown fields to the digital oil fields of the future.

Biography

Mahmood Rahman is a senior staff reservoir engineer with Aera Energy LLC. He started his career with Royal Dutch Shell in 1968. In 1975, he transferred to Shell Oil Co. working on lease sale evaluations and development & surveillance of West Coast and Alaska fields. Between 1980 and 1998, he worked for Saudi Aramco as a petroleum engineering consultant. He has extensive experience in waterflooding, and development of fractured and unconventional reservoirs. He pioneered the application of fiber-optic Distributed Temperature Sensing in Belridge Diatomite waterflood.
Welcome back one and all to the start of the 2014/2015 SPE calendar of activities. For those of you who took the opportunity to enjoy a well deserved summer vacation (parents with kids really appreciate this time), I certainly hope that summer vacations were awesome and that you are ready to put your shoulder into the next year.

We will endeavor to find interesting topics for the General Section Meetings, and Behrooz Fattahi has been gracious enough to provide an interesting suggestion for topic that is off the “beaten path” – “Extraterrestrial drilling”. Blythe Miron is always interested in finding the next topic of interest for our members. Of course, Terry Kloth will continue to focus on core continuing education courses which help engineers hone their skills. Tarang Lal will be arranging the Young Professionals activities, feel free to contact him if you are a YP looking for an opportunity to meet fellow professionals.

Hopefully we will see a student chapter emerge at California State University Bakersfield and I would encourage all companies to provide whatever support they can.

As we go forward this year I want to encourage participation if in the SPE conferences that are scheduled throughout the year. These are you conferences provided by SPE to allow all members to share issues and challenges as well as celebrate each other’s accomplishments and innovations.

Your Central Valley experience provides you as petroleum professionals a unique depth and breadth of understanding the historic, current and future trends in exploration and production management which could and should be shared with fellow SPE members and the general public when appropriate. I have been told many times that our industry operates with the approval of the public and nowhere is this more evident than here in California.

California E&P professionals have delivered over a century of stewardship of a vital resource while serving an economic engine that still remains one of the largest in the world—everyone should be proud of such a feat. Please feel free to contact your SPE board members and make suggestions as to what activities or subject presentations you would like to see.

Your SPE San Joaquin Valley Chapter is your local forum for meeting friends, solving E&P’s technology challenges, sharing information and celebrating our achievements.
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SJV SPE News

CALIFORNIA STATE UNIVERSITY BAKERSFIELD APPLIES FOR SPE STUDENT CHAPTER

CSUB engineering students formed a committee to establish a student chapter of the SPE by the beginning of the Fall semester 2013. I am pleased to report that the SJV SPE Student Chapter had its first meeting this past Friday, July 26th in which 15 students attended and elected officers to their board. This was the next to last step in filing for student chapter status with SPE headquarters. The elected board members are:

- President - Chris Reedy
- Vice-President - Matthew Winston
- Secretary - Gabriella Bonilla
- Treasurer - Christian Cuna
- Public Relations - Irvin Hinojosa

Professor of Engineering Dana Abouelnaser will be the student chapter’s Faculty Advisor. Professor Abouelnaser will be invited to become a non-voting member of the SJV SPE Section board.

Letters from both Dr. Jorge Talamantes, Chair of the Physics and Engineering Department and from our own Jesse Frederick, SJV SPE Chair were received by the committee in support of the new chapter. These letters are essential to being awarded a student chapter charter.

The first student chapter meeting was a huge success and while this represents their first milestone they still have much work to do. To be recognized by the CSUB community all of the necessary paper work supporting the new student chapter will be submitted to SPE Headquarters in August of this year. Members of the student chapter have been informed that the next step is for all of them to sign up as student members on the SPE website. Once they have their membership numbers the student chapter will be ready to submit their application for a chapter charter.

The student chapter executive board will be getting a head start on the more nitty-gritty administrative responsibilities, things that fall along the lines of websites, budgets, and bank accounts. Members of the student executive committee are encouraged to reach out to the corresponding board members of the SJV SPE Section’s board for guidance and support.

The student committee would like to thank Neil Malpiede, Jesse Frederick and David Susko for their help and support.

Stay tuned as more news about the CSUB Student Chapter will be reported next month in this newsletter.
Greetings:

On behalf of the Board of the San Joaquin Valley Chapter of the Society of Petroleum Engineers (SPE), please consider this letter an expression of our wholehearted support which extends to your fellow students and to the California State University-Bakersfield Administration (CSUB). I am pleased to hear that you as well as some of your fellow students are pursuing the formation of an SPE student chapter at CSUB. This underscores the strengthening of an already important relationship between CSUB and the local economy. I look forward to the future contributions to the Exploration and Production industry in the form of focused faculty and future graduates. I wish to extend my thanks to Neil Malpiede and on behalf of the local chapter I extend a warm welcome to all charter member students who are part of this effort. Please send me a list of the charter members, so we may recognize them.

I am sending a copy of this support letter to the senior managers of companies in the community and to the California Independent Petroleum Association (CIPA) members as well. I think this is huge progress and I want to encourage this effort.

I’m hoping that some student papers for the SPE Western Regional Meeting will come out of the first group of student members.

Sincerely,

Jesse D. Frederick
SJV SPE Chair
1717 28th Street
Bakersfield CA, 93301
cc:
Horace Mitchell, President, California State University, Bakersfield
T.J. Hampton, Newsletter Editor
Society of Petroleum Engineers

*SPE SJV Section Monthly Networking Bash*

The August Sponsor is Weatherford.

**Wireline Services**  
**Tubing Conveyed Perforating**  
**Secure Drilling Services**

Thursday, August 29th, 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 SPE SJV Section would like to thank OXY for sponsoring our July Monthly 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.

**Chevron 13 API Crude Price**
(Daily Posted Price)

- Last Change: $99.45 08/08/13
- Change: -$0.95

Source: Chevron California Crude Oil Price Bulletin
Lookback on 7/10/2013 SPE Surface Study Group

Tim Nelson, Sales Engineer, 3M Purification
“3M High Flow Filtration System”

Rakesh Trehan, SPE Board, Halliburton presenting
token of appreciation to Tim Nelson, Sales Engineer,
3M Purification
HIGHLIGHTS of JULY

Look back for July YP Event
July 24th SPE YP hosted 40+ interns and 30+ professionals from the Bakersfield area as Oxy’s Executive Vice President, Vicki Hollub, presented on some of the finer points of a good and not so good mentor/mentee relationship.

This event was cosponsored by Oxy and Chevron.

In this photo left to right, Keith Kostelnik-SPE Board Member and Vicki Hollub-EVP Oxy California
Mojtaba Ardali, SPE, is a Reservoir Engineer with Oxy. At Oxy, he works for Shale Development and EOR team and he is involved in EOR reservoir simulation studies. He recently graduated from Texas A&M University and during his PhD, he conducted research in thermal recovery especially SAGD process for Canadian reservoirs. His areas of interest include reservoir modeling, production surveillance and hydraulic fracturing. Mojtaba has been an SPE member since 2004 and is a author of seven SPE papers. He has served on the SPE SJV Board since 2013.

PROFESSIONAL SPOTLIGHT

CHARLES MCKAY

Charlie McKay is currently the Area Manager for Naftex Operating Company, California. At Naftex he is in charge of all technical and production operations in Kern County. Charlie has more than 35 years of engineering experience in many aspects of thermal recovery. Prior to Naftex, he worked for Plains Exploration and Production Company (PXP) for two years and Berry Petroleum Company for more than 23 years (1984-2007). There he worked in several roles from a production engineer to Asset Team Leader. He was the Project Engineer for the successful development of Berry’s largest asset using horizontal wells in the late 1990’s. He also previously worked for Grace Petroleum and for Texaco. He has been involved in various industry associations during his career. He was the Section Chairman of SPE SJV and also served as a member of the CCCOGP engineering board. Outside work, he is involved in several activities. He is the music director at his church and he enjoys singing. He has enjoyed being a part of the API Black Gold Productions annual show. He has been very involved in sports; he attempts to play golf, and he has played and coached softball for many years. He loves the outdoors, particularly the camping trips his family traditionally takes during the Thanksgiving holidays.

SPE SJV: Could you please tell us a little about Naftex operating company and its operations?

CM: Naftex is a privately owned oil company with operational headquarters in Edison, CA. The company is primarily a thermal heavy oil operator producing approximately 1,000 bbls of oil per day. Naftex directly employs 30 individuals in different technical and operational disciplines. We are a growing company looking for opportunities both in and outside California.

SPE SJV: You have worked longer than 35 Years in thermal recovery. What do you think about thermal recovery in general and its future in California and the rest of the world?

CM: I started my career at Texaco working on the San Ardo steamflood (largest steamflood at the time in California producing 30,000 BOPD) and I am still working in the thermal recovery field. I am very proud to be following in the footsteps of some very innovative engineers and scientists who have worked to understand a very complex process. Even though the wells generally are shallow and offer minimal challenges in drilling, they each take on their own personalities once they get put on production. There is a lot of “engineering per barrel” so to speak. There are significant heavy oil resources remaining in California and the rest of the world which should keep us busy for some time to come.
PROFESSIONAL SPOTLIGHT: CHARLES MCKAY

(continued from previous page)

SPE SJV: You have lived and worked in California for your whole career. Is there any specific reason and how did you like it?

CM: I graduated from Arizona State University in 1978 in Chemical Engineering and moved to California. I have enjoyed working and living here since then. California, and particularly Kern County, has been and still is the center of thermal recovery technology. Since that has been my career focus and I had no international aspirations, it has been a great place to stay, learn and work. In addition, in California there are plenty of activities that I can do in my free time with the family.

SPE SJV: What is the most interesting assignment/project that really stands out for you?

CM: At Berry Petroleum Company, around 1990, I was involved in utilizing horizontal well drilling for the first time. The technology at the time was very new to us and the project was very challenging. We had very low reservoir pressure and we had to design a wellbore that maintained as much gravity head as possible on the rod pump, but that still provided optimal placement in our reservoir. The results of the project were very promising and over time that technology turned out to be the dominant development technique to deplete that particular reservoir.

SPE SJV: You have been working in the oil industry in several positions from an engineer to several management positions. In your viewpoint, what are the good qualities of a good boss and an employee?

CM: My philosophy at work is to treat people with respect. People are the real assets of a company. In my experience management by intimidation does not work and does not lead to the best employee performance. I like to engage people and try to get them involved and let them know that they are valued contributors. I believe that this model works better and leads to much better performance of both the employees and the company overall.

A good employee is someone who has the confidence to state his honest opinion and actively engage himself in the project. In addition, a good employee is a team player who works for the company’s success even if the team’s decision doesn’t mirror his personal opinion. Once the decision is made to move in a certain direction, a good employee tries to contribute as much as he or she can to make sure the project succeeds.

SPE SJV: There are plenty of young professionals working in the oil industry in Kern County. Do you have any specific advice for this group of people?

CM: I would encourage the young professionals in the oil industry to get involved with the local SPE chapter. I have had the privilege of knowing and working with some of the most capable people in the thermal recovery business in my career. Many of those relationships were initiated and nurtured through SPE events. I was on the SPE board for a long time and those connections have benefited me in my career. There is no better industry for personal and professional growth and rewards than the oil industry.
SJV SPE Continuing Education

“Bachus Pump Course”

Instructor: Mr. Larry Bachus
Date: August 5-9th, 2013 (8:00 am to 5:00 pm)
Location: University of Phoenix, 4900 California Ave, Bakersfield, California.

Announcement:
SJV SPE is proudly sponsoring the – Bachus Pump Course. This is an intensive five day course which explains the design, operation, and maintenance of process pumps with emphasis on petroleum applications and pumps used in petroleum production and refining. Students should bring their laptops and a calculator to assist in the learning process.

Questions:
Please call Terry L. Kloth @ 661-328-5952 (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 50 students. The price of this course for SPE members and non-members is $1,700 per person. The textbook “Everything You Need to Know about Pumps” is included with the course. Morning and afternoon snacks, cold and hot drinks, and a light lunch is included.

PayPal Link:
https://www.paypal.com/cgi-bin/webscr?cmd=_s-xclick&hosted_button_id=EL2ZXE8VB6ACE

RSVP: Please RSVP to TLKB@pge.com

Target Audience:
Facility Engineers, Facility Engineering Supervisors, Construction Engineers, operational personnel, supervision; Piping engineers, designers, Project Engineers, Project managers, and anyone who would like a better understanding of pumps.

Course Outline:
1) Pump Principals:
2) NPSH, Net Positive Suction Head
3) Cavitation- Types- Prevention
4) The Affinity Laws
5) Useful Work and Pump Efficiency
6) Pump Classification – Types of Pumps
7) Understanding Pump Curves
8) The “Pumping” system curve
9) Pump Shaft Deflection
10) Pump and Motor Alignment
11) Pump Bearings & care
12) Pump Shaft Packing
13) Mechanical Seals
14) Failure Analysis of Mechanical Seals
15) Common Sense Failure Analysis
16) Avoiding Wear in Centrifugal Pumps
17) Proper Fluid Piping

Special Requirements: Lap Top and calculator

Instructor’s Biography:
Mr. Larry Bachus has over 40-years of experience working with Industrial Pumps, including almost 20-years dedicated to refinery pumps. His areas of expertise include the design selection, operation, and maintenance of petroleum process pumps.

For many years, Larry operated his own pump rebuild/repair facility where he serviced pumps for Gulf, Sunoco, Hess, Mobil, Esso, Shell DuPont and PDVSA. Today, Larry travels the world as mentor-trainer to global refiners SASOL, PETRONAS Petroleum, ECOPETROL de Colombia, Chevron Nigeria, Chevron South Africa, SAPREF and India Oil. He is instrumental in drastically improving the service time (MTBF) of industrial pumps.

Larry has authored many “pump” articles and papers. He has authored two books “Know and Understand Centrifugal Pumps” and “Everything you need to Know about Pumps”. Larry wrote the second book in English and Spanish at the same time.

Larry has a certificate in Maintenance Management from the University of Alabama, and is currently working on a Master’s Degree at Middle Tennessee State University. Larry is a U.S. Navy veteran and is CEO of Bachus Company, Inc. Larry is known worldwide as “The Pump Guy”.
SJW SPE Continuing Education

Project Decision-Making

Howard Duhon  August 20-21, 2013

Description

It takes millions of decisions by thousands of people to execute a major oil and gas project. A few of these decisions are made by analytical methods, but the vast majority are made via less structured methods including intuition. Project success depends on the effectiveness of all project decisions, not just the few made formally via structured methods. This course applies a variety of insights from diverse fields including psychology, cognitive science, naturalistic decision-making, action science, sensemaking, mathematics and communication theory to improve engineering decision-making. Learnings and insights from the course are used to develop a strategy for improving decision-making and to develop answers to four questions of key importance in project design:

- Why do so many changes occur late in projects?
- Why do we have so many problems at interfaces?
- Why do we repeat mistakes from project to project?
- Why do projects usually finish late?

Topics include:

- Collecting and evaluating data to generate conclusions/beliefs
- How we use preconceived notions to make sense of new data
- A structured focus on our values to improve our skill at setting objectives and identifying alternatives
- The cause of defensiveness
- Individual and organizational learning—why the most important lessons are often the most difficult to learn
- Naturalistic decision-making; the study of the impacts of stress and expertise
- Decision theory insights to improve the performance of teams and minimize problems at interfaces between teams

The book, Making Sense and Making Decisions, an engineer's guide to project decision making, authored by the instructor is the handout used for this course.

Why You Should Attend - Millions of decisions are used to execute a complex project. Success depends on the effectiveness of all project decisions not just the few made formally via structured methods. This course is about improving the effectiveness of all project decisions, not just the big ones.

Who Should Attend - Engineers, operations staff and other technical professionals involved in project design, execution or operation.

CEUs - 1.6 CEUs (Continuing Education Units) awarded for this 2-Day course.

Cancellation

Policy - To receive a full refund, all cancellations must be received in writing no later than 14 days prior to the course start date. Cancellations made after the 14-day window will not be refunded. Send cancellation requests by email to trainingcourses@spe.org; by fax to +1.866.460.3032 (US) or +1.972.852.9292 (outside US); or mail to SPE Registration, PO Box 833836, Richardson, TX 75083.

For more details, please contact us at trainingcourses@spe.org.
PROFESSIONAL REGISTRATION REVIEW
COURSE FOR PETROLEUM ENGINEERING

COURSE DESCRIPTION: The Course covers most topics that are found on the State Board Petroleum Engineering Professional Examination.

WHO SHOULD ATTEND: Engineers who are planning on taking the PE Examination in Petroleum Engineering this fall.

INSTRUCTOR: Bing Wines, PE

BAKERSFIELD COURSE: (8:00 AM - 6:00 PM), Tuesday through Friday, September 3 – September 6, 2013

For More Information: 405-822-6761
E Mail: bingwines@cox.net
Web Site: winrockengineeringinc.com
WINROCK ENGINEERING, INC.
P. O. BOX 42296OKLAHOMA CITY, OK, 73123

68% Pass 2012 Petroleum PE Exam

NCEES and the State Engineering Boards released their 2012 Professional Engineering Exam results in February. Nationwide, the Petroleum Engineering Exam recorded a 68% pass rate. The Petroleum first time takers passed at a 79% rate. The estimated pass rates of a few other engineering disciplines were:

- Chemical 58%
- Agricultural 71%
- Civil 56%
- Fire Protection 52%
- Electrical 58%
- Industrial 74%
- Environm’tal 55%
- Metallurgical 48%
- Mechanical 64%
- Mining 70%
- Nuclear 56%
- Control Systems 71%

The Petroleum pass rates in 2012 for a few states:

- Alaska 100%
- Louisiana 71%
- California 57%
- Oklahoma 88%
- Colorado 88%
- Texas 67%

What are the requirements to take the Petroleum PE Exam? Today, California requires that you have:

1. An engineering, math or science degree.
2. Passed the Fundamentals, or EIT Exam.
3. At least four years of professional experience.

Interested? Contact the California State Engineering Board at (916) 263-2230 for application forms. State web sites are also available at: www.ncees.org/licensure/licensing_boards. The California application deadline to take this years PE Exam is May 1, 2013. This year’s test will be given on Friday, October 25, 2013.
SJV SPE Continuing Education
Thermal Oil Recovery

SHORT COURSE: OCTOBER 28-29, 2013 (M, Tu, W)
PRACTICAL 3-DAY COURSE, EXPERIENCED INSTRUCTORS, USEFUL PC PROGRAMS

Course Description: This 3-day thermal recovery course is designed to provide an understanding of heat and fluid flow in heavy oil reservoirs, prediction of thermal performance, and a review of field experience. Special attention is paid to current technologies such as operation of mature steamfloods, horizontal well applications, SAGD, VAPEX, etc. The course is designed for reservoir and production engineers but will also be useful for geologists, technicians and managers working in heavy oil production. Easy-to-use PC programs and spreadsheets are provided to help the participants understand thermal processes and make engineering predictions.

Texts: Attendees will receive a comprehensive revised manual.

Computer Programs: IBM PC programs in Visual Basic and Excel worksheets are provided to estimate steam zone development, heat loss, cyclic steaming performance, pressure drop in steam lines, steamflood performance, SAGD calculations, etc.

Instructors: Farouq Ali has taught similar short courses to over 7000 industry participants during the past 48 years. He specializes in thermal recovery and simulation. Farouq Ali has written three books and over 500 technical papers on these subjects. He has designed more than 40 oil recovery projects in various countries. Among many awards, he received the 1997 SPE Thermal Recovery Pioneer, 2007 SPE Anthony F. Lucas, 2002 SPE Improved Recovery Pioneer and 1996 SPE Lester C. Uren awards. He is a member of the U.S. National Academy of Engineering.

Jeff Jones is Vice President, Reservoir Engineering with E & B Resources, in Bakersfield, and has over 40 years’ experience in all facets of thermal recovery engineering. Jeff has worked on steamflood, cyclic steaming, and in situ combustion projects, and has experience with reservoir, production, and facilities engineering. An accomplished programmer, he has published many technical papers and holds a number of U.S. patents on thermal recovery related devices. Jeff received Society of Petroleum Engineers’ Production Engineering Award in 2002. He was a SPE Distinguished Lecturer for 2004-2005. He received the Society of Petroleum Engineers’ Thermal Recovery Pioneer award in 2010.

Location: Four Points Sheraton, Inn, 5101 California Ave.

Registration fee is $3,300, Call (780) 461-2944, Fax (780) 461-8494, e-mail: farouq@telusplanet.net
At John Zink Hamworthy Combustion,

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Service tasks for a successful candidate include commissioning, troubleshooting and/or maintaining Coen/Todd/Hamworthy burner products for Once Through Steam Generators (OTSG) and heaters in the Bakersfield or Southern California oil fields.

Either a two-year technical degree or 2-5 years of equivalent work experience required.

Find all U.S.-based John Zink Hamworthy Combustion employment opportunities and apply online at johnzinkhamworthy.com/careers. When searching for opportunities, you will be redirected to another site; we are part of Koch Industries / Koch Chemical Technology Group on this website.

We are EOE. M/F/D/V

Except where prohibited by state law, all offers of employment are conditioned upon successfully passing a drug test.

JOHN ZINK HAMWORTHY COMBUSTION
Engineering Technician Assistant – Bakersfield, CA

E&B Natural Resources has openings for an Engineering Technician Assistant in Bakersfield, CA.

E&B is a privately held, growing independent E&P company (www.ebresources.com). Our California operations are located in Kern County of the San Joaquin Valley, Santa Barbara and San Luis Obispo Counties of the Cuyama Valley and Los Angeles County.

E&B offers a generous company benefit package that includes, medical, dental, and vision insurance coverage, short and long term disability, life insurance, matching 401(k) plan, paid vacation and holidays, and a discretionary quarterly bonus.

If you are result oriented, self motivated individual that enjoys working in a team environment, we welcome you to apply for this position.

Essential Functions of the Job:
- Retrieving and verifying data for analysis and preparing technical reports
- Maintaining production databases and monitoring performance
- Preparing, editing, and organizing wellbore diagrams

Knowledge, Skills, and Abilities
- Knowledge of MS Office Suite is required.
- Strong communication, organizational, analytical, and problem solving abilities
- Knowledge of SQL, PEEP or PHDWIN, OFM, DSS, or equivalent is desired.

In making application, please include base salary requirements. E.O.E.

Please send a completed application and resume no later than Friday, July 19th, 2013 to:

E&B Natural Resources Management, Attn. Human Resources Department
1600 Norris Road, Bakersfield, CA 93308 (661) 679-1700(P) (661) 679-1788(F)
Or email them to hr@ebresources.com
Seneca Resources Corporation, the oil & gas exploration and production subsidiary of National Fuel Gas (NYSE: NFG) is seeking a Sr. Production Engineer at its West Division office in Bakersfield, CA.

The Sr. Production Engineer will be an integral member of the West operations team with responsibilities to include:

- Ensuring production in Seneca’s heavy oil fields, Midway-Sunset & North Lost Hills, are operating at maximum efficiency with optimum cost effectiveness and comply with internal policy, federal & state regulations.

- Responsible for day to day production & reservoir engineering task for Midway-Sunset & North Lost Hills including but not limited to the following:
  - Production surveillance & steam recommendations
  - Workover, completion, & drilling recommendations & supervision
  - Reserves updating, budget preparations, & assisting with acquisition reviews
  - Supervise, mentor & develop junior engineering staff.

This position requires a BS in Petroleum Engineering & 10 + years experience in onshore production. Thermal recovery and waterflood experience along with strong communication and leadership skills.

To apply: email resumes to jobs@srcx.com

Please refer to Sr. Production Engineer, #13-06CA.
Be a part of URTeC, where oil & gas professionals will train the way they work — using an integrated approach.

Helping companies like yours hit the sweet spot
As unconventional become conventional, you’ll find several choices of conferences, but one event stands apart. The Unconventional Resources Technology Conference is uniquely designed to help asset teams succeed. So whether you’re searching for the next big thing, or simply looking to connect with geologists, engineers, geophysicists and more, URTeC is for you.

URTeC...
• is uniquely designed for asset teams (geologists, geophysicists, engineers and business managers working together to develop unconventional resources)
• is backed by 3 of the world’s leading scientific associations (SPE, AAPG, SEG)
• was developed based on input from oil company professionals
• focuses on all North American shale plays
• will feature a peer-reviewed, science-based conference
• will feature an exhibition showcasing the latest technologies, products and services

URTeC. The integrated event for oil & gas asset teams.
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The Termo Company, an independent exploration and production company, has an employment opportunity for a Petroleum Operations Engineer in Long Beach, California.

Responsibilities:

- Supervise operations of oil and gas producing properties
- Monitor and analyze wells to optimize and increase production through application of artificial lift equipment, recompletions and stimulations.
- Design well completions, recompletions, workovers and stimulations; prepare AFE’s, perform economic evaluations and supervise implementation.
- Review, evaluate and recommend opportunities for producing property acquisitions.
- Review drilling prospects from generators and other operators. Make recommendations for participation in exploration prospects as appropriate.

Qualifications:

- Bachelors degree in Petroleum Engineering.
- 5-15 years of varied experience, particularly with drilling, completions and production operations. Geographical work experience in California, Rockies, and/or Gulf Coast a plus.
- Possess good oral and written communication skills.
- Able to handle multiple projects.
- Experience maintaining and exploiting mature oil fields.

Benefits:

Competitive salary and benefits program is available.

To apply, send resume to billb@termoco.com
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Growth and financial stability are at the core of our company. We’ll promise you the same focus — opportunities for growth, development and success throughout your career.

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Processes Unlimited International, Inc. (ProU), an ENR globally ranked Top 500 company, provides multi-discipline engineering, design, project management, and safety management services. We are currently recruiting qualified individuals for the following positions:

- Process Engineer
- Project Manager (upstream)
- Electrical Engineer
- Instrumentation & Controls Systems Engineer
- Mechanical Engineer
- Mechanical Designer
- Electrical Designer

To apply, please visit our website:

www.prou.com
Career Opportunity

A fast-paced, entrepreneurial company, Plains Exploration & Production Company (PXP) offers a challenging and rewarding career that will value your contribution. PXP offers a competitive compensation program and one of the best 401(k) matching programs in the industry. The Company offers comprehensive medical, dental and vision coverage and outstanding disability and insurance benefits. PXP benefit plans provide you and your family with the protection you need today and the opportunity to build financial security for your future.

Position Description:

Reservoir Engineer: Generates shareholder value through the identification and implementation of field enhancement / development projects. Qualified candidates will have demonstrated thermal and/or waterflood experience. Candidates should have 10 years of experience with a BS in Petroleum Engineering and be familiar with Oil & Gas economic and field surveillance software.

Reservoir Engineer Technician: Assist with economic analyses using PEEP and OFM to engineering projects. Candidate should have 5 years’ experience as an engineering technician in the oil and gas industry. The ideal candidate will have a BS in Economics, Math, Computer Science or other related degree with experience with Petroleum Engineering and be familiar with Oil & Gas economic software.

How to Apply:

Successful candidates will enjoy a generous compensation and benefits package. Qualified applicants must have authorization to live and work in the United States without company provided sponsorship. Submit Resume to: PXP Attn: Human Resources, 1200 Discovery Dr., Suite 560, Bakersfield, CA 93309 or Fax 661-395-5283 or email calcareers@pxp.com

EOE, M/F/D/V
Advertising Order Form for the monthly newsletter of the
San Joaquin Valley Section of Society of Petroleum Engineers

SJV Section of SPE, PO BOX 21135, Bakersfield, CA 93390
sjv.spe.org
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