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David Susko
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Visit our website
http://connect.spe.org/SJV/
November 17, 2014 General Section Meeting

Distinguished Lecturer

Topic: The Science and Engineering of Internal Corrosion Control in the Upstream Petroleum Industry—Mainly About Managing Water

Speaker: Mohsen Achour, ConocoPhillips

Date: Monday, November 17, 2014 @ 11:30 AM

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

Cost: With online payment or RSVP: $25 members, $30 non-members
      Walk-ins: $30 members, $35 non-members

Reservations: RSVP by Friday morning November 14th, 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 - $25
PayPal Link for SPE Non-Members - $30
OR if the above links don’t work copy these links in your browser’s address box

Members
https://www.paypal.com/cgi-bin/webscr?cmd=_xclick&hosted_button_id=5T5S5WCV93CNU

Non-Members
https://www.paypal.com/cgi-bin/webscr?cmd=_xclick&hosted_button_id=S7GABLKETWX32

OR

Email Pamela Willis at PTWillis@aeraenergy.com or call Call (661) 665-5449

Walk-ins and attendees with email/phone RSVP must pay by cash at the door. Credit cards accepted at the door. RSVP no shows may be billed.

ABSTRACT

Unsuccessful control of internal corrosion has historically caused catastrophic incidents in the upstream petroleum industry. Corrosion control requires a synergy between a sound basis of design and an appropriate operability philosophy. Equipment used in upstream operations may include casings, production tubings, risers, flowlines, pipelines, and facilities. Corrosion control related decisions made at design level and guidelines set for operations will always be driven by water management. Guidelines to control corrosion are strongly based on water quality and movement within the equipment and the process. While corrosion prediction and mitigation involve thorough understanding and application of scientific concepts of water chemistry, flow dynamics, and transport phenomena, corrosion monitoring and inspection requires sound engineering practices to track water, monitor changes and meet internal and external requirements. The success of corrosion control programs is also strongly affected by the level of collaboration and integration within the asset integrity and operation teams.

SPEAKER

Mohsen Achour is leading the corrosion, inspection, and materials group of the Global Production Excellence Division of ConocoPhillips. He holds a PhD degree in chemical engineering and materials from Oklahoma State University and an adjunct professor honorary title from Ohio University Institute of Corrosion and Multiphase Technology Center. Achour has published more than 60 technical papers and holds patents in the areas of transport phenomena and corrosion.
Dear Members

Thanksgiving is coming up. During this time everyone is usually busy spending time with family and friends, and of course preparing the fabulous Thanksgiving feast. There is a lot of information about Thanksgiving Safety out there and I would like to share a few of those safety tips. One of my favorite videos on the turkey fryer safety is William Shatner’s “Eat, Fry, Love”. You can find it on youtube.

Safety tips for a Safe Thanksgiving:

- Stay in the kitchen when you are cooking and check on the food frequently.
- Keep children away from the stove (plan activities for the kids that keep them out of the kitchen)
- Keep the floor clear so you don't have tripping hazards
- Make sure your smoke alarms are working.
- Be sure to keep a fire extinguisher in the kitchen in case of emergency, and teach your family how to use it

SPE News for November

There are several conferences and workshops being held this month:


Sincerely
Your SJV SPE 2014-2015 Chair,
Blythe Johnson
Thursday November 13th, 2014, Sub-Surface Study Group Meeting

Topic: Monterey Shale Exploitation - A Five Year Look Back

Speaker: Alan A. Burzlaff

Date: Thursday, November 13th, 2014 @ 11:30 AM

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

Cost: With online payment or RSVP: $25 members, $30 non-members

Walk-ins: $30 members, $35 non-members

Reservations: RSVP by Tuesday morning November 11th, using one of the three options:

Using the corresponding link below to pay online using your Visa, MasterCard, American Express, Discover or PayPal account:

**Members**

https://www.paypal.com/cgi-bin/webscr?cmd=_s-xclick&hosted_button_id=PY9C5CF4XHVHJ

**Non-Members**

https://www.paypal.com/cgi-bin/webscr?cmd=_s-xclick&hosted_button_id=TNPYJ987LGNKE

OR

Email Indar Singh at isingh@aeraenergy.com OR Call (661) 665-5243

Walk-ins and attendees with email/phone RSVP must pay by cash at the door. RSVP no shows may be billed.

**ABSTRACT:**

The race to tap the potential of the California Monterey Shale Formation as an unconventional oil play similar to the Bakken and Niobrara formations in the Rockies escalated in 2011 after the U.S. Energy Information Agency (EIA) estimated 15 billion barrels of technically recoverable shale oil trapped in the Monterey Shale. Now, it is down to 600 million barrels. In May 2014, EIA cut its estimated amount of recoverable oil from the Monterey Shale by 96 percent. What happened? The oil is still there but it has turned out to be harder to get out of the ground than expected.

This presentation may help explain the current situation in the Monterey Shale exploitation by presenting a five-year look back of the production results for the renewed industry drilling campaign targeting unconventional oil reservoirs in the Monterey. Relying on public records, this lecture presents statistical information on the number of wells, Initial Productivity (IP), gas-oil ratio, water cut, and Expected Ultimate Recovery (EUR) for the onshore Monterey drilling activity during 2009 – 13 in the San Joaquin Valley of central California. Key fields include Rose, North Shafter, Asphalto, Railroad Gap, Buena Vista and Monument Junction fields. The production and reserves statistics are useful and informative to those interested in the productivity, economics and successful exploitation of the Monterey.

**SPEAKER:**

ALAN A. BURZLAFF is Vice-President and Managing Partner for MHA Petroleum Consultants, LLC. He manages the MHA office in Bakersfield, California. His consulting expertise includes reservoir engineering, numerical simulation, reserves reporting, thermal recovery studies and property evaluation. He has authored SPE technical papers dealing with waterflooding, steamflood simulation and unconventional oil exploitation, most recently at the 2014 Western North America and Rocky Mountain Joint Conference and Exhibition. Mr. Burzlaff is a Licensed Professional Petroleum Engineer in the State of California and SPE member. He holds a BSc degree in Engineering Physics from the Colorado School of Mines.
LOOKBACK for October 2014

October 23, 2014 – Sub-Surface Study Group – “Low Carbon Intensity Processes for Low Mobility Oil”

Indar Singh, SPE Board
Sub-Surface Study Group

Indar Singh presenting token of appreciation to Tony Murer

Tony Murer - speaker

Great turnout!
Left - Cristian Garcia, Chair of SJV SPE Student Chapter, Right – Tom Hampton, Aera Energy LLC Senior Staff Reservoir Engineer.

On September 25, Tom Hampton, Community Outreach, SPE Board member spoke to CSUB SJV SPE Student Chapter – Kick Off meeting about the benefits of belonging to SPE and how to utilize SPE to help their career. There were over 50+ students in attendance. They had a great kick off start for their year! They have great leadership and great SPE members.

Tom Hampton, Community Outreach, SPE Board member speaking on Petroleum Engineering to CSUB ENGR 160 Orientation to Engineering, Professor Yiannis Ampatzidis, on October 3. 2-14

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

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<td>1/1/2012</td>
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Last Change: $75.28 10/31/14 with change of -$0.58

Source: Chevron California Crude Oil Price Bulletin
# SJV SPE Board of Directors
## 2013-2014

<table>
<thead>
<tr>
<th>POSITION</th>
<th>NAME</th>
<th>COMPANY</th>
<th>PHONE</th>
<th>E-MAIL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Section Chair</td>
<td>Blythe Johnson</td>
<td>Chevron</td>
<td>(661) 281-5713</td>
<td><a href="mailto:BlytheJohnson@chevron.com">BlytheJohnson@chevron.com</a></td>
</tr>
<tr>
<td>Program</td>
<td>Pamela Willis</td>
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</tr>
<tr>
<td>Membership</td>
<td>Tara Butler</td>
<td>Enova Solutions</td>
<td>(661) 327-2405</td>
<td><a href="mailto:Tbutler@enovaes.com">Tbutler@enovaes.com</a></td>
</tr>
<tr>
<td>Secretary</td>
<td>Jeff Kim</td>
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<tr>
<td>Treasurer</td>
<td>Keith Kostelnik</td>
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<tr>
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</tr>
<tr>
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<td><a href="mailto:TJHampton@aeraenergy.com">TJHampton@aeraenergy.com</a></td>
</tr>
<tr>
<td>Young Professionals Liaison</td>
<td>Cenk Temizel</td>
<td>Aera Energy LLC</td>
<td>(661) 654-2661</td>
<td><a href="mailto:CTemizel@aeraenergy.com">CTemizel@aeraenergy.com</a></td>
</tr>
<tr>
<td>Award Nominations</td>
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<td><a href="mailto:jfrdrck@wziinc.com">jfrdrck@wziinc.com</a></td>
</tr>
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<td>Tom Walsh</td>
<td>Petrotechnical Resources</td>
<td>(907) 230-9840</td>
<td><a href="mailto:twalsh@petroak.com">twalsh@petroak.com</a></td>
</tr>
<tr>
<td>Student Chapter Faculty Advisor</td>
<td>Dayanand Saini</td>
<td>CSUB</td>
<td>(661) 654-2661</td>
<td><a href="mailto:dsaini@csub.edu">dsaini@csub.edu</a></td>
</tr>
<tr>
<td>Student Chapter President</td>
<td>Cristian Garcia</td>
<td>CSUB</td>
<td>(661) 802-3058</td>
<td><a href="mailto:csub.spe@outlook.com">csub.spe@outlook.com</a></td>
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</table>
Solar EOR

Solar enhanced oil recovery, or solar EOR, is a form of thermal enhanced oil recovery (EOR), a technique applied by oil producers to extract more oil from maturing oil fields. Solar EOR uses CSP to use the sun’s energy to heat water and generate steam. The steam is injected into an oil reservoir to reduce the viscosity, or thin, heavy crude thus facilitating its flow to the surface. Thermal recovery processes, also known as steam injection, have traditionally burned natural gas to produce steam. Solar EOR is proving to be a viable alternative to gas-fired steam production for the oil industry. Solar EOR can generate the same quality steam as natural gas, reaching temperatures up to 750°F (400°C) and 2,500 PSI.

Types

Central tower

Originally designed electricity generation, central tower, or power tower technology, uses a field of large tracking mirrors, called heliostats, to concentrate the sunlight on a boiler filled with water that rests on a central tower. The sun’s energy is reflected on the boiler to produce steam, which is used to turn a traditional turbine and create electricity. For EOR, the process ends at steam production. High-temperature steam made from demineralized water in the tower receiver passes through a heat exchanger, generating lower temperature steam from high-contamination oilfield feedwater. The steam is then fed into distribution headers which lead to injection wells, conveying steam into the oil-bearing formation.

Enclosed trough

The enclosed trough architecture encapsulates the solar thermal system within a greenhouse-like glasshouse. The glasshouse creates a protected environment to withstand the elements that can negatively impact reliability and efficiency of the solar thermal system.

Lightweight curved solar-reflecting mirrors are suspended within the glasshouse structure. A single-axis tracking system positions the mirrors to track the sun and focus its light onto a network of stationary steel pipes, also suspended from the glasshouse structure. Steam is generated directly using, oil field-quality water, as water flows from the inlet throughout the length of the pipes, without heat exchangers or intermediate working fluids.

The steam produced is then fed directly to the field’s existing steam distribution network, where the steam is continuously injected deep into the oil reservoir. Sheltering the mirrors from the wind allows them to achieve higher temperature rates and prevents dust from building up as a result from exposure to humidity. The company states its technology can produce heat for EOR for about $5 per million British thermal units in sunny regions, compared to between $10 and $12 for other conventional solar thermal technologies.

Purpose

The global market for EOR technologies was $4.7 billion in 2009 and is expected to grow at a 5-year compound annual rate of 28 percent, reaching $16.3 billion in 2014. While quickly gaining traction, it is predicated solar EOR will have minimal impact on the market till 2015. As solar EOR scales up, oil producers will consume less gas for oil production.

According to research analysts at Raymond James, solar EOR can be done more cost effectively than using gas, even as current depressed prices. Steam represents as much as 60 percent of the production cost for heavily oil extraction. In addition to being cost competitive with gas, solar EOR provides a hedge against long-term gas price escalation. Long-term price projections put natural gas at $5.00/Mcf, considerably higher than the 2011 forecast of $3.75/Mcf. When an oil producer invests in a solar EOR system, all costs are upfront and the standard life of the equipment is 30 years.

Continued on Next Page
Market

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Projects

21Z in McKittrick, California
GlassPoint Solar partnered with Berry Petroleum, California’s largest independent oil producer, to deploy the world’s first commercial solar EOR project. Commissioned in February 2011, the project is located on a 100-year old McKittrick Oil Field in McKittrick, California. Coined the Kern County 21Z Solar Project, the system spans roughly one acre and will produce approximately one million Btus per hour of solar heat, replacing natural gas used for steam generation. The solar EOR project was constructed in less than six weeks and is the first installation of GlassPoint's enclosed trough technology in an oil field.

Coalinga in Coalinga, California
In October 2011, Chevron Corp. and BrightSource Energy revealed a 29-megawatt solar-to-steam facility at the Coalinga Oil Field in Fresno County, California. The Coalinga solar EOR project spans 100 acres and consists of 3,822 mirror systems, or heliostats, each with two 10-foot (3-meter) by 7-foot mirrors mounted on a 6-foot steel pole focusing light on a 327-foot solar tower.

BrightSource was contracted to provide the technology, engineering and production and construction services, and Chevron Technology Ventures will manage operations of the project. The facility began construction in 2009. It was reported that Chevron spent more than its $28 million on the contract, and BrightSource has lost at least $40 million on the project and disclosed it will lose much more.

Petroleum Development Oman
In May 2013, GlassPoint Solar and Petroleum Development Oman (PDO) commissioned the Middle East’s first solar EOR project. PDO is a joint venture between the Sultanate of Oman, Shell and Total. The 7 MW solar EOR facility produces a daily average of 50 tons of emissions-free steam that feeds directly into existing thermal EOR operations at PDO’s Amal West field in Southern Oman. The system in 27 times larger than GlassPoint's first installation at Berry Petroleum's 21Z oil field. Reports by Petroleum Development Oman indicate that the pilot was delivered on-time, under-budget, and above contract output specifications, with zero lost time injuries. In the first year of operations, the fully automated system successfully exceeded all performance tests and production targets. The system recorded a 98.6% uptime, significantly exceeding PDO’s expectations. Even during severe dust and sandstorms, the system has proven to maintain regular operations.

Fore more information refer to: http://petrowiki.org/Solar_EOR
An Overview of Heavy Oil Recovery

Instructor: Dr. Behrooz Fattahi

Date: February 10th, 2015 (8:00 am to 5:00 pm)

Location: University of Phoenix, 4900 California Ave, Bakersfield, California.

Announcement:

SJV-SPE is proudly sponsoring “An Overview of Heavy Oil Recovery”. This one-day course is intended to provide an overview of heat and fluid flow in heavy oil reservoirs.

Questions:

Please call Craig Pauley @ 661-391-4360 (office); 661-496-0707 (mobile) or e-mail CraigPauley@chevron.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 price of this course is $940 per person. Lunch and beverages are included.


If you intend to pay for this class in a different manner, please contact CraigPauley@chevron.com

Target Audience:

The course is designed to serve as an introductory course in heavy oil recovery, providing background on a variety of heavy oil recovery techniques, with emphasis on steam injection recovery. Reservoir, production, and facilities engineers, geologists, and technicians, as well as their managers, participating in heavy oil production activities, will benefit from this course.

Course Outline:

- Global demand and supply of energy
- Steamflood management
- Analytical heating models
- Well completions
- Post-steam injection recovery
- Surface facilities
- Screening, selection, design, and implementation
- Field experiences
- Other heavy oil recovery methods
- Basic concepts of thermal enhanced recovery
- Fundamentals of steam injection process and mechanics of recovery
- Considerations in steam injection projects development and operation

Instructors Biography:

Dr. Behrooz Fattahi holds Ph.D. degrees in Aerospace Engineering and in Mechanical Engineering from Iowa State University. After 37 years of working in the industry, he retired from Aera Energy LLC, an affiliate of Royal Dutch Shell and ExxonMobil companies, in 2014. He was the Heavy Oil Development Coordinator at Aera, and in his last position, as the Learning Advisor, he taught several internal company technical courses, including topics on reservoir engineering and enhanced oil recovery.

Prior to joining the oil industry, Dr. Fattahi conducted research for the National Aeronautics and Space Administration, and the National Science Foundation, and taught a variety of courses in fluid dynamics and solid mechanics at Iowa State University. He joined the petroleum industry in 1977 by joining Shell International.

Dr. Fattahi is a past member of the American Institute of Aeronautics and Astronautics, and American Association of University Professors, and has served as a member of the United States National Petroleum Council. He has held many roles within Society of Petroleum Engineers International (SPE) leadership, including the Executive Editor of the SPE Reservoir Evaluation and Engineering Journal, Director of the Western North America Region, President of SPE Americas Inc., and Vice President-Finance. Dr. Fattahi served as the 2010 President of SPE International. In retirement, he remains active as a member of the Board of the SPE Foundation, and as the 2014 President of the American Institute of Mining, Metallurgical and Petroleum Engineers, AIME.

Special Requirements: none
**B31.3 Process Piping Code**

**Instructor:** Jim E. Meyer, P. E.

**Date:** March 2nd – 5th, 2015 (8:00 am to 5:00 pm)

**Location:** University of Phoenix, 4900 California Ave, Bakersfield, California.

**Announcement:**

SJV-SPE, in partnership with ASME, is proudly sponsoring a “B31.3 Process Piping Code” course. This 4-day course is intended to provide an introduction to the ASME B31.3 Process Piping Code.

**Questions:**

Please call Craig Pauley @ 661-391-4360 (office); 661-496-0707 (mobile) or e-mail CraigPauley@chevron.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 price of this course is $1,835 per person. Lunch and beverages are included.

**RSVP via PayPal Link: B31.3 Process Piping Code**

If you intend to pay for this class in a different manner, please contact CraigPauley@chevron.com

**Target Audience:**

This course is designed for engineers, managers and quality control personnel who are involved in the design, manufacturing, fabrication and examination of process piping that is being built to the requirements of U.S. Codes & Standards.

**Course Outline:**

This course covers the requirements of B31.3 for design, analysis, materials, fabrication, testing and inspection of process piping systems. It explores the rules for various components including fittings, connections, bends, valves and specialty components. Other topics include dimensions and ratings of components, fluid service requirements for joints, piping flexibility and support, welding, heat treatment, bending and forming, brazing and soldering, assembly, erection, examination and inspection.

On completion of this course, students will be able to:

- Identify the responsibilities of personnel involved in the design, fabrication, assembly, erection, examination, inspection, and testing of process piping
- Describe the scope and technical requirements of the ASME B31.3 Code
- Apply and implement the quality requirements that are defined in the ASME B31.3 Code.

The instructor asks students to bring specific problems/questions from your work to the class. Questions can also be sent to the instructor in advance. E-mail to CraigPauley@chevron.com, and these will be forwarded to the instructor.

Instructors Biography:

Jim E. Meyer, P.E., has over 40 years of experience in refining petrochemical, chemical, power generation and industrial facilities. He is a principal engineer at Louis Perry and Associates, a full service engineering and architectural firm, located in Wadsworth Ohio. Jim is experienced in overall project coordination/management, pressure equipment, piping design, analysis, specifications, support design, mechanical system requirements and documentation requirements. In particular, areas of his technical competence include ASME piping and pressure vessel codes, stress analysis, field troubleshooting piping system support, vibration, and expansion problems.

Jim is a member of ASME and has been involved in the ASME B31.1 and ASME B31.3 Section committees for over 35 years. He is currently Chair of the ASME B31.3 Process Piping Section Committee, Chair of the ASME B31 Standards Committee, and serves on the ASME Board on Pressure Technology Codes and Standards. Jim has also served as Chair of ASME B31.1 Power Piping Code Section Committee.


Special Requirements: Each student should bring a calculator.

Printed course materials do not include a B31.3 code book. For those who do not have access to the code book through their office, you may purchase a copy of the 2014 B31.3 code book, for $425, by contacting Craig Pauley in advance.
The 89th Annual Wildcat Hijinks Show
To Benefit R. M. Pyles Boys Camp
Buck Owens’ Crystal Palace
Tuesday, December 2, 2014

Annual Network Night
We invite you to an evening of great networking, delicious food and outstanding entertainment.
Our show this year is titled:

“Daze Of Our Lives”

Reception  6:00 – 7:00 p.m.
Dinner      7:00 – 8:00 p.m.
The Show    8:00 – 9:45 p.m.

Buck Owens’ Crystal Palace
2800 Buck Owens’ Blvd.
Bakersfield, CA 93306

Act Now and Reserve the Table of Your Choice for You and Your Friends!!

Reservations for tables of 4 to 14 seats, or individual seating is available. Seating is limited so requests are on a first come, first served basis. We recommend that you call or e-mail right away as tickets sell out rapidly. Choose the table(s) or seats that you wish to reserve and we will do our best to accommodate you. Prices and seating locations are shown on the attached seating chart, and are $90, $100, or $125 per person (discounted tickets available for Wednesday night). Tax and tip included.

There will also be a no host cash bar available.

Deadline for reservations: November 25, 2014

Call or E-mail Julie DiMeglio at Brown Armstrong

Phone: 661-324-4971      email: jdimeglio@bacpas.com

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Tickets and receipts will be mailed. Receipts will be provided only if requested. Late reservations will be held at the door. Please provide list of attendee names, if known; otherwise, tickets will be held under the Company or payer’s name.
The 89th Annual Wildcat Hijinks Show
Buck Owens’ Crystal Palace
Tuesday, December 2, 2014
Wednesday, December 3, 2014
“Daze Of Our Lives”

Credit Card Information Form

Name (As It Appears On Card): ________________________________

Phone Number: ________________________________

Card Billing Address: ________________________________

Type of Card (Circle One): Visa Mastercard

Card Number: ________________________________

Security Code: ________________________________

Expiration Date: ________________________________

Amount: ________________________________

Date: ________________________________

Receipt Available Upon Request
The 89th Annual Wildcat Hijinks Show
Buck Owens’ Crystal Palace
Tuesday, December 2, 2014
Wednesday, December 3, 2014
“Daze Of Our Lives”

Credit Card Information Form

Name (As It Appears On Card): ________________________________

Phone Number: ________________________________

Card Billing Address: ________________________________

______________________________________________

Type of Card (Circle One): Visa Mastercard

Card Number: ________________________________

Security Code: ________________________________

Expiration Date: ________________________________

Amount: ________________________________

Date: ________________________________

Receipt Available Upon Request
We match up the latest innovations with breakthrough thinkers to expand what’s possible. In Bakersfield, you’ll collaborate with the best in the industry on leading-edge projects like cogeneration, enhanced oil recovery, and digital fields. At Chevron, you’ll join a team with the technology to take on big challenges, the integrity to do it responsibly, and the drive to keep the world moving forward.

Are you up to the job? Learn more about Bakersfield engineering opportunities at chevron.com/BakersfieldJobs

JOIN THE CHALLENGE.
Freeport-McMoRan Oil & Gas

Freeport-McMoRan Oil & Gas, formerly Plains Exploration & Production Company, is a wholly owned subsidiary of Freeport-McMoRan Copper & Gold Inc., a premier U.S. based natural resources producer. Freeport-McMoRan has oil and natural gas assets primarily in North America, including the Deepwater Gulf of Mexico, onshore and offshore California, the Rocky Mountain region, the Eagle Ford and Haynesville shale plays and the emerging ultra-deep gas trend onshore in South Louisiana and on the Shelf of the GOM.

CAREER OPPORTUNITY

SENIOR DRILLING ENGINEER

Plan and implement all phases of well drilling activities. Responsible for drilling engineering and operations for all wells in assigned areas. Responsible for designing vertical, directional & horizontal oil & gas wells. Responsibilities include not only planning, designing & executing the well construction program, but also administering day-to-day drilling operations in the assigned area. Some field work is necessary. Provides technical data, well research and cost estimates to drill to proposed total depth through running cementing the production casing in the most efficient and prudent manner. May be involved in completion and workover operations. Administers various plans, policies and programs related to drilling activities; work closely with contract crews to insure efficient, safe operations; while keeping Drilling Manager advised on progress of drilling activities.

ESSENTIAL DUTIES AND RESPONSIBILITIES:

- Plan and implement all phases of planning and operations for wells drilled in assigned areas.
- Prepare cost estimates and AFE’s for the drilling of wells.
- Evaluate offset drilling data to build correlation packages for estimating well costs.
- Develop the well program for drilling.
- Assist in providing 24 hour supervision on well sites and direct the operations through appropriate field personnel.
- Actively participate in Operational Team consisting of Drilling, Land, Geology, Reservoir, Production, and EHS Personnel.
- Coordinate all necessary permitting requirements. Stay abreast of state and federal laws and regulations as applicable.
- Prepare work scope and evaluate the bidding of goods and services for drilling operations.
- Enforce E&P safety and environmental policies and procedures.
- Represent the Company’s Drilling Department at departmental and joint interest meetings.
- Process and route for correct filing field generated paperwork. Review, code and approve vendor invoices on a timely basis. Organize and maintain files on drilling operations.
- Interact daily with contract personnel, and time to time with federal, and state regulatory agencies.

POSITION SPECIFICATIONS:

- Must have a B.S. degree in Petroleum Engineering or related field
- 10+ years California experience in the oil and gas industry as a drilling engineer employed by major or independent oil company required.
- Expertise in thermal drilling operations and directional & horizontal drilling is necessary.
- Field operations/rig supervision experience is an advantage.
- Experience with onshore drilling rigs. Deep water, barge, platform, jack-ups and floating drilling experience will be considered a plus.
- Previous field drilling experience is desirable.
- Must have a working knowledge of state and federal regulatory laws and regulations.
- Must be proficient with personal computers and spreadsheet software. Working knowledge of Windows, Excel, e-mail, database management and local area networks.
- Must be able to deal logically and effectively with all levels of management.
- Must be proficient with staff work including oral and written communications.

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. Sponsorship is not available. Visit our website to apply: www.fcx.com or to mail: Attn: Human Resources, 1200 Discovery Dr., Suite 100, Bakersfield, CA 93309 or Fax 661-395-5283 EOE, M/F/D/V.
Our team just got 450 times better

With our 450 new team members from Processes Unlimited, we're expanding our oil & gas EPCM services in the United States. Together, our team of 1,800 is exploring new opportunities, and finding more creative ways to meet your needs.

Design with community in mind
300% Increase in Downhole Pump Run Life

A recent Six Sigma Study shows 300% increase in downhole pump run life.

Watch this 2 minute video comparing a downhole pump with a conventional plunger vs. a FARR plunger, [Click here](#). You will be amazed.

By making one small change in your downhole pumps, you will experience:

1. Reduce rig count on lease.
2. Reduce personnel and vehicles on lease.
3. Reduce Health & Safety incidents.
4. Reduce Exposure to Environmental Spill Incidents.
5. Reduce Operating Expenses and Save your company Money.

You don’t even have to change your pump shop or pump supplier, just request a FARR Plunger in your next pump.

Muth Pump has been in business for more than 15 years and we have more than 15,000 FARR Plungers in wells in 17 states in the USA and in 10 different countries. It is proven technology that works.

Please visit our website [www.muthpump.com](http://www.muthpump.com) or give us a call for more information.

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SJV Section of SPE, PO BOX 21135, Bakersfield, CA 93390
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Size, inches  Rate, $ / Month  Description
2 X 3.5  25.00  (One business card size)
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6 X 3.5  75.00  (Three business cards size)
8 X 3.5  100.00  (Four business cards size)
10 X 3.5  125.00  (1/2 page, one column)
2 X 7  50.00  (Two business cards size)
4 X 7  100.00  (Four business cards size)
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6 X 7  150.00  (Six business cards size)
10 X 7  250.00  (full page)

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Ad Size  Start Date:
One Month Cost  Paid in Full
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Special Instructions:

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Please send camera ready art work or business card for ad and this form to:

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Oxy Inc
Or Preferably Email to
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SUPPORT THE SJV SPE NEWSLETTER BY PURCHASING ADVERTISING SPACE
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