May 2016

Monthly Technical Forum
May 19, 2016

Topic
Ensuring Long Term Cement Integrity for Steam Recovery Operations

Time
5:30 PM Social Hour
6:30 PM Dinner
7 PM Technical Forum

Place
Rice Bowl

Cost
$25 if RSVP

RSVP
AADE RSVP

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From the President

Hello again members of the West Coast Chapter of the AADE. May is here, and with it comes the heat. I know I mentioned heat awareness last month, but I believe that it cannot be stressed enough at the beginning of the summer season. It seems like every year since I moved to the valley I hear of a heat related incident right as the heat is coming on. As the weather begins to consistently be above 85 degrees during the day, we really need to give our bodies time to acclimate to the heat. Take it slow and drink a lot of water.

The board would like to thank Mr. Bartling for joining us last month, and providing his insight on the industry from a regulatory standpoint. I know that things can get heated between the industry and our regulating bodies, but we must remember to work together towards a common goal of producing oil in a safe and environmentally friendly manner.

Everyone please do not forget to sign up for the Steve Thomas Semi-Annual Shoot. The event is on May 20th and will once again be held at Five Dogs shooting range. The signup fliers should be
in your inbox, as well as attached to this newsletter, and I must yet again make a plug for anyone who is willing to donate raffle prizes. The raffles at our events go a long way in supporting our scholarship fund each year.

This month we will be joined for our technical meeting by Mr. Tim Davis at the Rice bowl on the 19th. Mr. Davis is the Technical Director for TAM International, and he will be speaking about cement integrity for steam recovery operations. As always, please be sure to RSVP for the technical meeting so we make sure to have enough seating and food for everyone, and so you can be eligible for the lucky member of the month drawing!

Sincerely,
Craig Hossfeld
CRC

Calendar Events 2016

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
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<tbody>
<tr>
<td>May 19, 2016</td>
<td>Technical Forum Meeting</td>
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<tr>
<td>May 20, 2016</td>
<td>Sporting Clay Shoot</td>
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<tr>
<td>June 16, 2016</td>
<td>4th Annual West Coast BBQ &amp; Scholarship Awards Night</td>
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<td>August 18, 2016</td>
<td>Technical Forum Meeting</td>
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*This schedule is tentative and subject to change*
Ensuring Long Term Cement Integrity for Steam Recovery Operations

Assets which require steam injection to produce heavy oil present many challenges to well bore integrity. All the best efforts to ensure a competent cement sheath can be executed operationally and with advanced cement chemistry, yet migration of steam can still occur. Formation integrity or pore pressure often get in the way of the perfect cement job. If the perfect cement job could be obtained, the forces introduced into the casing during steam injection often compromise cement integrity. These issues are manifested when steam pressure is noted at surface on one or more annuli.

Using swellable packer technology as a compliment to cement has been a strategy that has been around for 10 years. Advances in elastomer and packer design have allowed the use of swellable packers to be included in wells which require steam injection. During a well design, considering the placement of swellable packers in critical areas, such as below casing shoes or in an outer annulus is routinely done in the oil industry. This approach has also been adopted in wells which will experience steam injection. Additional uses of high temperature swellable packers include zone isolation in non-cemented applications and remedial operations to repair damaged wells. Case histories will be presented highlighting the use of high temperature swellable packers.

Bio

Tim Davis is the Technical Director for TAM International headquartered in Houston, Texas and has been with the company for nine years. He manages Technical Services, Product Line Managers, Marketing, and Training. Prior to working for TAM, Tim spent 19 years in the wireline industry in both the cased hole and open hole markets. He has authored and co-authored a number of SPE papers. He is a graduate of Texas A&M University with a Bachelor of Science degree in Petroleum Engineering.
LMOTM: Tim Frame (MTS)

Tim arrived in CA in Jan 1982 with a newly printed Petroleum Engineering degree from West Virginia University. Halliburton financed Tim’s education by allowing him to work 80-100 hours/week in the Appalachian Basin during the boom year summers of 1978-79-80-81. He came west when Gulf Oil said Bakersfield was near the beach. The closest he came to drilling engineering was training on a Gulf Oil drilling rig for 5 weeks in Odessa, TX. The training prepared him to be an Environmental rig monitor for the Cross Island Alaska exploration well from Oct 1983 to April 1984.

He then worked for Chevron at Elk Hills for 5 years then Taft for 4 years as a Production engineer. He switched to oil service when BJ Services needed a District Engineer in Ventura in 1995. He primarily worked on offshore platforms doing cementing and acidizing. He came back to Bakersfield in 1999 as a salesman for BJ. He helped BJ Services land the Aera Belridge fracturing contract in 2004. He was the SJV SPE Chapter Chairman for 2005-2006. He became the Pressure Pumping Sales Manager when Baker Hughes bought BJ Services in 2010. In 2014 he switched back to salesman as a BDM. He now works for MTS Solutions in acidizing sales.

He has been married to Kathleen for 30 years. She teaches 4th grade in the Norris School District. They have twin sons Grant and Ethan, who both graduated from CalPoly SLO in 2015 with MS Computer Science. Both are employed in the computer industry in Southern CA.
AADE Website www.aade.org/chapters/west-coast/

Steve Thomas Semi-Annual Shoot
5 DOGS SHOOTING RANGE FRIDAY - MAY 20th, 2016
SHOOT & LUNCH $125.00; STATION SPONSOR $200.00

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<th>SHOOTER</th>
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<th>ENTRY FEE</th>
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ENTRY DEADLINE: May 20th, 2016
REGISTRATION STARTS at 7:30am
SHOOT STARTS at 9:00am

PLEASE SUPPORT the SCHOLARSHIP FUND by being a SPONSOR or
Donating Raffle Prizes

Make checks payable to: AADE, P.O. Box 9953, Bakersfield, CA 93389
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<th>Dallas/Ft. Worth</th>
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<th>Lafayette</th>
<th>New Orleans</th>
<th>West Coast</th>
<th>Denver</th>
<th>Permian Basin</th>
<th>Mid-Continent</th>
<th>Anchorage Alaska</th>
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### Last Name  
First Name  
MI

Company  
Title  
Business Phone

Address  
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City  
St.  
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### Business Type: (Please circle one)

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J. Other

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**AADE FORM No. 920 (894) Rev. 03/24/2015**  
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**Mail Form and Payment direct to appropriate Chapter(s).**

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