

## The Alaska Driller

The Newsletter of The American Association of Drilling Engineers  
Anchorage, Alaska Chapter - PO Box 93538 Anchorage, AK 99509-3538

### AADE AK Chapter MISSION

*To provide the forum for the dissemination of practical drilling technology to those employed or interested in the drilling industry.*

### AN AADE Monthly Forum

When: **Wednesday – October 21, 2015**

**RSVP by EoB  
Mon 10/19/15**

Time: **11:30 AM - 1:00 PM**

Where: **BPXA Atrium Level Conference Rooms A & B**

Speaker: ***Dan Robertson - BPXA***

Topic: Coiled Tubing Deployed Gas and Water Shutoffs in  
Alaska, Utilizing a Polymer Gel and Microfine Cement

Reservations: <https://www.123signup.com/register?id=pmbdt>

or <http://www.aade.org/chapters/alaska/>

### **From the President** by Eric Dompeling, SolstenXP [eric.dompeling@solstenxp.com](mailto:eric.dompeling@solstenxp.com)

If you missed the September combined meeting with the SPE – you missed a great presentation. Clair Joseph with AK-LNG presented a review of the proposed project from South to North, including the Gas treatment plant, the basic pipeline route and capacity, the LNG facility in Nikiski and the 3,000 foot dock to the deepwater loading facility.

At this point everything is in the Pre FEED stage of planning, which is expected to be wrapped up in 2016, at which point the project will move to the FEED stage. The Initial draft to FERC has been submitted and the second draft is due later this year for review and comment. The Notice of intent to prepare an environmental impact statement for the planned Alaska LNG Project is up for review with the FERC and request for comments on environmental issues re the Alaska Gas line Development Corporation et al is under Document PF14-21. If you would like to comment on the EIS process you can visit the FREC website at this address; <http://www.ferc.gov/docs-filing/esubscription.asp>

The following are answers to several questions asked at the lunch meeting about the AK-LNG project. If you would like to find out more information about the AK-LNG Project you can find it on their website at: <http://ak-lng.com/>

**Q1 What is the estimated in-state gas demand that would be accessed from the pipeline?**

A1 Based on AGDC's recently concluded in-state demand forecast, 2014 demand (excluding CP LNG plant exports) was estimated at 214 MMscfd. The state estimates that existing demand (no growth from new users based on new access, etc.) will rise to around 240 MMscfd by 2040. If a pipeline is built and the state is able to pick-up new domestic customers (mines, alignment communities, etc.) the state estimates demand could grow to between 330-420 MMscfd by 2040

**Q2 What will be done with the H<sub>2</sub>S that is stripped from the gas at Prudhoe Bay?**

A2 The H<sub>2</sub>S gas will be returned back to Prudhoe Bay

**Q3 What will the pipeline pressure be?**

A3 Current design basis has normal operating pressure of 1070 psig. Maximum pressure is 1150 psig.

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This month's Presentation will be about Coiled Tubing Deployed Gas and Water Shutoffs in Alaska, Utilizing a Polymer Gel and Microfine Cement, from Dan Robertson. I'm personally very interested in the presentation from Dan, having been involved in some of the original cement work with coil done on the Slope in the early 80's. This should be an interesting look at the progress of Water and Gas shut off with coil over the last 30+ years..

**Abstract**

A common problem in oil and gas wells is excess free gas or water production from only certain portions of the completed interval. Other portions of the lower completion may still have viable oil or gas production potential if a method can be devised to successfully shut off the unwanted fluids. A coiled tubing deployed profile modification technique was developed primarily to shut off excess free gas production from the heel of cased and perforated horizontal oil wells. The technique has also been used for water and gas shut-off in both vertical and horizontal wells in a variety of lower completion types. The technique involves installing a temporary plug back to protect the toe or bottom most perforations to be preserved, then pumping a polymer gel followed immediately by a micro-fine cement to shut off the shallower or heel perforations. The objective of the gel and cement is to intentionally damage the rock matrix for a radius of ~2 ft around the perforated intervals to be shut off, creating a zone of little or no permeability adjacent to the wellbore. If successfully executed, there is no cement to be milled out of the liner post squeeze and no restrictions or liner diameter reduction after the job. Approximately 30 horizontal wells have had a cumulative total of almost 13,000 ft of perforated intervals squeezed with this method. The technique has also been used to shut off liner corrosion leaks in horizontal wells and for perforation shut off in deviated wells. Post-job production logs in several of the wells indicated little or no flow from the squeezed intervals even 1 to 2 years after the job.

**Biography**

Dan Robertson graduated from the University of Alaska, Fairbanks with B.S. degrees in Petroleum Engineering and Mechanical Engineering in 1987. He has worked for BP for 28 years in a variety of petroleum engineering, well interventions, drilling, completions, reservoir management, field development, and production operations positions. Dan has many years of experience with several Alaska oilfields and has had various consulting type roles involving work in Azerbaijan, India, Russia, Middle East, etc. He has been involved in development of gas and water shut off techniques with a variety of methods throughout his career. He is currently a Petroleum Engineering Advisor with BP.

## The 13<sup>th</sup> Annual **Fin Feather or Fur Food Festival.**

We had 14 Cooking Teams and the food was well received by the crowd of around 800 people that braved the 70 degree weather. I noted some sun lotion being applied liberally during the afternoon. There was a spirited competition between the teams for the top honors and everyone had a great time.

### *2015 Cooking Competition*

#### Entrée:

**1<sup>st</sup> Place –**



**2<sup>nd</sup> Place –**



**3<sup>rd</sup> Place –**



#### Best Dessert (People's Choice)



#### Showmanship



A big Thank You to our Judges for taking the time to come to the event, Sampling the food and Judging the Competition.

**Thank you Judges!**

**Alex Perez – Haute Quarter Grill / Table 6**



*Haute Quarter Grill*

**Lynn Perez – Haute Quarter Grill / Table 6**



**James Mauer – Humpy's Great Alaskan Ale House**



**Caren Maffucci – Activate Promotions & Marketing**



**Shanna Davidson – ASRC Energy Services**



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13th Annual Fin, Feather or Fur Food Festival



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**Volunteers**

We could not have accomplished the event without a lot of Volunteers. Thank you all for spending the day getting the area ready and making sure we left the UNIQUE Machine facility in the same condition we found it in when we arrived.

Candice Burke  
Bob Coolidge  
Brittany Clift  
Abhijeet Tambe  
Garret Staudinger  
Mike Yore & Marilyn Yore  
Jill Rogers  
Gary Eller  
Jeremy Albright  
Julie Sanchez

Angela Cernich  
Samir Patil  
Cary Taylor  
Jacob Thompson  
Kathy Campoamor  
Michelle Steward  
Mary Endacott  
Lowell Crane  
Diana Guzman  
Rachel Kautz

Financial results of the event will be announced at our October Lunch Meeting

**COMING EVENTS – Save the date**

10/21/15

**October Forum**

Coiled Tubing Deployed Gas and Water Shutoffs in Alaska,  
Utilizing a Polymer Gel and Microfine Cement  
Dan Robertson BPXA

11/18/15

**Joint AADE and SPE November Forum,**

Point Thomson Drilling update  
Lauren McGovern, Exxon Mobil



12/18/15

**December Forum**

Challenges of ESP installation on a drilling platform  
Brian Norton, Summit ESP

**AADE Meeting News** (Please post in Coffee Rooms)

<b>Date:</b>	<b>Wednesday, October 21, 2015</b>
<b>Speaker:</b>	<b>Dan Robertson</b>
<b>Topic:</b>	Coiled Tubing Deployed Gas and Water Shutoffs in Alaska, Utilizing a Polymer Gel and Microfine Cement
<b>Time:</b>	<b>11:30 A.M. – 1:00 pm</b>
<b>Place:</b>	<b>BPXA Atrium Level Conference Rooms</b>
<b>Cost:</b>	<b>\$25 for all members before 10/19 \$30 after 10/19</b>
<b>Reservations:</b>	<b>AADE.org &gt; Alaska</b>

*To register for any other event, click on **calendar** in 123signup and you will see a list of active events.*

**Seating Capacity Limited to 60 people**



**Call for 2015-16 Speakers at UAF**



If you have the time to travel to Fairbanks to speak to the AADE Student Section on one of the following subjects contact James Niedermeyer at [James.Niedermeyer@bp.com](mailto:James.Niedermeyer@bp.com)

- Completion design
- Managed pressure drilling
- Under vs. Over balance drilling
- Coil Tubing drilling / Coil completions
- Gas lift, ESP and velocity string production
- Production design and engineering
- MWD/LWD
- Inflatable Bridge Plugs
- Extended reach drilling and completion

**Friday Presentation**



Other News!



**AADE** AMERICAN ASSOCIATION OF DRILLING ENGINEERS

**FLUIDS 2016**  
TECHNICAL CONFERENCE AND EXHIBITION  
*The Global Premier Drilling, Completion,  
Cementing and Fracturing Fluids Conference*

**Call for Papers...**

Those interested in submitting a non-commercial technical paper and making a presentation are invited to submit a 250 word (maximum) abstract using the AADE template available at [www.aade.org](http://www.aade.org)

**October 02, 2015** — Abstracts will be due

**October 30, 2015** — Authors will be notified of acceptance

**February 12, 2016** — Papers will be due

**March 11, 2016** — Presentations will be due

**April 12-13 | 2016 | Houston Texas**

**Hilton Houston North**  
12400 Greenspoint Drive  
Houston, Texas 77060  
281-875-2222



Register for the conference at:  
[www.aade.org](http://www.aade.org)

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