

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 – January 20, 2016**

**RSVP by EoB
Mon 1/18/16**

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

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

Speaker: **Cathy Foerster, AOGCC Chair**

Topic: **An update on activity at the AOGCC**

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

or www.aade.org/chapters/alaska/

From the President by Eric Dompeling, SolstenXP eric.dompeling@solstenxp.com

With the holiday season now behind us and the price of oil headed in the opposite direction of the local temperature, we are firmly in the grip of an interesting winter.

Our December speaker took a slightly different tack. A brief history of the ESP's followed by discussion of the impact of inclination, dogleg severity, casing size, and set depth on an ESP completion was presented. I found the history of ESP's fascinating - did you know where the REDA name came from? Ask someone who was at the meeting they should be able to fill you in – or drop me a note.

Brian Norton agreed to provide some insight into the considerations for a well design with an ESP completion in mind. I think it was a review for most drilling engineers, with wellbores in mind, and the need to minimize doglegs and ESP placement within the wellbore.

I believe that the review was of interest to those who attended and might have gotten as much out of the chance to see some part that were still intact – as opposed to a tear down to see what went wrong.

Thanks Brian for an informative presentation!

January Speaker

Cathy Foerster, AOGCC Chair

An Update from the AOGCC

Cathy Foerster, the Chair Commissioner of the AOGCC, will be the speaker for our January meeting. Ms. Foerster has spoken annually to the AADE for the past decade providing us with an update of the Commission's activity and operations.

We look forward to hearing about hydraulic fracturing regulations implementation, North Slope gas sales decision, BLM legacy well work, and a few other interesting topics.

Bio:

Cathy has worked for Exxon, ARCO, BP and PRA in various engineering and operations assignments before the governor appointed her to the position of Engineering Commissioner at the AOGCC on March 23, of 2005.

She began her career with Exxon in 1977 and joined ARCO Oil & Gas in 1979 as an operations engineer. Before moving to ARCO Alaska in 1992, Foerster was research director at ARCO Exploration & Production Technology.

In Alaska she was production superintendent for the eastern operating area of the Prudhoe Bay field. She was planning and new field development supervisor for North Slope satellite fields, and from 1999-2000 and the government relations director, representing ARCO's interests as a lobbyist before the Alaska legislators and other public officials.

Cathy earned a bachelor of science in mechanical engineering from the University of Texas in Austin.



Call for 2016 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

Some suggested topics are included below, but not limited to the following. If you have a topic that might be of interest to Students, contact James Niedermeyer or Dr Patil and suggest a presentation.

- **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**
- **Oilfield Service company process and Procedures**

Friday Presentation

Tips from the State

From AOGCC; by Guy Schwartz

Tips from the State

Permitting Statistics (as of December 31, 2015)

Permits to Drill:	2015-228	2014- 208	
Sundry Notices:	2015-769	2014- 688	

New Injectors ¼ mile Area of Review (AOR) form:

There have been many columns on injector AOR in the past. In the case of a new injector under an existing Area Injection Order (AIO) an AOR still must be done.

Under regulations 20 AAC 25.402 there are several hurdles that a new injector must meet in order in to ensure all fluids are confined to the specified pool. To help standardize the process, the AOGCC is requesting a new form that outlines the mechanical integrity/zonal isolation of the proposed injection well as well as any other affected wellbores in the ¼ mile AOR (this includes any P & A'd wellbores). Below is shown a sample of a format we suggest using.

The main focus of the spreadsheet is to capture the target injection zone and cement data on a TVD basis for the all the affected wells in the AOR.

This makes it much easier to validate if cement coverage is adequate and also provides a column for the latest MIT data on the wellbores.

WELL NAME	STATUS	Top of X-sand Oil Pool (MD)	Top of X-Sand Oil Pool (TVD)	Top of Cement (MD)	Top of Cement (TVD)	Top of Cement Determined By	Reservoir Status	Zonal Isolation	Cement Operations Summary	Mechanical Integrity
Proposed Inj well	New Injector	7739'	6243'	6450'	5227'	CBL	Perfs open for injection	CBL TOC 6450' & Packer @ 7565' (less than 200' from top perf)	300 sxs Class G & 175 sx AS I	Passing MIT-IA to 1550 psi on 12/15/15
Well #1	Producing	8737'	6253'	7000'	5022'	CBL	Perfs open for production	CBL TOC 7000' & Packer @ 8619' (less than 200' from top perf)	300 sxs Class G & 175 sx AS I	SI-TIFL Passed. Initial T/I/O = si1975/1925/1115 on 3/11/15
Well #2	Producing	9283'	6212'	7900'	5200'	CBL	Perfs open for production	CBL TOC 7900' & Packer @ 9181' (less than 200' from top perf)	350 sxs Class G & 175 sx AS I	Passing MIT-OA to 1800 psi on 12/21/15 - TIFL passed July 2014
Well #3	P & A	8,800	6100'	8000'	5200'	CBL	Plugged and abandoned... retainer at 7500 ft with 100 ft cap cement.	CBL TOC 8000' - tubing pulled and retainer at 7500ft. (100 bbl pumped below retainer - 10 bbl on top)	350 sxs Class G & 200 sx AS I (primary prod casing cement)	Well head removed. Fully P & A'd

Note that the above form is not the only requirement for injection well approval under 20 AAC 25.402 but it does provide a good way to document a large percentage of the required information.

Please share this Guidance Bulletin with all appropriate members of your organizations.

AADE COMING EVENTS – Save the date

1/20/16	January Meeting Cathy Foerster, AOGCC	
2/17/16	February Meeting Operators Forum	Hilcorp,
3/16/16	March Meeting Contractors Forum	Halliburton, Tendeka, Welltec



Society of Petroleum Engineers

Meeting Schedule

Monday, January 25th – Distinguished Lecturer Michael Choi, ConocoPhillips, *LNG Basics for Petroleum Engineers*

Wednesday, February 17th – Joint luncheon meeting with AADE - Operator's Forum

Wednesday March 16th – contractor forum

Monday, April 18th – Distinguished Lecturer Mary Van Domelen, Continental Resources, *Bridging the Gap between Drilling & Completions: Challenges & Solutions in Horizontal Wells*

Wednesday, May 25th – Distinguished Lecturer Robert Shelley, StrataGen, *Optimization of Multi-Fractured Horizontal Completions: A New Industry Challenge*

AADE Meeting News (Please post in Coffee Rooms)

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Topic: ***An update on activity at the AOGCC***

Time: **11:30 A.M. – 1:00 pm**

Place: **BPXA, Conference Room A & B**

Cost:
\$30 for all members before 1/18
\$35 after 1/18

Reservations: <http://www.aade.org/chapters/alaska/>
or,
<https://www.123signup.com/register?id=pyhbz>

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

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