



**IADC Well Control Committee
Meeting Minutes
11th December 2018
IADC Crown Center
Houston, TX USA**

Contractor roundtable

An informal discussion of drilling contractors was held prior to the Well Control Committee meeting. Key topics discussed included the following:

- Recent EDS event in GOM during microburst storm with winds in excess of 90 mph; activated from rig floor, spaced out but not in a position to hang off
- Pushback from overseas operators to doing negative pressure test (required in US)
- IADC Deepwater Well Control Guidelines guidance on negative pressure tests
- Rig reactivation and potential effects on well control
- Previously experienced personnel returning to industry after hiatus with “rusty” skills
- Handling water flow correctly, getting good cement job before nipping down BOP
- Former rig employees working as consultant wellsite reps
- Incident involving drilling into coal mine in Ohio; unmapped mine shafts are plentiful in some areas.
- Practices on ballooning
- Efforts to maintain integrity of BOPs

Well Control Committee Meeting

Welcome & Introductions

Pete Bennett of Pacific Drilling (Committee Chairman) opened the meeting and welcomed the attendees. Steve Kropla of IADC provided a building safety briefing and reminded everyone the meeting was subject to the [IADC Antitrust Policy and Guidelines](#).

Mr. Bennett asked those present to introduce themselves.

Underbalanced Operations Training for Rig Crews

Mike Garvin, Patterson-UTI and Marcus Mason, Smith Mason presented an overview of the training program focusing on underbalanced well control fundamentals developed by the two companies for Patterson-UTI rig personnel.

Mr. Garvin noted that prior to 2014, “conventional” wells accounted for most drilling activity in the US, with a relatively small number of “unconventional” wells drilled underbalanced (UBO) or with Managed Pressure Drilling (MPD). Now, he said “Unconventional is the new conventional,” with the bulk of wells now drilled with UBO, MPD or Returns Managed Drilling (RMD).

After a gap analysis showed that current WellSharp curriculum was largely focused on conventional wells, Patterson-UTI contracted Smith Mason & Co. to develop a specialized course for rig workers in underbalanced well control fundamentals (UBWCF).

The UBWCF curriculum includes instruction on long lateral shale plays, underbalanced well procedures, increased ROP in today's environment, ballooning, modernized equipment, and communications techniques.

The two-day course is designed to provide employees with the knowledge required to allow them to make good well control decisions. A UBWCF pilot program was launched in July and by year end approximately 1,300 Patterson-UTI employees will have participated in the program.

Plans to share the program with industry are underway. IADC has met with Patterson UTI to discuss how to best adapt the specialized course into the WellSharp system.

IOGP Wells Expert Committee Update

Jim Powers of Chevron made a presentation on IOGP WEC Well Control Incident Subcommittee and their efforts regarding Well Control Lesson Sharing. He recapped a presentation he made to the Well Control Committee in December 2017 and provided background of IOGP.

He noted that the IOGP WEC well control incident reports are currently shared mainly among operators, with the man on the rig. The group would like to provide resources so that lessons learned from incidents can be shared more broadly.

He then presented a short video that had been made based on an MPD incident that had been reported to IOGP. The video was designed to illustrate a critical situation that had occurred, with occasional stops built in to allow discussion of the event and the response to it.

The group's reaction to the video was positive. Some said it was very simple but with effective visualization, and would be good for starting a conversation. Most felt this type of video would be useful as a learning aid in a well control course or used to discuss specific operations when planning activities on a rig in a toolbox talk.

Mr. Powers stated that the WEC will reformat its well control incident reports into case study material that will be shared with well control training providers. IOGP will continue to develop and distribute case study material to make a steady source available.

Although the videos are intended to be stand-alone, he said it might be possible to add a facilitator guide at some point. In addition, the intent with future videos is to possibly combine alerts with multiple lessons.

Once produced, videos will be posted on IOGP web site. They could also possibly be accessed from a link on the IADC web site.

Mr. Powers noted that a number of incident reports collected by IOGP are publicly available from the IOGP web site at safetyzone.iogp.org. There they can be found in the section titled "Well control incident lessons shared."

The group took a short break.

WellSharp Update

Mark Denkowski of IADC gave a presentation the status of WellSharp. IADC recently celebrated the issuance of the 100,000th WellSharp certificate since the program was implemented in 2015.

Overall, more than 46,000 students have been through WellSharp instruction this year, 8,000 more than in 2017. The number of classes has been consistently increasing.

He said IADC would roll out WellSharp Plus after the first of the year. The WellSharp version will be different from WellCAP Plus in that it can be done with any level of simulator.

IADC has shot a series of videos to demonstrate certain principles of Crew Resource Management that will be included in the WellSharp facilitator class.

He noted the Well Servicing curriculum has been successful since it was launched in April 2018. This course is designed specifically for equipment operators. There is also an optional subsea component which has not been used by many providers.

Kristin Blissit of IADC mentioned the introductory level of the Well Servicing curriculum, which has been adopted after ballot. IADC is now developing questions for the database. These will be tested and are expected to be rolled out by 2nd Quarter of 2019. IADC is currently working on translations into different languages.

RAPID-S53 BOP Reliability JIP

Mike Kucharski, Project Manager of the RAPID-S53 database for IADC, gave a presentation and demonstration on the operation of the database. There are currently about 6500 events in database, which started collecting data in 2015.

He said the JIP spent much of the past year collecting component population data from equipment owners to provide statistical context to the number of events reported. It is now working to apply cycle count data to aid in trend analysis and reliability prediction.

Since the system currently provides event notification only at System Integrator level (OEMs), this limits ability to communicate event details to component manufacturers. RAPID-S53 now has a pilot program underway to ascertain the feasibility of expanding failure reporting communications to sub-suppliers.

The JIP has been working with the Bureau of Transportation Statistics (BTS) on its 2016 and 2017 reports. The JIP is now planning a direct data conduit to BTS so reports can be transmitted electronically. BTS has been designated by BSEE as the data repository for equipment failure reporting required under the Well Control Rule.

Mr. Kucharski demonstrated how users could fill out reports. He also noted that the system Guidance Document and Offline Reporting Form are also available at the JIP's website at www.rapid4s53.com. A number of Information Bulletins that were originally published in JIP monthly reports can also be requested from the website. These focus on a number of different BOP components.

Update on WCC Subcommittees & Workgroups

Well Control Practices Subcommittee: Paul Sonnemann, SafeKick – Mr. Sonnemann reviewed a list of 30 practices that had been identified for review by the Subcommittee. The group would like to discussing pros and cons and whether alternative techniques exist. The Subcommittee will meet following the general Well Control Committee meeting.

Simulator Subcommittee – Michael Arnold has left Intertek. Dave Cormack of Auriga Training has attempted to revive the group, particularly on testing criteria. However, no meetings of the group are planned.

Curriculum Subcommittee: Matt Parizi, Chevron – There was no report from this group.

Barriers Subcommittee – Scott Randall, PlusAlpha Risk – There was no report from this group.

Next Meeting

The next Well Control Committee meeting will be at 9 a.m. on Wednesday, 13th March 2019 at IADC's Crown Center 1 in Houston. This will take place at IADC's offices at 3657 Briarpark Drive, Suite 200. The meeting will be preceded by a Drilling Contractors Roundtable from 8 a.m. to 9 a.m.

Attendance:

First Name	Last Name	Company Name
Mohamed	Boukamcha	AMERICAN BUREAU OF SHIPPING
John	Broussard	BP GLOBAL WELLS INSTITUTE
Neil L	Funwie	BSEE
Ian	McDaniel	CAMERON A SCHLUMBERGER COMPANY
Jonathan	Snyder	CAMERON A SCHLUMBERGER COMPANY
Frank W.	Pearson	CHEVRON
Matthew	Parizi	CHEVRON
Bill R	Butler	CS INC. (CS)
Zohair	Memon	CUDD WELL CONTROL
John	Fu	CUDD WELL CONTROL
Jon	Shoemaker	DIAMOND OFFSHORE DRILLING
Michael Earl	Williams	DIAMOND OFFSHORE DRILLING INC.
Forrest R	Jones	ENSCO PLC
Thomas S	Proehl	ENSCO PLC
Stephanie	Chase	EXCELL SERVICES LLC
Mitchel	McKinnis	HELMERICH & PAYNE
Albert	Goicochea	HELMERICH & PAYNE
Steve	Kropla	IADC
Mike	Kucharski	IADC
Mark	Denkowski	IADC
Bruce	Humphries	INDEPENDENCE CONTRACT DRILLING

Matt	Wilson	INDEPENDENCE CONTRACT DRILLING
Yoosef	Sardooee	INTERTEK CONSULTING & TRAINING
Gordon	Smith	MAERSK DRILLING USA INC
Petar R	Radulovic	MAERSK TRAINING, INC
Keeley John-Paul	Bell	NOBLE DRILLING
Chris Spanky	McGehee	NOBLE DRILLING CORP.
Orlan	Lyle	NOBLE DRILLING SERVICES INC.
Peter D	Bennett	PACIFIC DRILLING
Mike	Garvin	PATTERSON-UTI DRILLING COMPANY
Isamu	Ikeda	PETROBRAS UNIVERSITY
James	Murray	PRECISION DRILLING COMPANY
Paul	Sonnemann	SAFEKICK
Marcus	Mason	SMITH MASON & COMPANY, LLC
Larry	Schmermund	SMITH MASON & COMPANY, LLC
Jerome J	Schubert	TEXAS A&M UNIVERSITY IADC STUDENT CHAPTER
Omer	Kaldirim	TEXAS A&M UNIVERSITY IADC STUDENT CHAPTER
Barry	Braniff	TRANSOCEAN
Matthew	Vorenkamp	VORENKAMP WELL CONTROL TRAINING
Barry J.	Cooper	WELL CONTROL SCHOOL-SYSTEM 21
Todd	Roberts	WILD WELL CONTROL INC
Haris	Qureshi	WILD WELL CONTROL INC.
Kevin A	Braggs	XCEL SAFETY TRAINING SOLUTIONS
Gary	Landrum	
Bob	Sliva	