



**IADC Well Control Committee Meeting Minutes
17 February 2010
Hilton Houston North, Houston, TX**

Minutes:

Welcome, Building Safety & Introductions

IADC Antitrust Guidelines & Policies

Mr. Brian Maness, Diamond Offshore, Committee Chairman, welcomed members to the meeting. Mr. David Genung, ExxonMobil, meeting host, provided building orientation and safety information.

Mr. Maness reminded members of the IADC Anti-Trust Policy, gave highlights of the policy, and provided each attendee a copy of the Policy.

Attendees introduced themselves. At least four attendees indicating they were new to the Well Control Committee.

Contractors' Assessment of Well Control Competencies

Travis Webre and Goran Andersson, Chevron

Chevron Well Control Team presented Chevron's new policy regarding Contractor Competency Assessment.

A brief Timeline was shown regarding the MMS Subpart O testing statistics. Chevron proactively rolled out a new company policy regarding Contractor Competency Assessments In January 2009.

The Policy stated that all Chevron D&C must have a SBU specific plan for assessing competency in well control operations among key contractor personnel. This policy was put into place in order to ensure that key contractor personnel engaged in the execution of Chevron Drilling, Completion, Workover and Well servicing operations are competent in the execution of required well control skills.

The flowchart of the policy application from the Drilling Manager level down to the company man's responsibilities also demonstrated the importance of engagement with the drilling contractor on all levels.

Chevron then presented examples of oral interview questions, hands on evaluations, and written test questions. Each of these strategies was broken into job specific categories.

Operator Procedures for Evaluating Training Programs

Milton Bell, ExxonMobil

Speaker did not show. The time was used for a presentation from Larry Andrews, the Curriculum Subcommittee. See Curriculum Subcommittee report below for details.

Automated Choke

Nick Duhe, described three of M-I Swaco's new technologies: the eSuperChoke, the AutoChoke and the Low Pressure AutoChoke.

The eSuperChoke, allows the tested and trusted technology of the SuperChoke to be converted to an all electronic position control choke. The small footprint of both remote and local consoles allow for choke control in the driller's control room. The eSuperChoke provides a large amount of torque (19,400 lbs/inch) when opening or closing the choke, requiring no more than 8 seconds to respond. An e-actuation system on a SuperChoke, replacing the hydraulic actuator with an electric actuator, takes approximately 45 minutes to install. The eSuperChoke can be operated remotely, locally at the choke manifold, or manually at the choke.

The AutoChoke is used for conventional well control and snubbing operations. Its design is different from position-style chokes in that it utilizes a hydraulically balanced piston to automatically maintain the selected pressure. This allows the operator to easily control BHP on pump startups and shut downs as well as maintain accurate drill pipe & casing pressures during well control scenarios. The AutoChoke has a 3-psi sensitivity, and moves in oscillating fashion in an attempt to hold the designated pressure. The AutoChoke incorporates tungsten carbide and Stellite hard-faced replaceable internal parts to increase wear resistance.

The Low Pressure AutoChoke Console (LPAC) is a beneficial product for the Managed Pressure Drilling (MPD) markets. LPAC accurately controls pressures from 0-1500 psi in increments of +/-1 psi. Redundant electrical, pneumatic and hydraulic power allows the LPAC to run stand alone from rig systems, making Tier 1 & 2 MPD more reliable. The LPAC touch screen console makes for easy operation, and the system has battery back-up.

Break (sponsored by ExxonMobil)

Instructor Requirement for Introductory Level

Petar Radulovic, Diamond Offshore, raised questions about qualifications of WellCAP instructors who teach the introductory course only. Mr. Radulovic pointed out that Bulletin 09-01 specifically excludes introductory instructors from the new instructor requirements. WellCAP Accreditation Criteria, specified in WCT-01, implies introductory instructors must meet two of three requirements: 1. valid supervisory WellCAP certificate, 2. evidence of relevant operational experience or technical skills, and 3. evidence of presentation skills or teaching experience. Mr. Radulovic points out that these requirements are quite vague and leave WellCAP Review Panel members without clear guidance as to what constitutes sufficient qualifications.

During discussion, it was pointed out that the original system permitted rig personnel to teach the introductory course. This was a hold-over from the era of Minerals Management System regulation of well control training.

Ms. Kelly reported that Bulletin 02-03 changed requirements for the introductory course and instructors, but it appears that these requirements were not included when WCT-01 was updated in 2004. According to Bulletin 02-03 and WCT-20 Self-Certification Checklist, companies teaching Introductory WellCAP need to describe the process of identifying/designating facilitators/instructors and how the program will be administered. In addition, they must designate a person with a valid recognized fundamental/driller or supervisory level well control certificate to sign off documentation of training delivery and successful completion of pit and trip drills.

Discussion ensued around not only introductory instructor requirements, but also requirements for delivery of the Introductory course itself. It was suggested a task group draft recommendations for the introductory course (including instructor requirements) and present those recommendations at the next committee meeting. Mr. Radulovic will head this task.

Action Items: Draft Introductory course requirements

Well Servicing Survey Results

Mike Killalea, IADC, provided a brief presentation on the survey results on well control training practices within the well servicing/workover segment of the industry. The survey was distributed to 270 IADC and American Energy Services Companies members in early November 2009. The survey was designed in surveymonkey.com. Fifty-four responses were received. Most respondents provided workover or production services. The majority of respondents are currently operating in the Central and Western United States. Responses were received from companies operating internationally as well.

The results showed that 60.4% of respondents require formal well control training. Two-thirds of those require WellCAP. Of those approximately 40% not requiring formal well control training, most use in-house training or International Well Control Forum testing.

Only 13% of respondents provide no formal well control training for their employees. Reasons given for providing no formal well control training included: training not available in area, customer does not require training, or training considered not needed.

The Well Services Committee's next steps include: 1. building awareness of the need for well control training and the availability of WellCAP training, and 2. working with the Well Control Committee to enhance WellCAP curricula for well servicing topics.

A link is provided for your review of the entire recommendations.

Lunch (provided by ExxonMobil)

IADC Subcommittee Reports

- Simulator – Larry Andrews, Wild Well Control reported that Cheryl Francis, Occidental Petroleum, had participated in 2-day Simulator Maintenance training. Ms. Francis described the training and indicated it has been very valuable training for her. CS offered to provide this training free of charge to instructors who work with the CS simulators.
- Curriculum – Goran Andersson, Chevron, reported that the Subcommittee has not met, but would be meeting soon. No news to report.

Larry Andrews, Wild Well Control, raised questions about the length of the Drilling/Workover/Subsea/Coil Tubing/Snubbing/Wireline "Grand Slam" course, which currently requires 48 hours to completely cover all topics. Mr. Andrews indicated that this question has been brought to the Well Control Committee on several occasions previously. He requested that the matter be considered by the Curriculum Subcommittee, proposing that either the maximum course day length be changed from 9 to 10 hours, or reduce the total time from 48 to 45 hours. Either option would accommodate completing the course in 5 days.

Mr. Andrews pointed out that, because the course is a merging of several courses that were originally designed as stand alone courses, there is now much redundancy in topics. The current course merges Drilling (20 hours minimum), Workover/Completion (8 hours), Subsea (5 hours) and Coiled Tubing, Snubbing and Wireline each contributing 5 hours. He gave the example of the snubbing component of the course, which has 82 topics in the stand alone course, 66 of which are duplicated in other components in the "Grand Slam" course. Mr. Andrews suggested decreasing the Snubbing, Coil Tubing and

Wireline components of the “Grand Slam” course by one hour each to reduce the total time to 45 hours.

During discussions, it was pointed out that guidelines for how to combine courses are not in place. Combining courses at this time is simply by combining hours. This does not include a review of curricula to remove recurring topics. It was requested that the topic be discussed in greater depth at the next meeting.

Link provided for your review,

[www.iadc.org/committees/wellcontrol/Revisit Hours RequirementGWN.ppt](http://www.iadc.org/committees/wellcontrol/Revisit%20Hours%20RequirementGWN.ppt)

Action Items: 1. Get feedback on what operators would accept as minimum for the “grand slam” training. 2. Discuss “grand slam” course at next meeting.

Roundtable/Workshops in conjunction with Conferences

Brian Maness, Diamond Offshore

Mr. Maness asked member of the Well Control Committee whether or not the Committee should consider planning special events that could be held in conjunction with IADC conferences. The consensus was that Workshops to provide WellCAP instructors with Continuing Education Credits (CEC)-type training would be valuable.

Specific ideas included:

- Providing teleconference training
- Have IADC and IWCF work together on issues of mutual concern (for example, program quality control issues or documenting instructors’ simulator hours)
- Simulator competence assessment
- Use standard agenda for each region, but adding local input for topics or speakers
- Distribute a request for event topics from Committee members

A Simulator Workshop similar to the one held in Denver in August 2009 was recommended for this year’s upcoming well control conferences. Both CS and Drilling Systems Ltd. representatives will be attending both well control conferences for 2010, and agreed to participate in the Aberdeen Workshop.

Brenda Kelly, IADC, reminded attendees that WellCAP instructors can request documentation of their conference attendance to use as evidence of CEC.

Action Items: IADC staff will organize a Simulator Workshop for WellCAP Instructors in conjunction with each of the Well Control Conferences in 2010.

WellCAP News – Brenda Kelly, IADC

- Australia Competencies Requirements – Ms. Kelly reported that she had been told Australia now requires by law that all rig personnel be well control-competent. In investigating this claim, Ms. Kelly referred the matter to Diamond Offshore Drilling Inc., who has operations in Australia. A. J. Guiteau reported that Diamond personnel had investigated the claim, and concluded that well control competencies apply in Queensland onshore operations. They do not apply to offshore operations. These requirements are operator requirements, and not governmental requirements.
- WellCAP Plus Facilitator Certification course – Two Facilitator Certification courses are scheduled for 2010. The first is scheduled for May 3-7. The second will be October 18-21. Chevron has offered to host the October course. Three members of Chevron’s staff are interested in the course.

- WellCAP Audits needed – Locations where Conditional programs need to be audited: Argentina, Brazil, Egypt, India, Indonesia; Follow-up audits are needed in France, Hungary, Libya, Poland, Mexico, India, Oman, Saudi Arabia, Thailand, Trinidad, and USA (Oklahoma, Utah, and New Mexico in particular).
- Well Control Audit Subcommittee reactivated – A. J. Guiteau and Brian Maness, Diamond Offshore Drilling Inc., volunteered to serve on the audit subcommittee.

Photos needed for new WellCAP brochure – Wild Well Control offered to provide photos or permit a professional photographer to come to the facility to take photos.

Open Discussion

Alex Sas-Jaworsky – In 2005 the Committee had a consensus of what operators considered acceptable content for the Snubbing course. A letter was sent to operators to gain this acceptability. Mr. Sas-Jaworsky suggested sending a similar letter to get operator feedback on what operators would consider acceptable requirements for the Grand Slam course.

Next Meeting Topics

Date: 19 May – Occidental Petroleum (tentative); Wild Well Control (alternate)

Topics:

- Grand Slam course discussion – purpose; curriculum revisions to eliminate duplication and decrease time by 3 hours – Larry Andrews
- Snubbing Curriculum – Alex Sas-Jaworsky
- Introductory course requirement – Petar Radulovic
- WCT-01 Update – Brenda Kelly
- WCT-03 – Petar Radulovic, Hal Kendall, and Erdem Catak

Audit Plan – Brenda Kelly

Adjourn at 2:30 p.m.

Attendance:

Name		Company Name
Kris	Wilson	Aberdeen Drilling Schools International
Kenny	Jordan	Association of Energy Service Companies
Christopher	Schneider	BJ Services Company
Goran	Anderson	Chevron
Misael	Lopez	Chevron
Travis	Webre	Chevron
Jesse	Holster	Consultant
George	Edwards	Consultant
Chuck	Boyd	CS Inc.
Bhavesh	Ranka	Cudd Well Control

A.J.	Guiteau	Diamond Offshore Drilling, Inc.
Brian	Maness	Diamond Offshore Drilling, Inc.
Petar	Radulovic	Diamond Offshore Drilling, Inc.
David	Genung	ExxonMobil
Aaron	Scheet	ExxonMobil
Bob	Burnett	Hercules Offshore
Brenda	Kelly	IADC
Marlene	Diaz	IADC
Mike	Killalea	IADC
Norman	Archibald	International Drilling Schools
Hal	Kendall	Kenda Enterprises
George	Murphy, Jr	MI Swaco
Nicholas	Duhe	MI Swaco
Gary	Kirsch	National Oilwell Varco
Cheryl	Francis	Occidental Oil & Gas
Mike	Mathena	Pacific Drilling
Stuart	Furgang	Pacific Drilling
Claudio	Pineda	PetroEd
Fran	Kennedy-Ellis	Petroleum Extension Service (PETEX) University of Texas at Austin
Lonnie	Neitermayer	Pioneer Well Services
Gary	Nance	Randy Smith Training Solutions A moody Int. Co.
Andy	Erwin	Randy Smith Training SolutionsA moody Int. Co.
Randy	Kirkland	Rockwell Automation
Victor	Fleming	Rowan Companies
Erdem	Catak	Safekick
Alex	Sas-Jaworsky	SAS Industries, Inc.
Barry J.	Cooper	Well Control School
Larry	Andrews	Wild Well Control