

**IADC Well Control Committee Meeting Minutes
Wednesday 11 May 2011
Falck Alford Training Center, Houston TX**



Welcome and Facility Orientation/Safety

Meeting host Andy Erwin, Falck Alford, welcomed attendees and provided building safety information before beginning the Well Control Committee meeting.

Introductions and IADC Antitrust Policies & Guidelines

Brian Maness, Diamond Offshore, Committee Chairman, welcomed members to the meeting and reviewed IADC Anti-Trust Policy and Guidelines. Steve Kropla directed attendees to the IADC website for a copy. The latest revision of the Anti-Trust Policy and Guidelines dated March 2009 is available at <http://www.iadc.org/antitrust>.

Mr Maness gave a special introduction for Mark Denkowski, new Managing Director for Accreditation and Certification. Mr Denkowski joined IADC in April after many years in the oil and gas industry, working both in offshore and land drilling operations. He most recently was employed by Frontier Drilling and served as Chairman of IADC's Competence Assurance Advisory Panel.

Automated Subsea BOP Testing

Mark Franklin, IPT Global, described his company's Blow Out Preventer (BOP) valve monitoring and leak detection system. In describing the IPT Global high technology system for leak detection, Mr. Franklin showed test result that indicate the system detects leaks within seconds of leak onset. Current chart recorder detection systems require minutes to detect a leak. The benefit of quicker detection is minimization of oil or gas kick volume. Additionally BOP monitoring can be performed remotely, providing shore side staff opportunity monitor drilling operations and help prevent.

Mr. Franklin indicated that the U.S. Bureau of Offshore Energy Management, Regulation and Enforcement has indicated interest in the technology. BOEMRE is interested in periodically monitoring BOP performance remotely.

For more information about the automated subsea BOP testing system, go to the company's website: 3ipt.com.

WellCAP Review Panel Meeting Report

Brian Maness, DODI, reported on the WellCAP Review Panel's meeting of 18 April 2011. An orientation was given for new Panel members, and several issues of importance to the WellCAP program were discussed.

Mr. Maness reported on the results of the Panel's deliberations of the three briefs that were circulated to Well Control Committee members for comment and feedback to the Panel. The briefs were prepared by IADC staff, and circulated for comment in February. Approximately forty responses were received on each brief.

Brief 1: Open or Closed Book Testing -- The Panel discussed the public comments, which were strongly in favor of closed book testing. In a vote of 29 in favor of the closed book proposal and 4 opposed, the Panel determined that closed book testing is required for the WellCAP final examination. If the final examination is not comprehensive, intermediate examinations must also be closed book. Open book testing is permitted for any examinations that do not contribute to the

student's course final score. Also final examinations can have an open book component of the test, provided all required course content (i.e., at least 50% of the course topics are covered) is addressed in the closed book portion of the examination.

Questions raised by members as a result of the testing discussion were as follows:

- What number of questions constitutes a comprehensive exam? If intermediate examinations collectively form a composite final score, are there a set number of questions that should be included in these intermediate examinations?
- How are examinations to be graded and the resulting grades reported to IADC?

Mr. Maness indicated these questions would be discussed at a future meeting.

Brief 2: Acceptance of IWCF certificate to satisfy Instructor qualifications – In this brief, three issues were discussed: 1. Should a WellCAP certificate issued by the school employing the instructor qualify as one of the instructor's evidences for maintaining instructor approval? 2. Should the IWCF certificate be accepted as evidence for the instructor's maintaining approval, and 3. Should the IWCF certificate be from another or the same school employing the instructor?

Public comments were strongly in favor of retaining the restriction of requiring the instructor's WellCAP certificate be issued by an outside training provider. Fourteen were in favor of retaining this requirement. Two opposed the "outside school" restriction.

Public comments were also in favor of accepting the IWCF certificate, but only by a slight margin. Eleven were in favor of accepting the IWCF certificate; nine were opposed to acceptance of the certificate. Opposition to the IWCF certificate was generally attributable to the fact that the IWCF certificate is based on testing and not training.

Questions raised that will be discussed in a future meeting were:

- What certificate will satisfy the instructor qualifications certificate requirement? IWCF provides drilling only certificate. What happens when the instructor needs a drilling/workover-completion certificate? Does the IWCF certificate satisfy or not satisfy the certificate requirement?
- Will the instructor be required to have multiple certificates if teaching multiple courses (one for each course)?

Brief 3: WellCAP certificate "grace period" for renewal – Public comments were: 26 in favor of eliminating the 90-day grace period; 5 opposed its elimination; and 8 offered general comments with no preference. Panel members discussed and then voted to eliminate the 90-day grace period.

Some members felt that, since this is in fact a change in the WCT-1, Handbook of Accreditation and not simply a clarification of the current requirement, a vote of all Committee members should be conducted to approve this change. Mr. Maness indicated an electronic vote would be conducted as soon as possible.

During discussions, members asked for clarification of official certificate issuance date. The date of course completion plus two years is the official date to be recorded on the certificate as the expiration date.

Draft American Petroleum Institute (API) Recommended Practice (RP) 96 Deepwater Well Design and Construction

Scott Randall, PlusAlpha Risk Management Solutions, LLC, reported on the API efforts to revised RP 96. Mr. Randall indicated that the proposed revisions will significantly impact workplace safety requirements of RP 75. In addition, he pointed out some specific requirements in the proposal that should be of concern to the Well Control Committee members.

Of particular concern to Mr. Randall are the provisions for blow out preventers and flow collars. Section 5.3 of the RP indicated that the flow collar as a barrier to hydrocarbon flow. His concern is that the flow collar is not designed to function as a barrier to hydrocarbon flow. Furthermore, he indicated that a conflict in language exists between Section 5.3 and Appendix A.

Mr. Randall indicated that comments may be submitted on the proposed revisions until 27 May, and encouraged Committee members to read the proposal and comment before the deadline.

Understanding the IWCF Testing Process

Dave Price, International Well Control Forum (IWCF), gave an overview of IWCF's organizational structure and processes for conducting well control written examinations and practical assessments.

IWCF has a core staff in Aberdeen, Scotland who administers the program, approves invigilators, and assessors, performs random reviews of practical assessment, and retains records of testing and assessment.

Mr Price explained that examination process, explaining that examination centers, invigilators and assessors are approved, audited, and monitored on an ongoing basis by IWCF. IWCF does not accredit, endorse or otherwise approve well control training.

Tests are generated by randomly pulling a specified number of test questions from a test question database. Test questions are submitted by IWCF Board of Directors members for incorporation into the text question database with questions categorized by topic of the IWCF curriculum outline and by level of difficulty before addition to the database. Tests may be generated at headquarters and shipped to the invigilator who administers the test, or may be downloaded directly by the invigilator.

Practical assessments are simulator based and are performed by an approved assessor who is typically an employee of the exam center.

An IWCF well control certificate is issued. In the near future, IWCF will issue the certificates from headquarters.

Mr Price also mentioned well control activities in Europe, all with a focus on ways to enhance well control training. He also offered his perspective on future areas of emphasis needed for well control training, naming the following fours of interest:

- Fit for purpose training
- Group assessment
- Individual assessment of candidates
- Assessment of Offshore Instillation Manager's management of major emergencies.

Lunch

Well Service Committee Report – Training Topics & Terminology

Barry Cooper, WCS, reported on the Well Service (WS) Committee's discussions of well control training at its 22 February meeting. Mr Cooper presented the WS Committee's recommendations for well service terminology clarification for the terms "well servicing", "completion/workover", and "production services".

Mr Cooper also reviewed course length requirements for current WellCAP well services courses and presented the WS Committee's recommendations for increasing training hours for supervisory level personnel.

See attached copy of Mr Cooper's report for details.

In discussions following Mr Cooper's presentation, the following points or requests were made.

- The WS Committee should provide a representative for the Curriculum Committee.
- More WS Committee member should participate in the Well Control Committee's meetings. This would be helpful to provide better understanding of issues the WS Committee members have with current well services well control training.
- Rather than alter current courses, consider developing advanced level well control courses for well servicing.
- IADC was requested to review the mandate for Well Control and Well Service Committees.

Committee/Subcommittee Reports

Goran Andersson, Chevron, gave a brief report of the Curriculum Subcommittee's activities. Mr Andersson indicated the Subcommittee has nearly completed the Drilling curriculum review. He indicated two issues being discussed that may prompt alteration of the curriculums:

- Making a distinction in subsea training for moored versus non-moored vessels – the current curriculum is designed for moored vessels; and
- Specifying minimum instruction time for each topic of the curriculum.

Mr Andersson indicated that the Curriculum subcommittee meeting times and dates are to be communicated to all members of the Well Control Committee and also posted on the IADC website.

WellCAP Issues/IADC News

Brenda Kelly, IADC, reported on several areas of IADC staff activities that are of interest to the Well Control Committee's members.

1. As follow-up to the morning presentation by Scott Randall, the American Petroleum Institute's Recommended Practice (RP) 96 Deepwater Well Design is being finalized and will be ready for vote in June. Alan Spackman, IADC, has been involved with this effort. There is still time to review the draft document and provide comments. To comment, go to the website: <http://ballots.api.org> and select Ballot #: 2320.

2. U. S. Safety and Environmental Management Systems (SEMS) regulation: IADC staff are contributing to an industry effort to design a tool for facilitating contractors' responses to SEMS. The tool will help contractors determine where they have responsibilities to respond to the rule, and will give them a means of documenting their policies, procedures, training, assessment documentation that will be needed to comply with the rule. The tool is expected to be ready for public distribution by the end of June. Operators have indicated they want to see contractors use this tool to perform a self-assessment of readiness to comply with SEMS requirements. Next the contractor would need to become familiar with their operator(s)' SEMS plan to assure they are also compliant with all the specific requirements of the operator's SEMS plan.

3. Audit Update: All U.S.-based WellCAP training providers underwent an audit in June or July 2010. Some training providers failed to respond to corrective actions issued at the time of the audit. As a result, IADC is implementing new, more stringent consequences for those training providers unresponsive to corrective actions. First, providers failing to deliver a CA plan within 2

weeks of the audit will be placed on probation. Continued failure to provide a plan for correction will result in Suspension and ultimately Revocation. This new rule will also apply to providers who submit a CA plan, but fail to implement the plan with the specified timeframe they have defined. A form of the new rule is being implemented for U.S. Providers who fail to responded to CAs. The final rule will be communicated to all WellCAP providers in a Bulletin.

4. Instructor Maintenance of Approval: The WellCAP Panel also took action to alleviate the backlog of instructor applications coming to IADC for instructors seeking to maintain their approval to teach. In a unanimous vote, the Panel determined that IADC staff may review applications for "Maintenance of Instructor Approval". Whenever suitability of documentation provided with an application is in question, the application and documentation will be forwarded to the Panel for a decision.

5. Facilitator Certification Course: Three course dates are set for 2011: 24-27 May; 26-29 September and 5-8 December. IADC is looking for a host for each of these courses. Please contact Brenda Kelly if interested in attending the course or hosting one of the events.

6. Upcoming Events: Well Control Conference of the Americas, 25-26 August 2011 at the Westin Riverwalk in San Antonio.

Open Discussions

The question was asked of whether or not the next Committee meeting should be held in conjunction with the next Well Control Conference in San Antonio in August. Attendees agreed that it is beneficial to have the committee meeting in conjunction with the conference. Members ask that a Well Control Roundtable also be planned. Possible topics for the Roundtable were offered: Simulator Usage in Assessing Student Performance, and Advanced Well Control Training. Brian Maness and Brenda Kelly agreed to work together to plan the Roundtable.

Adjournment – Meeting adjourned at 2:30 p.m. Next meeting will be held 24 August in San Antonio.

Break

Enhancing Your Student Assessment Skills for Simulator Assessments – A Workshop for WellCAP Instructors (CEUs given)

Dave Price, IWCF

A 2-hour workshop for WellCAP instructors was held following the Committee meeting. Mr Price offered guidance for improving student skills assessments, including tips for simulator set-up, recognizing good student performance, and use of questioning to further challenge students.

IADC
WELL CONTROL COMMITTEE MEETING
MAY 11, 2011
WELL SERVICE COMMITTEE
UPDATES AND RECOMMENDATIONS

I. Terminology Clarification

- A. "Well Servicing" terminology refers to Workover/Completion, Coiled Tubing, Snubbing, Wireline services, i.e. well services in a cased-hole environment.
- B. "Workover/Completion" services alone terminology refers to only Pulling Units.
- C. "Production Services" terminology refers to any or all Coiled Tubing, Snubbing and Wireline services.
- D. Suggest language change effective 1-1-2012.

II. Training Level - Status

- A. The Snubbing curriculum is currently available as a 20 hour course and qualifies as a stand-alone course for supervisor/fundamental level.
- B. The Coiled Tubing curriculum is currently available as a 36 hour course and qualifies as a stand-alone course for supervisor/fundamental level. WCS is currently offering this course.
- C. The Wireline curriculum is currently available as a 16 hour course and also qualifies as a stand-alone course for supervisor/fundamental level.

III. Training Level - Recommendation

- A. Supervisor Level WellCAP Certifications for only stand-alone, expanded courses in Coiled Tubing, Snubbing and Wireline

Attendance:

Name		Company Name
H. Gene	Wilson	Aberdeen Drilling School, Ltd.
Pat	Ljungdahl	Boots & Coots
Ron	Bohuslavicky	Boots & Coots
Chris	Scarborough	Boots & Coots
Michael	Schulenberg	Check 6 Training Systems
Goran	Andersson	Chevron
Chuck	Boyd	CS Inc.
Brian	Maness	Diamond Offshore Drilling, Inc.
Shawn	Geissler	Drilling Systems Inc.
Janelle	Galvan	Falck Alford
Brenda	Kelly	IADC
Marlene	Diaz	IADC
Dave	Price	International Well Control Forum (IWCF)
C. Mark	Franklin	IPT Global, LLC
Hal	Kendall	Kenda Enterprises
Gary	Davis	MODUSPEC USA Inc.
Larry	Schmermund	Moody International
Jennifer	Accardo	Moody International
Richard	Grayson	Nabors Offshore Corp.
Cheryl	Francis	Occidental Oil & Gas
James (Jim)	Dech	Ocean Riser Systems
Scott	Randall	PlusAlpha Risk Management Solutions
Paul	Sonnemann	SafeKick
Ossama	Sehsah	Schlumberger
Charles	Tatum	Transocean
Malcolm	Lodge	Transocean
Barry J.	Cooper	Well Control School
Larry	Andrews	Wild Well Control
Glenn	Shurtz	Wild Well Control
Mike	Vertmer	Wild Well Control
John	Lauletta	Wright's Well Control Services