



**IADC Well Control Committee Meeting Minutes**  
**Thursday 19 August 2010**  
**PetroSkills, Katy TX**

A.J. Guiteau of Diamond Offshore Drilling Inc. (DODI), meeting host, welcomed all and introduced Jerry Ross and Donna England of PetroSkills, who provided building safety information. Attendees introduced themselves and Brian Maness, Committee Chairman, of Diamond Offshore, called the meeting to order.

**IADC Anti-Trust Policy and Guidelines**

Mr. Maness reviewed IADC Anti-Trust Policy and Guidelines, referring 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>.

**Nominations for and Selection of Committee Co-Chair**

Brian Maness, DODI

Paul Sonnemann, Chevron, was nominated.

Qualifications of the Co-Chairman were discussed. After determined that IADC's Guidelines of Committees' Operation provide no guidelines for Co-Chairman's qualifications, members suggested that the same qualification as for chairman apply.

After some discussion of qualifications, it was determined that Paul Sonnemann (not present) currently had work responsibilities that prevented his servicing as Co-Chairman. Goran Anderssen, also with Chevron, indicated his willingness to serve in the position.

A vote was held and Mr. Andersson was approved the Well Control Committee Co-Chairman.

**The Impact of Well Cementing on Proper Well Control**

Lee Dillenbeck, Chevron Energy Technology Company

Mr. Dillenbeck provided a very informative presentation on Cementing basic and the impact of cementing on well control. Topics discussed were:

- Reasons for cementing the well -- achieving zonal isolation, providing casing support, and protecting casing;
- Differences between primary and remedial cementing;
- Slurry properties that must be controlled;
- Slurry thickening time;
- API classes of cement;
- Cement additives and their function;
- Good cementing practices;
- Benefits of two floats and adequate shoe joint; and
- Methods of evaluating a cement job (including bond logs, leak off test, temperature survey, and sonic tools).

Details of Mr. Dillenbeck's presentation may be obtaining from the copy of his presentation visuals available at Well Control Committee's website:

<http://www.iadc.org/committees/wellcontrol/index.html>.

## **Recommendations for Introductory Level Instructor Qualifications**

Brian Maness, DODI

Mr. Maness reported on the work of a subcommittee reviewing the WellCAP Introductory Instructor requirements. The group, led by Petar Radulovic (DODI), reviewed WellCAP Introductory Instructor requirements and determined that conflicting information exists.

The WellCAP Handbook of Accreditation (WCT-01) states that instructors must satisfy 2 or 3 requirements: 1. a valid Supervisory level well control certificate, 2. evidence of relevant operational experience or technical skills, or 3. evidence of presentation skills or relevant teaching experience.

The Introductory program Self-Assessment Checklist (WCT-20) states that the applicant must “describe the process of identifying/designating facilitators/instructors”. In addition, “a person with a valid recognized fundamental/driller or supervisory level well control certificate must sign off documentation of training delivery and successful completion of pit and trip drills.” In other words, the specific qualifications of an Introductory instructor as defined in this document are not specified.

Clarification of instructor qualifications for Introductory instructors is needed. Clarification is also needed for the statement, “This instruction can be done on rig with qualified instructor...”

Members decided that, for the interim, the requirements stated in WCT-01 would prevail until such time as new requirements could be written and approved by the Committee.

Action Item: Petar Radulovic and group are asked to draft new Instructor qualifications for Introductory Instructors.

## **Well Servicing Committee Recommendations**

Barry Cooper, WCS

Mr. Cooper gave an overview of curriculum review work the Well Service Committee is currently performing. He indicated the Committee’s objective is to enhance competency/performance level of persons on well service job locations.

The Workover/Completion curriculum has been reviewed and the following recommendations made.

1. Major change to the Supervisory level course is being proposed.
2. Site/risk assessment as an up front task was proposed as new content for both the Fundamental and Supervisory level courses.
3. Reordering of course content is proposed for all courses. The recommended order of content is to follow the sequence of tasks an employee would do or encounter on the job.
4. Addition of on-site exercises and drills is proposed.
5. Stronger emphasis on equipment should be made.
6. Courses should be designed for another generation, and delivery methods should be adjusted to enhance learning for these generations.

The Well Service Committee wants to look at other training standards to identify any other issues that should be addressed with the current revision of the well service curriculums.

The Well Control Committee was asked to document all comments and questions on the curriculums and forward to the Well Service committee for review and consideration.

The following questions were raised.

1. Is simulator training for well service being considered?
2. Will there be a requirement to have two competent people on site at all times during a well servicing operation?

The next meeting of the Well Service Committee will be 21 September, beginning at 12-12:30 p.m. at the Humble Civic Center.

Caution was advised when considering adding operational issues into well control training. This may be outside the scope of well control training.

Well Control Committee members are asked to send comments to Barry Cooper at [BCooper@wellcontrol.com](mailto:BCooper@wellcontrol.com).

Action Item: Brenda Kelly will compile comments and questions and forward to the Well Service Committee.

### **Coiled Tubing Curriculum Follow-up**

Brian Maness, DODI

Mr. Maness followed up on discussions of the last committee meeting at which time concerns were expressed about IADC not requiring that Coiled Tubing Supervisory personnel take the Coiled Tubing Supervisory course only. Mr. Maness indicated that review of the curriculum documents led him to conclude that this was an issue of wording of the curriculum documents, and not indicative of deficiencies in the Coiled Tubing Supervisory curriculum itself.

He recommended wording changes to each of the curriculum documents. Open discussion followed. He also led a discussion of how best to support coiled tubing well control within the Well Control Committee.

The concluding recommendations of the Well Control Committee for edits to the Coiled Tubing curriculum documents were as follows.

#### Introductory course curriculum (WCT-2WSI)

- Change the word “wireline” in paragraph 1 to “well servicing” to match the document title.
- Add the statement, “The Introductory level certification requires a minimum of 8 hours of instruction.”
- Change the target students for this course by deleting “New Hires”, and changing the wording to “entry personnel within six months of hire date”. Determine whether “Helpers” need to remain listed for this course.
- Delete target student statements for the Fundamental and Supervisory courses: “FUNDAMENTAL: Helpers, Assistants, “Hands” and personnel involved with the operational aspects of the unit” and “SUPERVISORY: Supervisors, Superintendents, and Project Foreman”.

#### Fundamental course curriculum (WCT-2CTF)

- Add statement to first paragraph: “This course cannot be combined with any other course.”
- The target audience statement should be changed to add “coil tubing unit operators” and delete “coiled tubing unit supervisors” and “choke operators”. “Helpers” was questioned as to where best to place them, in the fundamental or supervisory course.
- The statement, “The individual may be either a CT service representative or an asset representative” should be removed.

#### Supervisory course curriculum (WCT-2CTS)

- Add statement to first paragraph: “This course cannot be combined with any other course.”
- The target audience statement should be changed to add “coil tubing choke operators” and delete “asset company representative”. “Helpers” was questioned as to where best to place them, in the fundamental or supervisory course.

- The statement, “The individual may be either a CT service representative or an asset representative” should be removed.
- The statement, “at least one person holding a current Supervisory level well control certification be on location” be modified to require Supervisory level certificate be a “coiled tubing” certificate.

The following questions or concerns were also raised:

1. A cross reference tool does not exist for the Introductory course.
2. The minimum number of training hours has not been specified for Introductory course.
3. Discrepancy exists between Introductory course title “Well Servicing Operations (Wireline, Coiled Tubing & Snubbing)” and paragraph 1 that lists only “Wireline”.
4. Who takes Introductory course? Listed as “New Hires”. Should “Helpers” or others also be listed?
5. What are correct position titles? Who should take each course?

The questions and recommended curriculum changes were referred to the Well Service Committee for feedback.

Action Item: Submit proposed Coiled Tubing curriculum changes to the Well Service Committee for comment.

### **Curriculum Subcommittee Review**

Goran Andersson (Chevron), Subcommittee Chairman

Mr. Andersson reported that the Curriculum Subcommittee is currently reviewing the Drilling curriculum. He indicated that the subcommittee’s composition is good, having representation from various industry sectors participating in the review process. Additional drilling contractor representation may be needed.

Mr. Andersson reported that they are looking at one more session to complete the first pass of the review, and to then look at additions needed.

The next meeting of the Curriculum Subcommittee is 2 September at Chevron’s Briar Park facility. The Subcommittee will meet monthly going forward. If interested in participating in the Subcommittee’s work, please contact Goran Andersson at [gndr@chevron.com](mailto:gndr@chevron.com).

### **WellCAP Review Panel**

Brenda Kelly, IADC

The WellCAP Handbook of Accreditation (WCT-01) states that WellCAP Review Panel members will serve a 3-year term. The majority of Panel members are fairly new to the Panel, with the exception of Jerome Schubert, the University representative. Ms. Kelly asked for suggestions as to possible individuals who could be asked to replace Dr. Schubert. A suggestion made were John Smith from LSU.

In another Panel issue, WellCAP Panel members asked IADC to consider extending the Panel’s electronic balloting process time from 5 business days to 10 business days. This is needful to give Panel member who might be traveling at the time of a ballot more time to respond. This adjustment of procedures will be made by IADC.

### **WellCAP Statistics**

Brenda Kelly and Elfriede Neidert – IADC

### WellCAP Certificates

Ms. Kelly reported on WellCAP certificates issued by course since inception of the program. She reported that six courses are producing the largest number of individuals trained. These are in order from highest to lowest number of certificates:

Course	Number of Certificates	Number of Providers
• Drilling	97,961	101
• Drilling/Workover	52,387	52
• Workover	8,887	31
• the "Grand Slam" (DWOCTSNWL)	6,176	10
• Wireline	4,691	8
• Well Service combo (WOCTSNWL)	2,349	11

All other courses account for fewer than 1,400 certificates each.

The number WellCAP-accredited training provider delivering these courses was also reported. See above.

#### WellCAP Audits

Ms. Kelly introduced Ms. Elfriede Neidert as IADC Accreditation and Certification Department's new Quality Assurance/Quality Control Coordinator. Ms. Neidert reported on the recently completed audits of all U.S.-based WellCAP-accredited training providers.

Forty training providers in the United States were audited. Of these, 21 providers were issued Corrective Actions (nonconformities) for a total of 54 Corrective Actions.

Corrective Actions (CA) issued by the auditors are categorized and reported (see below).

Corrective Action Category	No. of CA	CA issued by Category
General Issues	3	Provider contact info changed, but not reported to IADC (2); Issuance of unapproved certificates (1)
Training Facilities	9	New room/floorplan not submitted to IADC (3); No floor plan submitted (1); Simulators/simulator floor plans are different than submitted to IADC (4); Classroom equipment differs from original application submitted to IADC (1)
Curriculum	1	Not using the audio/visual instruction as reported on application (1)
Class Size	0	
Practical Exercises & Simulations	0	
Training Manual	11	No Glossary (6); No Table of Contents (2); Missing Chapter Divisions (1); Missing topics from list of requirements (1); Not providing manuals to students (1)
Student Assessment	3	Need to update Test (3)
Instructors	8	Instructor WellCAP Certification expired (2); Provider Instructor list does not match IADC Approved Instructor list (6);

Administration	19	Not providing the Quality Statement to students (7); Certificates not being completed correctly (3); Logs are not being completed and sent to IADC (further research is required on each of these CA's) (8); No student records were available to verify (1)
Quality Control	0	
<b>TOTAL</b>	<b>54</b>	

The largest number of CAs issued was administrative in nature. When combined with failure to notify IADC of other program changes, administrative-type issues made up 31 of the 54 CAs issued.

Issuance of an unapproved certificate and failure to issue a manual to students were the more serious nonconformities identified during these audits.

A survey was conducted following the audits to request training providers' feedback on how well the audits went. Twenty-two providers responded to the survey, with all respondents indicating they appreciated the professionalism and helpfulness of the auditors, as well as their program knowledge. Only one complaint was received from a provider who indicated that the multiple bulletins issued by IADC causes confusion about program requirements.

### **IADC Report**

Brenda Kelly, IADC

#### Bulletin 10-01 – Testing Protocol -- Clarification of testing protocol

Recent complaints received by IADC indicate that WellCAP training providers are interpreting Bulletin 07-02 Testing Protocol differently. When Brenda Kelly interpreted the Testing Protocol to mean “closed book” testing and issued Bulletin 10-01 to provide clarification of the testing protocol, objections from accredited providers were received.

Ms. Kelly requests clarification from the Well Control Committee on “open book” versus “closed book” testing procedures.

During discussions, Ms. Kelly asked for a show of hands by accredited WellCAP providers to indicate whether they are using open or closed book testing procedures. The group was nearly equally divided between open and closed book testing, with closed book testing being only slightly more frequent.

Some members expressed the view that open book testing is, in itself, a learning tool. Members were divided on whether or not a loose interpretation of the requirement (one that would permit open book testing) is appropriate.

Further discussion on this topic is needed to reach a consensus of the Committee and a clearer understanding of the testing requirements.

Action Item: Add discussion of testing protocol to next Committee meeting agenda

Logo Usage – New IADC guidelines for logo usage have been released. Ms. Kelly reviewed the new guidelines, indicating that IADC authorizes WellCAP-accredited training providers to use the WellCAP program logo and the IADC member logo on any course materials, course promotional materials, and company website. These logos are not permitted on Certificates of Completion or cards issued to students. The IADC official logo is for official IADC business only, and is not to be used by accredited training providers.

Middle East Roundtable & Other Upcoming Events:

- BOEMRE Forum on Offshore Drilling, Santa Barbara, CA 24 August 2010.
- Dr. Lee Hunt, Steve Kropla and other IADC staff to meet with Cuban government officials to address well control in Cuba, 24 August 2010
- IADC Annual General Meeting, San Antonio TX, 11-12 November 2010
- Well Control Middle East Conference and Exhibition, Bahrain, 29-30 November 2010
- Well Control Roundtable, 1 December 2010

Ms. Kelly asked for Committee members feedback for her preparations for the BOEMRE Forum presentation she will make in Santa Barbara. Members discussed the history and evolution of the WellCAP program and provided a lot of valuable feedback to Ms. Kelly.

New IADC Website Feature – Following Macondo incident, IADC established a new website feature: “IADC Fights Offshore Drilling Suspension”. Members can track Macondo events and find the latest status of U. S. federal regulations being proposed following Macondo. Check out the link on IADC’s main web page: <http://www.iadc.org>.

**Open discussion**

Jay O’Connor, WellCAP Review Panel member, commented on recent instructor applications, indicating that unacceptable entries are being made on qualifications.

**Next meeting** will be 17 November at Falck Alford on Richey Road. Andy Erwin is the contact.

Suggested next meeting topics include:

- API Speaker on RP75 – Safety & Environmental Management for Offshore Facilities
- C-Span broadcast August 12 of National Academy of Engineering Commission transmission of MMS Report on well control events from 1975 to Jun 11, 2009 and discussion of proposed rule making – 7-hour broadcast; recommend viewing the last 10 minutes of broadcast.
- How to support Coiled Tubing within well control
- Well Service Committee’s feedback on Coiled Tubing curriculum changes proposed
- Alex—Q: simulator training for Well Service – Ed thought Alex was considering inclusion of simulator training as part of curriculum;
- Q: will there be a requirement to have 2 people on coiled tubing site
- Goran – Curriculum Subcommittee—status of Drilling curriculum;
- Testing Protocol

**Meeting adjourned** at 2:30 p.m.

**Attendance:**

Name		Company Name
David	Egbert	<b>BJ Services Co, USA</b>
Ian	Davidson	<b>Blade Energy Partners</b>
Larry	Hatcher	<b>Boots &amp; Coots</b>
Scott	Randall	<b>Boots &amp; Coots</b>
John M.	Broussard	<b>BP America</b>
Ron	Fuqua	<b>BP America</b>
Goran	Andersson	<b>Chevron</b>
James	O’Connor	<b>Chevron</b>
Cesar	Fuenmayor	<b>Chevron</b>
John M.	Breidenthal	<b>Chevron</b>
Chuck	Boyd	<b>CS Inc.</b>

Tommy	Van	<b>Cudd Well Control</b>
Brian	Maness	<b>Diamond Offshore Drilling, Inc.</b>
A.J.	Guiteau	<b>Diamond Offshore Drilling, Inc.</b>
Ted	Triche	<b>Diamond Offshore Drilling, Inc.</b>
Earl	Williams	<b>Diamond Offshore Drilling, Inc.</b>
Ed	Ramsay	<b>Drilling Systems (UK) Ltd.</b>
Earle	Findley	<b>Expotech Services</b>
Andy	Erwin	<b>Falck Alford</b>
George	Edwards	<b>G.W. Edwards Consulting</b>
Tighe	Cottle	<b>Halliburton</b>
George	Fuller	<b>Halliburton</b>
George	Morgan	<b>Halliburton</b>
Paul	Osborne	<b>Halliburton</b>
Grant	Roscoe	<b>Halliburton</b>
Hector	Moreno	<b>Halliburton</b>
Dave	Moyer	<b>Helmerich &amp; Payne</b>
Bob	Burnett	<b>Hercules Offshore</b>
Brenda	Kelly	<b>IADC</b>
Marlene	Diaz	<b>IADC</b>
Jesse	Holster	<b>IDS</b>
Pat	Lyons	<b>Lyons Petroleum Services</b>
Robert (Bob)	Roberts	<b>M&amp;O Americas, Inc.</b>
Richard	Grayson	<b>Nabors Offshore</b>
Jim	Kulis	<b>Nabors Well Services</b>
Benny	Mason	<b>Occidental Oil &amp; Gas</b>
June	Cormack	<b>ODL - Wood Group</b>
Gary	Franklin	<b>Petroleum College International</b>
Gary	Nance	<b>Randy Smith Training Solutions</b>
Victor	Fleming	<b>Rowan Companies, Inc.</b>
Erdem	Catak	<b>SafeKick</b>
Malcolm	Lodge	<b>Transocean</b>
Sean	Roach	<b>Weatherford</b>
Chad	Evans	<b>Weatherford</b>
Barry J.	Cooper	<b>Well Control School</b>
Larry	Morvant	<b>Well Control School</b>
Larry	Andrews	<b>Wild Well Control</b>