



AWES

Advanced Well Equipments
Standardization Group

An introduction to AWES

July 2015

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AWES promotes reliable advanced well equipments across the industry

AWES

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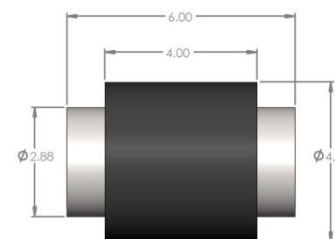
Our AWES group objective is:

“To improve the reliability of advanced well equipment through the development of published industry standards and recommended practices for the qualification of the relevant completions equipment”

We achieve this through collaborative discussion and information sharing during regular teleconferences and 3 meetings per year

Group activities include:

- Development of test qualification procedures and standards
- Definition of how to measure sensor system performance
- Sharing of results from prior testing work & lessons learnt
- Setting a standard for vendors in terms of qualifying their technology for an advanced well application to raise the level of requirements
- Gaining confidence in lifetime expectancy of downhole sensors by standard testing
- Reducing the need for oil companies to run their own independent qualification testing
- Assisting vendors to understand oil company requirements
- Providing QA/QC



Membership

AWES

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Currently 28 member companies



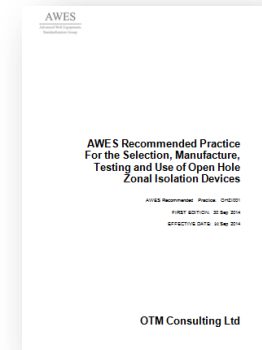
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A Science Group company

The first AWES Recommended Practice is complete and available to members and non-members via the AWES website

- AWES Recommended Practice For the Selection, Manufacture, Testing and Use of Open Hole Zonal Isolation Devices
 - Published September 2014 on AWES website
 - Licensed to API for publication as an API industry standard
- The second AWES Recommended practice, Cables and Control Lines Tube Encased Cable (CCL TEC), is completed and due to be published in August 2015
- The third AWES Recommended practice, Downhole Instrumentation (DIG) is due to be published in December 2015



AWES JIP Work Groups

Completed documents

WG 1 – Cables and Control Lines

Undergoing final revision, due to be published in June 2015

WG2 – Open Hole Zonal Isolation

OHZI is published on AWES website, currently undergoing API certification

Currently running groups

WG5 – Fiber cables

WG4 – Inflow Control Devices

WG3 – Downhole Instrumentation Group

Planned groups for 2016-2017

Wireline Control Lines

Inflow Control Valves

Dry mate/wet mate connectors and splices

Downhole wireless

Electric Submersible pumps/
artificial lift

We maintain three workstreams to address priority topics

- As one group completes its RP and publishes/licenses to another body, the next group stands up
- Membership adjusts to reflect current focus
- Proposed group changes based on feedback from past meetings

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