

OWSG Update

OWSG activity &
API RP 78
Progress Update

Industry Steering Committee on Wellbore Survey Accuracy Wellbore Positioning Technical Section

47th General Meeting
April 11th, 2018
Inverness, Scotland



Speaker Bio

- Pete Clark
 - Chevron ETC
 - Directional Drilling Technical Advisor
 - OWSG Chair
 - API RP78 Chair
 - 33 years with service & operator
 - BSc Applied Math
 - Houston



OWSG Update

Content

OWSG

- Anti-Trust Statement
- Mission : To promote practices that provide confidence that reported wellbore positions are within their stated uncertainty
- ConocoPhillips 1/24/18
 - Anadarko, BP, Chevron, ConocoPhillips, Devon, ExxonMobil, Oxy
- OWGP PU model update
 - Model testing remains an issue in the path of greater adoption.
 - Ongoing adoption & migration.
 - No issues reported due to adoption
 - Model availability
 - Funding
- Potential for standardization on ISCWSA Collision Avoidance Rule & Practices
 - Acceptance of value in CA unification / standardization
 - For wide adoption amongst operators' concerns were raised over two issues.
 - Survey interval per DLS & SF
 - Increase in confidence level likely to make the calculations more conservative
 - Two operators planning adoption in the near future.
 - Request testing by operators to see what effect on operations would be

API RP78 Update

Update

RP78 – Wellbore Positioning

- General Meeting (1/11/18)
 - Presentation is available on API site
- Section Lead changes
 - Mary Malihpour taking over from Jordon Meyer on Database,
 - Michael Donahue taking over from Pete Clark on Planning & Engineering
 - Benny Poedjono taking over from Ed Dew on Operations.
- Proposed timelines
 - End June '18 for 1st draft
 - End Dec '18 for document out to ballot
 - End Dec '19 for publication
- Bi-weekly calls with API
- Monthly Steering Committee Conference Calls

API RP78 Update Layout

- 4 Wellbore Positioning – Technical Requirements
 - 4.1 Directional Survey Measurements and Wellbore Position Calculation
 - 4.2 Directional Survey Records
 - 4.3 Database
 - 4.4 **Software**
 - 4.5 Surface Location
 - 4.6 Survey Program
 - 4.7 Positional Uncertainty Models
 - 4.8 QA / QC
 - 4.9 **Collision Avoidance**
- 5 Wellbore Positioning - Process
 - 5.1 Planning & Engineering
 - 5.2 **Handover from Planning team to Operations team**
 - 5.3 **Operations & Execution**
- 6 Data Transfer
 - 6.1 **Plotting (Outputs, Deliverables and Transfer files)**
- Annex
 - Survey Mathematics

API RP78 Update

Steering Committee

| Section Lead | Section(s) | Affiliation | Email |
|--------------------|---------------------|----------------|--|
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Conclusion

- Focus & progress API RP78
- Increasing adoption of OWSG PU models
- ISCWSA CA Rule & Practices