

Collision Avoidance Work Group Status Report

Harry Wilson for Steve Sawaryn

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



Speaker Information

2

Harry Wilson

Advisor, Wellbore Positioning

Baker Hughes

April 11th, 2018

2017 SPE Papers

Resubmitted for peer review and publication

- SPE 184730
- SPE 187073

Maintenance of Recommendations

- Propose single document on ISCWSA website
- Revised no more frequently than annually
- Akin to Error Model Maintenance doc
- Will look at possibility of sign-up for notifications
- API RP78 may refer to ISCWSA document

Well to Well Correlations

- Relates to “global” error terms
 - Geomag reference terms
 - Depth stretch term

Well to Well Correlations

- Current treatment can result in significant over and underestimation of relative uncertainty
- Several methods for correct treatment proposed and evaluated
- One method selected based on ease of implementation

Well to Well Correlations

- Earlier work demonstrated complex partial correlations between different sources of geomag reference data - both type and provider
- May be possible to reduce the range of values
- Desire peer review of actual values

Well to Well Correlations

- Last minute proposal
 - Add error terms to cover all error sources
 - Possibly removes need to consider all permutations
 - Thereby reducing need for large range of partial correlations
 - Conforms to Global, Per Well, Systematic, Random propagation options

Well to Well Correlations

- Maintenance
 - Major change
 - Must be fully described

Reminder

- SPE 189612
 - CA Workgroup members to review and discuss at Sep meeting.

Conclusion