Collision Avoidance Sub-Committee
26th September 2018

Steve Sawaryn
SPE Papers – Well Collision Avoidance

SPE 184730
Management & Practices

2. Accepted for publication following an appeal (Probably March 2019, but not guaranteed).

SPE 187073
Separation Rule

2. Accepted for publication (December 2018, but not guaranteed).
3. First proofs have been received.

SPE papers are intended as normative references for API RP 78
 Collision Avoidance: Next Tasks

<table>
<thead>
<tr>
<th>Priority</th>
<th>Task</th>
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<tbody>
<tr>
<td>1</td>
<td>Error Models / Collision Avoidance</td>
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<tr>
<td>2</td>
<td>Collision Avoidance Management Presentation Pack</td>
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<tr>
<td>3</td>
<td>Common Collision Avoidance Report / Electronic Exchange</td>
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<td>4</td>
<td>Adoption of Global Error Model Terms</td>
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<td>5</td>
<td>Revision Control Process / Administration</td>
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Common Collision Avoidance Report

Flagged as a high priority item. The following notes were taken from the workgroup’s flipchart. Currently all-encompassing and further work and refinement is required.

- Data file
  - Planning and execution phase
  - Different user levels
  - Able to reconstruct calculations
- Common data standard, version
- Version (and time/data), Audit Trail (and time/data), User ID
- Geomatics
- SF, MASD, ADP
- Surveying Program, Error Models, QA/QC
- Rule
- Activity; status on reference well (depth)
- Reference information, wellhead, vertical reference (all relative to reference well)
- Offset well identity, status and assessed risk (HSE/Non-HSE)
- Review/Approval
- Users Green/Red, AI, full replication
Collision Avoidance: Management Presentation Pack

- Problem Statement / ISCWSA Pedigree
- Rationale for Rule and Parameters
- Justification – Why the Rule is the Right One
- Before / After Comparison
- Benefits / Reason to Adopt
- Link to API RP 78 (Manage Expectations)
- Perspective: Less / More Conservative
- Implementation Issues
- Conclusion Timeline / When
Website Suggestions / Requests

- Survey / Opinion Poll Capability to Solicit Feedback
- More graphical, rather than textual content
- Video Clips e.g.
  - Sell Standard Rule
  - Error Ellipse
  - Lecture Schedule
- Access to Documents e.g. e-Books (make more prominent)
- Improve Search Capability
  - Lexicon
  - Bibliography
- Less Cryptic / More Enduring Document References
- Separate the Meeting Notes and Presentations
## Confirmed Lecture Schedule

<table>
<thead>
<tr>
<th>Date (Lunchtime Events)</th>
<th>Location</th>
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<tbody>
<tr>
<td>Tuesday 9(^{th}) October</td>
<td>NW Virginia, Bridgeport, W. Virginia</td>
</tr>
<tr>
<td>Thursday 11(^{th}) October</td>
<td>Lou-Ark, Shreveport, Louisiana</td>
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<tr>
<td>Monday 15(^{th}) October</td>
<td>Permian Basin, Midland, Texas</td>
</tr>
<tr>
<td>Wednesday 17(^{th}) October</td>
<td>Denver, Colorado</td>
</tr>
<tr>
<td>Thursday 18(^{th}) October</td>
<td>Casper, Wyoming</td>
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Software Implementation Mind Map

\[ \Delta C = ( R_r + R_o ) - S_m \]

\[ SF = \frac{K ( \sigma_s^2 + \sigma_{pa}^2 )^{\frac{1}{2}}}{\text{Hyperlinks}} \]

+ MASD, Pitfalls, Comparison table old rules versus new?