Collision Avoidance Sub-Committee
Update - 8th March 2019

Steve Sawaryn

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Wellbore Positioning Technical Section

ISCWSA

The Industry Steering Committee on Wellbore Survey Accuracy (ISCWSA)

Agreed Focus Areas (Dallas Meeting)

- Error Models / Collision Avoidance relationship
- Development of a Collision Avoidance Management Presentation Pack
- Development of a common Collision Avoidance Report and Electronic Exchange
- Adoption of the Global Error Model terms
- Establish and document a revision control process and administration (including CA bibliography)

49th General Meeting
March 8th, 2019
The Hague, Netherlands

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The Hague: March 2019 – Groups

Group 1: Error Models / CA

1. Scope
2. x
3. x

Group 2: CA Presentation Pack

1. Pete Clark's material
2. SPE 184730 and SPE 187073
3. Other?

Group 3: CA Report & Data X

1. x
2. x

Group 4: Revision Control

1. Bibliography (2010)
2. Format (single document)
3. x

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1 – Error Model / Collision Avoidance

At this time we have probably done enough technical work and should now focus on sharing this knowledge with our customer base?

Different perceptions of the needs and underlying requirements. More work to clarify this is required.

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2 - Collision Avoidance Presentation Pack

A total of 12 slides, plus a U-Tube video envisioned to support the "Decision to Adopt" CA recommendations.

1. Legitimising the proposal – ISCWSA
2. Why Collision Avoidance is important
3. Why having and adopting an industry standard for this is important
4. Why this rule?
5. Causes of collisions (none that ISCWSA is aware of are attributable to the rule)
6. Results in a SF, and use is framed in terms of the SF
7. Well classification – HSE / Non-HSE
8. A comparison slide (e.g. Table 1 and PC graphics)
9. The rule details
10. Position uncertainty
11. The Ask (what we want the recipients to do)
12. Summary and Conclusion

How to Produce?

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3 - 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
  - o Planning and execution phase
  - o Different user levels
  - o Able to reconstruct calculations
- Common data standard, version
- Version (and time/data), Audit Trail (and time/data), User ID
- Geomatics
- SF, MASD, ADP and probability
- 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

Group work at the
next meeting

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4 - Revision Control

Revision release and control is increasingly important as the number of sub-committees expand and the technical complexity of the work increases. Neither ISCWSA, nor the customer base we serve can respond immediately to all the changes.

- Adopt ISO standard naming and methods (investigate)
- Overall document structure requires a strategic review
- Single technical document covering each of the sub-committee's work (as the Error Model SC has done)
- Single Lexicon and Bibliography required, with items tagged to the most appropriate SCs
- Split the Bibliography into Peer Reviewed and Other papers vetted by ISCWSA members
- Introduce formal periodic review and update
- SC requires a workspace where documents in progress can be shared internally, but not publically
- Requires agreement of all the SC leads and ISCWSA approval

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