Mission Accomplished?

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Legacy Statements

- The primary aim of this group is to produce and maintain standards for the industry relating to wellbore survey accuracy
- To set standards for terminology and accuracy specifications. Establish a standard framework for modeling and validation of tool performance. Raise <u>awareness &</u> <u>understanding of wellbore survey accuracy</u> issues across the industry.

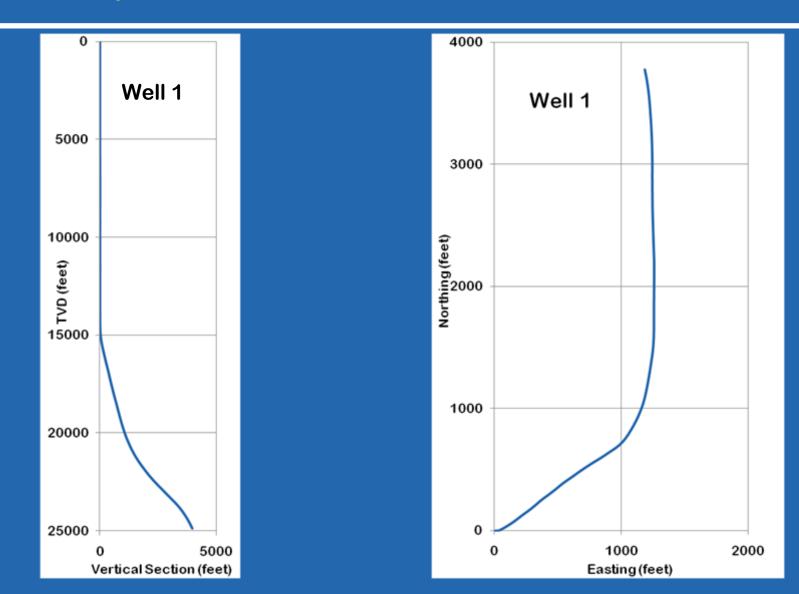
Flashback

• Position uncertainty is of critical importance for collision avoidance

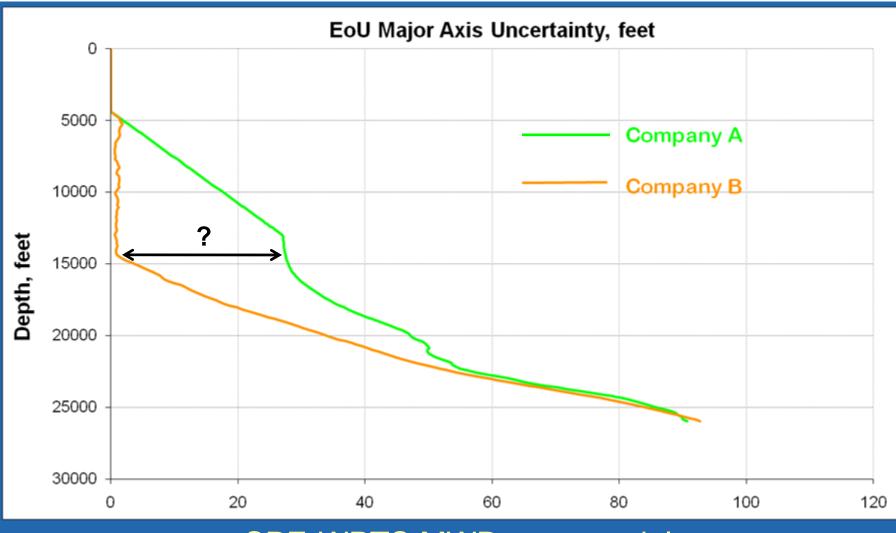
 SPE-WPTS formed to promote consistency

Have we achieved consistency ?

Wellpath: vertical to 15000 ft

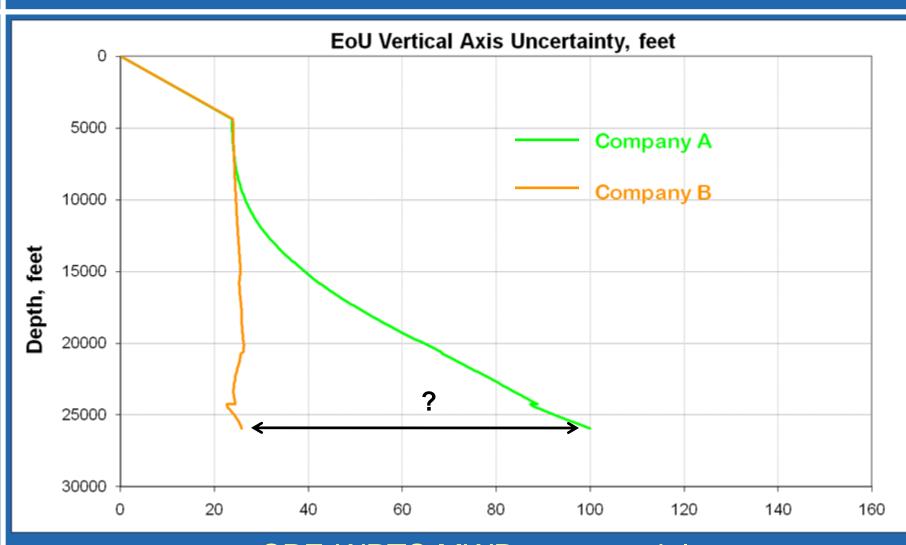


Cause for concern



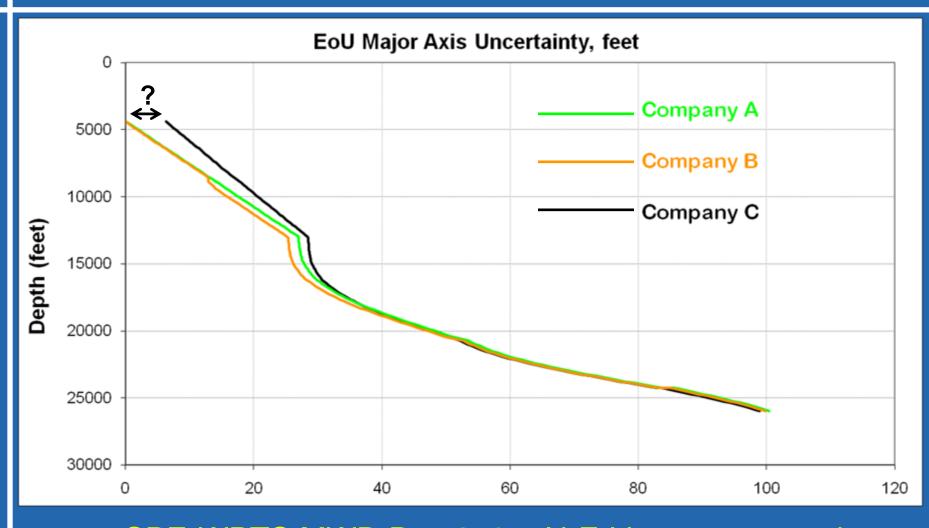
SPE-WPTS MWD error model

Cause for concern



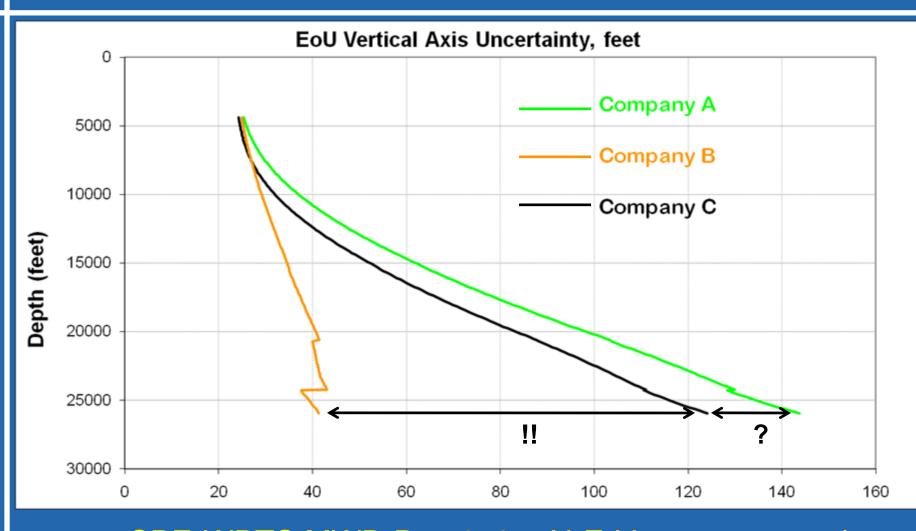
SPE-WPTS MWD error model

Comparison (1)



SPE-WPTS MWD Rev.2, 3σ , N-E-V, sag corrected

Comparison (2)



SPE-WPTS MWD Rev.2, 3σ , N-E-V, sag corrected

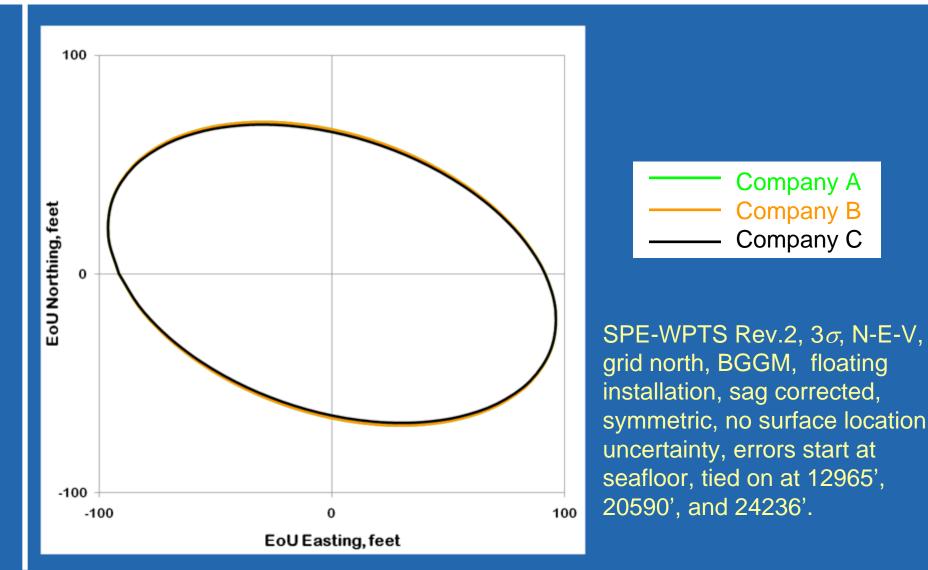
Reporting Inconsistencies

Different model versions

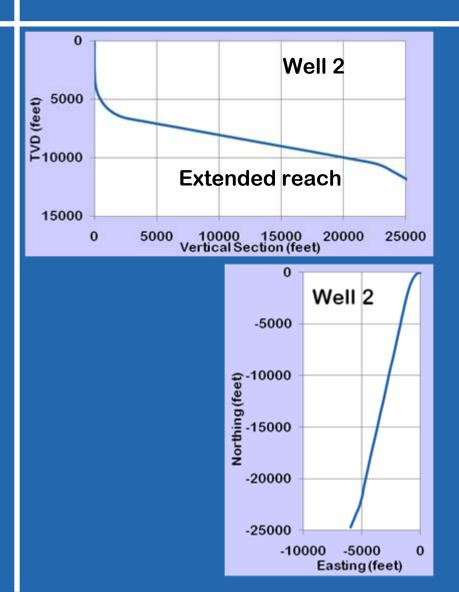
Different coordinate systems

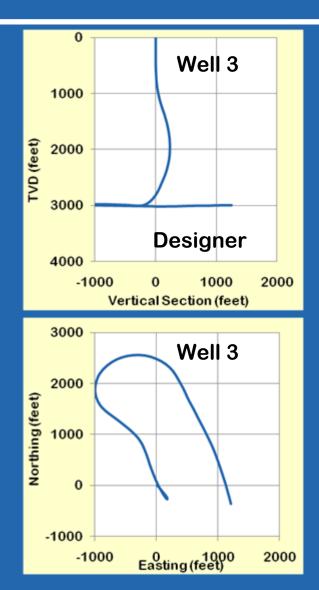
Different confidence levels

EoU at TD

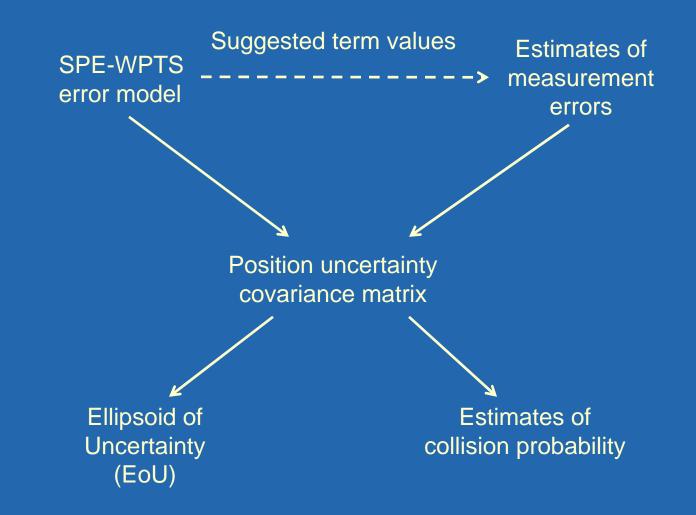


Additional wellpaths tested





Application of error model



Discussion

Minor implementation differences

 The SPE-WPTS model only provides a framework

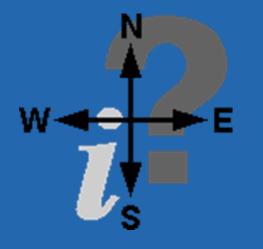
Results can be extremely sensitive to the terms and parameters chosen
SPE 140183

Conclusions

• Where do we go from here? It's been over 15 years!

 Is standardization still part of our mission? Perhaps, a little more emphasis on implementation!

Is it time for recommendations?



Thank you!



