BSEE Wellbore Surveying Technology Project

ISCWSA Meeting

October 1, 2015

ICF International, Jim Rice

Project Overview

Project Scope

Evaluate and catalogue the various operational performance capabilities and limitations of downhole surveying technology/tools; identify the current best practices, evaluate these technologies and practices; and propose improvements to BSEE regulations as related to wellbore surveying technology associated with surveying accuracy and survey management, as well as relief well/well intersection operations.

Focus is on high temperature tools (350°F and greater).

Project Schedule

Final report due August 2016.

Approach

Survey Equipment & Procedures

- What tools/systems are available for high temperature (>350 °F) directional surveys, MWD, and ranging? Limitations?
- What are the best practices for running surveys (accuracy, quality, performance)?
- What are the emerging technologies in ranging, guidance, and surveying?
- What's needed to improve performance/reliability at high temperatures (>350 °F)?
- Looking at routine operations, relief well operations, and collision avoidance.

Survey Data Management

- Roles of Operators, Service Companies, Regulators, and Others
- What data management procedures are currently used? Can a survey be reconstructed?
- What are the field QC and data storage practices, data formats, means of sharing and interpretation?

Wide Area Standards

- What error models, references and corrections are used?
- What standards exist? (country, state, SPE, API, etc.)
- What should be required for all wells? Are field or area specific standards needed?

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Dialog with all industry partners is important to the success of the project.

Questions?


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