

SPE DSA-TS Comms Team

Meeting Minutes – Drill-a-Stand Use Case Team

Date: 26-Mar-2013

Minutes

- Finished with AutoDriller from Drilling to target bit depth or end of current stand
- What happens next?
 - o Drill off to specific WOB threshold
 - o Reduce RPM of TopDrive (reduce to 60-80% of drilling RPM)
 - Should be aware of whirl issues
 - o Reduce Flow to reduce motor RPM
 - May not want to reduce flow to continue to clean hole
 - o Lift off bottom
 - o Q: How long does this typically take?
 - Depends upon connection practices, need to clean the hole, etc...
 - o Q: How do we know how long to take to do this, i.e. how do we know to continue?
 - o Q: What is a standard connection practice?
 - Pressure, Torque, Flow, RPM at specific rates – Anyone aware of what these are?
 - Simple connection practice would be to wipe stand (full or half) and then come back to make connection
 - Depending on drilling conditions (hole condition, well specific), the drilling practice for making a connection will change.
 - Examples:
 - o Wipe half stand (not rotating) at 50% flow and return to Connection point
 - o Ream full stand (up 'X' m/min, down 'X' m/min) 3 times at 50% flow and 70% RPM then return to Connection point
 - o Pump for 3 minutes at drilling flow rate while rotating at 30 RPM
 - o Pump a sweep
 - Must be aware of overpull limit when moving pipe up
 - o Overpull is the limit on hookload that can be applied so that you don't break the pipe.

Attendees:

Marty Cavanaugh, Shell
Bill Johnson, NOV
Clinton Chapman, Schlumberger
Pradeep Annaiyappa, Canrig
Randy Hansen, Schlumberger
Riaz Isreal, BP
Tim Shea, ARC
Vern Gubler, NOV/Intelliserv
Hari Koduru, Energistics
Michael Behounek, Apache
Vinay Bappappady, Canrig
Arron Eddy, Pason
Yuzhen Xue, Energistics
Alan Sun, Energistics
Steve Sponseller, Kepware

- If reaming, must be aware of maximum torque and possibly noisy torque which could indicate stick/slip or whirl
- o Assure block position is at connection point + out of slips distance
- o Set RPM to zero at a predefined rate
- o Set Slips (Slips-In)
 - Tell driller to set slips
 - Driller confirms
 - Move block to connection point (slowly), which should reduce overall hookload as slips take weight and the table (which holds the slips) has a pressure sensor which should indicate that the weight has transitioned from blocks to table.
 - Comment: Reliably positioning the connection point can be difficult. If it fails, it is probably best to go to manual and allow driller to reposition.
- o Set Flow to Zero at a predefined rate
 - Which may cause a survey to be taken

We have left off Breaking Gel

We should be very clear that confirming who is in control is very important.

This should be enough detail for Technical Team to start.

Action items:

- Marty – Schedule next meeting in two weeks to launch technical team
- Clinton – Circulate these minutes
- Pradeep – Send previous meeting minutes to Clinton
- Clinton – Post “approved” minutes to share point