

From: Paine, Kate (QuaDril Energy LT)
Sent: Tue Sep 08 16:53:33 2009
To: Vinson, Graham (Pinky)
Cc: Bellow, Jonathan M; Bodek, Robert; Brannen, John (QO Inc.)
Subject: PP monitoring on the Marianas
Importance: Normal

Pinky,

Whether or not I monitor the Macondo well is inconsequential. I would recommend the following items be addressed prior to spudding the well so all PP parties understand what's going on:

LOT - Agree on the best practice for the LOT. The Herschel heartburn came from reporting to the MMS a calculated value which exceeded the highest value the PWD tool recorded. Given that FG should be calibrated to minimum stress aka closure and not to the highest value this caused a lot of stress between the working parties. It may also have been part of the problem with the depleted sand because the minimum stress was lowered with the decreased fluid.

Circulating at connection - connection gas/the lack thereof was masked because they happened to make connections just as the connection gas would come up. I would recommend circulating or not making connections when the previous connection is within +/- 10 minutes of being at surface. Also for monitoring flow back fingerprints the rig ought avoid doing mud transfers at connection.

Acknowledge that a pump and dump regime will induce gumbo. If cleaning gumbo will be counted as subsurface NPT, recognize it's a self-induced problem.

When changing the logging tool configuration from the plan, make sure that the office subsurface team conveys that to the wellsite subsurface team and the corresponding reasons for the change. Additionally, the subsurface team needs to be aware of the LWD memory configuration - data acquisition rates and proposed memory fill up time. MWD surveys from Anadrill are recalculated every so often - usually at casing point. This causes a shift in TVD between 3-10ft over a 1500 ft hole section. PP monitoring is done in RT TVD so the changes need to be incorporated when updating Presgraf.

Access to RT data: There's one monitor in the geologist's/engineer's office. It's a piggybacked display to what the company man wants to see which is time data. I would recommend having access to a depth display. Ownership of the RT data displayed also ought be addressed. Anadrill sends RT data to Sperry who sends it to Insite. If there are transmission spikes, no one takes ownership to clean them up. I would recommend that somehow that be addressed. I suspect the solution to having a RT depth display will be an Insite account, but Anadrill has the capability of putting a dedicated machine in the geologist's office for displaying a depth log. The aforementioned survey changes also have impact for the Sperry RT data on Insite.

I know these are mostly issues which are resolved by Exploration owning the well instead of Production. However, these were data quality weaknesses I observed which are accepted as normal operating practices.

Cordially,

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