

From: Skripnikova, Galina
Sent: Wed Apr 14 21:08:39 2010
To: Lacy, Stuart C (QO Inc.); McAughan, Kelly; Bodek, Robert; Bondurant, Charles H
Cc: Ritchie, Bryan
Subject: RE: Rotary Sidewall
Importance: Normal
Attachments: Macondo_TD_Section_SWC.ppt

Here is my thoughts. Good luck

From: Lacy, Stuart C (QO Inc.)
Sent: Wednesday, April 14, 2010 3:42 PM
To: McAughan, Kelly; Bodek, Robert; Bondurant, Charles H; Skripnikova, Galina
Cc: Ritchie, Bryan
Subject: RE: Rotary Sidewall

I'm guessing this is still lower priority than the M56 sand cores? I'd best tell you how things will likely pan out! Once we've cut the M56 upper lobe sands which should be OK as they are lower perm and cut more easily we were then planning on doing the the upper part of the lower lobe then the rest of the lower lobe. The high perm nature of the lower lobe means that with the high overbalance the coring is very difficult (it's to do with the cuttings being sucked back towards the formation so that much of the coring is re-drilling cuttings - poorly explained but you get my drift hopefully) so the *probability* is that the coring motor will quit coring that lobe.

So do you want me to prioritise 17,805' above the M56 sands? Also bear in mind that definitely hitting a 1' thick sand is not guaranteed but with a good tie-in and a vertical hole our chances are pretty good.

cheers,

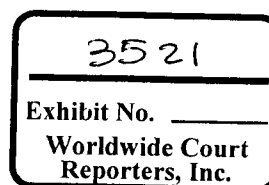
Stuart

From: McAughan, Kelly
Sent: Wednesday, April 14, 2010 3:18 PM
To: Lacy, Stuart C (QO Inc.); Bodek, Robert; Bondurant, Charles H; Skripnikova, Galina
Cc: Ritchie, Bryan
Subject: RE: Rotary Sidewall

One more request and I swear I'm done. I was thinking last priority sample could be from that pressure we got uphole at 17805-6'. In hind sight I wish we had the MDT do the fluid analyzer on it just to see what it was - no sample but flowed it.

From: Lacy, Stuart C (QO Inc.)
Sent: Wednesday, April 14, 2010 2:53 PM

CONFIDENTIAL



BP-HZN-2179MDL00884286

To: McAughan, Kelly; Bodek, Robert; Bondurant, Charles H; Skripnikova, Galina
Cc: Ritchie, Bryan
Subject: RE: Rotary Sidewall

We're already planning to cut within 1 ft of these depths anyway so I can simply shift them 1 ft to match yours Kelly. We've already got one core recovered at 18,087' so that's one MDT depth covered.

From: McAughan, Kelly
Sent: Wednesday, April 14, 2010 2:43 PM
To: Bodek, Robert; Bondurant, Charles H; Lacy, Stuart C (QO Inc.); Skripnikova, Galina
Cc: Ritchie, Bryan
Subject: RE: Rotary Sidewall
My only request on sidewall cores is to try and get a core where we took MDT fluid samples. 18086', 18124', 18142'

From: Bodek, Robert
Sent: Wednesday, April 14, 2010 1:08 PM
To: Bondurant, Charles H; McAughan, Kelly; Lacy, Stuart C (QO Inc.); Skripnikova, Galina
Cc: Ritchie, Bryan
Subject: RE: Rotary Sidewall

Not a problem. Just let me know, and we'll make it happen. Please just keep in mind the difference between 'must have' and 'would be nice to have' data. So far the 7 core plugs we have have cost about \$175,000 each. Looks like we leaning towards running the long string, so there will be no waiting time for the liner hanger to sneak in an extra RSWC run. 4 descents is unprecedented. Pinky says that having the 7 plugs and the CMR data is plenty of data to calibrate any poro/perm models. Honestly, we're not at all convinced that we even need a third run. Pinky and I are going to look at the CMR data.

Bobby

From: Bondurant, Charles H
Sent: Wednesday, April 14, 2010 12:55 PM
To: McAughan, Kelly; Bodek, Robert; Lacy, Stuart C (QO Inc.); Skripnikova, Galina
Cc: Ritchie, Bryan
Subject: RE: Rotary Sidewall

I agree. We had over 2 months of NPT time on this well. It does not make sense to blow off retrieving core plugs because the tool is PoC. We should at least retrieve our minimum of 15 unless Galina demands more.

Chuck Bondurant
BP Geologist EGoMX
Westlake 4 02065B
Office # (281) 366-7848

From: McAughan, Kelly
Sent: Wednesday, April 14, 2010 12:52 PM
To: Bodek, Robert; Lacy, Stuart C (QO Inc.); Skripnikova, Galina
Cc: Bondurant, Charles H; Ritchie, Bryan
Subject: RE: Rotary Sidewall

I figured the locations in that general area were already picked so they can just cherry pick out of those. Galina will be back in the office at 3pm today and we can discuss with her. She emailed me stressing we need the core plugs because it's the only direct measurement of poro and perm that is needed to calibrate our indirect measurements.

From: Bodek, Robert
Sent: Wednesday, April 14, 2010 12:44 PM
To: McAughan, Kelly; Lacy, Stuart C (QO Inc.); Skripnikova, Galina
Cc: Bondurant, Charles H; Ritchie, Bryan
Subject: RE: Rotary Sidewall

Does the rig have explicit prioritized depths for the RSWC attempts, or are we being general and staying "upper part of the lower lobe?"

Bobby

From: McAughan, Kelly
Sent: Wednesday, April 14, 2010 10:12 AM
To: Bodek, Robert; Lacy, Stuart C (QO Inc.); Skripnikova, Galina
Cc: Bondurant, Charles H; Ritchie, Bryan
Subject: Rotary Sidewall

Chuck, myself, and Ray (petrophysicist) discussed sidewall cores and yes we should make another attempt and try to get in the upper part of the main sand and more in the upper lobe but in the middle and then keep getting as many as we can from there in-between!

If you have any questions let me know! Hopefully the higher torque motor will do the job and we can get 50 more!

Thanks,
Kelly

Rt scanner dip-interpretation
X-bedding?

Resistivity anisotropy curves (RvRh) -- for 3 diff DOI resistivity curves
If $k \neq 1$ -- anisotropy. Thin lamination of shale and sands
or thin lamination of different quality rocks which could not be resolved with
conventional logs.

