

From: Albertin, Martin L.
Sent: Tue Mar 09 07:11:31 2010
To: Bodek, Robert; Paine, Kate (QuaDril Energy LT)
Subject: RE: Macondo kick
Importance: Normal

Kate,

Few eyeball picks I made show sonic was running slow to seismic above 13000', but came back to the seismic below 13000. Can you send me your latest .bil file with all the sonic. My insite is not cooperating.

Marty

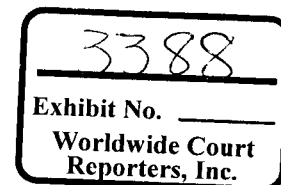
From: Bodek, Robert
Sent: Tuesday, March 09, 2010 12:28 AM
To: Bellow, Jonathan M; Bondurant, Charles H; Ritchie, Bryan; Skripnikova, Galina; Johnston, Paul J (Houston); Depret, Pierre-Andre ; Albertin, Martin L.
Cc: Lacy, Stuart C (QO Inc.); Cicales, Brett W
Subject: RE: Macondo kick

There's something to be worked out, however. Going from an estimated 11.6ppg PP at the sands ~11,100' (Most likely) to an 12.9ppg at 13,250 (Yumuri) seems pretty steep for a normal, non-centroidal, pore-pressure trend... Thoughts?

From: Bellow, Jonathan M
Sent: Tuesday, March 09, 2010 12:12 AM
To: Bodek, Robert; Bondurant, Charles H; Ritchie, Bryan; Skripnikova, Galina; Johnston, Paul J (Houston); Depret, Pierre-Andre ; Albertin, Martin L.
Cc: Lacy, Stuart C (QO Inc.); Cicales, Brett W
Subject: RE: Macondo kick

All: VERY PRELIM. In talking to the rig. There was no evidence on sonic and resistivity - Kate's plots show a estimated shale pressure of 12.1 ppg. The ECD was 12.4 ppg when we cut the sand. Background gas was constant with a couple of peaks on connections that lag to silty intervals. Only C-1 was observed, no heavier gas was seen as in the previous event. Very early number on the casing pressures (we cannot get a Shut in drill pipe pressure as we appear to be packed off) is 360 psi which is about 0.5 ppg. Therefore there is a possibility the sand could be as high as 12.9 ppg, well above the Yumari offset pressures. Once again, very early numbers, subject to change but wanted to put a few things on paper to start our work. Mark and drilling are getting better numbers on the formal worksheets for the well. I'll be heading into the office shortly

Jon



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From: Bodek, Robert
Sent: Mon 3/8/2010 11:09 PM
To: Bellow, Jonathan M; Bondurant, Charles H; Ritchie, Bryan; Skripnikova, Galina; Johnston, Paul J (Houston); Depret, Pierre-Andre ; Albertin, Martin L.
Subject: Fwd: Macondo kick

Subsurface meeting at 0700 hrs tomorrow morning. Currently shut-in. Took a kick at 13,250. Please see below.

Begin forwarded message:

From: "Lacy, Stuart C (QO Inc.)" <Stuart.Lacy@bp.com>
Date: March 8, 2010 10:50:23 PM CST
To: "Bellow, Jonathan M" <Jonathan.Bellow@bp.com>, "Bodek, Robert" <Robert.Bodek@bp.com>
Cc: "Paine, Kate (QuaDril Energy LT)" <Kate.Paine@bp.com>
Subject: Macondo kick

A summary of what we know so far about the kick:

- We cut a thin (<5ft) sand with 2.5 ohmm resistivity at 13,250' md at 21:40 hrs
- ECD went from 12.40 ppg to 12.30 ppg over 30 mins
- The active pit system gained 30 bbls in 30 mins
- The flow out went from 1300 gpm to 1485 gpm in 30 mins
- We had 2 possible connection gases - 118 / 50 units @ 12,938' md & 128/50 units @ 13,070' md although both these depths have associated sands
- There was no background gas increase (though gas was higher as the section is sandier)
- There was no indication from sonic or resistivity of suddenly increasing pore pressure

The likely culprit is the thin HC sand @ 13,250' as all the events started occurring as soon as this depth was drilled - all this is quite clear from the time log. Kate will forward the shut-in pressures when we get them.

Stuart Lacy
Wellsite Geologist
Macondo MC252 #1
Deepwater Horizon
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