

From: Cocalles, Brett W  
Sent: Fri Apr 16 22:04:48 2010  
To: Morel, Brian P  
Subject: RE: Macondo STK geodetic  
Importance: Normal  
Attachments: image001.gif; image002.jpg

That's good. If we go back to the premis that we want the best centralization across the sands and above sand for 200 ft, that is what you have and gives the completion folks the best chance to have good cement in this area. I'm good with this basis of design. Do you agree with that logic?

Best Regards,  
Brett

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From: Morel, Brian P  
Sent: Friday, April 16, 2010 4:48 PM  
To: Cocalles, Brett W  
Subject: RE: Macondo STK geodetic

Hole is washed out if you do that, tried it before. This is all I could do to get in a none washed out interval, unless you really spread them out.

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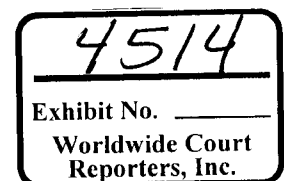
From: Cocalles, Brett W  
Sent: Friday, April 16, 2010 4:34 PM  
To: Morel, Brian P  
Subject: RE: Macondo STK geodetic

If we think the hole is relatively straight, what if you placed them every 3 joints from the shoe which almost gets you to top of cement and should maintain the pipe standoff between centralizers. With the exception if the hole is too washed out move it up or down a joint.

Just my thought on the physics of it.

Best Regards,  
Brett

From: Morel, Brian P  
Sent: Friday, April 16, 2010 4:21 PM  
To: Cocalles, Brett W  
Subject: RE: Macondo STK geodetic  
See diagram below for centralizer placement. Tried to keep them in hole under 10.75" which is



max OD for bow spring subs (blue line).

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**From:** Cocalles, Brett W  
**Sent:** Friday, April 16, 2010 4:15 PM  
**To:** Morel, Brian P  
**Subject:** RE: Macondo STK geodetic

Even if the hole is perfectly straight, a straight piece of pipe even in tension will not seek the perfect center of the hole unless it has something to centralize it.

But, who cares, it's done, end of story, will probably be fine and we'll get a good cement job. I would rather have to squeeze than get stuck above the WH. So Guide is right on the risk/reward equation.

Best Regards,  
Brett

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**From:** Morel, Brian P  
**Sent:** Friday, April 16, 2010 4:04 PM  
**To:** Cocalles, Brett W  
**Subject:** FW: Macondo STK geodetic

This is why I don't understand Jesse's centralizer requirements. You can see from the plot we aren't moving much in terms of footage over long intervals.

Brian

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**From:** Wayne Courville [mailto:Wayne.Courville@Halliburton.com]  
**Sent:** Friday, April 16, 2010 3:53 PM  
**To:** Morel, Brian P  
**Subject:** RE: Macondo STK geodetic

Hope this helps.

Wayne Courville

Lead Tech. Prof. - Well Designer

Office: 281-871-7757  
Cell: 281-686-4647

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**From:** Morel, Brian P [mailto:Brian.Morel@bp.com]  
**Sent:** Friday, April 16, 2010 3:06 PM  
**To:** Wayne Courville  
**Subject:** RE: Macondo STK geodetic

Just 2D works from 17163 to TD

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**From:** Wayne Courville [mailto:Wayne.Courville@Halliburton.com]  
**Sent:** Friday, April 16, 2010 2:57 PM  
**To:** Morel, Brian P  
**Subject:** RE: Macondo STK geodetic

Brian,

3D huh? I can give you something like this but I don't think it will be very helpful, maybe it will. From what depth to what depth are you looking for?

Wayne Courville

Lead Tech. Prof. - Well Designer

Office: 281-871-7757  
Cell: 281-686-4647

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**From:** Morel, Brian P [mailto:Brian.Morel@bp.com]  
**Sent:** Friday, April 16, 2010 2:38 PM  
**To:** Wayne Courville  
**Subject:** RE: Macondo STK geodetic

Wayne,  
Anyway you can plot me just the open hole surveys in 2D and 3D?

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**From:** Wayne Courville [mailto:Wayne.Courville@Halliburton.com]  
**Sent:** Wednesday, April 14, 2010 1:57 PM  
**To:** Morel, Brian P  
**Subject:** Macondo STK geodetic

Wayne Courville

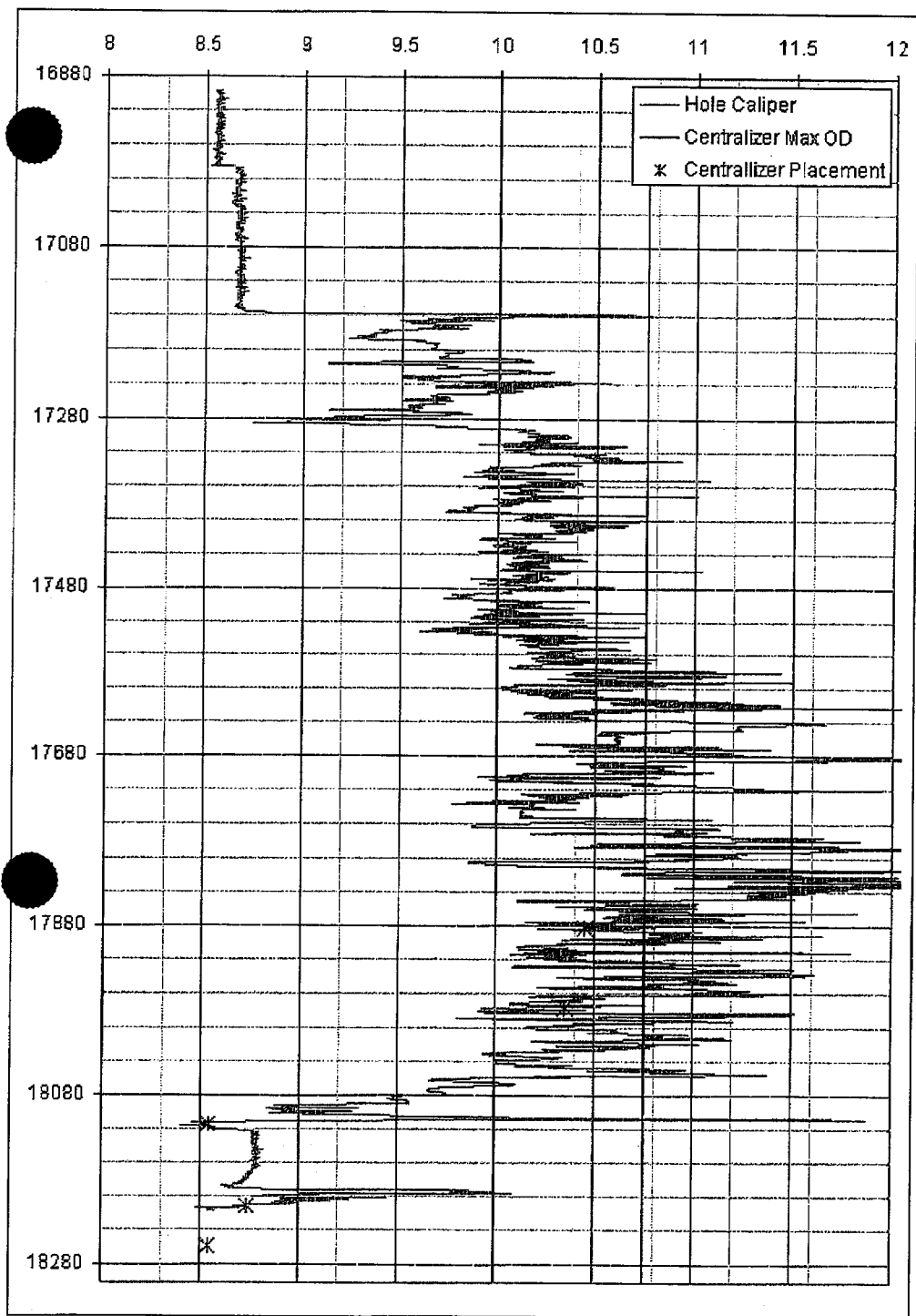
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