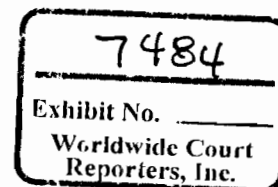

From: Jesse Gagliano
Sent: Sunday, March 07, 2010 3:32 PM
To: Hafle, Mark E
Cc: Morel, Brian P; Cocalles, Brett W
Subject: RE: Macondo 11-7/8 or 11-3/4 Expandable
Attachments: image005.jpg; image006.jpg; image007.jpg; image008.jpg

Below are the ECD graphs for both options. For the 11 7/8" Liner option we can set it to 16000' and get cement lift for the Production casing. The more we push it past 16000', the more it will break down the shoe. We will not have return though because we will break down the previous shoe. For the expandable Liner we can set it at 17000' and get good cement lift. The previous shoe looks good as well with this option. If we push the expandable further then there is minimal effect to the ECD. If we set it shallow the ECD look good at TD, but the shallower we set the expandable the more likely we will break down the previous shoe and not get returns.

We have foamed several production liners and casing across the production zone to be perforated. The last one I did was for Nakika H-2 well. Trent Fleece was the drilling eng for the project. This has been done in the past with success. Let me know if you have any questions. Thanks!!

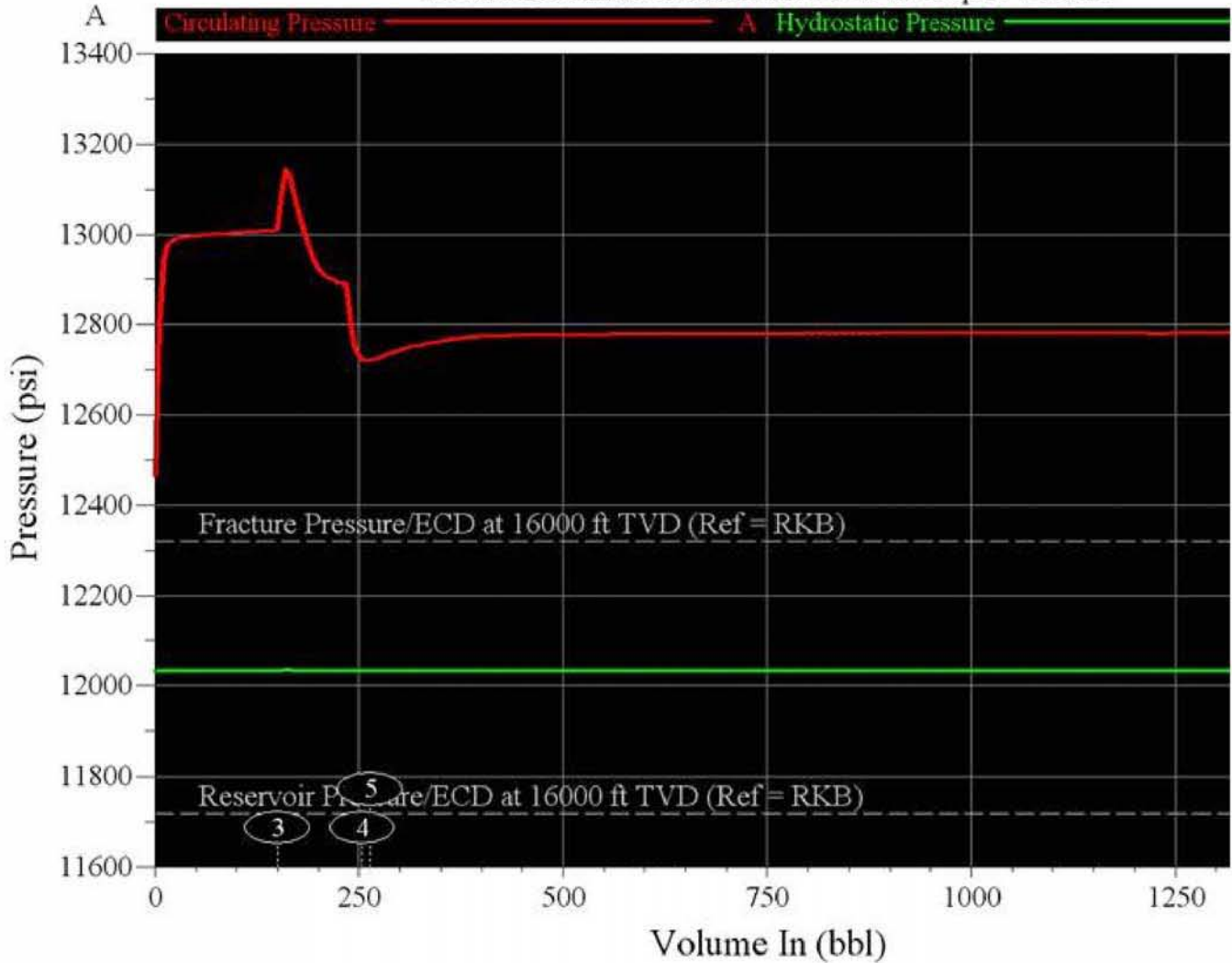
11 7/8" Liner set at 16000' @ Previous Shoe



OptiCem

Circulating Pressure and Density at Reservoir Zone

Downhole Annular Pressure and ECD vs. Liquid Volume

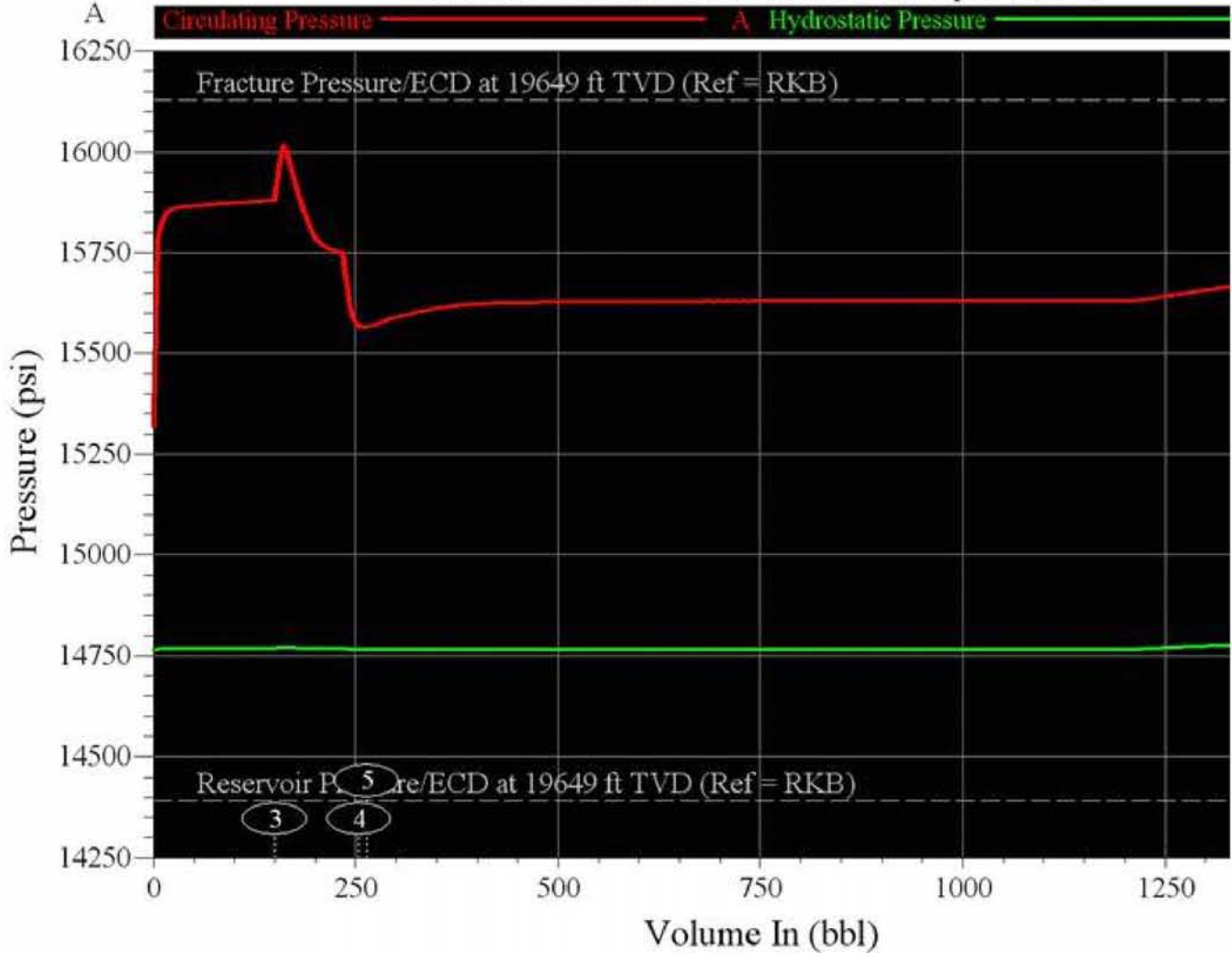


11 7/8" Liner set at 16000' @ TD

OptiCem

Circulating Pressure and Density at Fracture Zone

Downhole Annular Pressure and ECD vs. Liquid Volume

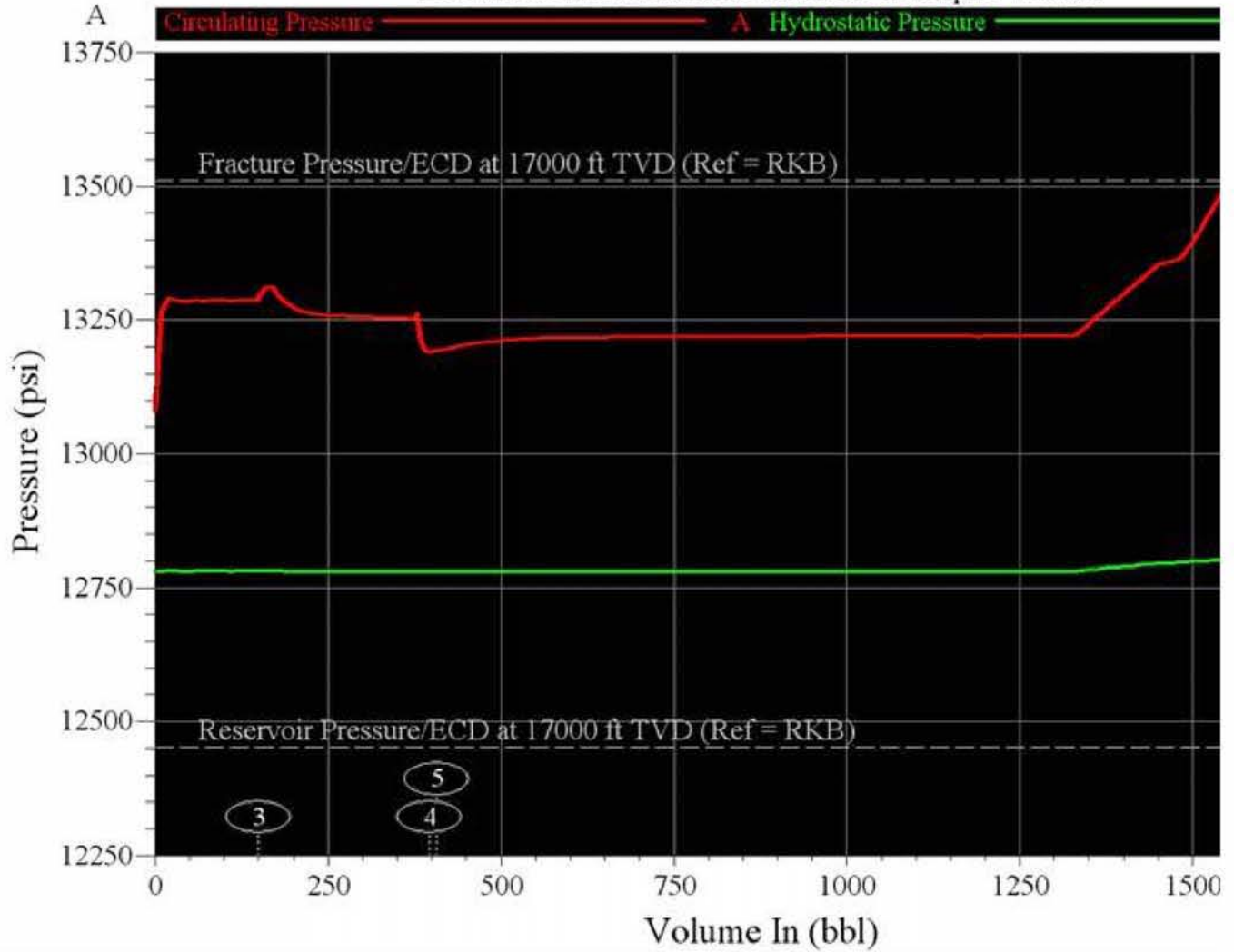


Expandable Liner set at 17000' @ Previous Shoe

OptiCem

Circulating Pressure and Density at Reservoir Zone

Downhole Annular Pressure and ECD vs. Liquid Volume

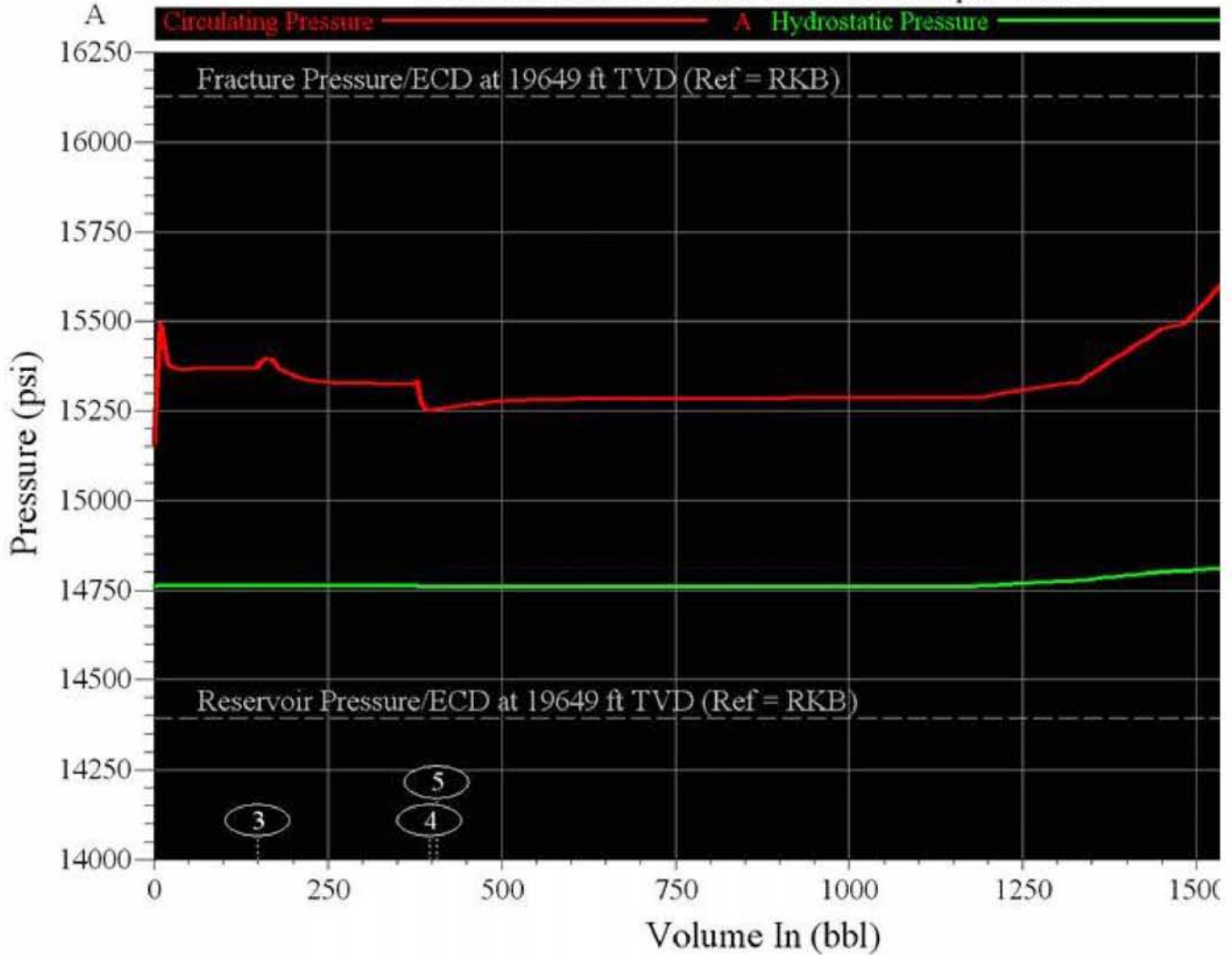


Expandable Liner set at 17000' @ TD

OptiCem

Circulating Pressure and Density at Fracture Zone

Downhole Annular Pressure and ECD vs. Liquid Volume



Jesse Gagliano

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From: Hafle, Mark E [mailto:Mark.Hafle@bp.com]

Sent: Sunday, March 07, 2010 2:20 PM

To: Jesse Gagliano

Cc: Morel, Brian P; Coteles, Brett W

Subject: Macondo 11-7/8 or 11-3/4 Expandable

Jesse, We need to know how much 11-7/8 we can run and still get cement lift on the production string of 9-7/8". Actuals in green. It is very likely that 13-5/8 will be set at 13,500 or shallower.

Attached file has both cases in schematic form

<<Macondo_MC 252_1 _Schematic_Rev14.0_03072010.xls>>

Can we put foam cement across the zone to be perforated during the completion? Not sure if this is done on other wells with close PP/FG

Regards,

Mark Hafle
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BP Deepwater GoM
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281-687-8216 (m)