

From: Alberty, Mark W
Sent: Mon Apr 05 18:29:08 2010
To: Sant, Randall
Subject: RE: Macondo Sand pressures
Importance: Normal

There will be some mudcake in the fractures. Will have to beef it up more than the calculation suggests.
Mark

Sent from my Samsung Intrepid™ on the Now Network from Sprint®.

-----Original Message-----

From: Sant, Randall <santrb@bp.com>
Sent: Monday, April 05, 2010 12:02 PM
To: Alberty, Mark W <Mark.Alberty@bp.com>
Subject: FW: Macondo Sand pressures

Mark,

If they did manage to drop the mud weight below the minimum horizontal stress and losses were curtailed; would this be a candidate for StressCage?

Thanks

Randall V. Sant

PPFG Specialist
Exploration and Production Technology Group
Drilling Team - Houston

Direct: 281-366-8886
Mobile: 713-244-4869
Email: santrb@bp.com

-----Original Message-----

From: Sant, Randall
Sent: Monday, April 05, 2010 1:00 PM
To: Morel, Brian P; Albertin, Martin L.
Cc: Alberty, Mark W; Bodek, Robert; Bellow, Jonathan M; Zhang, Jianguo X.; LeBlou, John B
Subject: RE: Macondo Sand pressures

Brian,

If we have had losses to the extent you mentioned below, then it would be very hard to model for a StressCage solution as the fracture length and width would have grown beyond what we are comfortable with. I am following up with Jianguo about modeling the fracture width based on the losses observed. With the advent of losses, what remediation methods were employed to curtail these observations? Did these abate losses? Can you tell me the approximate thicknesses of these sands?

Thanks

Randall V. Sant

PPFG Specialist
Exploration and Production Technology Group
Drilling Team - Houston



Direct: 281-366-8886
Mobile: 713-244-4869
Email: santrb@bp.com

-----Original Message-----

From: Morel, Brian P
Sent: Monday, April 05, 2010 11:44 AM
To: Sant, Randall; Albertin, Martin L.
Cc: Alberty, Mark W; Bodek, Robert; Bellow, Jonathan M; Zhang, Jianguo X.; LeBleu, John B
Subject: RE: Macondo Sand pressures
Total losses are 1159 bbls.

-----Original Message-----

From: Sant, Randall
Sent: Monday, April 05, 2010 11:24 AM
To: Albertin, Martin L.; Morel, Brian P
Cc: Alberty, Mark W; Bodek, Robert; Bellow, Jonathan M; Zhang, Jianguo X.; LeBleu, John B
Subject: RE: Macondo Sand pressures

Brian,

In reference to the two sands packages that Marty mentions in his note, did we have lost circulation in them? If so, can you quantify the lost volume? If they have had losses, a StressCage implementation may not work as expected.

Thanks

Randall V. Sant

PPFG Specialist
Exploration and Production Technology Group
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Direct: 281-366-8886
Mobile: 713-244-4869
Email: santrb@bp.com

-----Original Message-----

From: Albertin, Martin L.
Sent: Monday, April 05, 2010 11:20 AM
To: Sant, Randall
Cc: Alberty, Mark W; Morel, Brian P; Bodek, Robert; Bellow, Jonathan M
Subject: Macondo Sand pressures

Randall,

Brian Morel mentioned you might want the latest surprising data from Macondo (see attached PPFG plot). We have collected two Geotap pressure measurements, and both look to be valid. The deeper measurement at 18079' TVDKB is in a sand lobe just above the main sand lobe we drilled yesterday. The deeper low pressure sand appears to be the problematic one, and the most likely candidate for yesterday's loss event. There is a thicker lobe of sand less than 50 ft deeper than the deepest geotap pressure measurement - tool died while attempting to measure its pressure. I assume it will have a similar pressure
Our KB=75'

TVDSS TVDKB PPG PSI FG (est) OB

17722 17797 14.15 13082 13460 14835
18004 18079 12.58 11815 13912 15136

Let me know what other data you might need.

Marty

Martin L. Albertin
Geophysical Advisor
BP Deepwater Exploration
281-366-7153
albertml@bp.com

From: Sant, Randall
Sent: Mon Apr 05 18:01:59 2010
To: Alberty, Mark W
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Importance: Normal

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Exploration and Production Technology Group
Drilling Team - Houston

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Mobile: 713-244-4869
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Randall V. Sant

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Exploration and Production Technology Group
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Randall V. Sant

PPFG Specialist

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Marty

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