

From: Haffle, Mark E
Sent: Sat Mar 06 22:20:29 2010
To: Albertin, Martin L.
Subject: RE: 14 3/4" x 16" hole-section preview
Importance: Normal

We are considering an FIT, and not breaking anything else down (like the marl in the rat hole) which will commit us to the contingency liner.

From: Albertin, Martin L.
Sent: Saturday, March 06, 2010 4:19 PM
To: Haffle, Mark E
Subject: RE: 14 3/4" x 16" hole-section preview

At 17000':

PP = 13.3

Sand FG = 14.5 (PR=0.33)

Marl FG = 14.8 (PR=0.37)

Shale FG = 15.1 (PR=0.42)

OBG = 15.8

Get us a good LOT now!

Marty

From: Haffle, Mark E
Sent: Saturday, March 06, 2010 2:44 PM
To: Albertin, Martin L.; Bodek, Robert; Mitchell, Paul; Wagner, Bruce E; Cocales, Brett W; Morel, Brian P
Cc: Vinson, Graham (Pinky); Guide, John; Ritchie, Bryan

Subject: RE: 14 3/4" x 16" hole-section preview

Perfect. Thanks Marty. We are drilling firm cement in the 16" right now. Hopefully have an early FIT later this afternoon.

One more point of interest... 17,000' PP/FG expected there?

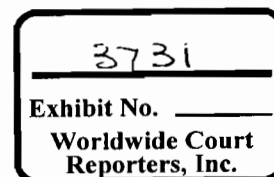
Regards,

Mark Haffle
Drilling Engineer
BP Deepwater GoM
281-366-4237 (o)
281-687-8216 (m)

From: Albertin, Martin L.
Sent: Saturday, March 06, 2010 1:35 PM
To: Haffle, Mark E; Bodek, Robert; Mitchell, Paul; Wagner, Bruce E; Cocales, Brett W; Morel, Brian P
Cc: Vinson, Graham (Pinky); Guide, John; Ritchie, Bryan
Subject: FW: 14 3/4" x 16" hole-section preview

Team:

Based on the current PPFG forecast, and adding Bruce's "Marl" FG calibration



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BP-HZN-2179MDL00002077

BPD109-002077

from last week...

At the shoe (11585' TVDKB), we expect the following:

PP = 11.3

Sand FG = 12.5 (PR=0.33)

Marl FG = 12.8 (PR=0.37)

Shale FG = 13.1 (PR=0.42)

OBG = 13.8

At 13000' TVDKB:

PP = 12.0

Sand FG = 13.2

Marl FG = 13.4

Shale FG = 13.8

OBG = 14.4

At 13500' TVDKB:

PP = 12.2

Sand FG = 13.4

Marl FG = 13.6

Shale FG = 14.0

OBG = 14.6

At 14000' TVDKB:

PP = 12.5

Sand FG = 13.6

Marl FG = 13.9

Shale FG = 14.2

OBG = 14.8

Using current ML PP, and 0.3 PPG margin:

Estimated 13 5/8" TD based on getting predicted SHALE LOT (13.1 PPG) =
14250' TVDKB

Estimated 13 5/8" TD based on getting predicted MARL LOT (12.8 PPG) = 13925'
TVDKB

Estimated 13 5/8" TD based on getting predicted SAND LOT (12.5 PPG) = 13475'
TVDKB

Let me know if you need anything else!

Marty

From: Albertin, Martin L.

Sent: Monday, March 01, 2010 10:50 AM

To: Bodek, Robert; Cocales, Brett W; Guida, John; Haffle, Mark E; Morel, Brian P; Sims, David C; Arca, Serkan; Bellow, Jonathan M; Bondurant, Charles H; Decalf, Carole; Depret, Pierre-Andre; Johnston, Paul J (Houston); Nguyen, Binh Van; Ritchie, Bryna; Skripnikova, Galina; Tadepalli, Sharma V; Vinson, Graham (Pinky); Mitchell, Paul

Cc: Lacy, Stuart C (QO Inc.); Paine, Kate (Quadril Energy LT)

Subject: RE: 14 3/4" x 16" hole-section preview

Team,

A quick look at the forecast gives the following values (PPG) at a shoe depth of 11585" TVDKB:

PP = 11.3

Sand FG = 12.53 (PR=0.33)

Shale FG = 13.13 (PR=0.42)

OBG = 13.82

Marl FG will be somewhere between the sand and shale FG.

If we get the predicted shale frac gradient at LOT, if pore pressure follows the ML line, and if no weaker marl zones intervene, then predicted 13 5/8" TD is at around 14250' TVDKB. We can revisit the predicted TD after we see what the LOT is.

Pore pressure comments regarding upcoming hole section:

The main worry is that we could start seeing signs that we are on a higher Yumuri pore pressure gradient. The Yumuri model defines the max PPFG case. Sand-Shale pressure should be fairly close in this hole section according to centroid modelling.

Marty

From: Bodek, Robert

Sent: Monday, March 01, 2010 9:05 AM

To: Cocales, Brett W; Guide, John; Haffle, Mark E; LeBleu, John B; Morel, Brian P; Sims, David C; Albertin, Martin L; Arca, Serkan; Bellow, Jonathan M; Bodek, Robert; Bocsiger, Todd; Bondurant, Charles H; Decalf, Carol; Depret, Pierre-Andre; Johnston, Paul J (Houston); Lundquist, Jason J; McLaughan, Kelly; Nguyen, Binh Van; Ritchie, Bryan; Skripnikova, Galina; Tadepalli, Sharna V; Vinson, Graham (Pinky)

Cc: Lacy, Stuart C (QO Inc.)

Subject: 14 3/4" x 16" hole-section preview

Macondo Team,

Let's preview the upcoming hole-section after morning call tomorrow.

Regards,

Bobby Bodek

BP America Inc.

Geological Operations Coordinator

Gulf of Mexico Exploration - Tiger Team

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(c) 713.213.7553