IODP EXP 358 Daily Geomechanics Report

Report #039 20181218

RTG Team

RTG Supervisor(s)	David Castillo / Thomas Finkbeiner / Demian Saffer
RTG Watch Lead (00:00-12:00)	Emily Wisbey
RTG Watch Lead (12:00-24:00)	Toby Colson

Well Status

Site Name:	C0002		**Hole Name:**	Q	
Water Depth:	1,939.0	m	**RT-MSL:**	28.5	m
Current Depth:	4762 4759.7	mBRT (mTVD)	**Section TD:**	5,667.5 (5,664.5)	mBRT (mTVD)
Section #:	1		**CSG Depth/Size:**	4757.0 / 11-3/4”	mBRT
Static MW:	1.37	sg	**Current ECD:**	-	sg
FIT/LOT/ XLOT:	N/A. *Note: C0002Q FIT maximum pressure = 1.45 sg @ 4,855mBRT.*				
Current formation/ lithology:	Shale				
Sensor Offsets from the Bit:	N/A				
Other BHA Offsets from the Bit	N/A				
Current Operations:	POOH with the 10-5/8” Tri Mill. Made up 10-1/2” Tri Mill and RIH to ~4746mBRT. Staged up paramters and commenced milling window.				

Geomechanics Alert

GREEN	Green = Projected model remains accurate White = Unanticipated deviation from model which *should not* affect drilling Yellow = Unanticipated deviation from model which *may* affect drilling Red = Imminent requirement to stop drilling
Basis for Alert Level + Recommendations	No further observations have been made to suggest any change in wellbore condition. 1.37 sg remains recommended MW for Section 1.

Principal Findings

N/A.

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Observations Summary

Use this space to discuss any observations while drilling, running casing etc.

Fracture Gradient	N/A
Pore Pressure	No significant gas peaks or other indications of overpressure observed.
Wellbore Breakout	N/A
Tensile Failure	N/A
Drilling Parameters	N/A
Other	N/A

Analysis

Drilling Experience Analysis

N/A

Cuttings Analysis

N/A

Cavings Analysis

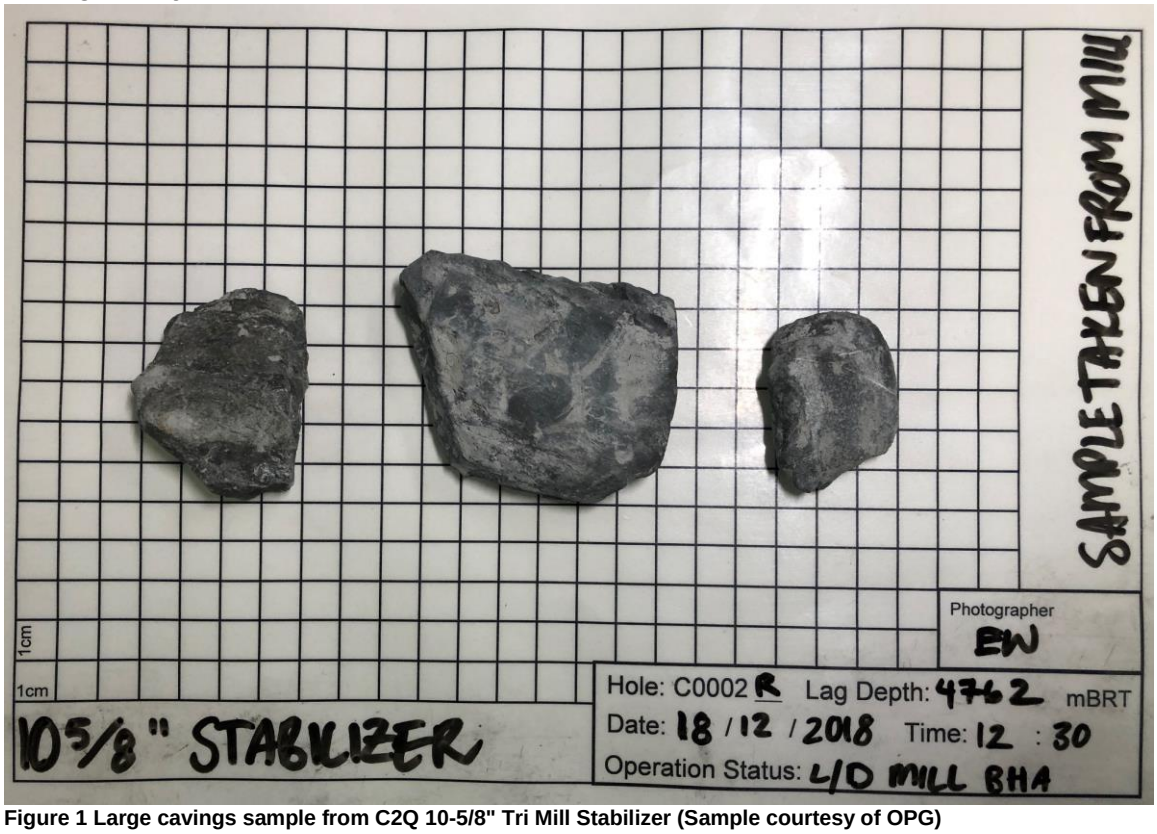

Figure 1 Large cavings sample from C2Q 10-5/8" Tri Mill Stabilizer (Sample courtesy of OPG)

The Large (>65mm) well-rounded platey/blocky cavings from C2P recovered at surface from the 10-5/8" mill (similar to C2Q) probably originally spalled from the borehole wall in C0002P.

Following the repeated pack-off events during Exp 348, which forced drilling fluids into the bedding plane interfaces that eventually dislodged these larger fragments.

Hole cleaning was very inefficient during Exp 348 and given the size of these fragments, it is not a surprise they were recovered during the C2R milling operations.

LWD Data Analysis

N/A

SFIB Analysis

N/A

Geomechanical Model Review

No change in the current stress model.

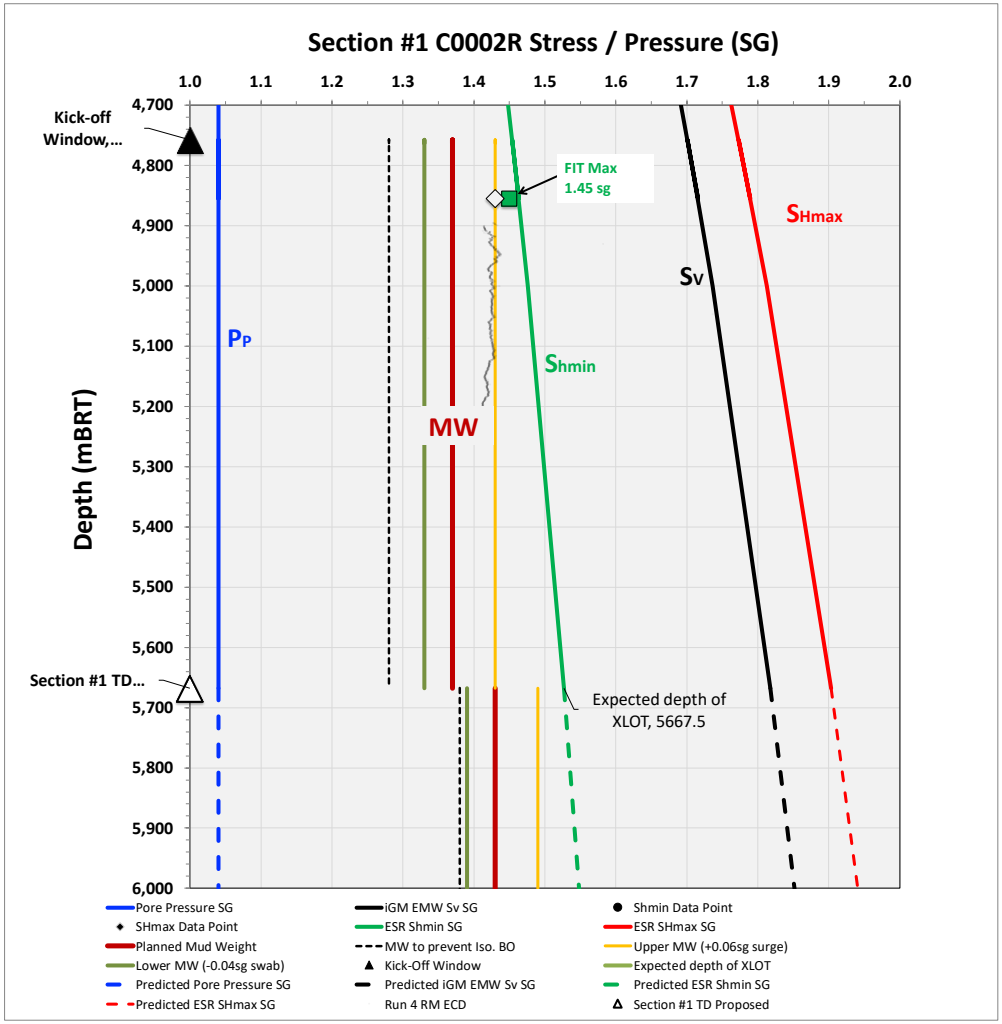

Figure 2 Current stress model for Section #1

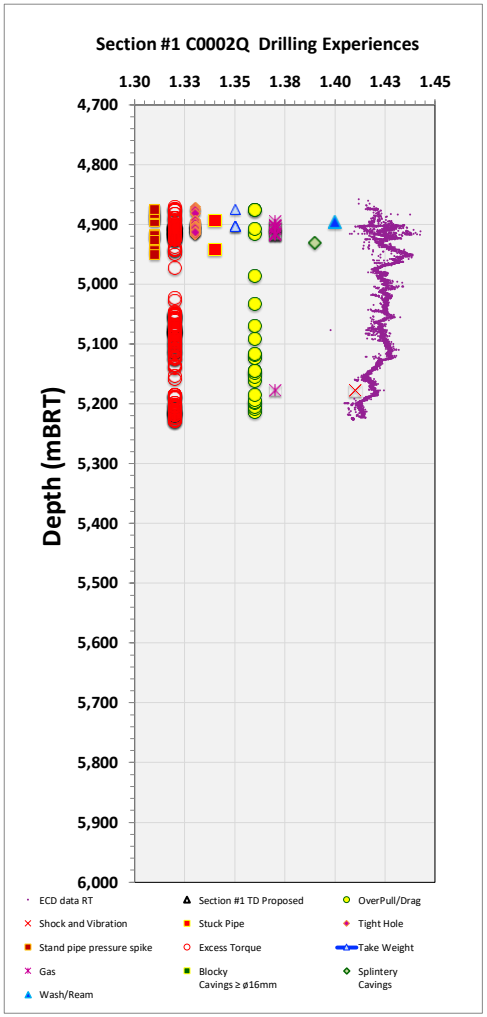

Figure 3 C0002Q Drilling Experiences