IODPEXP 358 Daily Geomechanics Report

Report #002 20181111 Final 4867

RTG Team

RTG Supervisor(s)	David Castillo / Thomas Finkbeiner / Demian Saffer
RTG Watch Lead (00:00-12:00)	Kan Aoike
RTG Watch Lead (12:00-24:00)	Emily Wisbey
RTG Office Support	N/A

Well Status (as of 06:00 on 12 Nov. 2018)

Site Name:	C0002		**Hole Name:**	Q	
Water Depth:	1,939.0	m	**RT-MSL:**	28.5	m
Current Depth:	4,867.2 (4,865.3)	mBRT mTVD	**Section TD:**	4,867.2 (4,864.0)	mBRT mTVD
Section #:	0		**CSG Depth / Size:**	-	mBRT
Static MW:	1.33	sg	**Current ECD:**	-	sg
Current formation/ lithology:	Shale				
Sensor Offsets:	-				
Current Operations:	RIH again Milling BHA from 05:20. Resumed milling and drilling at 20:45 and reached 4867.2 mBRT at 22:45. After circulation and cement unit pressure test, started FIT at 05:30 Nov.12. Succeeded to pressurize up to 830 psi (1.45 sg). Stop pump at 05:55.				

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 issue to use 1.37 sg MW as of this moment.

Principal Findings

FIT successfully completed. Pressurized up to 830 psi (1.45 sg) without deviation from the linear pressure build-up gradient. After pumping off, obtained a stabilized pressure at 670 psi (1.43 sg). Therefore, the planned MW, 1.37 sg, can be used for drilling the Section 1 with an enough upper margin.

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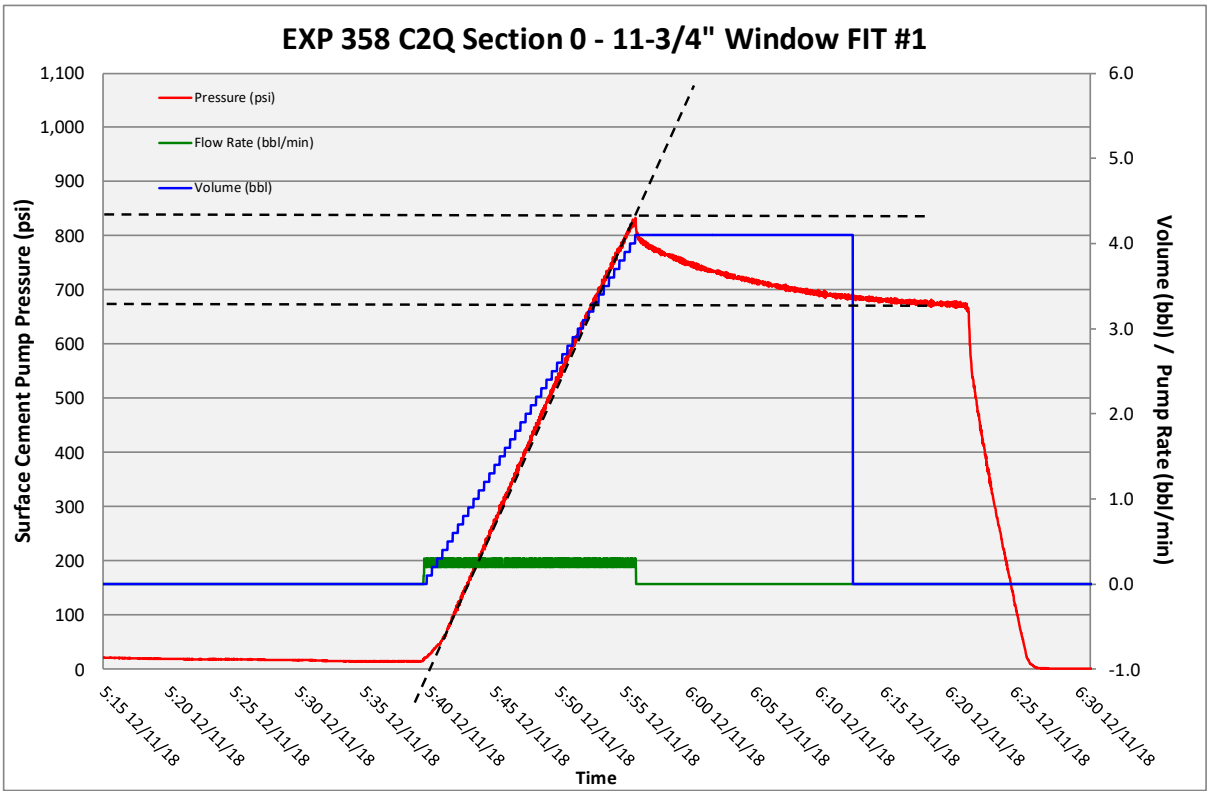

Observations Summary

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

Fracture Gradient	
Pore Pressure	
Wellbore Breakout	
Tensile Failure	
Drilling Parameters	
Other	

Analysis

LWD Log Analysis

N/A

Drilling Experience Analysis

N/A

Cuttings Analysis

N/A

Cavings Analysis

Cavings coming up after reaching TD were in fine pebble size (< ø 2 cm), comprising 60-70% of solid materials. Agular: 40%, Tabular: 5%, Platy: 5%, subrounded blocky: 20%, Others (cement, fiber & metal):30%. If present, incipient minor anisotropic breakout is expected. No larger blocky cavings (> ø2 cm), either rounded or sharp-edged, were observed.

SFIB Analysis
N/A

FIT Analysis
N/A

Geomechanical Model Review
No changes to pre-drill geomechanical model, pending the results of 11-3/4” repeat FIT.

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