

IODP EXP 358 Daily Geomechanics Report

Report #061 20190109

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:	R
Water Depth:	1,939.0 m	RT-MSL:	28.5 m
0600h Hole Depth:	5,052.0 mBRT (5049.0 mTVD)	Section TD:	5,667.5 mBRT (5,664.5 mTVD)
Section #:	1	CSG Depth/Size:	4757.0 mBRT 11-3/4" inches
Static MW:	1.39 sg	Current ECD:	sg
FIT/LOT/ XLOT:	1.46sg FIT @ 4,757mBRT.		
Current formation/ lithology:	Shale		
Sensor Offsets from the Bit:	arcVISION 675: (APWD: 6.919 m, Resistivity: 7.631 m, GR: 7.682 m) TeleScope 675: (IWOB: 11.699m, Direction + Inclination: 16.064 m) <i>*Note arcVISION and TeleScope are behind 12-1/4" HRR Underreamer</i>		
Other BHA Offsets from the Bit:	8-1/4" x 12-1/4" HRR-8000 reamer: 1.46 m 10-5/8" Stabilizer: 21.771 m Top of BHA: 341 m		
Current Operations:	POOH and lay down 8-1/2" x 12-1/4" LWD BHA (BHA #20). Rigged up and ran in hole with 8-1/2" x 12-1/4" LWD BHA (BHA #21) to 530mBRT.		

Geomechanics Alert

GREEN	<p>Green = Projected model remains accurate White = Unanticipated deviation from model which <i>should not</i> affect drilling Yellow = Unanticipated deviation from model which <i>may</i> affect drilling Red = Imminent requirement to stop drilling</p>
Basis for Alert Level + Recommendations	<p>1.39 sg remains recommended MW for Section 1. Observation suggests hole cleaning remains a key factor in current wellbore condition.</p>

Principal Findings

N/A

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Observations Summary

Fracture Gradient	N/A
Pore Pressure	No 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 and Cavings Analysis



Figure 1 Sample from BHA #20 12-1/4" Underreamer

Large blocky cavings were recovered from the 12-1/4" underreamer.

- Large blocks in the top middle of Figure 2 are rounded and appear to be consistent with the claystone and siltstone implying that the material between the tuff is beginning to show more failure than previous passes. The large and angular shape of the blocky casings imply the failure occurred during the previous BHA run. Metal material is from somewhere in the casing section; possibly from the edges of the window.

LWD Data Analysis

N/A

SFIB Analysis

No further updates.

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Geomechanical Model Review

No change in the current stress model.

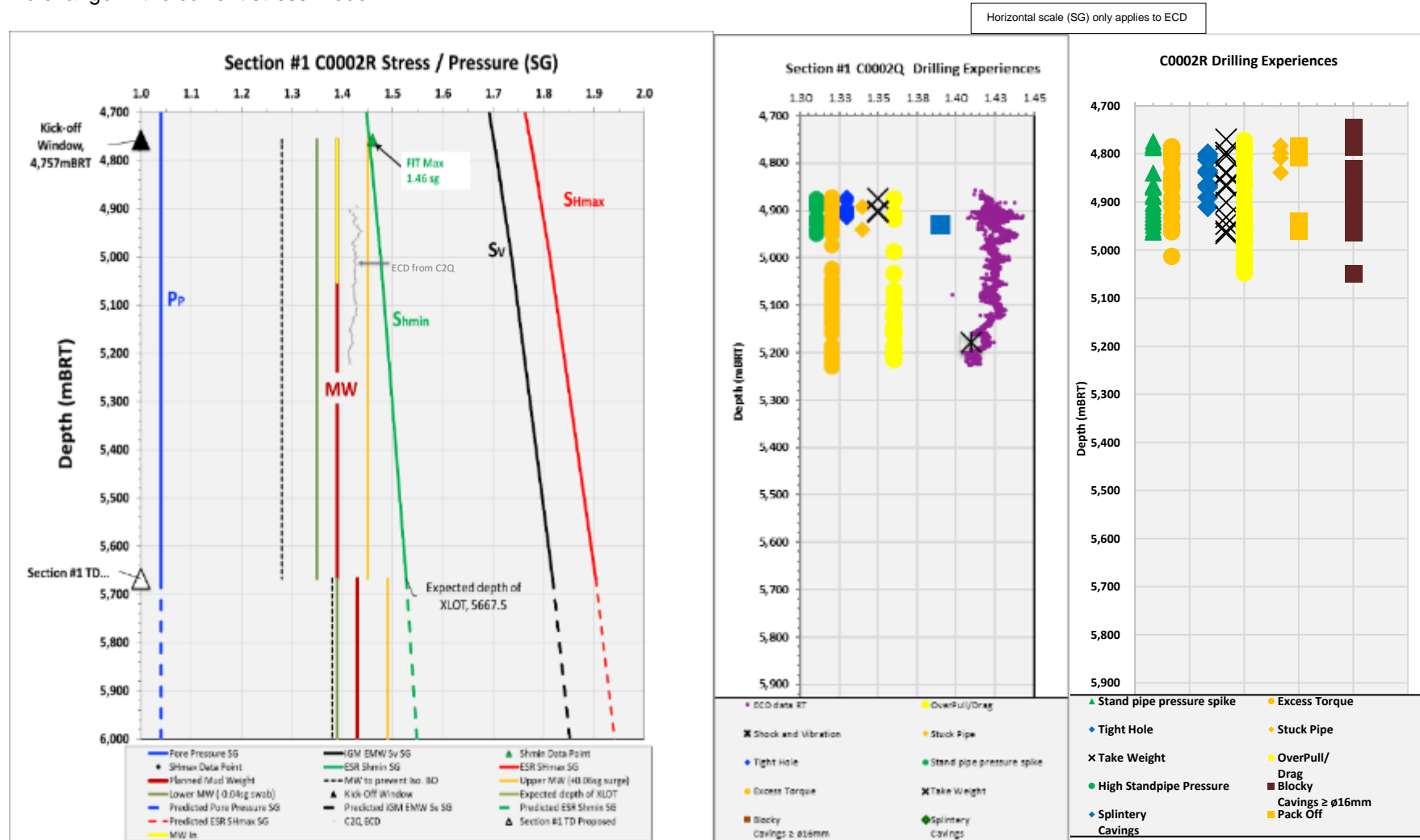


Figure 3 Current stress model for Section #1

Figure 4 C0002Q Drilling Experiences

Figure 5 C0002R Drilling Experiences