

IODP EXP 358 Daily Geomechanics Report

Report #070 20190118

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)	Kan Aoike

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:	4,818.0 mBRT 11-3/4" ESET inches
Static MW:	1.39 sg	Current ECD:	- sg
FIT/LOT/ XLOT:	N/A Note: 1.46sg FIT @ 4,757mBRT		
Current formation/ lithology:	Shale		
Sensor Offsets from the Bit:	N/A		
Other BHA Offsets from the Bit:	N/A		
Current Operations:	Continued attempting to free the Drill Out Assembly. Prepared for backing off drillstring. RIH free point indicator and confirmed tool is free. POOH free point indicator on wireline and commenced RIH back-off tool.		

Geomechanics Alert

GREEN	<p>Green = Projected model remains accurate</p> <p>White = Unanticipated deviation from model which <i>should not</i> affect drilling</p> <p>Yellow = Unanticipated deviation from model which <i>may</i> affect drilling</p> <p>Red = Imminent requirement to stop drilling</p>
Basis for Alert Level + Recommendations	<p>1.39 sg remains recommended MW for Section 1.</p> <p>No further change in wellbore condition has been observed.</p>

Principal Findings

N/A

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Observations Summary

Fracture Gradient	N/A
Pore Pressure	N/A
Wellbore Breakout	N/A
Tensile Failure	N/A
Drilling Parameters	N/A
Other	N/A

Analysis

Drilling Experience Analysis

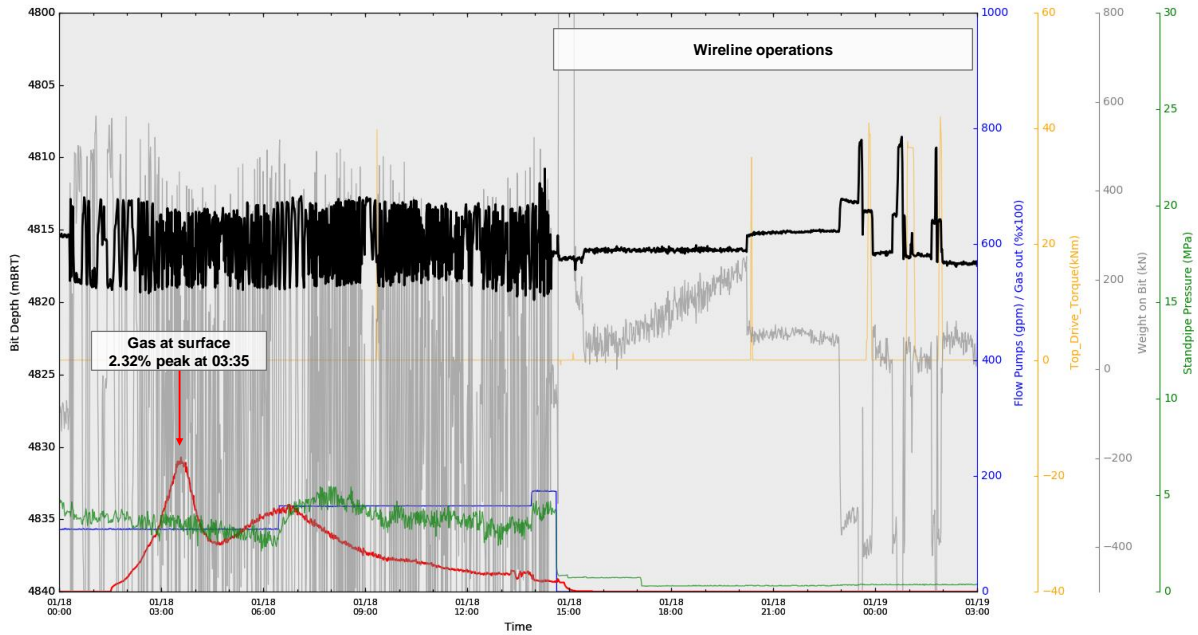


Figure 1 Drilling Experiences over last 24hrs

A gas peak of ~2.32% arrive at 03:35hrs on the 18th January, corresponding with a lag time of ~16:20hrs on the 17th January. In the previous 48hrs gas out was constant at 0%.

Cuttings and Cavings Analysis

RTG samples (until 15:00) continued to be small (<1mm) with high levels of barolift caught over the 4mm sieve.. The flow rate was limited to ~100-150gpm (w/ 400gpm on the boost) it is likely the flow rate was not sufficient to lift large cuttings up the annulus.

LWD Data Analysis

N/A

SFIB Analysis

No further updates.

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Geomechanical Model Review

No change in the current stress model.

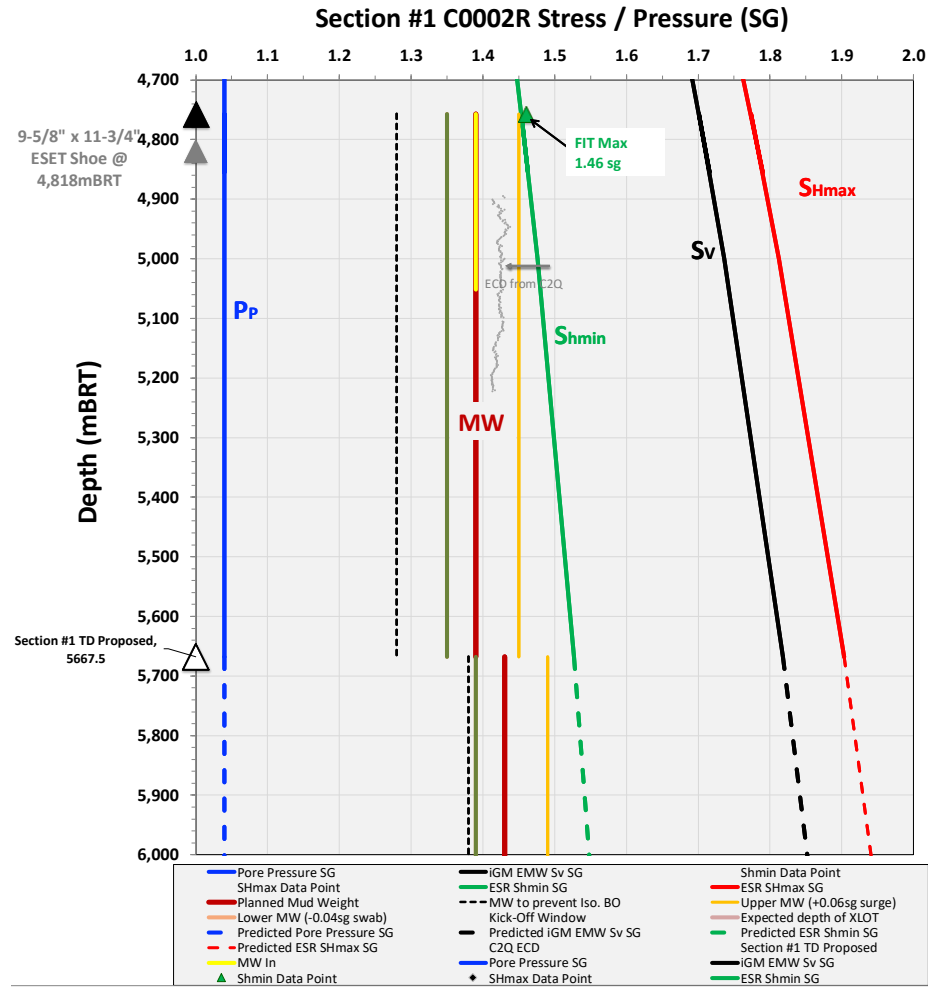


Figure 2 Current stress model for Section #1