IODP EXP 358 Daily Geomechanics Report Report #042 20181221

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) | Toby Colson |

Well Status

| C0002 | | Hole Name: | R | |
|-------------------------|---|---|--|---|
| 1,939.0 | m | RT-MSL: | 28.5 | m |
| 4,772 | mBRT | Section TD: | 5,667.5 | mBRT |
| (4,771) | (mTVD) | Section TD. | (5,664.5) | (mTVD) |
| 0 | | CSG | 4757.0 | mBRT |
| | | Depth/Size: | 11-3/4 | inches |
| 1.37 | sg | Current ECD: | (1.40) | sg |
| 1.46sg FIT @ 4,757mBRT. | | | | |
| | | | | |
| Shale | | | | |
| | | | | |
| | | | | |
| N/A | | | | |
| | | | | |
| | | | | |
| N/A | | | | |
| | | | | |
| RIH with 10 5/ | 8" window mill | assembly and dr | essed window (F | POOH from 00:45 |
| Dec.22). | | 2 | , | |
| | 1,939.0 4,772 (4,771) 0 1.37 1.46sg FIT @ 4 Shale N/A N/A RIH with 10 5/ | 1,939.0 m 4,772 mBRT (4,771) (mTVD) 0 | 1,939.0 m RT-MSL: 4,772 mBRT (4,771) Section TD: 0 CSG Depth/Size: 1.37 sg 1.46sg FIT @ 4,757mBRT. Shale N/A N/A RIH with 10 5/8" window mill assembly and dressent of the second seco | 1,939.0 m RT-MSL: 28.5 4,772 mBRT (4,771) Section TD: 5,667.5 (5,664.5) 0 CSG 4757.0 0 Depth/Size: 11-3/4 1.37 sg Current ECD: (1.40) 1.46sg FIT @ 4,757mBRT. Shale N/A N/A RIH with 10 5/8" window mill assembly and dressed window (Figure 10 10 10 10 10 10 10 10 10 10 10 10 10 |

Geomechanics Alert

| GREEN | 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 |
|---|---|
| Basis for Alert Level + Recommendations | Wellbore shows no current signs of deterioration during operations. 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 | N/A | |
| Parameters | N/A | |
| Other | N/A | |

Analysis

Drilling Experience Analysis

Some high torque noted whilst dressing window with 10 5/8" milling assembly (Figure 1). However, typically drifting with minimal resistance. Some 'fill' may be evident at the bottom of the hole from the torque seen when bit at the bottom half meter of the hole. RTG considers this to be normal for current operations.



Figure 1 Drilling experiences over the last 24hrs

Cuttings Analysis N/A

Cavings Analysis

During window dressing, both fresh and rounded blocky cavings/cuttings > ø4mm were coming up with fine cuttings at abundance of ~3%. Once circulation and bottoms up started, they slightly increased up to 15 % (Figure 2). Grain sizes of the most cavings/cuttings were generally less than ø1 cm (ø2.5 cm at maximum) (Figure 3).

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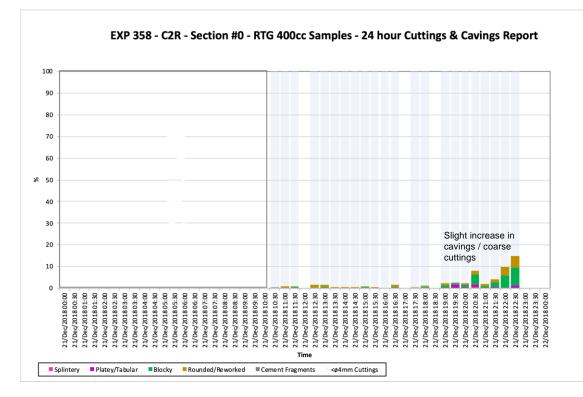


Figure 2 Analysis of cuttings/cavings > ø 4mm (taken from 400cc RTG Samples) over last 24hrs.



Figure 3 Example of cuttings/cavings > ø 4mm (taken from 400cc RTG Samples).

LWD Data Analysis N/A

SFIB Analysis N/A

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Geomechanical Model Review

No change in the current stress model.

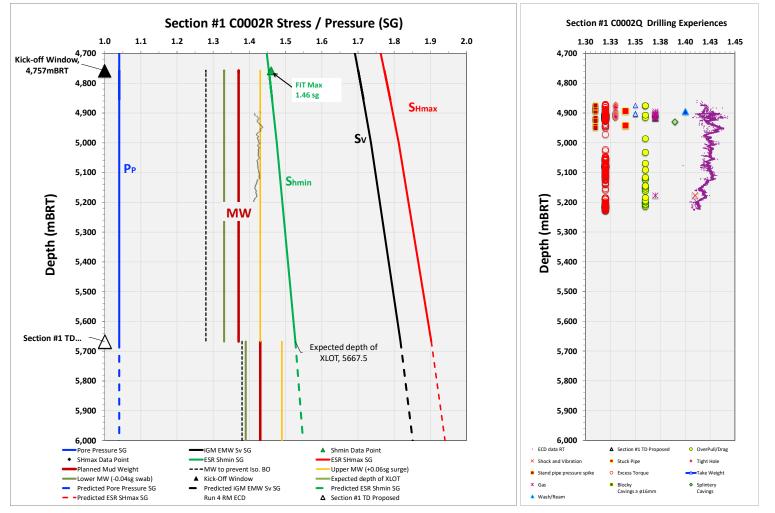


Figure 1 Current stress model for Section #1

Figure 2 C0002Q Drilling Experiences