

Morning Report PNR1z

| Management System: | HSE | File Name: | 012-PNR1z-19.10.18-RMR | |
|---|---------------------|---------------------------------|-------------------------------|---------------------|
| Approver: | Senior Geoscientist | Version No: | 1 | |
| Reviewer: | Frac Manager | Date of Issue: | 20 th October 2018 | |
| Author: | Senior Geoscientist | Proposed date of Review: | n/a | |
| Version | Section | Revision Information | Date | Reviser |
| 0.1 | All | Draft Publication | 20/10/2018 | Senior Geoscientist |
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| <i>Documents are reviewed as per proposed review date, or sooner if a significant change to the operation has taken place, to ensure relevance to the systems and process that they define.</i> | | | | |

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Summary

Overview of day's operations:

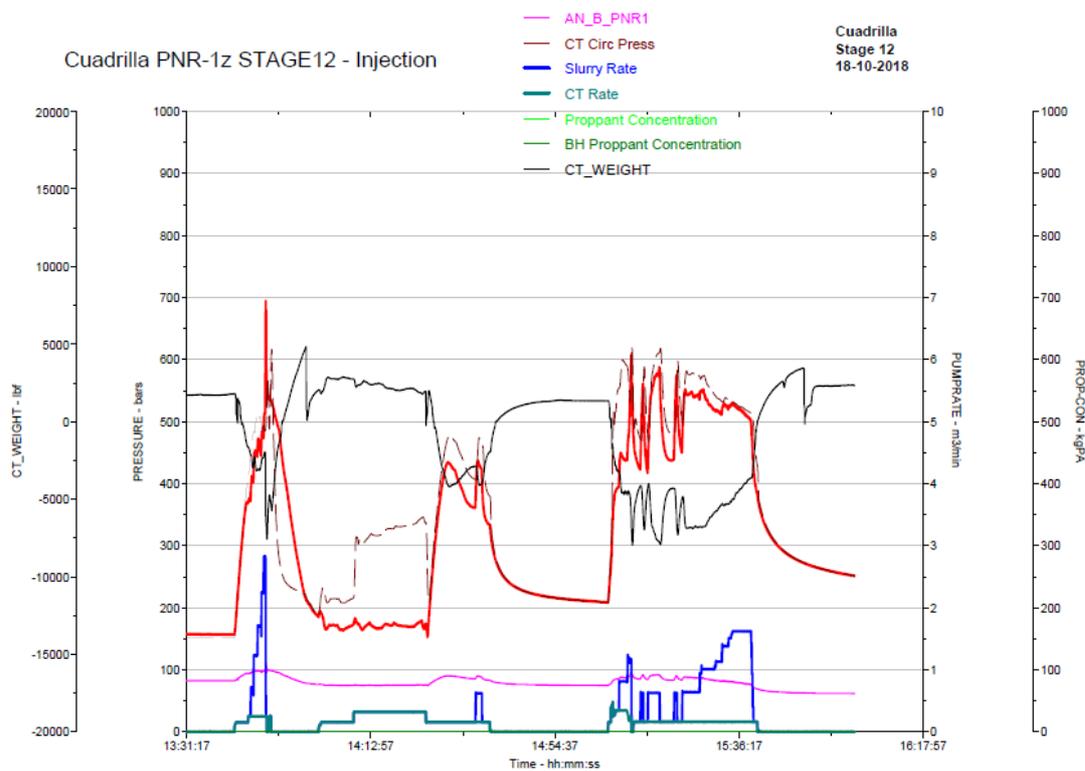
- Attempt at injection into Stage 12
- Flow back performed – None performed
- No Induced seismicity or any red line boundary breached

Injection Summary

Stage 12

| Injection Depth m (RT) | Volume (fluid m3, proppant tonne) | Fluid System | Additives (type, mass kg) |
|-------------------------|--|-------------------|--|
| 3180.775 M MDRT | Slickwater Frac (33.9 m3 & 0 T) | Slickwater | B528 Friction Reducer, Slickwater Frac – 9 kg |
| -2306.54 M TVDRT | | | |

Injection Chart



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Fracture Growth

- Max hydraulic frac half length: None Seen
- Hydraulic frac height at well: None Seen
- Difficulty in injecting into the formation

Well Integrity Status

- No change

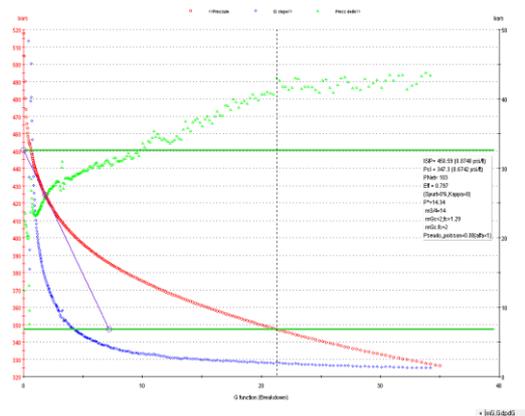
Induced Seismicity of Note

- No induced seismicity of note

Update to Stress Magnitude

No update to stress magnitude as closure was not observed

- $S_{Hmin} = 0.0152 \text{ MPa/m}$



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