

Morning Report PNR1z

Management System:	HSE	File Name:	017-PNR1z-24.10.18-RMR	
Approver:	Senior Geoscientist	Version No:	1	
Reviewer:	Frac Manager	Date of Issue:	25 th October 2018	
Author:	Senior Geoscientist	Proposed date of Review:	n/a	
Version	Section	Revision Information	Date	Reviser
0.1	All	Draft Publication	25/10/2018	Senior Geoscientist
<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:

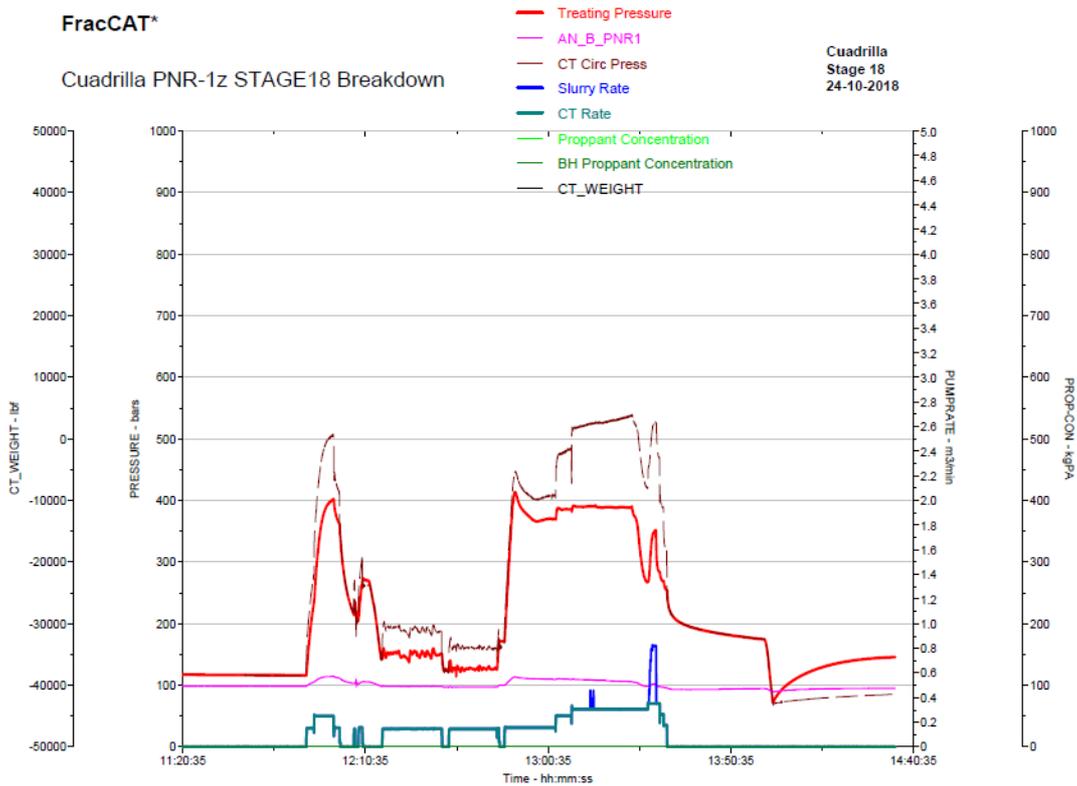
- Diagnostic injection into Stage 18
- Flow back performed – 0.19 m³
- Extended monitoring post diagnostic injection
- No red line boundary breached

Injection Summary

Stage 18

Injection Depth m (RT)	Volume (fluid m3, proppant tonne)	Fluid System	Additives (type, mass kg, %)
--3074.73 M MDRT	Slickwater Frac (10.5 m3 & 0 T)	Slickwater	B528 Friction Reducer, Slickwater Frac – 0 kg – 0.00 %
-2315.85 M TVDRT			

Injection Chart

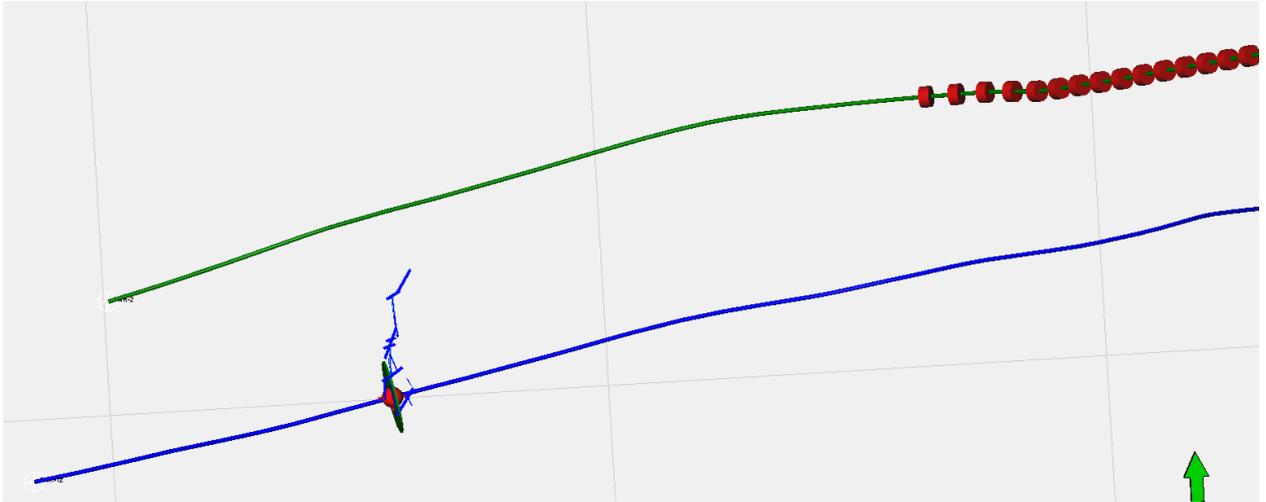


Pumping Time: 24/10/2018 13:28:21 – 24/10/2018 13:33:17

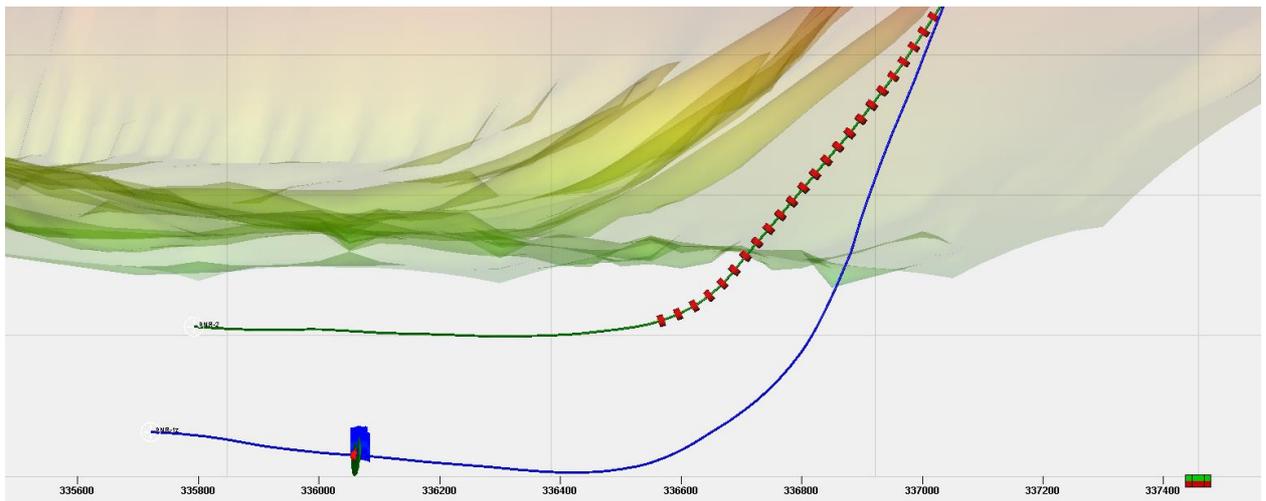
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Fracture Growth

- Map View, scale north bar

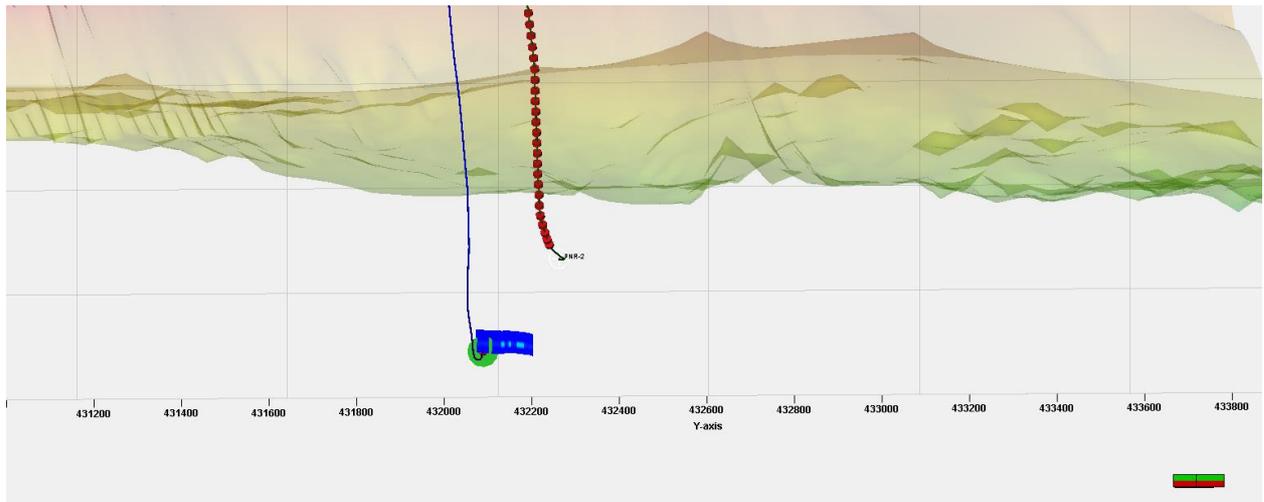


- X-section due north



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- X-section due east



- Max hydraulic frac half length: 129.44 m
- Hydraulic frac height at well: 51.98 m

Well Integrity Status

- No change

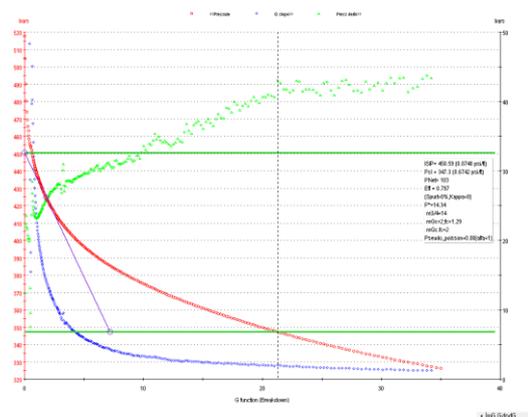
Induced Seismicity of Note

- 24/10//2018 14:02:39 = $M_L = 0.48$

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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