

Morning Report PNR1z				
Management System:		HSE	File Name:	013-PNR1z-20.10.18-RMR
Approver:		Senior Geoscientist	Version No:	1
Reviewer:		Frac Manager	Date of Issue:	21 th October 2018
Author:		Senior Geoscientist	Proposed date of Review:	n/a
Version	Section	Revision Information	Date	Reviser
0.1	All	Draft Publication	21/10/2018	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:

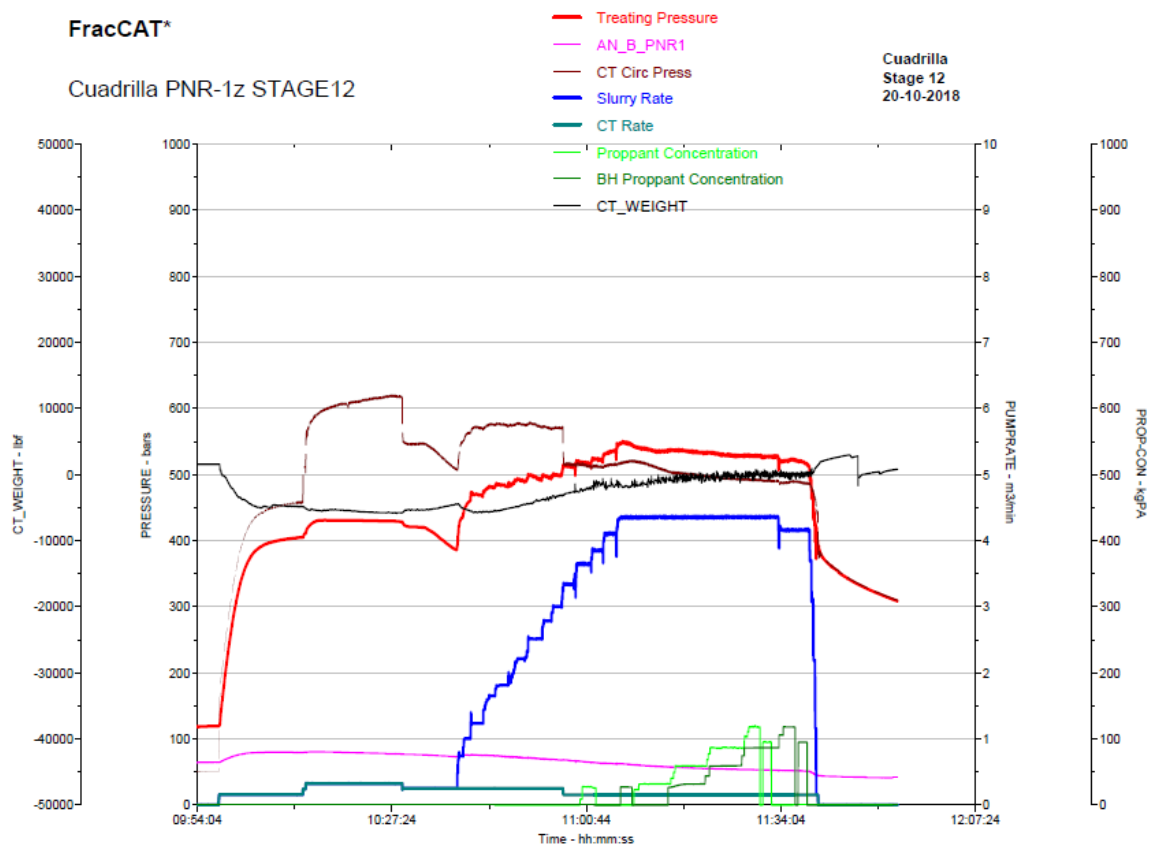
- 1x Slickwater Frac with Proppant
- Flow back performed – 22.49 m³
- No Induced seismicity or any red line boundary breached

Injection Summary

Stage 12

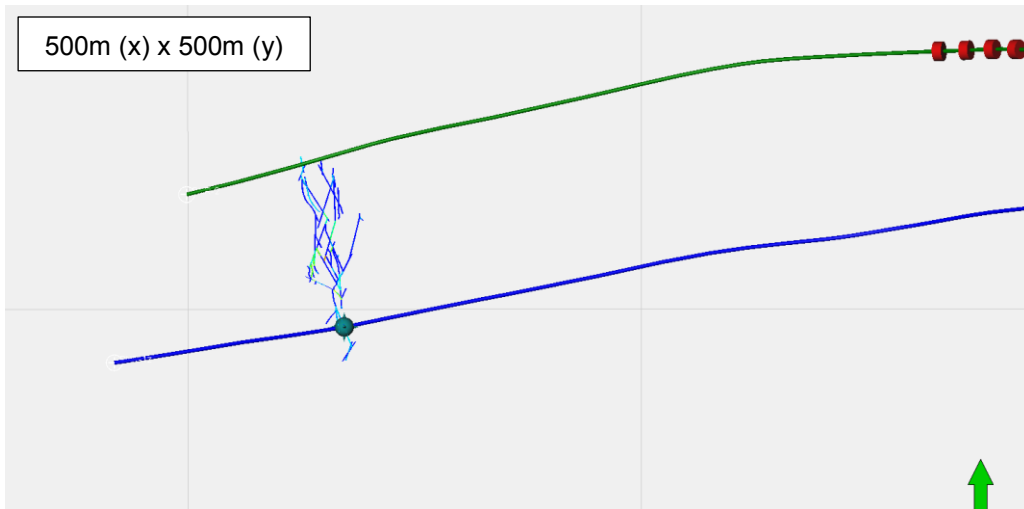
Injection Depth m (RT)	Volume (fluid m3, proppant tonne)	Fluid System	Additives (type, mass kg, %)
3180.76 M MDRT	Slickwater Frac (221.6 m3 & 6.5 T)	Slickwater	B528 Friction Reducer, Slickwater Frac – 53 kg - <0.02%
-2306.54 M TVDRT			

Injection Chart

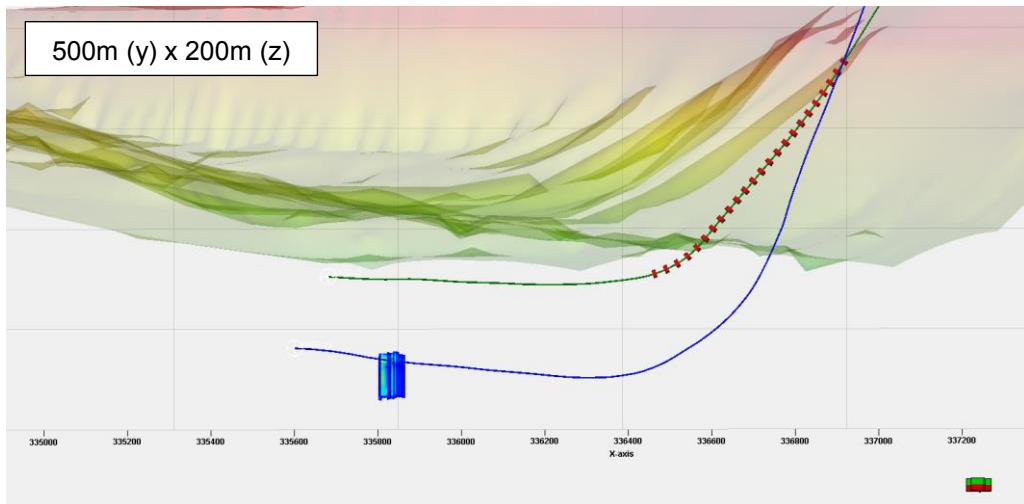


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Fracture Growth

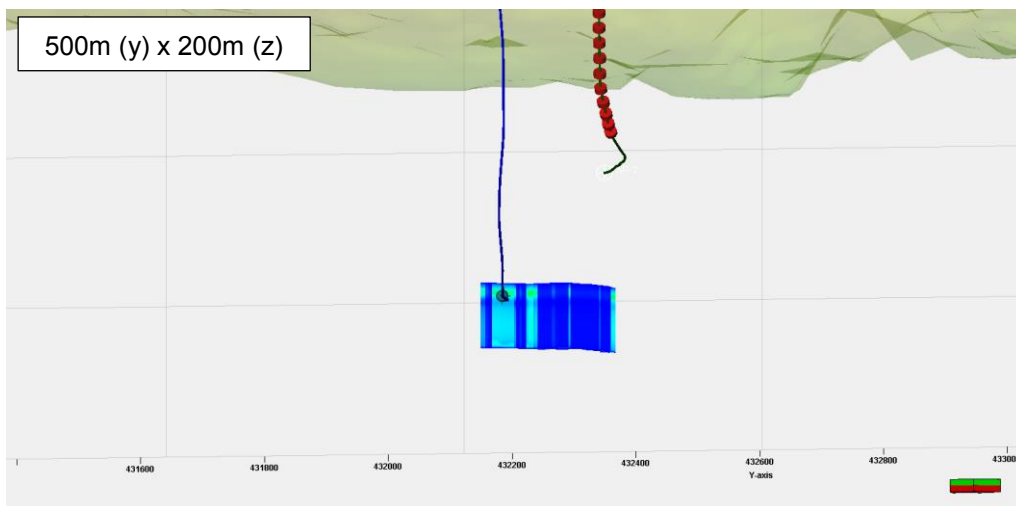


- Map View, scale north bar



- X-section due north

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- X-section due east
- Max hydraulic frac half length: 201.6 m
- Hydraulic frac height at well: 98.9 m

Well Integrity Status

- No change

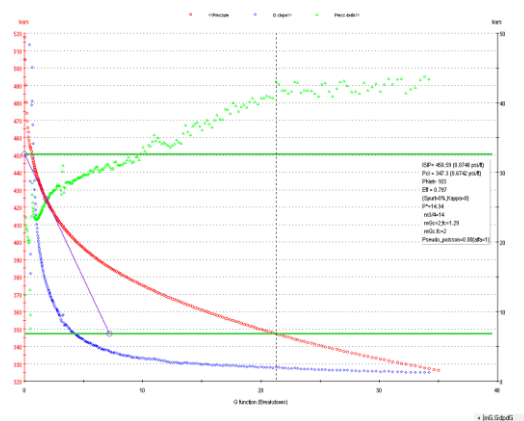
Induced Seismicity of Note

- 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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