

Morning Report PNR1z

Management System:	HSE	File Name:	069_PNR1z_15.12.18_RMR	
Approver:	Senior Geoscientist	Version No:	2	
Reviewer:	Frac Manager	Date of Issue:	16 th December 2018	
Author:	Senior Frac Engineer	Proposed date of Review:	n/a	
Version	Section	Revision Information	Date	Reviser
0.1	All	Draft Publication	16/12/2018	Senior Frac Engineer
<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>				

Summary

Overview of day's operations (midnight to midnight):

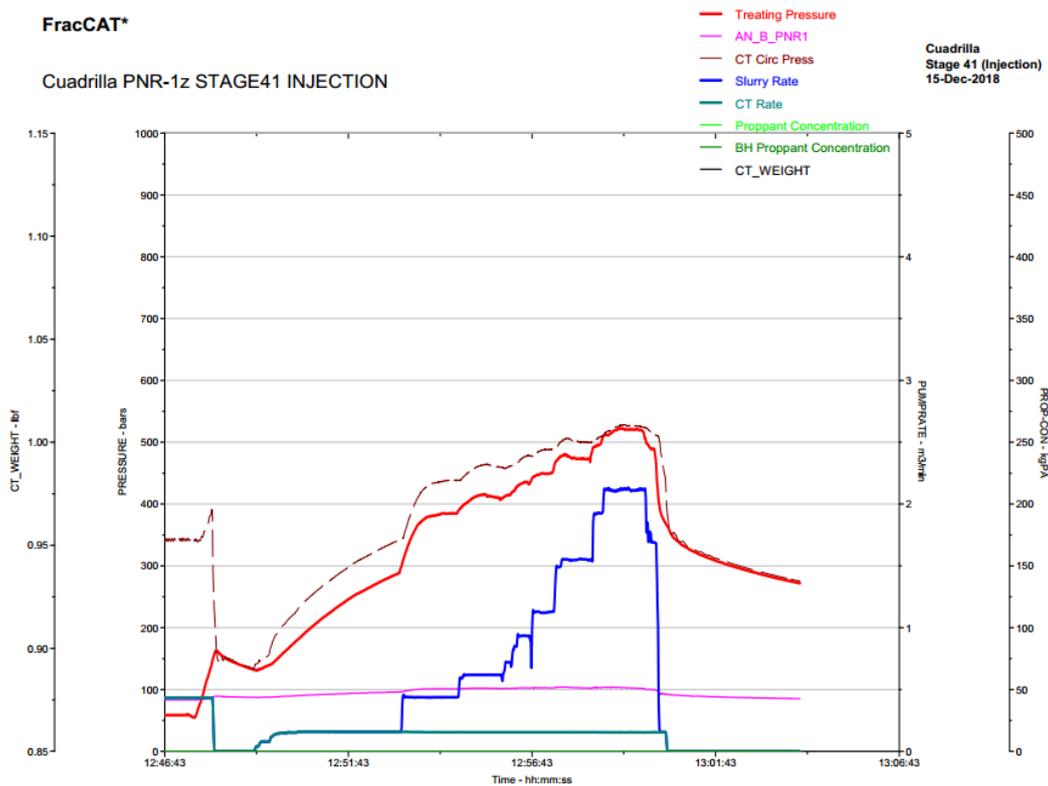
- Opened sleeve 41. Injection test and shut in well to watch minifrac pressure decline.
- No immediate post-frac flowback performed
- Induced seismicity: none
- No red line boundary breached

Injection Summary

Stage 41

Injection Depth m (RT)	Volume (fluid m ³ , proppant tonne)	Fluid System	Additives (type, mass kg, %)
-2664.3 m MDRT	Slickwater (18.1 m³) 10% HCl (3.0 m³)	Slickwater HCl	B528 Friction Reducer, Slickwater – 4.0 kg – 0.01%
-2343.1 m TVDRT			

Injection Chart

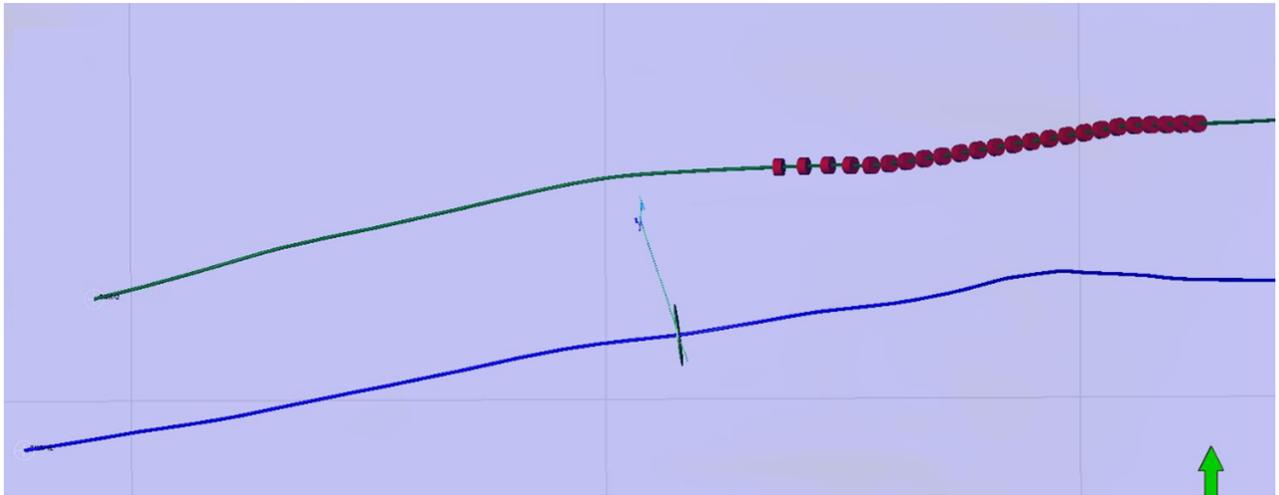


Pumping Time:

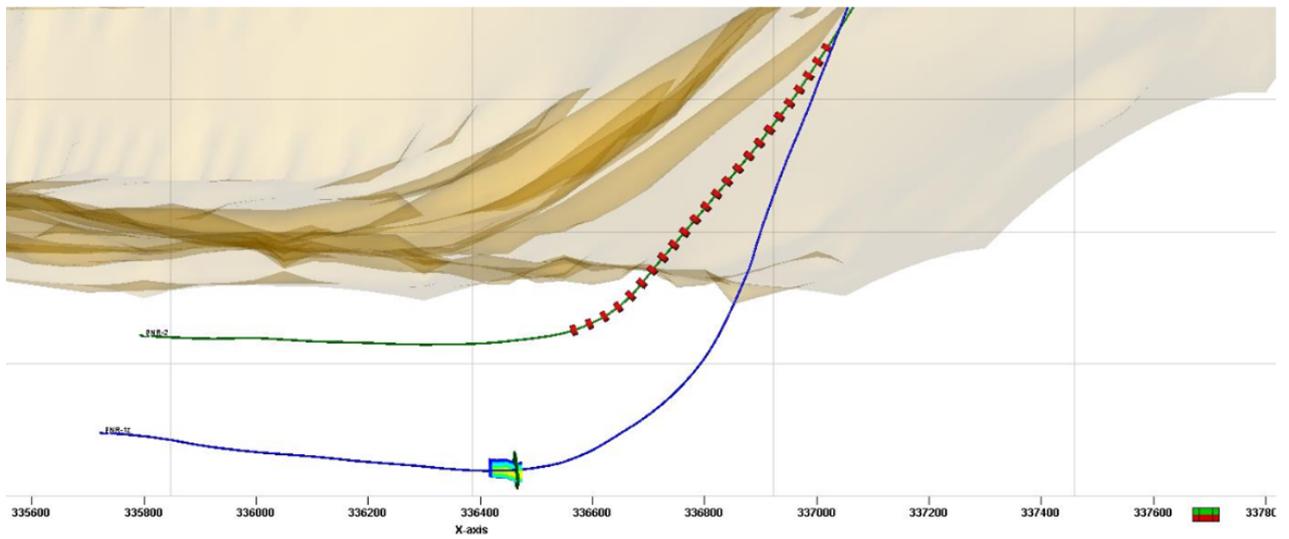
1) 15/12/2018 09:50:14 - 15/12/2018 13:00:00

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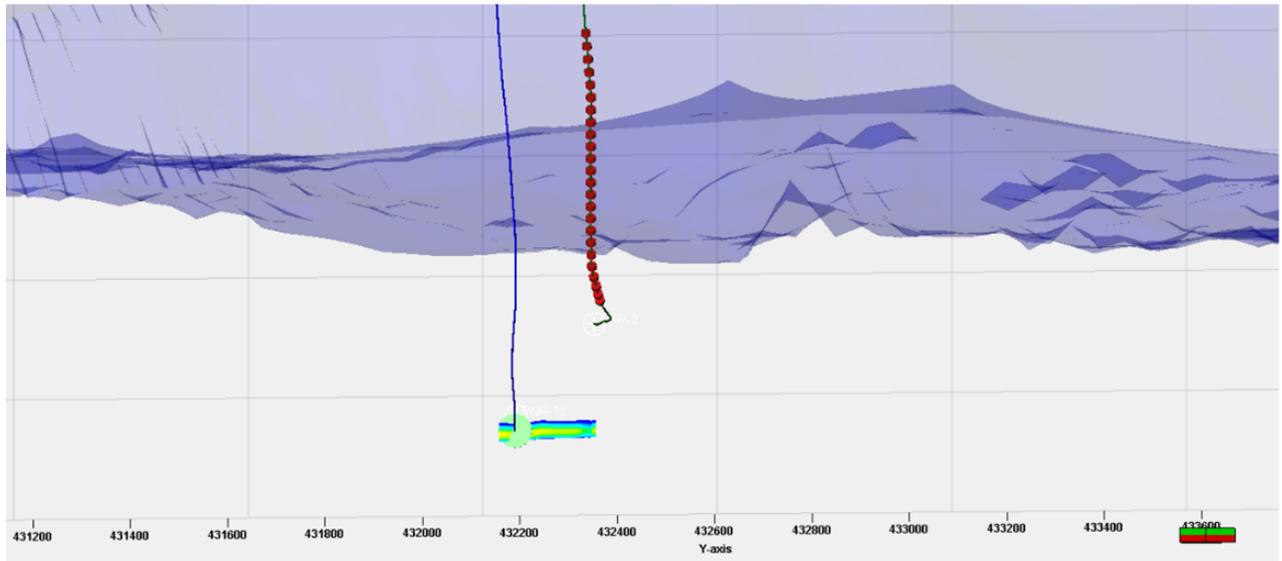
Fracture Growth



- Map View, scale north bar



- X-section due north



- X-section due east
- Max hydraulic frac half length: 97.2 m
- Hydraulic frac height at well: 37.0 m

Well Integrity Status

- No change

Seismicity of Note

- None

Update to Stress Magnitude

- No update to stress magnitude as closure was not observed
- $S_{Hmin} = 0.0148$ MPa/m