

Morning Report PNR1z

Management System:	HSE	File Name:	062_PNR1z_08.12.18_RMR	
Approver:	Senior Geoscientist	Version No:	2	
Reviewer:	Frac Manager	Date of Issue:	9 th December 2018	
Author:	Senior Frac Engineer	Proposed date of Review:	n/a	
Version	Section	Revision Information	Date	Reviser
0.1	All	Draft Publication	09/12/2018	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):

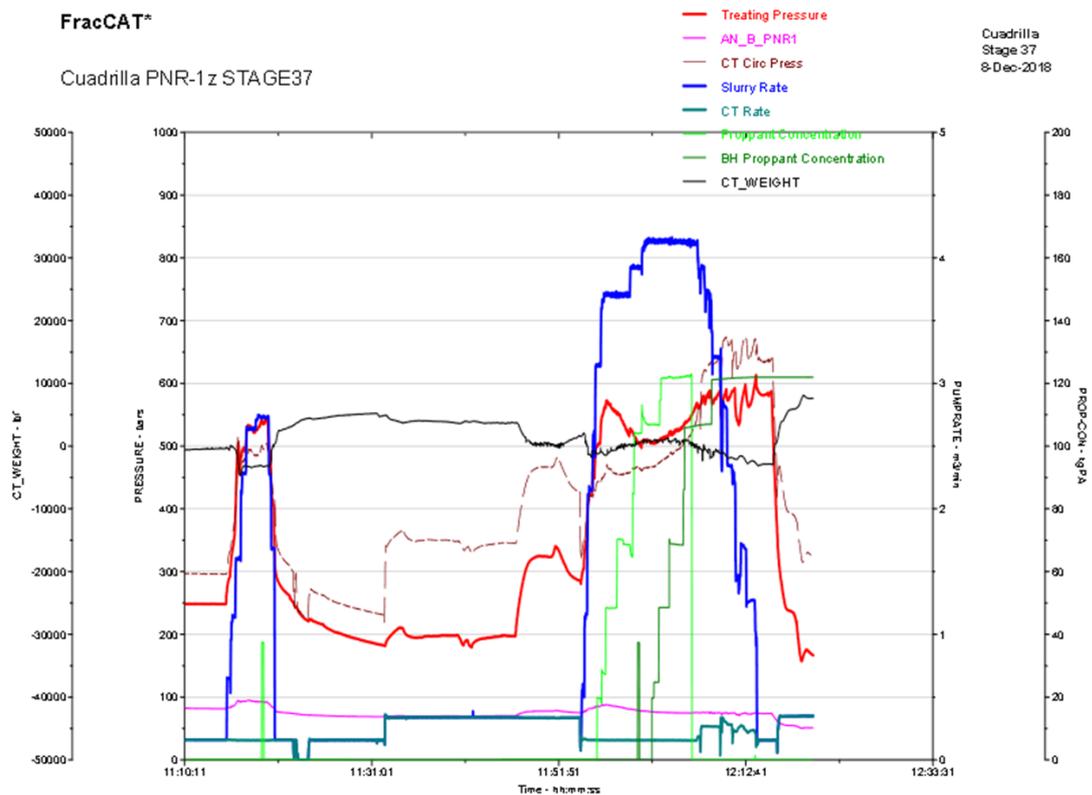
- Ran in well with coiled tubing and NCS frac tool. Opened sleeves 32 to 36. Opened and proppant fractured sleeve 37. Flowed back well.
- Immediate post-frac flowback performed
- Induced seismicity - none
- No red line boundary breached

Injection Summary

Stage 37

Injection Depth m (RT)	Volume (fluid m ³ , proppant tonne)	Fluid System	Additives (type, mass kg, %)
-2734.8 m MDRT	Slickwater (78.4 m ³ & 3.6 T) 10% HCl (1 m ³)	Slickwater HCl	B528 Friction Reducer, Slickwater – 18.3 kg – 0.02%
-2344.2 m TVDRT			

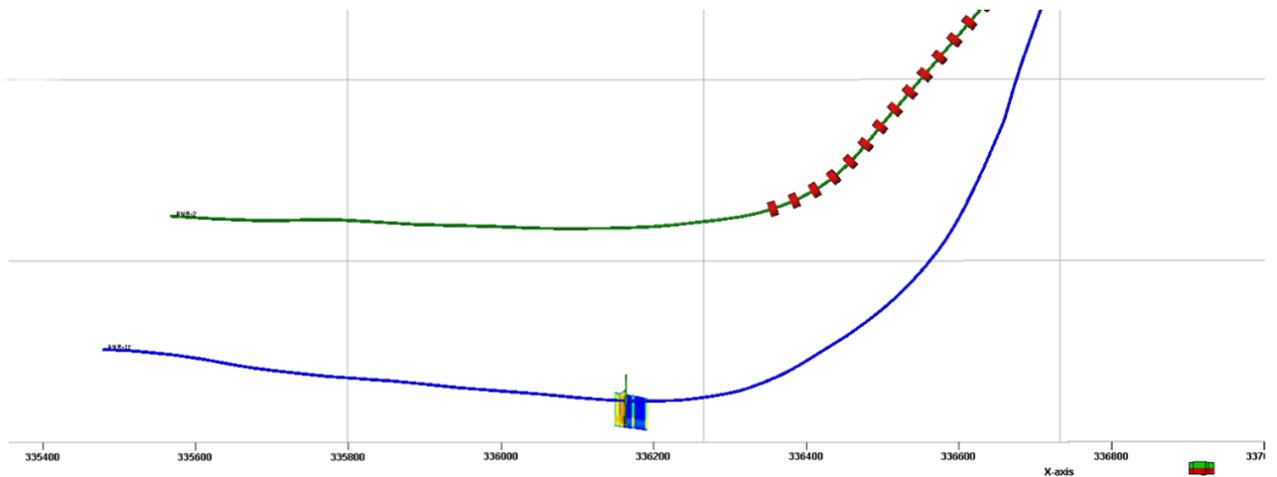
Injection Chart



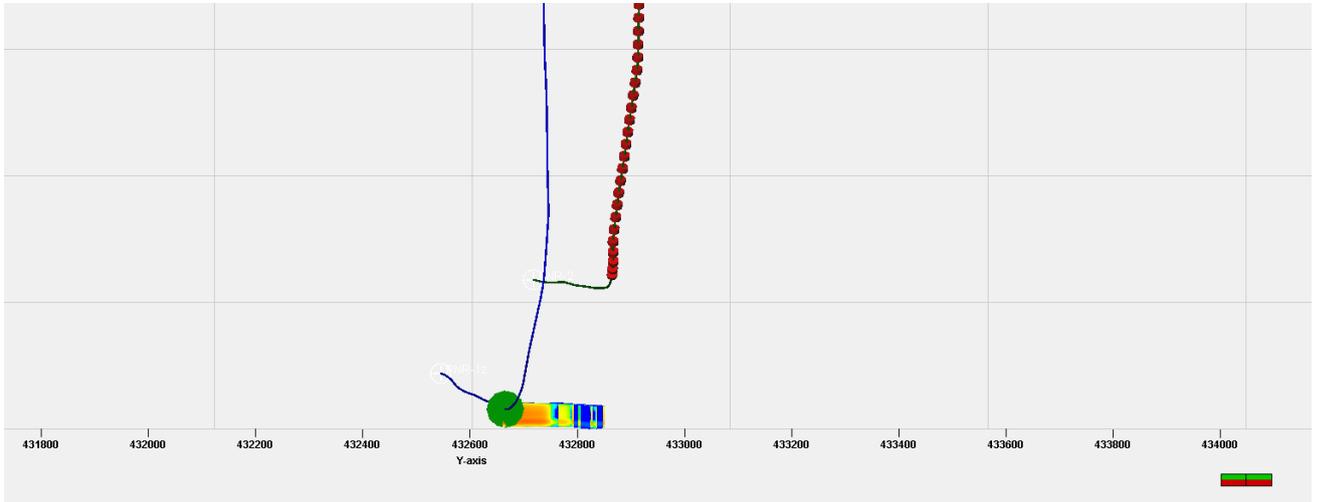
Fracture Growth



- Map View, scale north bar



- X-section due north



- X-section due east
- Max hydraulic frac half length: 92.7 m
- Hydraulic frac height at well: 47.0 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