

## Morning Report PNR1z

<b>Management System:</b>	HSE	<b>File Name:</b>	064_PNR1z_10.12.18_RMR	
<b>Approver:</b>	Senior Geoscientist	<b>Version No:</b>	1	
<b>Reviewer:</b>	Frac Manager	<b>Date of Issue:</b>	11 <sup>th</sup> December 2018	
<b>Author:</b>	Senior Frac Engineer	<b>Proposed date of Review:</b>	n/a	
Version	Section	Revision Information	Date	Reviser
0.1	All	Draft Publication	11/12/2018	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):

- Proppant fractured sleeve 37 a second time. Flowed back well.
- Immediate post-frac flowback performed
- Induced seismicity - none
- No red line boundary breached

## Injection Summary

### Stage 37 (Second proppant Frac)

Injection Depth m (RT)	Volume (fluid m <sup>3</sup> , proppant tonne)	Fluid System	Additives (type, mass kg, %)
-2734.8 m MDRT	<b>Slickwater (99.5 m<sup>3</sup> &amp; 2.8 T)</b> <b>10% HCl (1 m<sup>3</sup>)</b>	<b>Slickwater</b> <b>HCl</b>	<b>B528 Friction Reducer,</b> <b>Slickwater – 24.0 kg</b> <b>– 0.02%</b>
-2344.2 m TVDRT			

- Max hydraulic frac half length: 91.9 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