

**EP WELLS DAILY OPERATIONS REPORT**

Report 20

10/04/2017

Company PERMIAN  
 Well Type Development  
 Well UNIVERSITY 19 H 0908H  
 Wellbore UNIVERSITY 19 H 0908H  
 WBS No/API No 30266564 / 4230133234.00

**Event Summary**

Event Type	Completion only	Event Start Date	09/03/2017	Days on Location	20.00
Objective	Install Completion	Original Spud Date	05/08/2017		
Est. Days	31.00	Contractor	PERMIAN WELL SVC		
Work Unit	PERMIAN COMPLETIONS	Days To Release			
		Rig Phone/FAX No.			

**Well Status**

Supervisor	T GREGA	Measured Depth(ft)	
Engineer	Alex Villegas	TVD(ft)	
Other Supervisor	STEELE,MORGAN BRETT	24 Hr Progress(ft)	
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,792.80 / 2,766.80	Hole size(in)	
THF Datum			
Daily NPT(hr/%)	0/0	Last Casing MD	
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	
Actual cost to date/AFE	943,083/4,135,334.00	Current MW / BH EMW(ppg)	/
Actual divided by AFE	0.23	LOT/FIT EMW(ppg)	
Daily Cost	158,751	Lithology	
		Formation/MD Top	

**HSE Summary**

Last Incident	Date	Days	Last Incident	Date	Days	KPI's
LWC RWC MTC FAC Last casing pressure test			PSI NII HPI <b>GOAL ZERO DAYS</b> <b>PS BARRIER EVENT</b> PS barrier bowtie review			TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)
Safety Comments:						

**HSE Drills**

Drills/Tests	Date	Days Since Last	JSA's/Toolbox Talks Days Since Last Drill
Last Derrick Inspection Last BOP function test Last BOP Test Next BOP Test			19

**Operations Summary**

<b>24 Hour Summary</b>
PERF STG 11,12 FRAC STG 11
Update Since Report Time
<b>24 Hour Forecast</b>
CONTINUE FRAC OPERATIONS

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Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	5.42	FRAC	FWL			0		WAIT ON OTHER PAD OPERATIONS
5:25	0.30	FRAC	FWL			0		Handover from frac to WL.Pick up lubricator. Remove night cap. PU tools.Stab lubricator. Fill lubricator.PT lubricator to 8000psi.Open well with 4600psi.
5:43	0.90	FRAC	WLT			0		"Stage #11 Plug and Perf RIH with (4) 1' Keane guns: 2.75" OD HSC at 6SPF with 60* phased perforating guns and Downhole Technology Boss Hog composite ball-drop frac plug. Tie into liner top @11016". Pump down as follows: 3bpm @ 4400psi11380 6bpm @ 4700psi11600 10bpm @ 5400psi11730 10 bpm @ 5800 psi  10 bpm @ 5900psi  Set plug @ 13201ft Perforate as follows: 17296' - 17297' 17252' - 17253' 17208' - 17209 17164' - 17165' Stabilized pressure after perf: 5000psi Pump down volume: 107bbl"
6:37	11.38	FRAC	WLT			0		Wait @ 200ft for other pad operations.
18:00	0.33	FRAC	WLT			0		COME OFF WELL WITH WIRE LINE
18:20	2.30	FRAC	WLF			0		WAIT ON OTHER PAD OPERATIONS
20:38	1.97	FRAC	FRT			0		Stage 11 Summary University 19 H 0908H Interval 17164 - 17297 Open Well Pressure 3,897 psi Max Treating Pressure 9,468 psi Max Slurry Rate 60.9 bpm Average Treating Pressure 8,787 psi Average Slurry Rate 49.2 bpm Breakdown Pressure 7,817 psi Breakdown Rate 7.0 bpm Breakdown Volume 378 gal Avg HHP 10,596 hp Final ISIP 5,396 psi Frac Gradient 0.900 psi/ft Pad Volume 1,008 gal Main Body Volume 218,652 gal Flush Volume 27,720 gal 100 MAZ Sand Pumped 140,020 lbs 100 M Brown Sand Pumped 44,920 lbs 100 M Sand Pumped 235,200 lbs Proppant in Formation 420,140 lbs Avg Proppant Concentration 2.28 lb/gal Max Proppant Concentration 4.00 lb/gal Load to Recover 5,313 bbls Load to Recover w/o Acid 5,301 bbls 15% HCL Spearhead 504 gal Slickwater Fluid Pumped 5,114 bbls 20# Linear Fluid Pumped 80 bbls 20# Crosslink Fluid Pumped 0 bbls Pump down volume 107 bbls pump down rate 10.0 bpm Max pump down pressure 5,800 psi Fluid Temp 72.0 ?F Total Pump Time 1:58 hr:min Pumps Lost During Job 0 Treatment Start Time 20:38 0:00 0:00 Treatment End Time 22:36 0:00 1:58

