

## EP WELLS DAILY OPERATIONS REPORT

Report 14

11/26/2017

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 19 D 0904H
Wellbore	UNIVERSITY 19 D 0904H
WBS No/API No	30266560 / 4230133226.00

## Event Summary

Event Type	Completion only	Event Start Date	10/31/2017	Days on Location	14.00
Objective	Install Completion	Original Spud Date	06/19/2017		
Est. Days	65.00	Contractor	PERMIAN WELL SVC		
Work Unit	PERMIAN COMPLETIONS	Days To Release			
		Rig Phone/FAX No.			

## Well Status

Supervisor	Andrew Veroba	Measured Depth(ft)	
Engineer	Bobby Ramos	TVD(ft)	
Other Supervisor	M. Hank Persaud	24 Hr Progress(ft)	
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,799.10 / 2,771.10	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	296,002/3,746,244.00	Current MW / BH EMW(ppg)	/
Actual divided by AFE	0.08	LOT/FIT EMW(ppg)	
Daily Cost	23,924	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> <b>PS barrier bowtie review</b>			TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	
Safety Comments:							

## HSE Drills

Drills/Tests	Date	Days Since Last		
Last Derrick Inspection Last BOP function test Last BOP Test Next BOP Test			JSA's/Toolbox Talks Days Since Last Drill	13

## Operations Summary

24 Hour Summary
Update Since Report Time
24 Hour Forecast

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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		WOCO
5:25	0.33	FRAC	FWL			0		Pick up lubricator. Remove night cap. PU guns/plug. Stab lubricator. Fill lubricator. PT lubricator to 8kpsi. Open well with 4630 psi. RIH to 200'. Conduct switch checks.
5:45	2.50	FRAC	WLT			0		Stage 4 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 @ 10990'. Pump down as follows: 3bpm @ 4500 psi, 11,600' 6bpm @ 5300 psi, 11,700' 9bpm @ 5400 psi, 11,820'  Set plug @ 17,921ft Perforate as follows: 17,896' – 17,897' 17,851' – 17,852' 17,806' – 17,807' 17,761' – 17,762' Stabilized pressure after perf: 4645psi Pump down volume: 130 bbl POOH to 1000'. Conduct Pause. Pull to 200' and wait on frac.
8:15	0.28	FRAC	WLF			0		Bump up and SIW @ 4400 psi. Bled off pressure and break lubricator/BOP's. Drop ball on closed UMW. Lowered Perf guns out of lubricator and confirmed all shots fired. N/U nightcap and close crown valve. L/D perf guns and setting tool. Greased crown valve. HO to Frac.
8:32	3.80	FRAC	WLF			0		Wait on concurrent operations.
12:20	2.17	FRAC	FRT			0		Stage 4 Summary University 19 D 0904H Interval 17761 - 17897 Open Well Pressure 4,283 psi Max Treating Pressure 9,327 psi Max Slurry Rate 58.6 bpm Average Treating Pressure 8,917 psi Average Slurry Rate 51.0 bpm Breakdown Pressure 6,221 psi Breakdown Rate 10.0 bpm Breakdown Volume 168 gal Avg HHP 11,146 hp Final ISIP 5,513 psi Frac Gradient 0.907 psi/ft Pad Volume 21,882 gal Main Body Volume 225,918 gal Flush Volume 27,930 gal 100 MAZ Sand Pumped 0 lbs 100 M Brown Sand Pumped 378,000 lbs 100 M Sand Pumped 44,000 lbs Proppant in Formation 422,000 lbs Avg Proppant Concentration 2.49 lb/gal Max Proppant Concentration 3.50 lb/gal Load to Recover (incl. pumpdown) 5,501 bbls Load to Recover w/o Acid 5,489 bbls 15% HCL Spearhead 504 gal Slickwater Fluid Pumped 5,287 bbls 20# Linear Fluid Pumped 80 bbls 20# Crosslink Fluid Pumped 0 bbls Pump down volume 122 bbls pump down rate 9.0 bpm Max pump down pressure 5,400 psi Fluid Temp 72.0 ?F Total Pump Time 2:08 hr:min Pumps Lost During Job 0 Treatment Start Time 12:20 0:00 0:00

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## Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								Treatment End Time 14:28 0:00 0:00 Diverter Slurry bbls - Proppant was pumped with a ramp of 0.50 - 2.50 PPA, then 0.5 PPA steps from 2.5-3.5 PPA. - Ran 500 gal of 15% HCl - Ran 2 - 40 bbl shots of gel followed by a 20 bbl spacer.  Time for Prop on Perfs 39.0 minutes Time between Stages (TBF) 0:55 Hours/min
14:30	0.30	FRAC	FWL			0		SIW and wait on concurrent operations.
14:48	0.27	FRAC	FWL			0		Pick up lubricator. Remove night cap. PU guns/plug. Stab lubricator. Fill lubricator. PT lubricator to 8kpsi. Open well with 4750 psi. RIH to 200'. Conduct switch checks.
15:04	2.30	FRAC	WLT			0		Stage 5 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-in-place frac plug. Tie into liner top @ 10990'. Bring on pumps at 11,580'. Pump down as follows: 3bpm @ 4530 psi 6bpm @ 5000 psi 9bpm @ 5500 psi  Set plug @ 17,741ft Perforate as follows: 17,716' – 17,717' 17,671' – 17,672' 17,624' – 17,625' 17,583' – 17,584' Stabilized pressure after perf: 5042psi Pump down volume: 110 bbl POOH to 1000'. Conduct Pause. Pull to 200' and wait on frac.
17:22	0.18	FRAC	WLF			0		Bump up and SIW @ 4750 psi. Bled off pressure and break lubricator/BOP's. Lowered Perf guns out of lubricator and confirmed all shots fired. N/U nightcap and close crown valve. L/D perf guns and setting tool. Greased UMW/LMV.
17:33		FRAC	WLF			0		Wait on concurrent operations.
<b>Total</b>	<b>17.55</b>							