

EP WELLS DAILY OPERATIONS REPORT

Report 21

10/05/2017

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	21.00
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/%)	1.33/5.56	Last Casing MD	
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	
Actual cost to date/AFE	1,032,077/4,135,334.00	Current MW / BH EMW(ppg)	/
Actual divided by AFE	0.25	LOT/FIT EMW(ppg)	
Daily Cost	88,994	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 GOAL ZERO DAYS PS BARRIER EVENT 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		
Last Derrick Inspection Last BOP function test Last BOP Test Next BOP Test			JSA's/Toolbox Talks Days Since Last Drill	20

Operations Summary

24 Hour Summary
FRAC STG 12 PERF STG 13
Update Since Report Time
24 Hour Forecast
CONTINUE FRAC OPERATIONS

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Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	1.50	FRAC	WLT			0		2354 "Stage #12 Plug and Perf 2358 POOH
1:30	0.25	FRAC	WLF			0		130 Shut in well with 4500psi. Bleed off. 138 Break lubricator. All shots fired. Drop ball. MU night cap. LD tools and lub. Secure crown and wing valves. 145 Handover from WL to frac.
1:45	6.17	FRAC	WLF			0		WAIT ON OTHER PAD OPERATIONS
7:55	0.75	FRAC	FRT			0		Begin frac Stage 12
8:40	1.33	FRAC	FRT			1		****START NPT KEAN FRAC**** Mechanical issues with augers #1 & #3 on Blender 10775 caused us to shut down. Repairs were made to auger #3 and operations resumed. ****END OF NPT TIME****
10:00	1.45	FRAC	FRT			0		II, Stage 12 Summary University 19 H 0908H Interval 16988 - 17121 Open Well Pressure 5,023 psi Max Treating Pressure 9,226 psi Max Slurry Rate 62.1 bpm Average Treating Pressure 8,366 psi Average Slurry Rate 52.3 bpm Breakdown Pressure 6,785 psi Breakdown Rate 8.4 bpm Breakdown Volume 42 gal Avg HHP 10,724 hp Final ISIP 5,201 psi Frac Gradient 0.883 psi/ft Pad Volume 10,164 gal Main Body Volume 226,044 gal Flush Volume 51,996 gal 100 M AZ Sand Pumped 143,600 lbs 100 M Brown Sand Pumped 95,140 lbs 100 M Sand Pumped 184,460 lbs Proppant in Formation 423,200 lbs Avg Proppant Concentration 2.69 lb/gal Max Proppant Concentration 4.00 lb/gal Load to Recover 5,493 bbls Load to Recover w/o Acid 5,481 bbls 15% HCL Spearhead 504 gal Slickwater Fluid Pumped 5,290 bbls 20# Linear Fluid Pumped 80 bbls 20# Crosslink Fluid Pumped 0 bbls Pump down volume 111 bbls pump down rate 10.0 bpm Max pump down pressure 6,272 psi Fluid Temp 72.0 ?F Total Pump Time 2:09 hr:min Pumps Lost During Job 0 Treatment Start Time 7:55 10:03 0:00 Treatment End Time 8:40 11:27 2:09 Diverter Slurry bbls -Pumped sand in a 0.50 PPA -2.00 PPA ramp, 2.00 PPA hold, 2.50, 3.00, 3.50 and 4.00 PPA steps. -Two 20# gel sweeps 40 bbls each were pumped prior to flush. - Pumped one 500 gal shot of acid. - Ran a ball in place plug. - Mechanical issues with augers #1 & #3 on Blender 10775 caused us to shut down. Repairs were made to auger #3 and operations resumed.
11:27	10.47	FRAC	FWL			0		Shut in well . R3place upper master on 1407
21:55	1.02	FRAC	FWL			0		2155 Handover from frac to WL. 2159 Pick up lubricator. Remove night cap. PU tools. 2202 Stab lubricator. Fill lubricator.

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Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								2218 PT lubricator to 8000psi 2255 Open well with 4300psi.
22:56	1.07	FRAC	FWL			0		2348 "Stage #13 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 @ 4800psi11400 6bpm @ 4500psi11460 9bpm @ 5000psi11525 10bpm @ 5900psi14600 bpm @ psi 10bpm @ 6210psi Set plug @ 16968ft Perforate as follows: 16944' - 16945' 16900' - 16901' 16855.5' - 16856.5' 16812' - 16813' Stabilized pressure after perf: 5200psi Pump down volume: 115bbl" 2357 POOH
Total	24.00							

06.00 Update

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Description
0:00	1.38	FRAC	WLF			0	113 Shut in well with 4300psi. Bleed off. 118 Break lubricator. All shots fired. Drop ball. MU night cap. LD tools and lub. Secure crown and wing valves. 123 Handover from WL to frac.

NPT Summary

Start Date/Time	Responsible Company	NPT Code	Failure MD (ft)	Ops Code	Type*	Equipment Type	Net time (hr)	Gross time (hr)	Severity	Status
10/05/2017 08:40	KEANE FRAC LP	Stimulation		FRT	EN	Frac Blender	1.33	1.33	1	OPEN
Description: Mechanical issues with augers #1 & #3 on Blender 10775 caused us to shut down. Repairs were made to auger #3 and operations resumed.						Title: FRAC EQUIP REPAIR				
Total							1.33	1.33		