

EP WELLS DAILY OPERATIONS REPORT

Report 12

05/30/2017

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 19 PW UNIT 1504H
Wellbore	UNIVERSITY 19 PW UNIT 1504H ST01
WBS No/API No	30265014 / 4230133171.01

Event Summary

Event Type	Completion only	Event Start Date	04/28/2017	Days on Location	11.00
Objective	Install Completion	Original Spud Date	02/02/2017		
Est. Days	25.00	Contractor	PERMIAN WELL SVC		
Work Unit	PERMIAN COMPLETIONS	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	Nick Morrison / Scott Wallace	Measured Depth(ft)	
Engineer	Justin Midgley	TVD(ft)	
Other Supervisor	Tommy Hurdle	24 Hr Progress(ft)	
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,761.75 / 2,736.10	Hole size(in)	
THF Datum			
Daily NPT(hr/%)	5.08/21.11	Last Casing MD	
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	
Actual cost to date/AFE	379,091/4,757,442.00	Current MW / BH EMW(ppg)	/
Actual divided by AFE	0.08	LOT/FIT EMW(ppg)	
Daily Cost	88,264	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:	Conduct safety stand down during weather delay on Keane safety alert on valve team communication during change of scope job activity.						

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	10

Operations Summary

24 Hour Summary
Frac Stg 2. Perf Stg 3
Update Since Report Time
24 Hour Forecast
Continue Frac Ops

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Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	5.25	FRAC	WLF			0		Other Well ops
5:20	2.63	FRAC	FRT			0		Stage 2 Summary University 19 PW Unit 1504H Interval 20172 - 20306 Open Well Pressure 3,955 psi Max Treating Pressure 9,197 psi Max Slurry Rate 52.8 bpm Average Treating Pressure 8,730 psi Average Slurry Rate 44.3 bpm Breakdown Pressure 6,111 psi Breakdown Rate 10.0 bpm Breakdown Volume 19,866 gal Avg HHP 9,479 hp Final ISIP 5,418 psi Frac Gradient 0.902 psi/ft Pad Volume 27,090 gal Main Body Volume 224,994 gal Flush Volume 28,644 gal 30/50 AZ Sand Pumped 0 lbs 100 Mesh Sand Pumped 415,120 lbs Proppant in Formation 415,120 lbs Avg Proppant Concentration 2.50 lb/gal Max Proppant Concentration 4.00 lb/gal Load to Recover 5,357 bbls Load to Recover w/o Acid 5,345 bbls 15% HCL Spearhead 504 gal Slickwater Fluid Pumped 5,093 bbls 20# Linear Fluid Pumped 40 bbls 20# Crosslink Fluid Pumped 0 bbls Pump down volume 212 bbls pump down rate 12.4 bpm Max pump down pressure 6,120 psi Fluid Temp 72.0 ?F Total Pump Time 2:38 hr:min Pumps Lost During Job 1 Treatment Start Time 5:20 0:00 0:00 Treatment End Time 7:58 0:00 0:00 Diverter Slurry bbls All proppant placed.
7:58	1.12	FRAC	WLT			0		Pick up lubricator. Remove night cap. PU guns/plug. Stab lubricator. Fill lubricator. PT lubricator to 8000 psi. Open well with 4500psi.
9:05	2.08	FRAC	WLT			0		"Stage #3 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 frac plug. Tie into liner top @. Bring on pumps at 11000'. Pump down as follows: 3bpm @ 4700psi @11000 6bpm @ 5100psi @11200 9bpm @ 6000psi @11500 12bpm w/ 6300psi @11850 12.5bpm w/ 6341psi @ Set plug @ 20132ft Perforate as follows: 20120' - 20121' 20075' - 20076' 20031' - 20032' 19986' - 19987' Stabilized pressure after perf: 4614psi Pump down volume: 275bbl" 10:17 11:10 POOH
11:10	0.95	FRAC	OPO			0		Wait on frac at 200'
12:07	0.22	FRAC	WLF			0		12:07 12:17 Shut in well with psi. Bleed off. 12:17 12:20 "Break lubricator. All shots fired. Drop ball. MU night

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Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								cap. LD tools and lub. Secure crown and wing valves.
								Handover from WL to frac. "
12:20	1.83	FRAC	OPO			0		Wait on other pad operations
14:10	2.83	FRAC	OPO			1		****Start NPT (Wait on weather) Shell*** Lighting in area went to flush wait on weather to clear
17:00	1.50	FRAC	OPO			0		***End NPT*** Wait on other pad operations
18:30	2.42	FRAC	FWL			0		Other Pad Ops. 1830: Held pre-tower safety meeting
20:45	1.00	FRAC	FWL			0		Wait on other pad operations. Grease Crown and Hydraulic valves. Re-head WL and spot WL truck in a different angle. Changed chicksan on the pumpdown side. Held pre-tower safety meeting.
21:45	2.25	FRAC	NOA			1		****NPT Extreme and Pro Torque and Test*** Attempted to pressure test for WL run on the 1503H. Leak was discovered on a chicksan. Replaced chicksan, isolated pumpdown and tested iron. Test good. Lined up to test WL lubricator and iron and had failed test. After troubleshooting discovered that a plug valve on the manifold was leaking. Replaced valve and attempted to test but unsuccessful. Removed the Pro test pump inline. Tested pro rion with pumpdown side got a good test. Isolated test pump and tested pump. Pumps check valve wasn't holding. Replaced parts and retested. Test good.
Total	24.08							

06.00 Update

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Description
0:00	1.25	FRAC	NOA			1	****NPT Extreme and Pro Torque and Test*** Attempted to pressure test for WL run on the 1503H. Leak was discovered on a chicksan. Replaced chicksan, isolated pumpdown and tested iron. Test good. Lined up to test WL lubricator and iron and had failed test. After troubleshooting discovered that a plug valve on the manifold was leaking. Replaced valve and attempted to test but unsuccessful. Removed the Pro test pump inline. Tested pro rion with pumpdown side got a good test. Isolated test pump and tested pump. Pumps check valve wasn't holding. Replaced parts and retested. Test good.
1:15	0.25	FRAC	OPO			0	Other Pad Ops
1:30		FRAC	FRT			0	

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
05/30/2017 14:10	SHELL	Wait On Weather		OPO	N		2.83	2.83	1	OPEN
Description: Lightening storm in area.						Title: WOW				
05/30/2017 21:45	EXTREME WELL TESTING LLC	Other		NOA	EN	High Pressure Temporary Pipework	2.25	2.25		OPEN
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Total							5.08	5.08		