

**EP WELLS DAILY OPERATIONS REPORT**

Report 59

09/12/2017

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	58.00
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	MORGAN / BRET OLDENCAMP	Measured Depth(ft)	
Engineer	Bobby Ramos	TVD(ft)	
Other Supervisor	MIKE REBER	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/%)	6.75/28.13	Last Casing MD	
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	
Actual cost to date/AFE	5,522,814/4,757,442.00	Current MW / BH EMW(ppg)	/
Actual divided by AFE	1.16	LOT/FIT EMW(ppg)	
Daily Cost	79,959	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:						
386 man hours 44 driving hours						

**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			57

**Operations Summary**

24 Hour Summary
Drill plugs #10 to #22, CT pump down, NPT 6.75 hrs, drill plugs #23 to #41, current depth at report time 19,154
Update Since Report Time
24 Hour Forecast

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Well UNIVERSITY 19 PW UNIT 1504H  
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Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	5.25	COIL	MIL			0		<p>00:12 Tag plug #10 at 13,523' / 2 min / 3.0 in 3.0 out / 7,000 CP / 3,300 WH</p> <p>00:25 Tag plug #11 at 13,744' / 3 min / 3.0 in 3.0 out / 6,800 CP / 3,200 WH / RIH weight 15K</p> <p>00:37 Tag plug #12 at 13,880' / 4 min / 3.0 in 2.9 out / 6,700 CP / 3,200 WH</p> <p>Pump 5 bbl gel sweep / pump 5 bbl sweep of POP / start dribble POP in at .25 gal/10 bbls</p> <p>00:59 Tag plug #13 at 14,059' / 2 min / 3.0 in 3.0 out / 6,900 CP / 3,100 WH</p> <p>Wiper (200') / Weight check (PU 43.4K)</p> <p>01:10 POOH from 14,092' for 200' wiper and weight check, chase 5 bbl 100 cp gel sweep, PU weight 43.4K (2,000 psi hydraulic / 21.7 # / psi factor), weight consistent, no drag / 3.0 in 3.0 out / 6,700 CP / 3,200 WH / RIH weight before wiper was 16K</p> <p>01:18 RIH from 13,892' / 3.0 in 3.0 out / 6,700 CP / 3,200 WH / RIH weight 14K / FR .22 gal / 10 bbl, dribble in POP at .25 gal / 10 bbls, RIH to plug #14</p> <p>01:35 Tag plug #14 at 14,239' / 2 min / 3.0 in 2.9 out / 7,100 CP / 3,200 WH</p> <p>02:01 Tag plug #15 at 14,420' / 3 min / 3.0 in 3.0 out / 6,700 CP / 3,100 WH</p> <p>02:18 Tag plug #16 at 14,597' / 1 min / 3.0 in 3.0 out / 6,700 CP / 3,200 WH / RIH weight 13K</p> <p>Start sendng 5 bbls POP mixed at 2 gal / 10 bbls every 30 min</p> <p>02:33 Tag plug #17 at 14,772' / 2 min / 3.0 in 3.0 out / 6,700 CP / 3,200 WH</p> <p>02:52 Tag plug #18 at 14,952' / 1 min / 3.0 in 3.0 out / 6,700 CP / 3,200 WH</p> <p>03:05 Plug #19 is no show at 15,131' / 3.0 in 3.1 out / 6,700 CP / 3,200 WH / RIH weight 14K</p> <p>03:21 Tag plug #20 at 15,303' / 1 min / 3.0 in 3.1 out / 6,700 CP / 3,000 WH</p> <p>Pump 5 bbls gel 100 cp to sweep 7"</p> <p>03:43 Tag plug #21 at 15,481' / 2 min / 3.0 in 3.1 out / 7,000 CP / 3,000 WH</p> <p>03:56 Tag plug #22 at 15,657' / 2 min / 3.0 in 3.1 out / 7,300 CP / 3,000 WH / RIH 12K</p> <p>Plunger starting go out on passenger side pump / start slow 200' wiper and weight check / prep to POOH to vertical as required / open LOTO, kill engine, remove key and lock out / JSA is revised / PAUSE with crew / isolate pump / bleed / bring other driver side pump online / replace packing / bring rate down and change back over to passenger side pump / pump still leaking / maybe small crack in fluid end / continue with wiper trip and weight check</p> <p>Wiper (200') / Weight check (PU 56K) while work on pump</p> <p>04:18 POOH from 15,724' for 200' wiper and weight check while work on pump, chase 5 bbl 100 cp gel sweep, PU weight 56K (2,600 psi hydraulic / 21.7 # / psi factor) / 3.0 in 3.0 out / 7,000 CP / 3,000 WH</p> <p>04:27 RIH from 15,473', stop after fluid end crack is confirmed and primary pump cannot be fixed and backup pump needed / start 10 bbl 100 cp gel pill / 3.0 in 3.1 out / 7,000 CP / 3,000 WH / stop POP dribble at .25 gal and POP sweeps every 30 min</p>
5:15	0.75	COIL	MIL			1		<p>***NPT STARTS CTP CRACKED FLUID END WAIT ON REPLACEMENT****</p> <p>05:16 15,795' / POOH chasing 10 bbl gel sweep, will park in vertical, maintain rate until sweep to surface / PU 60.8K (2,800 psi hydraulic), 7,000 CP / 3,000 WH / 3.0 in 3.0 out / will update ETA on backup pump when confirmed / pump is in yard and is available.</p>

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Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								05:55 14,522' current depth, 3.0 in 3.1 out / 6,800 CP / 3,100 WH / PU 48K  ***NPT CONTINUES CTP CRACKED FLUID END WAIT ON REPLACEMENT****
6:00	6.00	COIL	MIL			1		***NPT COIL TUBING PARTNERS PULLED UP TO 10,600' 08:40 NEW PUMP SHOWED UP SAFETY PAUSE RIG UP NEW PUMP PRESSRURE TEST LINES RUN COIL BACK IN HOLE ***END NPT CTP
12:00	6.00	COIL	MIL			0		12:00 TAG PLUG #24 @ 15,999' / 4 MIN / 3.0 IN 2.9 OUT / 6,600 CP / 3,700 WH TAG PLUG #25 @ 16,176' / 3 MIN / 3.0 IN 3 OUT / 6,600 CP / 3,700 WH TAG PLUG #26 @ 16,345 / 4 MIN / 3.0 IN 2.9 OUT / 6,600 CP / 3,700 WH TAG PLUG #27 @ 16,526' / 4 MIN / 3.0 IN 2.9 OUT / 6,700 CP / 3,700 WH 13:46 TAG PLUG #28 @ 16,707' / 3 MIN / 3.0 IN 3 OUT / 6,700 CP / 3,700 WH 14:14 TAG PLUG #29 @ 16,882 / 2 MIN / 3.0 IN 2.9 OUT / 6,600 CP / 3,500 WH TAG PLUG #30 @ 17,067 / 3 MIN / 3.0 IN 2.9 OUT / 6,700 CP / 3,400 WH TAG PLUG #31 @ 17,238 / 2 MIN / 3.0 IN 2.9 OUT / 6,700 CP / 3,500 WH TAG PLUG #32 @ 17,467 / 2 MIN / 3.0 IN 2.9 OUT / 6,800 CP / 3,600 WH TAG PLUG #33 @ 17599 / 2 MIN / 3.0 IN 2.9 OUT / 6,900 CP / 3,500 WH TAG PLUG #34 @ 17,774 / 3 MIN / 3.0 IN 3 OUT / 6,900 CP / 3,500 WH TAG PLUG #35 @ 17,951 / 4 MIN / 3.0 IN 3 OUT / 6,700 CP / 3,400 WH
18:00	6.00	COIL	MIL			0		18:24 Tag plug #36 at 18,132' / 2 min / 3.0 in 3.0 out / 6,700 CP / 3,100 WH FR at .18 gal / 10 bbl / POP at .25 gal / 10 bbl / 5 bbl POP sweep every 30 min 18:59 Tag plug #37 at 18,306' / 4 min / 3.0 in 3.0 out / 6,700 CP / 3,100 WH 19:43 Tag plug #38 at 18,486' / 3 min / 3.0 in 3.0 out / 6,500 CP / 3,100 WH 20:24 Tag plug #39 at 18,662' / 4 min / 3.0 in 2.9 out / 6,900 CP / 3,100 WH Check string weight at 18,751', PU 58K (2,650 hyd psi) / PU 30' / String clear Start alternating 5 bbl sweep POP, then 5 bbl sweep Beka, every 30 min 21:28 Tag plug #40 at 18,838' / 4 min / 3.0 in 3.0 out / 6,400 CP / 3,200 WH Sand has been minimal on this well, last night, today, and this evening 22:35 Tag plug #41 at 19,016' / 6 min / 3.0 in 3.1 out / 6,600 CP / 3,200 WH  NOTE: RIH speed has steadily reduced from 4.3 ft/min to 1.7 ft/min to 1.3 ft/min Change to beads at .25 gal / 10 bbls and pump 5 bbl Beka sweep every 30 min  NOTE: TTS confirmed that this XRV agitator has max rate of 3.0 bpm

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Report 59

09/12/2017

Well UNIVERSITY 19 PW UNIT 1504H  
 Wellbore UNIVERSITY 19 PW UNIT 1504H ST01

**Time Summary**

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								23:55 19,154' current depth / 3.0 in 3.1 out / 6,498 CP / 3,220 WH / RIH weight 24K, continue RIH to plug #42 at report time.
<b>Total</b>	<b>24.00</b>							

**06.00 Update**

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Description
0:00		COIL	MIL			0	00:31 Tag plug #42 at 19,193' / 5 min / 3.0 in 3.0 out / 6,600 CP / 3,200 WH 01:49 Bring beads to .5 gal / 10 bbls, pump Beka sweep every 20 min / 5 bbls (2 gal / 10) 01:52 Current rate 105 ft / hour 02:26 Tag plug #43 at 19,372' / 4 min / 3.0 in 3.0 out / 6,700 CP / 3,100 WH  19:43 Tag plug #38 at 18,486' / 3 min / 3.0 in 3.0 out / 6,500 CP / 3,100 WH 20:24 Tag plug #39 at 18,662' / 4 min / 3.0 in 2.9 out / 6,900 CP / 3,100 WH

**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	
09/12/2017 05:15	COIL TUBING PARTNERS LLC	Wait On Equipment		MIL	EN	Coil Tubing Surface Equipment	6.75	6.75		OPEN	
<b>Description:</b> CTP CRACKED FLUID END WAIT ON REPLACEMENT							<b>Title:</b> WOE				
							<b>Total</b>	<b>6.75</b>	<b>6.75</b>		