

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 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:							
386 man hours							
44 driving hours							

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	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
Wellbore UNIVERSITY 19 PW UNIT 1504H ST01

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 sending 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

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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.
Total	24.00							

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
Description: CTP CRACKED FLUID END WAIT ON REPLACEMENT						Title: WOE				
							Total	6.75	6.75	