

## EP WELLS DAILY OPERATIONS REPORT

Report 60

09/13/2017

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	59.00
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	David Stein	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/%)	0/0	Last Casing MD	
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	
Actual cost to date/AFE	5,598,057/4,757,442.00	Current MW / BH EMW(ppg)	/
Actual divided by AFE	1.18	LOT/FIT EMW(ppg)	
Daily Cost	75,244	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:							
345 man hours							
43 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	58

## Operations Summary

24 Hour Summary
Drill plugs #42 to #48, pump 10/10/10 sweep, POOH chasing same, bump up, bleed, well secured 19:00
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	6.83	COIL	MIL			0		<p>00:31 Tag plug #42 at 19,193' / 5 min / 3.0 in 3.0 out / 6,600 CP / 3,200 WH</p> <p>01:49 Bring beads to .5 gal / 10 bbls, pump Beka sweep every 20 min / 5 bbls (2 gal / 10)</p> <p>01:52 Current rate 105 ft / hour</p> <p>02:26 Tag plug #43 at 19,369' / 6 min / 3.0 in 3.1 out / 6,700 CP / 3,200 WH</p> <p>03:00 Reduce beads to .25 gal / 10 bbls, reduce Beka sweeps back to 5 bbls every 30 min</p> <p>03:30 RIH rate at 2.67 ft/min / 3.0 in 3.1 out / 6,500 CP / 3,200 WH</p> <p>04:10 Reduce Beka sweeps from 5 bbls / 30 min to 2.5 bbls / 30 min</p> <p>04:20 Tag plug #44 at 19,550' / 2 min / 3.0 in 3.1 out / 6,600 CP / 3,200 WH</p> <p>04:42 Increase Beka sweeps back to 5 bbls / 30 min, appeared to make RIH reduced</p> <p>05:33 Tag plug #45 at 19,711' / 3 min / 3.0 in 3.1 out / 6,800 CP / 3,200 WH</p> <p>RIH rate has varied during night from 1.7 ftm to 3.4 ftm / currently 2.0 ft/m, continue mixing FR at .18 / Beads at .25 / and 5 bbl Beka every 30 min (mixed at 2 gal / 10 bbls)</p> <p>05:55 19,777' current depth / 3.0 in 3.1 out / 6,700 ft/m / 3,200 ft/min</p>
6:50	1.97	COIL	MIL			0		<p>Drilled Plug 46 of 48.</p> <ul style="list-style-type: none"> <li>- Depth: 19,910-ft</li> <li>- CP: 6750-psi</li> <li>- WH: 3400-psi</li> <li>- Rate: 3.0-bpm (in) / 3.0-bpm (out)</li> <li>- D/T: 3-min</li> <li>- Chemical: FR (0.18-gal/10), Nano (0.25-gal/10), Beka (2-gal/10, pump 5-bbl/30-min)</li> <li>- Fluids: CI (20,000), Visc (28.2), pH (7.8), Re (29,000)</li> </ul>
8:48	2.20	COIL	MIL			0		<p>Drilled Plug 47 of 48.</p> <ul style="list-style-type: none"> <li>- Depth: 20,109-ft</li> <li>- CP: 6600-psi</li> <li>- WH: 3700-psi</li> <li>- Rate: 3.0-bpm (in) / 3.0-bpm (out)</li> <li>- D/T: Did not see any indications of plug.</li> <li>- Chemical: FR (0.18-gal/10), Nano (0.25-gal/10), Beka (2-gal/10, pump 5-bbl/30-min)</li> <li>- Fluids: CI (20,000), Visc (28.2), pH (7.8), Re (29,000)</li> </ul>
11:00	0.17	COIL	MIL			0		<p>Drilled Plug 48 of 48.</p> <ul style="list-style-type: none"> <li>- Depth: 20,275-ft</li> <li>- CP: 6400-psi</li> <li>- WH: 3670-psi</li> <li>- Rate: 3.0-bpm (in) / 3.0-bpm (out)</li> <li>- D/T: Did not see any indications of plug.</li> <li>- Chemical: FR (0.18-gal/10), Nano (0.25-gal/10), Beka (2-gal/10, pump 5-bbl/30-min)</li> <li>- Fluids: CI (20,000), Visc (28.2), pH (7.8), Re (29,000)</li> </ul>
11:10	0.92	COIL	PCT			0		<p>Reach TD of 20,275-ft (20-ft off sleeve depth). Pump 10-10-10 sweep (100-visc) to cleanup hole. Sweep is dyed red. Displace sweep out of reel.</p>
12:05	3.92	COIL	PCT			0		<p>Start POOH at 50-fpm while pumping at 3.0-bpm. Adjust choke to have a return rate of 2.8-bpm. Verify the Varel bit size is 3-3/4" (S/N 1542646). Drifted BHA with 3/4" ball. Confirmed 3/4" ball seats in disconnect and the 5/8" ball seats in the circulation sub.</p>
16:00	2.00	COIL	PCT			0		<p>Send a 5-bbl gel sweep at a depth of 13,000-ft to clean the build section. Continue to PBTS. ETA for sweep is 18:30.</p> <p>17:30 Nights safety meeting, make plan, discuss moving over to</p>

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## Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								1503H, suspended loads, securing well, bleeding off pressures, torque work, hot work, 12 questions, hand awareness, no go zone, BD MU tools, function testing, walking the lines, review JSA's and open permits
18:00	1.00	COIL	PCT			0		4,500' current depth, continue POOH, bump up, shut LFV 31 turns and confirm, bleed, shut UFV 31 turns and confirm, shut in 3" side and confirm, no trapped pressure, MU 7-1/16" nightcap and torque 6, well ready for Eline/packer.  NOTE: End of reporting on University 19 1504H, open Wellview file on 1503H at 19:00
<b>Total</b>	<b>19.00</b>							