

## EP WELLS DAILY OPERATIONS REPORT

Report 23

12/14/2017

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 19 PW UNIT 1404H
Wellbore	UNIVERSITY 19 PW UNIT 1404H
WBS No/API No	30266568 / 4230133215.00

## Event Summary

Event Type	Completion only	Event Start Date	10/31/2017	Days on Location	23.00
Objective	Install Completion	Original Spud Date	06/17/2017		
Est. Days	65.00	Contractor	PERMIAN WELL SVC		
Work Unit	PERMIAN COMPLETIONS	Days To Release			
		Rig Phone/FAX No.			

## Well Status

Supervisor	Wes Garver	Measured Depth(ft)	
Engineer	Bobby Ramos	TVD(ft)	
Other Supervisor	David Stein	24 Hr Progress(ft)	
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,800.10 / 2,772.10	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	3,964,733/5,029,301.00	Current MW / BH EMW(ppg)	/
Actual divided by AFE	0.79	LOT/FIT EMW(ppg)	
Daily Cost	35,066	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:							

## 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	22

## Operations Summary

24 Hour Summary
RIH and start drilling plugs.
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	1.00	COIL	RGU			0		Break circulation. Pressure test BOPs: - 500-psi for 5-min (good test) - 8000-psi for 10-min (good test) Bleed down pressure to 4200-psi to equalize with WHP. Open the UMW (17 turns) and verify the LMV is open.
1:00	1.70	COIL	CTR			0		Start RIH to drill plug.
2:42	0.67	COIL	CTR			0		Weight check at 10,250-ft is 24-klb. Continue RIH.
3:22	0.38	COIL	MIL			0		Tag plug 1 of 49:  - Depth is 12,141' - Cir Press is 6900 psi - WH Press is 3600 psi - Rate(in) is 3.5 bpm - Rate(out) is 3.5 bpm - Drill Time is 6 min - Stalls - None  Chemicals: - FR at 0.12-gal/10-bbl
3:45	1.02	COIL	MIL			0		Tag plug 2 of 49:  - Depth is 12,287' - Cir Press is 6900 psi - WH Press is 3600 psi - Rate(in) is 3.5 bpm - Rate(out) is 3.5 bpm - Drill Time is 3 min - Stalls - None  Chemicals: - FR at 0.12-gal/10-bbl
4:46	0.35	COIL	MIL			0		Tag plug 3 of 49:  - Depth is 12,534' - Cir Press is 7000 psi - WH Press is 3600 psi - Rate(in) is 3.5 bpm - Rate(out) is 3.5 bpm - Drill Time is 7 min - Stalls - 1  Chemicals: - FR at 0.12-gal/10-bbl
5:07	0.60	COIL	MIL			0		Tag plug 4 of 49:  - Depth is 12,713' - Cir Press is 7000 psi - WH Press is 3600 psi - Rate(in) is 3.5 bpm - Rate(out) is 3.4 bpm - Drill Time is 22 min - Stalls - 1  Chemicals: - FR at 0.12-gal/10-bbl
5:43	0.73	COIL	MIL			0		Tag plug 5 of 49:  - Depth is 12,885' - Cir Press is 7100 psi - WH Press is 3500 psi - Rate(in) is 3.5 bpm - Rate(out) is 3.5 bpm - Drill Time is 18 min - Stalls - None

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Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								Chemicals: - FR at 0.25-gal/10-bbl
6:27	0.70	COIL	MIL			0		Tag plug 6 of 49:  - Depth is 13,065' - Cir Press is 6700 psi - WH Press is 3800 psi - Rate(in) is 3.25 bpm - Rate(out) is 3.25 bpm - Drill Time is 21 min - Stalls - None  Chemicals: - FR at 0.35-gal/10-bbl
7:09	0.70	COIL	MIL			0		Tag plug 7 of 49:  - Depth is 13,245' - Cir Press is 6700 psi - WH Press is 3800 psi - Rate(in) is 3.25 bpm - Rate(out) is 3.25 bpm - Drill Time is 13 min - Stalls - None  Chemicals: - FR at 0.35-gal/10-bbl
7:51	0.43	COIL	MIL			0		Tag plug 8 of 49:  - Depth is 13,430' - Cir Press is 6600 psi - WH Press is 3800 psi - Rate(in) is 3.25 bpm - Rate(out) is 3.25 bpm - Drill Time is 4 min - Stalls - None  Chemicals: - FR at 0.35-gal/10-bbl
8:17	0.58	COIL	MIL			0		Tag plug 9 of 49:  - Depth is 13,630' - Cir Press is 6600 psi - WH Press is 3800 psi - Rate(in) is 3.25 bpm - Rate(out) is 3.25 bpm - Drill Time is 11 min - Stalls - None  Chemicals: - FR at 0.35-gal/10-bbl
8:52	0.55	COIL	MIL			0		Tag plug 10 of 49:  - Depth is 13,811' - Cir Press is 6850 psi - WH Press is 3800 psi - Rate(in) is 3.25 bpm - Rate(out) is 3.25 bpm - Drill Time is 4 min - Stalls - None  Chemicals: - FR at 0.35-gal/10-bbl
9:25	0.57	COIL	MIL			0		Tag plug 11 of 49:  - Depth is 13,988' - Cir Press is 6850 psi - WH Press is 3800 psi

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								- Rate(in) is 3.25 bpm - Rate(out) is 3.25 bpm - Drill Time is 9 min - Stalls - None  Chemicals: - FR at 0.35-gal/10-bbl
9:59	0.72	COIL	MIL			0		Tag plug 12 of 49:  - Depth is 14,159' - Cir Press is 6850 psi - WH Press is 3800 psi - Rate(in) is 3.25 bpm - Rate(out) is 3.25 bpm - Drill Time is 5 min - Stalls - None  Chemicals: - FR at 0.35-gal/10-bbl Send 10bbls sweep.
10:42	0.68	COIL	MIL			0		Tag plug 13 of 49:  - Depth is 14,342' - Cir Press is 6850 psi - WH Press is 3800 psi - Rate(in) is 3.25 bpm - Rate(out) is 3.25 bpm - Drill Time is 4 min - Stalls - None  Chemicals: - FR at 0.35-gal/10-bbl
11:23	0.43	COIL	MIL			0		Tag plug 14 of 49:  - Depth is 14,533' - Cir Press is 6850 psi - WH Press is 3800 psi - Rate(in) is 3.25 bpm - Rate(out) is 3.25 bpm - Drill Time is 4 min - Stalls - None  Chemicals: - FR at 0.35-gal/10-bbl
11:49	0.57	COIL	MIL			0		Tag plug 15 of 49:  - Depth is 14,693' - Cir Press is 6850 psi - WH Press is 3800 psi - Rate(in) is 3.25 bpm - Rate(out) is 3.25 bpm - Drill Time is 3 min - Stalls - None  Chemicals: - FR at 0.35-gal/10-bbl
12:23	0.50	COIL	MIL			0		Tag plug 16 of 49:  - Depth is 14,894' - Cir Press is 6700 psi - WH Press is 3800 psi - Rate(in) is 3.25 bpm - Rate(out) is 3.25 bpm - Drill Time is 3 min - Stalls - None  Chemicals:

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Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								- FR at 0.35-gal/10-bbl
12:53	0.53	COIL	MIL			0		Tag plug 17 of 49:  - Depth is 15,053' - Cir Press is 6600 psi - WH Press is 3800 psi - Rate(in) is 3.25 bpm - Rate(out) is 3.25 bpm - Drill Time is 4 min - Stalls - None  Chemicals: - FR at 0.35-gal/10-bbl
13:25	0.52	COIL	MIL			0		Tag plug 18 of 49:  - Depth is 15,232' - Cir Press is 6300 psi - WH Press is 3800 psi - Rate(in) is 3.25 bpm - Rate(out) is 3.25 bpm - Drill Time is 4 min - Stalls - None  Chemicals: - FR at 0.35-gal/10-bbl
13:56	0.45	COIL	MIL			0		Tag plug 19 of 49:  - Depth is 15,411' - Cir Press is 6400 psi - WH Press is 3800 psi - Rate(in) is 3.25 bpm - Rate(out) is 3.25 bpm - Drill Time is 4 min - Stalls - None  Chemicals: - FR at 0.35-gal/10-bbl
14:23	0.62	COIL	MIL			0		Tag plug 20 of 49:  - Depth is 15,591' - Cir Press is 6500 psi - WH Press is 3800 psi - Rate(in) is 3.25 bpm - Rate(out) is 3.25 bpm - Drill Time is 4 min - Stalls - None  Chemicals: - FR at 0.35-gal/10-bbl
15:00	0.48	COIL	MIL			0		Tag plug 21 of 49:  - Depth is 15,777' - Cir Press is 6400 psi - WH Press is 3800 psi - Rate(in) is 3.25 bpm - Rate(out) is 3.25 bpm - Drill Time is 4 min - Stalls - None  Chemicals: - FR at 0.25-gal/10-bbl, POP at 0.1-gal/10bbl
15:29	0.52	COIL	MIL			0		Tag plug 22 of 49:  - Depth is 15,953' - Cir Press is 6400 psi - WH Press is 3800 psi - Rate(in) is 3.25 bpm

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Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								- Rate(out) is 3.25 bpm - Drill Time is 4 min - Stalls - None  Chemicals: - FR at 0.35-gal/10-bbl, POP at 0.1-gal/10bbl
16:00	0.42	COIL	MIL			0		Tag plug 23 of 49:  - Depth is 16,132' - Cir Press is 6400 psi - WH Press is 3800 psi - Rate(in) is 3.25 bpm - Rate(out) is 3.25 bpm - Drill Time is 4 min - Stalls - None  Chemicals: - FR at 0.35-gal/10-bbl, POP at 0.1-gal/10bbl
16:25	0.45	COIL	MIL			0		Tag plug 24 of 49:  - Depth is 16,315' - Cir Press is 6400 psi - WH Press is 3850 psi - Rate(in) is 3.25 bpm - Rate(out) is 3.25 bpm - Drill Time is 5 min - Stalls - None  Chemicals: - FR at 0.35-gal/10-bbl, POP at 0.1-gal/10bbl
16:52	0.48	COIL	MIL			0		Tag plug 25 of 49:  - Depth is 16,493' - Cir Press is 6400 psi - WH Press is 3800 psi - Rate(in) is 3.25 bpm - Rate(out) is 3.25 bpm - Drill Time is 6 min - Stalls - None  Chemicals: - FR at 0.35-gal/10-bbl, POP at 0.1-gal/10bbl
17:21	0.15	COIL	MIL			0		Tag plug 26 of 49:  - Depth is 16,672' - Cir Press is 6500 psi - WH Press is 3800 psi - Rate(in) is 3.25 bpm - Rate(out) is 3.25 bpm - Drill Time is 14 min - Stalls - 1  Chemicals: - FR at 0.35-gal/10-bbl, POP at 0.1-gal/10bbl
17:30	0.50	COIL	MIL			0		Crew change safety meeting.
18:00	0.53	COIL	MIL			0		Tag plug 27 of 49:  - Depth is 16,863' - Cir Press is 6500 psi - WH Press is 3800 psi - Rate(in) is 3.25 bpm - Rate(out) is 3.2 bpm - Drill Time is 3 min - Stalls - None  Chemicals:

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Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								- FR at 0.35-gal/10-bbl, POP at 0.1-gal/10bbl
18:32	0.48	COIL	MIL			0		Tag plug 28 of 49:  - Depth is 17,034' - Cir Press is 6400 psi - WH Press is 3800 psi - Rate(in) is 3.25 bpm - Rate(out) is 3.2 bpm - Drill Time is 7 min - Stalls - None  Chemicals: - FR at 0.35-gal/10-bbl, POP at 0.1-gal/10bbl
19:01	0.35	COIL	MIL			0		Tag plug 29 of 49:  - Depth is 17,218' - Cir Press is 6400 psi - WH Press is 3800 psi - Rate(in) is 3.25 bpm - Rate(out) is 3.2 bpm - Drill Time is 1 min - Stalls - None  Chemicals: - FR at 0.35-gal/10-bbl, POP at 0.1-gal/10bbl
19:22	0.50	COIL	MIL			0		Tag plug 30 of 49:  - Depth is 17,389' - Cir Press is 6400 psi - WH Press is 3900 psi - Rate(in) is 3.25 bpm - Rate(out) is 3.2 bpm - Drill Time is 6 min - Stalls - None  Chemicals: - FR at 0.35-gal/10-bbl, POP at 0.1-gal/10bbl
19:52	0.37	COIL	MIL			0		Tag plug 31 of 49:  - Depth is 17,576' - Cir Press is 6400 psi - WH Press is 3800 psi - Rate(in) is 3.25 bpm - Rate(out) is 3.2 bpm - Drill Time is 4 min - Stalls - None  Chemicals: - FR at 0.35-gal/10-bbl, POP at 0.1-gal/10bbl
20:14	0.58	COIL	MIL			0		Tag plug 32 of 49:  - Depth is 17,752' - Cir Press is 6400 psi - WH Press is 3900 psi - Rate(in) is 3.25 bpm - Rate(out) is 3.2 bpm - Drill Time is 6 min - Stalls - None  Chemicals: - FR at 0.35-gal/10-bbl, POP at 0.1-gal/10bbl
20:49	0.60	COIL	MIL			0		Tag plug 33 of 49:  - Depth is 17,935' - Cir Press is 6500 psi - WH Press is 3700 psi - Rate(in) is 3.25 bpm

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Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								- Rate(out) is 3.2 bpm - Drill Time is 4 min - Stalls - None  Chemicals: - FR at 0.35-gal/10-bbl, POP at 0.1-gal/10bbl
21:25	0.60	COIL	MIL			0		Tag plug 34 of 49:  - Depth is 18,119' - Cir Press is 6600 psi - WH Press is 3900 psi - Rate(in) is 3.25 bpm - Rate(out) is 3.2 bpm - Drill Time is 3 min - Stalls - None  Chemicals: - FR at 0.35-gal/10-bbl, POP at 0.1-gal/10bbl
22:01	0.63	COIL	MIL			0		Tag plug 35 of 49:  - Depth is 18,302' - Cir Press is 6600 psi - WH Press is 3900 psi - Rate(in) is 3.25 bpm - Rate(out) is 3.2 bpm - Drill Time is 7 min - Stalls - None  Chemicals: - FR at 0.35-gal/10-bbl, POP at 0.1-gal/10bbl - Pump 10-bbl gel sweep (80 visc)
22:39	0.48	COIL	MIL			0		Tag plug 36 of 49:  - Depth is 18,470' - Cir Press is 6500 psi - WH Press is 3900 psi - Rate(in) is 3.25 bpm - Rate(out) is 3.2 bpm - Drill Time is 6 min - Stalls - None  Chemicals: - FR at 0.35-gal/10-bbl, POP at 0.1-gal/10bbl
23:08	0.75	COIL	MIL			0		Tag plug 37 of 49:  - Depth is 18,656' - Cir Press is 6800 psi - WH Press is 3900 psi - Rate(in) is 3.25 bpm - Rate(out) is 3.2 bpm - Drill Time is 4 min - Stalls - None  Chemicals: - FR at 0.35-gal/10-bbl, POP at 0.2-gal/10bbl - Pump 10-bbl I-Lub Sweep
23:53	0.12	COIL	MIL			0		Tag plug 38 of 49:  - Depth is 18,839' - Cir Press is 6800 psi - WH Press is 3900 psi - Rate(in) is 3.25 bpm - Rate(out) is 3.2 bpm - Drill Time is 3 min - Stalls - None  Chemicals:



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								- FR at 0.35-gal/10-bbl, POP at 0.2-gal/10bbl
<b>Total</b>	<b>24.00</b>							

## 06.00 Update

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Description
0:00	0.58	COIL	MIL			0	Continue RIH to the next plug.
0:35	0.75	COIL	MIL			0	Tag plug 39 of 49:  - Depth is 19,015' - Cir Press is 6800 psi - WH Press is 3900 psi - Rate(in) is 3.25 bpm - Rate(out) is 3.2 bpm - Drill Time is 4 min - Stalls - None  Chemicals: - FR at 0.35-gal/10-bbl, POP at 0.2-gal/10bbl
1:20	0.42	COIL	MIL			0	Tag plug 40 of 49:  - Depth is 19,201' - Cir Press is 6900 psi - WH Press is 3900 psi - Rate(in) is 3.25 bpm - Rate(out) is 3.2 bpm - Drill Time is 3 min - Stalls - None  Chemicals: - FR at 0.35-gal/10-bbl, POP at 0.2-gal/10bbl
1:45	0.83	COIL	MIL			0	Stop moving the CT due to high circulation pressure (> 7200-psi). Do a weight check at 19,224-ft, PU weight is 49-klb. Cir pressure is still too high to move pipe. Problem was a loose hose on the FR tote tank. Fix the loose hose, re-test chemical pump. Pressure starts dropping.
2:35		COIL	MIL			0	Recommence RIH.