EP WELLS DAILY OPERATIONS REPORT

Report 35 11/19/2017

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 19 PW UNIT 1407H
Wellbore	UNIVERSITY 19 PW UNIT 1407H
WBS No/API No	30266571 / 4230133203

Event Summary

Event Type	Completion only	Event Start Date	09/03/2017	Days on Location	35.00
Objective	Install Completion	Original Spud Date	05/11/2017		
Est. Days	31.00	Contractor	PERMIAN WELL SVC		
Work Unit	PERMIAN COMPLETIONS	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	David Stein	Measured Depth(ft)	
Engineer	Alex Villegas	TVD(ft)	
Other Supervisor	Wes Garver	24 Hr Progress(ft)	
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,792.70 / 2,766.70	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	3,770,359/4,701,640.00	Current MW / BH EMW(ppg)	/
Actual divided by AFE	0.80	LOT/FIT EMW(ppg)	
Daily Cost	80,642	Lithology	
		Formation/MD Top	

HSE Summary

Last Incident	Date	Days	Last Incident	Date	Days	KPI's	
LWC			PSI			TRCF	
RWC			NII			LWCF	
MTC			HPI			Safety Cards - Safe	
FAC			**GOAL ZERO DAYS**			Safety Card - Unsafe	
Last casing pressure test			**PS BARRIER EVENT**			SSE%	
			PS barrier bowtie review			Last casing pressure(psi)	

Safety Comments:

Total man hours: 330

HSE Drills

Drills/Tests	Date	Days Since Last		
Last Derrick Inspection			JSA's/Toolbox Talks	
Last BOP function test			Days Since Last Drill	34
Last BOP Test				
Next BOP Test				

Operations Summary

24 Hour Summary

Continue drilling plugs.

Update Since Report Time

Continue drilling plugs

24 Hour Forecast

Continue drilling plugs.

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Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	0.83	COIL	CTR			0		Continue to RIH
0:50	1.07	COIL	CTR			0		Stop CT at 11050', Increase pump rate to 3.5 bpm- 6700 psi, WHP-4200 psi. PU weight-36K, confirm RI=RO. RIH through liner top.
1:54	0.37	COIL	MIL			0		Tag plug #1 of 46 CT Depth- 12,228' Pump pressure- 6500 psi WH Pressure- 4100 psi Mill time- 4 min Pump rate- 3.5 bpm. Return rate- 3.5 bpm Fluid Properties: FR at .25 gal/10
2:16	0.42	COIL	MIL			0		Tag plug #2 of 46 CT Depth- 12,406' Pump pressure- 6500 psi WH Pressure- 4000 psi Mill time- 6 min Pump rate- 3.5 bpm. Return rate- 3.5 bpm Fluid Properties: FR at .25 gal/10
2:41	0.42	COIL	MIL			0		Tag plug #3 of 46 CT Depth- 12,586' Pump pressure- 6380 psi WH Pressure- 4000 psi Mill time- 5 min Pump rate- 3.5 bpm. Return rate- 3.5 bpm Fluid Properties: FR at .25 gal/10
3:06	0.22	COIL	MIL			0		Tag plug #4 of 46 CT Depth- 12,765' Pump pressure- 6200 psi WH Pressure- 3800 psi Mill time- 2 min Pump rate- 3.5 bpm. Return rate- 3.5 bpm Fluid Properties: FR at .25 gal/10
3:19	0.38	COIL	MIL			0		Tag plug #5 of 46 CT Depth- 12,935' Pump pressure- 6000 psi WH Pressure- 3500 psi Mill time- 11 min Pump rate- 3.5 bpm. Return rate- 3.5 bpm Stall-1 Fluid Properties: FR at .25 gal/10
3:42	0.38	COIL	MIL			0		Tag plug #6 of 46 CT Depth- 13,118' Pump pressure- 6000 psi WH Pressure- 3500 psi Mill time- 8 min Pump rate- 3.5 bpm. Return rate- 3.5 bpm Stall-0 Fluid Properties: FR at .25 gal/10
4:05	0.30	COIL	MIL			0		Tag plug #7 of 46 CT Depth- 13,295' Pump pressure- 6000 psi WH Pressure- 3500 psi Mill time- 5 min Pump rate- 3.5 bpm. Return rate- 3.5 bpm Stall-0

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Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								Fluid Properties: FR at .25 gal/10
4:23	0.28	COIL	MIL			0		Tag plug #8 of 46 CT Depth- 13,471' Pump pressure- 6200 psi WH Pressure- 3600 psi Mill time- 7 min Pump rate- 3.5 bpm. Return rate- 3.5 bpm Stall-0 Fluid Properties: FR at .25 gal/10
4:40	0.62	COIL	MIL			0		Tag plug #9 of 46 CT Depth- 13,652' Pump pressure- 6200 psi WH Pressure- 3500 psi Mill time- 10 min Pump rate- 3.5 bpm. Return rate- 3.5 bpm Stall-1 Fluid Properties: FR at .25 gal/10
5:17	0.22	COIL	MIL			0		Tag plug #10 of 46 CT Depth- 13,828' Pump pressure- 6200 psi WH Pressure- 3500 psi Mill time- 4 min Pump rate- 3.5 bpm. Return rate- 3.5 bpm Stall-0 Fluid Properties: FR at .25 gal/10
5:30	0.50	COIL	MIL			0		Crew change safety meeting.
6:00	0.32	COIL	MIL			0		Continue RIH to drill plugs.
6:19	0.35	COIL	MIL			0		Tag plug #11 of 46 CT Depth- 14,008' Pump pressure- 6400 psi WH Pressure- 3800 psi Mill time- 4 min Pump rate- 3.5 bpm. Return rate- 3.4 bpm Stall-0 Fluid Properties: FR at .25 gal/10
6:40	0.42	COIL	MIL			0		Tag plug #12 of 46 CT Depth- 14,183' Pump pressure- 6300 psi WH Pressure- 3700 psi Mill time- 6 min Pump rate- 3.5 bpm. Return rate- 3.5 bpm Stall-0 Fluid Properties: FR at .25 gal/10
7:05	0.43	COIL	MIL			0		Tag plug #13 of 46 CT Depth- 14,362' Pump pressure- 6400 psi WH Pressure- 3800 psi Mill time- 5 min Pump rate- 3.5 bpm. Return rate- 3.5 bpm Stall-0 Fluid Properties: FR at 0.25 gal/10
7:31	0.62	COIL	MIL			0		Tag plug #14 of 46 CT Depth- 14,540' Pump pressure- 6300 psi WH Pressure- 3700 psi Mill time- 5 min Pump rate- 3.5 bpm. Return rate- 3.5 bpm Stall-1

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Wellbore UNIVERSITY 19 PW UNIT 1407H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								Fluid Properties: FR at 0.20 gal/10
8:08	0.48	COIL	MIL			0		Tag plug #15 of 46 CT Depth- 14,718' Pump pressure- 5900 psi WH Pressure- 3500 psi Mill time- 7 min Pump rate- 3.5 bpm. Return rate- 3.5 bpm Stall-0 Fluid Properties: FR at 0.20 gal/10
8:37	0.52	COIL	MIL			0		Tag plug #16 of 46 CT Depth- 14,901' Pump pressure- 6000 psi WH Pressure- 3500 psi Mill time- 5 min Pump rate- 3.5 bpm. Return rate- 3.5 bpm Stall-0 Fluid Properties: FR at 0.13 gal/10, Start I-Lub at 0.25 gal/10
9:08	0.55	COIL	MIL			0		Tag plug #17 of 46 CT Depth- 15,069' Pump pressure- 6400 psi WH Pressure- 3700 psi Mill time- 8 min Pump rate- 3.5 bpm. Return rate- 3.5 bpm Stall-1 Fluid Properties: FR at 0.13 gal/10, I-Lub at 0.25 gal/10
9:41	0.58	COIL	MIL			0		Tag plug #18 of 46 CT Depth- 15,251' Pump pressure- 6000 psi WH Pressure- 3500 psi Mill time- 6 min Pump rate- 3.5 bpm. Return rate- 3.5 bpm Stall-0 Fluid Properties: FR at 0.13 gal/10, I-Lub at 0.25 gal/10
10:16	0.70	COIL	MIL			0		Tag plug #19 of 46 CT Depth- 15,428' Pump pressure- 6100 psi WH Pressure- 3600 psi Mill time- 6 min Pump rate- 3.5 bpm. Return rate- 3.5 bpm Stall-0 Fluid Properties: FR at 0.13 gal/10, I-Lub at 0.25 gal/10
10:58	0.40	COIL	MIL			0		Tag plug #20 of 46 CT Depth- 15,611' Pump pressure- 6000 psi WH Pressure- 3500 psi Mill time- 5 min Pump rate- 3.5 bpm. Return rate- 3.5 bpm Stall-0 Fluid Properties: FR at 0.13 gal/10, I-Lub at 0.25 gal/10 Send 10-bbl gel sweep (62-visc)
11:22	0.60	COIL	MIL			0		Tag plug #21 of 46 CT Depth- 15,783' Pump pressure- 6000 psi WH Pressure- 3500 psi Mill time- 4 min Pump rate- 3.5 bpm. Return rate- 3.5 bpm Stall-0 Fluid Properties: FR at 0.13 gal/10, I-Lub at 0.25 gal/10

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Wellbore UNIVERSITY 19 PW UNIT 1407H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
11:58	0.73	COIL	MIL			0		Tag plug #22 of 46 CT Depth- 15,960' Pump pressure- 6000 psi WH Pressure- 3500 psi Mill time- 8 min Pump rate- 3.5 bpm. Return rate- 3.5 bpm Stall-0 Fluid Properties: FR at 0.13 gal/10, I-Lub at 0.25 gal/10
12:42	0.78	COIL	MIL			0		Tag plug #23 of 46 CT Depth- 16,141' Pump pressure- 6000 psi WH Pressure- 3500 psi Mill time- 7 min Pump rate- 3.5 bpm. Return rate- 3.5 bpm Stall-0 Fluid Properties: FR at 0.13 gal/10, I-Lub at 0.25 gal/10
13:29	0.35	COIL	MIL			0		Tag plug #24 of 46 CT Depth- 16,326' Pump pressure- 6000 psi WH Pressure- 3500 psi Mill time- 7 min Pump rate- 3.5 bpm. Return rate- 3.5 bpm Stall-0 Fluid Properties: FR at 0.13 gal/10, I-Lub at 0.25 gal/10
13:50	0.55	COIL	MIL			0		Tag plug #25 of 46 CT Depth- 16,500' Pump pressure- 6000 psi WH Pressure- 3500 psi Mill time- 8 min Pump rate- 3.5 bpm. Return rate- 3.5 bpm Stall-0 Fluid Properties: FR at 0.13 gal/10, I-Lub at 0.25 gal/10
14:23	0.62	COIL	MIL			0		Tag plug #26 of 46 CT Depth- 16,674' Pump pressure- 6000 psi WH Pressure- 3500 psi Mill time- 6 min Pump rate- 3.5 bpm. Return rate- 3.5 bpm Stall-0 Fluid Properties: FR at 0.13 gal/10, I-Lub at 0.25 gal/10
15:00	0.63	COIL	MIL			0		Tag plug #27 of 46 CT Depth- 16,864' Pump pressure- 6200 psi WH Pressure- 3500 psi Mill time- 5 min Pump rate- 3.5 bpm. Return rate- 3.5 bpm Stall-0 Fluid Properties: FR at 0.13 gal/10, I-Lub at 0.25 gal/10
15:38	0.60	COIL	MIL			0		Tag plug #28 of 46 CT Depth- 17,045' Pump pressure- 6000 psi WH Pressure- 3500 psi Mill time- 7 min Pump rate- 3.5 bpm. Return rate- 3.5 bpm Stall-0 Fluid Properties: FR at 0.13 gal/10, I-Lub at 0.25 gal/10
16:14	1.27	COIL	MIL			0		Tag plug #29 of 46 CT Depth- 17,218' Pump pressure- 6000 psi WH Pressure- 3500 psi

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Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								Mill time- 6 min Pump rate- 3.5 bpm. Return rate- 3.5 bpm Stall-0 Fluid Properties: FR at 0.13 gal/10, I-Lub at 0.25 gal/10
17:30	0.05	COIL	MIL			0		Safety meeting with the night crew.
17:33	1.23	COIL	MIL			0		Tag plug #30 of 46 CT Depth- 17,403' Pump pressure- 6000 psi WH Pressure- 3500 psi Mill time- 4 min Pump rate- 3.5 bpm. Return rate- 3.5 bpm Stall-0 Fluid Properties: FR at 0.12 gal/10, I-Lub at 0.40 gal/10
18:47	0.97	COIL	MIL			0		Tag plug #31 of 46 CT Depth- 17,581' Pump pressure- 6800 psi WH Pressure- 3625 psi Mill time- 7 min Pump rate- 3.8 bpm. Return rate- 3.8 bpm Stall-0 Fluid Properties: FR at 0.15 gal/10, I-Lub at 0.40 gal/10
19:45	0.45	COIL	MIL			0		Send 10bbls slug of POP every 30 min. Continue to RIH to plug 32
20:12	1.28	COIL	MIL			0		Tag plug #32 of 46 CT Depth- 17,748' Pump pressure- 6800 psi WH Pressure- 3500 psi Mill time- 6 min Pump rate- 3.8 bpm. Return rate- 3.8 bpm Stall-0 Fluid Properties: FR at 0.15 gal/10, I-Lub at 0.40 gal/10 Continue to send 10bbls slug of POP every 30 min.
21:29	2.18	COIL	MIL			0		Tag plug #33 of 46 CT Depth- 17,936' Pump pressure- 6800 psi WH Pressure- 3500 psi Mill time- 5 min Pump rate- 3.8 bpm. Return rate- 3.8 bpm Stall-0 Fluid Properties: FR at 0.15 gal/10, I-Lub at 0.40 gal/10 Continue to send 10bbls slug of POP every 30 min.
23:40	0.33	COIL	MIL			0		Tag plug #34 of 46 CT Depth- 18,115' Pump pressure- 6700 psi WH Pressure- 3600 psi Mill time- 5 min Pump rate- 3.8 bpm. Return rate- 3.8 bpm Stall-0 Fluid Properties: FR at 0.15 gal/10, I-Lub at 0.40 gal/10 Continue to send 10bbls slug of POP every 30 min.
Total	**24.00**							

06.00 Update

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Description
0:00	1.95	COIL	MIL			0	Continue to RIH to plug # 35
1:57	1.38	COIL	MIL			0	Tag plug #35 of 46

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06.00 Update

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Description
							CT Depth- 18,299' Pump pressure- 6700 psi WH Pressure- 3600 psi Mill time- 6 min Pump rate- 3.9 bpm. Return rate- 3.9 bpm Stall-0 Fluid Properties: FR at 0.15 gal/10, I-Lub at 0.40 gal/10 Continue to send 10bbls slug of POP every 30 min.
3:20		COIL	MIL			0	Tag plug #36 of 46 CT Depth- 18,461' Pump pressure- 6600 psi WH Pressure- 3500 psi Mill time- 6 min. Pump rate- 3.9 bpm. Return rate- 3.9 bpm Stall-0 Fluid Properties: FR at 0.15 gal/10, I-Lub at 0.40 gal/10 Continue to send 10bbls slug of POP every 30 min.