

EP WELLS DAILY OPERATIONS REPORT

Report 31

11/26/2017

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 19 PW UNIT 1406H
Wellbore	UNIVERSITY 19 PW UNIT 1406H
WBS No/API No	30266570 / 4230133213.00

Event Summary

Event Type	Completion only	Event Start Date	09/03/2017	Days on Location	31.00
Objective	Install Completion	Original Spud Date	04/30/2017		
Est. Days	31.00	Contractor	PERMIAN WELL SVC		
Work Unit	PERMIAN COMPLETIONS	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	Mike Reber	Measured Depth(ft)	
Engineer	Alex Villegas	TVD(ft)	
Other Supervisor	Shawn Jones	24 Hr Progress(ft)	
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,793.00 / 2,767.00	Hole size(in)	
THF Datum			
Daily NPT(hr/%)	18.48/100.00	Last Casing MD	
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	
Actual cost to date/AFE	3,509,870/4,377,702.00	Current MW / BH EMW(ppg)	/
Actual divided by AFE	0.80	LOT/FIT EMW(ppg)	
Daily Cost	81,002	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:							
Man hours = 320							

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	30

Operations Summary

24 Hour Summary
RU. MU BHA. RIH. CTDO plugs 1 thru 24
Update Since Report Time
RU
24 Hour Forecast
RU. MU BHA. RIH. CTDO plugs.

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Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
5:30	0.50	COIL	CTR			1		Open WellView file after swinging over from 1407H (completed) 05:30 Hold days pre-job safety meeting w/ all vendors on location. Discussion points included: 12 LSR, 3 Golden Rules, Process Safety Barriers, rigging up Coil tubing, rigging up crane.
6:00	0.67	COIL	CTR			1		Pro continue torque 4" per spec, job complete
6:40	0.92	COIL	CTR			1		Crew LD and secure 100' hose package, swing crane to injector and hook up same, PAUSE, drop inspection of injector (picture book in development from office), check all shackles, cables, and hoses, all good
7:35	0.67	COIL	CHB			1		Check condition of o-rings on 5-1/8" lubricator, swing crane over with injector and stab on 1st lube, MU 2nd and 3rd (30' total), RIH with pipe and inspect same, cut off 17' of pipe, sniff 2-3/8" CT and immediate area for LEL, 0% LEL, open hot work permit and dress end of CT for 3.1" dimple on connector.
8:15	1.17	COIL	CHB			1		08:22 MU 3.1 dimple connection and pull test as follows 15K 700 psi 30K 1,400 psi (TTS recommended) 08:31 Pressure test 3.1" dimple to 3,000 psi, good test 08:36 MU BHA #1 as follows with 3.75" JZ bit (will pull bit after 30 plugs / drift all tools with 5/8" and 3/4" balls) Pull tested 30K, pressure tested 3,000 psi and final MU as follows) -3.00" OD 0.54' long dimple on CT connector -2.88" OD 1.41' long Dual Back Pressure Valve -2.88" OD 4.39' long TTS jar -2.88" OD 2.24' long Hydraulic Disconnect (.75" ball) -2.88" OD 1.58' long Dual circ sub -2.88" OD 2.24' long XRV Extended reach tool -2.88" OD 13.73' long Titan Mud Lube Motor w Dura torque power section -3.13" OD 1.01 long Rotary Sub -3.75" OD .75" long JZ bit Total length = 27.89' 09:19 Function test 2.88 Titan Mud Lube Motor w Dura torque power section w FR as follows 2.0 bpm 1,000 psi 2.5 bpm 1,500 psi 3.0 bpm 2,500 psi
9:25	0.67	COIL	CTR			1		Lift injector to well and spin up bowen, secure with guywire package, OSR / flowback / CT supervisor walk the lines checking all valve orientation, zero mechanical counter
10:05	0.92	COIL	BOP			1		PAUSE, 9 questions for safe pressure test, break circulation to gas buster through 3" choke manifold, SD, shut in choke, pressure test surface package as follows 300 psi / 5 min / good test 8,300 psi / SD, leak on 2" plug valve on 3" choke manifold, change out 2" plug valve (no go) 10:37 Start pressure test over as follows 325 psi / 5 min / good test 8,700 psi / 10 min / good test 10:55 Bleed off to 0 psi, SD, BOP drill
11:00	0.25	COIL	SAF			1		BOP drill, 127 second muster, all accounted for, simulate stripper not holding, shut pipe rams and muster, comments that the horn is not loud enough.
11:15	3.23	COIL	CTR			1		Open UVF 40-1/2 turns and confirm, check pressure on well at 3,900 psi on b-section, shut in choke manifold and bring pressure to 3,900 psi, open LFV 30-1/2 turns, well equalized at 3,900 psi, RIH slow and bring pump on at 1 bpm to cool motor / bbl in bbl out / 4,300 CP

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								12:10 4,937' depth, SD, change out optical encoder, start RIH again 12:47 7,750' depth, SD, change out encoder cable, start RIH again 13:05 8,000' depth, SD, talk to office, reboot computer, start RIH again, issue fixed 13:50 11,026' weight check, PU 27K, bring rate to 3.0 bpm in 3.0 bpm out / 6,600 CP / 3,800 WH Chemicals mixing at .FR .12 gal/10 bbls and POP at .10 gal/10 bbls Rheology at 27.7 cP vis / 37,478 Re number / 10,500 Chlorides
14:29	0.22	COIL	MIL			1		Tag # 1 @ 12,123' WELLHEAD= 3900 psi CIRC PRES= 6500 psi RATE= 3.0 RETURNS= 3.0 MILL TIME = 2 MINUTES STALLS= 0 FR = .12 POP = .1 RIH TO NEXT PLUG Rheology 27.7 cP vis / Re number 37,478 / Chlorides 10,500
14:42	0.17	COIL	MIL			1		Tag # 2 @ 12,293' WELLHEAD= 4000 psi CIRC PRES= 6400 psi RATE= 3.0 RETURNS= 3.0 MILL TIME = 2 MINUTES STALLS= 0 FR = .12 POP = .15 RIH TO NEXT PLUG
14:52	0.23	COIL	MIL			1		Tag # 4 @ 12,648' WELLHEAD= 3800 psi CIRC PRES= 6400 psi RATE= 3.0 RETURNS= 3.0 MILL TIME = 3 MINUTES STALLS= 0 FR = .12 POP = .15 RIH TO NEXT PLUG
15:06	0.20	COIL	MIL			1		Tag # 5 @ 12,825' WELLHEAD= 3800 psi CIRC PRES= 6250 psi RATE= 3.0 RETURNS= 3.0 MILL TIME = 3 MINUTES STALLS= 0 FR = .12 POP = .15 RIH TO NEXT PLUG
15:18	0.20	COIL	MIL			1		Tag # 6 @ 12,999' WELLHEAD= 3800 psi CIRC PRES= 6400 psi RATE= 3.0 RETURNS= 3.0 MILL TIME = 5 MINUTES STALLS= 0 FR = .12 POP = .15 RIH TO NEXT PLUG Rheology 27.7 cP vis / Re number 37,478 / Chlorides 10,500
15:30	0.30	COIL	MIL			1		Tag # 7 @ 13,175" WELLHEAD= 3800 psi CIRC PRES= 6600 psi RATE= 3.0 RETURNS= 3.0 MILL TIME = 2 MINUTES STALLS= 0 FR = .12 POP = .15 RIH TO NEXT PLUG

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15:48	0.20	COIL	MIL			1		Tag # 8 @ 13,353' WELLHEAD= 3800 psi CIRC PRES= 6600 psi RATE= 3.0 RETURNS= 3.0 MILL TIME = 7 MINUTES STALLS= 0 FR = .12 POP = .25 Increase POP to .25 gal/10 bbls RIH TO NEXT PLUG
16:00	0.35	COIL	MIL			1		Tag # 9 @ 13,528' WELLHEAD= 3600 psi CIRC PRES= 6650 psi RATE= 3.0 RETURNS= 3.0 MILL TIME = 2 MINUTES STALLS= 0 FR = .12 POP = .25 RIH TO NEXT PLUG
16:21	0.30	COIL	MIL			1		Tag # 10 @ 13,711' WELLHEAD= 3600 psi CIRC PRES= 6650 psi RATE= 3.0 RETURNS= 3.0 MILL TIME = 4 MINUTES STALLS= 0 FR = .12 POP = .25 RIH TO NEXT PLUG RIH weight 10-11K
16:39	0.25	COIL	MIL			1		Tag # 11 @ 13,885' WELLHEAD= 3700 psi CIRC PRES= 6680 psi RATE= 3.0 RETURNS= 3.0 MILL TIME = 2 MINUTES STALLS= 0 FR = .12 POP = .25 RIH TO NEXT PLUG
16:54	0.28	COIL	MIL			1		Tag # 12 @ 14,065' WELLHEAD= 3700 psi CIRC PRES= 6500 psi RATE= 3.0 RETURNS= 3.0 MILL TIME = 2 MINUTES STALLS= 0 FR = .12 POP = .25 RIH TO NEXT PLUG RIH weight 10-11K
17:11	0.25	COIL	MIL			1		Tag # 13 @ 14,234' WELLHEAD= 3700 psi CIRC PRES= 6500 psi RATE= 3.0 RETURNS= 3.0 MILL TIME = 4 MINUTES STALLS= 0 FR = .12 POP = .25 RIH TO NEXT PLUG
17:26	0.88	COIL	MIL			1		Tag # 14 @ 14,412' WELLHEAD= 3600 psi CIRC PRES= 6400 psi RATE= 3.0 RETURNS= 3.0 MILL TIME = 4 MINUTES STALLS= 0 FR = .15 POP = .25 RIH TO NEXT PLUG 17:30 Held Pre-Tower Safety Meeting. Covered focus areas - SSE,

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								Barrier Ownership, Hands Free and DROPS. After pre-tower crews held respective TBT for their areas. Then conducted their handovers.
18:19	0.60	COIL	MIL			1		Tag # 15 @ 14591' WELLHEAD= 3600 psi CIRC PRES= 6400 psi RATE= 3.0 RETURNS= 3.0 MILL TIME = 10 MINUTES (Fluid pump went down after tagging. Had to drop rt and re-engage) STALLS= 0 FR = .15 POP = .25 RIH TO NEXT PLUG
18:55	0.62	COIL	MIL			1		Tag # 16 @ 14766' WELLHEAD= 3600 psi CIRC PRES= 6500 psi RATE= 3.0 RETURNS= 3.0 MILL TIME = 4 MINUTES STALLS= 0 FR = .15 POP = .25 RIH TO NEXT PLUG
19:32	0.45	COIL	MIL			1		Tag # 17 @ 14941' WELLHEAD= 3600 psi CIRC PRES= 6500 psi RATE= 3.0 RETURNS= 3.0 MILL TIME = 5 MINUTES STALLS= 0 FR = .15 POP = .25 RIH TO NEXT PLUG
19:59	0.40	COIL	MIL			1		Tag # 18 @ 15117' WELLHEAD= 3600 psi CIRC PRES= 6500 psi RATE= 3.0 RETURNS= 3.0 MILL TIME = 5 MINUTES STALLS= 0 FR = .15 POP = .25 RIH TO NEXT PLUG
20:23	0.45	COIL	MIL			1		Tag # 19 @ 15287' WELLHEAD= 3600 psi CIRC PRES= 6500 psi RATE= 3.0 RETURNS= 3.0 MILL TIME = 5 MINUTES STALLS= 0 FR = .15 POP = .25 RIH TO NEXT PLUG
20:50	0.55	COIL	MIL			1		Tag # 20 @ 15470' WELLHEAD= 3600 psi CIRC PRES= 6500 psi RATE= 3.0 RETURNS= 3.0 MILL TIME = 5 MINUTES STALLS= 0 FR = .15 POP = .25 RIH TO NEXT PLUG
21:23	0.53	COIL	MIL			1		Tag # 21 @ 15654' WELLHEAD= 3600 psi CIRC PRES= 6500 psi RATE= 3.0 RETURNS= 3.0 MILL TIME = 5 MINUTES STALLS= 0 FR = .15 POP = .25 RIH TO NEXT PLUG

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Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
21:55	0.67	COIL	MIL			1		Tag # 22 @ 15834' WELLHEAD= 3600 psi CIRC PRES= 6500 psi RATE= 3.0 RETURNS= 3.0 MILL TIME = 5 MINUTES STALLS= 0 FR = .15 POP = .25 RIH TO NEXT PLUG
22:35	0.70	COIL	MIL			1		Tag # 23 @ 16000' WELLHEAD= 3600 psi CIRC PRES= 6500 psi RATE= 3.0 RETURNS= 3.0 MILL TIME = 5 MINUTES STALLS= 0 FR = .15 POP = .4 Increase POP to .4/10bbls RIH TO NEXT PLUG
23:17	0.70	COIL	MIL			1		Tag # 24 @ 16171' WELLHEAD= 3600 psi CIRC PRES= 6500 psi RATE= 3.0 RETURNS= 3.0 MILL TIME = 4 MINUTES STALLS= 0 FR = .15 POP = .4 RIH TO NEXT PLUG
Total	18.48							

06.00 Update

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Description
0:00	0.72	COIL	MIL			1	Tag # 25 @ 16352' WELLHEAD= 3600 psi CIRC PRES= 6500 psi RATE= 3.0 RETURNS= 3.0 MILL TIME = 6 MINUTES STALLS= 0 FR = .15 POP = .4 RIH TO NEXT PLUG
0:43	0.67	COIL	MIL			1	Tag # 26 @ 16530' WELLHEAD= 3400 psi CIRC PRES= 6500 psi RATE= 3.0 RETURNS= 3.0 MILL TIME = 6 MINUTES STALLS= 0 FR = .15 POP = .4 RIH TO NEXT PLUG
1:23	0.48	COIL	MIL			1	Tag # 27 @ 16703' WELLHEAD= 3400 psi CIRC PRES= 6500 psi RATE= 3.0 RETURNS= 3.0 MILL TIME = 5 MINUTES STALLS= 0 FR = .15 POP = .4 RIH TO NEXT PLUG
1:52	0.60	COIL	MIL			1	Tag # 28 @ 16878' WELLHEAD= 3400 psi CIRC PRES= 6500 psi RATE= 3.0 RETURNS= 3.0

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06.00 Update

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Description
							MILL TIME = 6 MINUTES STALLS= 0 FR = .15 POP = .4 RIH TO NEXT PLUG
2:28	0.65	COIL	MIL			1	Tag # 29 @ 17050' WELLHEAD= 3400 psi CIRC PRES= 6500 psi RATE= 3.0 RETURNS= 3.0 MILL TIME = 5 MINUTES STALLS= 0 FR = .15 POP = .4 RIH TO NEXT PLUG
3:07	0.77	COIL	MIL			1	Tag # 30 @ 17228' WELLHEAD= 3400 psi CIRC PRES= 6500 psi RATE= 3.0 RETURNS= 3.0 MILL TIME = 6 MINUTES STALLS= 0 FR = .15 POP = .4 2 gal/5bbl over 30 min POP Slug. RIH TO NEXT PLUG
3:53	0.63	COIL	MIL			1	Tag # 31 @ 17398' WELLHEAD= 3500 psi CIRC PRES= 6600 psi RATE= 3.0 RETURNS= 3.0 MILL TIME = 4 MINUTES STALLS= 0 FR = .15 POP = .4 2 gal/5bbl over 30 min POP Slug. RIH TO NEXT PLUG
4:31		COIL	MIL			1	Tag # 32 @ 17576' WELLHEAD= 3500 psi CIRC PRES= 6600 psi RATE= 3.0 RETURNS= 3.0 MILL TIME = 5 MINUTES STALLS= 0 FR = .15 POP = .4 2 gal/5bbl over 30 min POP Slug. RIH TO NEXT PLUG