

EP WELLS DAILY OPERATIONS REPORT

Report 2

11/01/2017

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	2.00
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	Mike Johnson	Measured Depth(ft)	
Engineer	Bobby Ramos	TVD(ft)	
Other Supervisor	Mike Reber	24 Hr Progress(ft)	
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,800.10 / 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	188,782/5,029,301.00	Current MW / BH EMW(ppg)	/
Actual divided by AFE	0.04	LOT/FIT EMW(ppg)	
Daily Cost	92,551	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:							
356 man hours							
42 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	1

Operations Summary

24 Hour Summary
MU bowen, test 8300 psi, open well, RIH with TTS BHA #1 to 20,844', pump pill, establish injection, pump acid and inject at 4.25 bpm / 8,000 psi, POOH
Update Since Report Time
POOH, pump gel pill in heel
24 Hour Forecast
Bump up, RD tools, MU new tools, move over to 0903H

EP WELLS DAILY OPERATIONS REPORT

Report 2

11/01/2017

Well UNIVERSITY 19 PW UNIT 1404H
Wellbore UNIVERSITY 19 PW UNIT 1404H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	1.25	COIL	CTR			0		5-1/8" lube MU, MU TTS sand perf BHA #1 as follows TTS Sand Perforating BHA #1 (pull tested 40K, pressure tested 3,000 psi and final MU as follows) NOTE: All tools drifted with 3/4" ball, 5/8" ball and 9/16" ball / Confirm gauge on 3.80" concave mill -2.88" OD 0.80' long dimple on CT connector -2.88" OD 1.41' long Dual Back Pressure Valve -2.88" OD 4.63' long Hailey jar -2.88" OD 2.24' long Hydraulic Disconnect (.75" ball) -2.88" OD 4.08' long Nitro Tuff Bypassing Abrasive Perforator (9/16" open / 5/8" close) -2.88" OD 2.23' long XRV G3 -2.88" OD 13.73' long Titan Mud Lube Motor w Power Plus 4.7 -3.80" OD 1.0' long Junk Mill Concave Total length = 30.12' Function test 2.88" motor as follows 1 bpm / 500 psi 2 bpm / 1,500 psi 3.5 bpm / 4,000 psi Pull tools into lube, swing and stab same
1:15	0.50	COIL	CTR			0		Attach guywire package after injector is up
1:45	0.50	COIL	CTR			0		PAUSE, walk lines and confirm valve orientation, start low pressure test, SD, 4:1 de booster is not reading WH pressure, MU rebuilt de booster on flow cross on BOP's, re-start low pressure test, SD, weephole leaking on de-booster, start NPT
2:15	0.75	COIL	CTR			0		Rebuild de booster and replace on flow cross
3:00	0.75	COIL	CTR			0		Pressure test 350 psi / 5 min / low, 8,300 psi / 10 min / high, good test
3:45	2.25	COIL	CTR			0		Open well, equalized at 3,600 psi, RIH rolling pump over at 1 bpm, 9,400' current depth at crew change. 05:30 Days safety meeting, review plan, UnCAAP, open JSA's and open permits
6:00	10.00	COIL	CTR			0		CT hard tag at 20,844', PU 18' and recover stretch, pump 10/10/10, bottoms up at 18:30 17:30 Nights Safety meeting, review sand perforating, pumping acid, injection, 12 LSR's, UnCAAP, review JSA's and open permits
16:00	2.50	COIL	CTR			0		Bottom up, returns clear, PAUSE, make plan for injection test before acid
18:30	1.83	COIL	CTR			0		SD, walk lines, line up to pump down the CT and the annulus, set kicks to 8,000 psi, start injection as follows 2 bpm 6,500 psi 4.5 bbls total (reduce rate as pressure climbs) 1.25 bpm 7,300 psi 15 bbls total (pressure leveling out / injection) 2.0 bpm 7,500 psi 20 bbl total (formation accept fluid at 2.0 bpm) 2.25 bpm 7,700 psi 30 bbl total 3.0 bpm 7,900 psi 50 bbls total (formation is taking fluid, injection) 19:00 Formation is charged, WH 5400 psi, TTS recommends reducing pressure 19:35 .7 bpm in .9 bpm out / 4,000 psi WH 20:15 .75 bpm in .8 bpm out / 3,200 / bbl in bbl out
20:20	0.33	COIL	CTR			0		PAUSE, WH pressure good, caliper ball at 9/16", shut reel valve, bleed, load ball, pressure to 6,000 psi, open valve and launch ball, zero counter
20:40	1.00	COIL	CTR			0		Pumping 9/16" ball at 2.5 bpm / 7,700 psi / 4,900 WH, open WH to 2.75 bpm returns and start lowering WH pressure to 3,000 psi 21:00 2.5 in 2.5 out / 6,000 psi CP / 3,000 WH / 70 bbls gone, lower rate to 1 bpm

EP WELLS DAILY OPERATIONS REPORT

Report 2

11/01/2017

Well UNIVERSITY 19 PW UNIT 1404H
Wellbore UNIVERSITY 19 PW UNIT 1404H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								21:15 1.0 in 1.0 out / CT at 20,812' / 3247 psi CP when 9/16 ball seated at 84 bbls, pressure increased to 6,460 psi, tool is open 21:19 PU to 1st cut depth of 20,800
21:40	1.58	COIL	CTR			0		PAUSE, review acid pumping with acid tech crew, they do not have titration kit due to no supervisor on location, strap tank, acid line is open to suction of pump truck, will not put in CT tanks, function test shower 22:06 500 gals of 15% HCL acid pumped, backflush hose with 2 bbls of fresh water and shut acid valve, break hose into containment, all fresh water, bring rate to 2.5 bbls min and PU CT to 20,300', pump 70 bbls at 2.5 and reduce rate to 1 bpm, acid exits CT and establish initial injection rate as follows, line up on annulus and shut in well at choke manifold .75 bpm 6,600 psi 85 bbls gone (acid on formation at 90 bbls / formation taking fluid) 1.0 bpm 6,600 psi 88 bbls gone (pressure is leveling out, continue inject) 1.5 bpm 6,000 psi 90 bbls gone (no visible break from acid) 2.5 bpm 7,250 psi 118 bbls gone (similar pressure before acid, def injection and level) 3.0 bpm 7,700 psi 134 bbls gone (injection leveling at 7,700 psi) 3.5 bpm 7,750 psi 140 bbl gone (brought rate up .5 / 50 psi increase / injection) 4.25 bpm 8,000 psi 152 bbl gone (max rate here / pressure level) - dropped rate to catch gear / appeared to close formation to some extent / psi increased) 3.5 bpm 8,000 psi 160 bbls gone (SD / injection complete) 23:00 Isolate annulus, resume circulation through choke manifold on CT only at 1 bpm in 1 bpm out / 5,500 CP / 5,450 WH 23:10 Call engr / discuss max rate 4.25 bpm / 8,000 psi / 500 gal 15% HCL pumped / no visible break due to acid, prep to POOH
23:15	0.75	COIL	CTR			0		POOH, PU weight from 20,300 36K / 2,700 hyd psi, continue POOH at report time
Total	24.00							

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
11/01/2017 02:15	COIL TUBING PARTNERS LLC		0.00	CTR	EN		0.00	0.75		
Description: Crew installed backup deboosters, it leaked, rebuilt and placed back on flowcross on BOP's						Title: Rebuild deboosters on flow cross				
Total							0.00	0.75		