

EP WELLS DAILY OPERATIONS REPORT

Report 9

04/16/2018

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 19 PW UNIT 1804H
Wellbore	UNIVERSITY 19 PW UNIT 1804H
WBS No/API No	30274449 / 4230133264.00

Event Summary

Event Type	Completion only	Event Start Date	12/06/2017	Days on Location	9.00
Objective	Install Completion	Original Spud Date	08/10/2017		
Est. Days	65.00	Contractor	PERMIAN WELL SVC		
Work Unit	PERMIAN COMPLETIONS	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	Mike Johnson/ Mike Reber	Measured Depth(ft)	
Engineer	Lindy Byerly	TVD(ft)	
Other Supervisor	Eric Brunet	24 Hr Progress(ft)	
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,788.55 / 2,762.90	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	295,577/4,979,691	Current MW / BH EMW(ppg)	/
Actual divided by AFE	0.06	LOT/FIT EMW(ppg)	
Daily Cost	107,994	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=312							
Driving Hours = 26							

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	8

Operations Summary

24 Hour Summary
Rih with Coil & TTS perforator tag Toe Sleeve drop ball open perforator, establish injection rate,
Update Since Report Time
Continue to rih With perforator assembly
24 Hour Forecast
RDMO location job complete

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04/16/2018

Well UNIVERSITY 19 PW UNIT 1804H
Wellbore UNIVERSITY 19 PW UNIT 1804H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description															
0:00	0.50	PREW	RUF			0		CTP at 19,630' Continue in hole at 8 to 10 fpm Pump Press= 6600 psi Rate= 3.250 bpm WHP= 2000 psi															
0:30	2.50	PREW	RUF			0		0100: 19,740' check p/u weight clean p/u wt was 55k CTP 19,742' increase pump rate Continue in hole 8 to 10 fpm Rate = 3.75 bpm Pump Press= 6400 psi WHP= 2000 psi FR=.25 gal per 10 bbls. pop .5 w/ 5 bbls slug every 30 min															
3:00	1.50	PREW	RUF			0		CTP at 21,000' Rate = 4 bpm Pump press=6800 psi WHP= 2000 psi FR=.25 gal per 10 bbls. pop .5 w/ 5 bbls slug every 30 min															
4:30	1.00	PREW	RUF			0		Ctp at 21,500' Continue in hole 8 to 10 fpm Rate = 4 bpm Pump press=6800 psi WHP= 1800 psi FR=.25 gal per 10 bbls. pop .5 w/ 5 bbls slug every 30 min															
5:30	0.50	PREW	RUF			0		PJSM, make plan, UnCAAP with CT spvsr, 4 focals, trapped pressure, acid, review JSA's and open permits															
6:00	12.50	PREW	RUF			0		06:45 22,063' depth, RIH at 2'-6' ftm, -6K RIH weight, 4.0 bpm / 6,250 psi CP / 1,800 WH / bbl in bbl out / mixing FR at .15 gal, and x2 POP 5 bbls slugs 08:30 Tag sleeve at 22,241 CTM (22,255' MD), drop rate to 1.0 bpm, PU at 78K and recover 11' of stretch, SD at 22,230' CTM, review engr perforation design, pump 10/10/10 per SOP 15 min earlier, and note sleeve at 22,230 CTM. 11:00 Gel sweep to surface, SD, PAUSE, make plan to check injection as follows 11:30 Confirm 9/16" ball, load and drop at reel valve, bring to 1,200 psi and launch ball at 3 bpm / 6,600 psi CP / 2700 WH, isolate 2" 12:45 Pump 60 bbls, reduce rate to 1.0 bpm and seat ball at 89 bbls (90 bbls reel capacity), perforating tool shifted at 7,125 psi, bring rate to 3 bpm / 6,000 psi / 2,600 psi and confirm tools open 12:55 SD, isolate and bleed 2" line, remove screen from inline, bring rate up and pressure test line to 7,500 psi while lined up on sleeve / good test / monitor if sleeve bleeds down, sleeve bleeds 200 psi to 7,200 pisi in 5 min. 13:20 On depth with 2-3/8" as follows NOTE Initial tag 22,241' CTM (22,255' MD), recover string at 22,230, tool standoff 19', PU 33' per engr design (52' off 22,255' MD) as follows <table><tr><td>CTM</td><td>Per Prog</td><td></td></tr><tr><td>22,197' Cut 1</td><td>22,205'</td><td>52'</td></tr><tr><td>22,152' Cut 2</td><td>22,160'</td><td>45'</td></tr><tr><td>22,107' Cut 3</td><td>22,115'</td><td>45'</td></tr><tr><td>22,062' Cut 4</td><td>22,070'</td><td>45'</td></tr></table> TTS load hopper with 2,600# 100 mesh sand, set rate to 3 bpm / 6,700 psi CP / 2850 WH Mix gel in hopper and set FR at .25 gal / 10 bbls, mix 63# of sand every 1 min, sand mixed as planned 14:25 Started 10/10/10 and chased 2,600# of 100 mesh during cut, reset counter, pumping 3.7 bpm / 6,500 psi / 2,750 psi, pump 165 bbls of 551 bbls and slow rate to 2.0 bpm NOTE: Curbside pump overheating, SD, reduce rate on driver side pump also overheating to 2.0 bpm, temp maintaining at 214	CTM	Per Prog		22,197' Cut 1	22,205'	52'	22,152' Cut 2	22,160'	45'	22,107' Cut 3	22,115'	45'	22,062' Cut 4	22,070'	45'
CTM	Per Prog																						
22,197' Cut 1	22,205'	52'																					
22,152' Cut 2	22,160'	45'																					
22,107' Cut 3	22,115'	45'																					
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04/16/2018

Well UNIVERSITY 19 PW UNIT 1804H
Wellbore UNIVERSITY 19 PW UNIT 1804H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								degrees. NOTE: RU air and blow fins clear of dust and dirt, dust extremely heavy (winds very high previous day), still running hot, but less. 17:30 Rate 3.5 bpm / 490 bbls gone / 6,500 psi CP / bottoms up at pit, SD 18:15 SD,
18:30	0.25	PREW	RUF			0		Walk lines and verify correct line up to establish injection rate pumping down coil and casing bring pump on line at 2 bpm Increase rate to 4 bpm pumped 25 bbls pressure at 7400 psi. shut down pumps and monitor well pressure dropped 1800 psi in 14 mins 5600 psi. prep for acid job
18:45	0.25	PREW	RUF			0		Pause and have PJSM with all crews for acid job
19:00	1.00	PREW	RUF			0		Walk line and verify line up for acid job bring pumps on line and circulate 24 bbls of acid into coil tubing reel and displace to whip in of coil 66 bbls behind acid S/I back side and inject acid into formation injection rate of 3 bpm ct pressure increase to 8200 psi slowed pump rate down to 2 bpm and monitored pressure which ct press increased to 8200 psi slowed rate down to 1.5 bpm and monitored pressure while last 10 bbls of acid is being injected into formation at a ct pressure of 7400 psi WHP = 6400 psi though out injection process.
20:00	0.83	PREW	RUF			0		Halliburton line up to backside bring Hall. on line at 3 bpm with CTP at 1.5 bpm in coil 4.5 bpm Injection Press= 6570 psi Increase Hall pump to 4 bpm with CTP pumping at 1.5 bpm 5.5 bpm Injection Press= 6863 psi Increase Hall pump to 5 bpm with CTP pumping at 1.5 bpm 6.5 bpm Injection Press= 7000 psi and falling off slowly to 6800 psi flushed lateral with 250 bbls behind acid
20:50	0.42	PREW	RUF			0		250 bbls flush complete bring Hall pump off line and then CTP pump off line and monitor well in 10 min ISIP = 5781 psi
21:15	2.75	PREW	RUF			0		POOH with CTP pumping 1 bpm maintaining 4000 psi on choke bbl in bbl out.
Total	24.00							

06.00 Update

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Description
0:00	1.50	PREW	RUF			0	POOH with CTP pumping 1 bpm maintaining 4000 psi on choke bbl in bbl out.
1:30	1.00	PREW	RUF			0	CTP at 10,700' shut down pumps and shut in backside. Walk line and line up to pump down CT and Backside with CTP pump. Bring pump on line at 3 bpm injection pressure 5800 psi increase Rate to 4 bpm injection pressure is 6000 psi continue to pump at 4 bpm and flush lateral 1.5 times the volume shut down pumps and monitor pressure in ten min pressure bleed down to 5200 psi
2:30		PREW	RUF			0	Lateral flush complete 250 bbls pumped Shut down pumps and monitor pressure in ten min pressure bleed down to 5200 psi Continue to pooh with CTP monitor pressure and and keeping hole full bbl in bbl out

EP WELLS DAILY OPERATIONS REPORT

Report 10

04/17/2018

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 19 PW UNIT 1804H
Wellbore	UNIVERSITY 19 PW UNIT 1804H
WBS No/API No	30274449 / 4230133264.00

Event Summary

Event Type	Completion only	Event Start Date	12/06/2017	Days on Location	10.00
Objective	Install Completion	Original Spud Date	08/10/2017		
Est. Days	65.00	Contractor	PERMIAN WELL SVC		
Work Unit	PERMIAN COMPLETIONS	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	Mike Johnson/ Mike Reber	Measured Depth(ft)	
Engineer	Lindy Byerly	TVD(ft)	
Other Supervisor	Eric Brunet	24 Hr Progress(ft)	
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,788.55 / 2,762.90	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	395,964/4,979,691	Current MW / BH EMW(ppg)	/
Actual divided by AFE	0.08	LOT/FIT EMW(ppg)	
Daily Cost	84,931	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:							
7 JSA'S 6 SAFEWORK PERMITS 23 EE'S							

HSE Drills

Drills/Tests	Date	Days Since Last		
Last Derrick Inspection			JSA's/Toolbox Talks	7
Last BOP function test			Days Since Last Drill	9
Last BOP Test				
Next BOP Test				

Operations Summary

24 Hour Summary
RDMO CTP, RIG UP REMAINDER OF FRAC TREE AND TEST
Update Since Report Time
Job Complete, FRAC TREE INSTALLED AND TESTED.
24 Hour Forecast
Job Complete MOVE IN RIG UP FRAC. EQUIP.

EP WELLS DAILY OPERATIONS REPORT

Report 10

04/17/2018

Well UNIVERSITY 19 PW UNIT 1804H
Wellbore UNIVERSITY 19 PW UNIT 1804H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	1.50	PREW	ROC			0		POOH with CTP pumping 1 bpm mainaining 4000 psi on choke bbl in bbl out.
1:30	1.00	PREW	ROC			0		CTP at 10,700' shut down pumps and shut in backside. Walk line and line up to pump down CT and Backside with CTP pump. Bring pump on line at 3 bpm injection pressure 5800 psi increase Rate to 4 bpm injection pressure is 6000 psi continue to pump at 4 bpm and flush lateral 1.5 times the volume shut down pumps and monitor pressure in ten min pressure bleed down to 5200 psi
2:30	2.00	PREW	ROC			0		Lateral flush complete 250 bbls pumped Shut down pumps and monitor pressure in ten min pressure bleed down to 5200 psi Continue to pooh with CTP monitor pressure and and keeping hole full bbl in bbl out
4:30	0.50	PREW	ROC			0		CTP ooh Bumped up Shut well and bleed off pressure Pause discuss breaking lub and removing BHA perform SWS and dis cuss hazards
5:00	0.50	PREW	ROC			0		Break tools and M/U injector Back to Bop's to blow reel dry
5:30	0.50	PREW	ROC			0		PJSM with crews review Uncaap, focus areas, nitrogen hazards
6:00	4.00	PREW	ROC			0		CTP displacing fluid from reel with nitrogen then rig down equipment 06:10 Continue RD Emerald, reel blowing dry to gas buster, pumping 1,200 scf/min / 1600 psi, 30,000 scf, SD, dissipate, open reel valve and dump final gas. 07:45 PAUSE, 12 questions, make plan, BD lube and rack back injector.
10:00	1.75	PREW	ROC			0		CONTINUE RIGGING DOWN COILED TUBING EQUIP. PAUSE, make plan, SAFETY MEETING , JSA AND UNCAAP REVIEW.
11:45	3.75	PREW	ROC			0		RIG UP CRANE, NU REMAINDER OF FRAC TREE. AND TEST.
15:30	1.00	PREW	ROC			0		RIG UP AND PRESSURE TEST TREE TO 500 PSI. LOW AND 10,000 PSI. HIGH SI AND SECURE WELL READY FOR FRAC.
16:30	5.50	PREW	OPO			0		Rig up water transfer lines for frac.
22:00	2.00	PREW	OPO			0		MIRU frac spread. Began staging equipment onto pad.
Total	24.00							

06.00 Update

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Description
0:00	2.50	FRAC	RIF			0	Rig in backside of frac spread.
2:30	1.50	FRAC	RIF			0	Spot missle, move in one set of pumps. Spot sandboxes.
4:00	1.00	FRAC	RIF			0	Bring in pumps as arrive from PM.

EP WELLS DAILY OPERATIONS REPORT

Report 11

04/18/2018

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 19 PW UNIT 1804H
Wellbore	UNIVERSITY 19 PW UNIT 1804H ST01
WBS No/API No	30274449 / 4230133264.01

Event Summary

Event Type	Completion only	Event Start Date	12/06/2017	Days on Location	11.00
Objective	Install Completion	Original Spud Date	08/10/2017		
Est. Days	65.00	Contractor	PERMIAN WELL SVC		
Work Unit	PERMIAN COMPLETIONS	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	Hank Persaud	Measured Depth(ft)	
Engineer	Lindy Byerly	TVD(ft)	
Other Supervisor	Andrew Veroba	24 Hr Progress(ft)	
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,788.55 / 2,762.90	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	406,629/4,979,691	Current MW / BH EMW(ppg)	/
Actual divided by AFE	0.08	LOT/FIT EMW(ppg)	
Daily Cost	10,666	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:							

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	10

Operations Summary

24 Hour Summary
MIRU frac
Update Since Report Time
Continue rig in.
24 Hour Forecast
Complete rig in.

EP WELLS DAILY OPERATIONS REPORT

Report 11

04/18/2018

Well UNIVERSITY 19 PW UNIT 1804H
Wellbore UNIVERSITY 19 PW UNIT 1804H ST01

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	2.50	FRAC	RIF			0		Rig in backside of frac spread.
2:30	1.50	FRAC	RIF			0		Spot missile, move in one set of pumps. Spot sandboxes.
4:00	14.00	FRAC	RIF			0		Bring in pumps as arrive from PM. Rig up iron to zipper.
18:00	6.00	FRAC	RIF			0		Install 4" to 3" changovers to goat head and zipper. Rig up risers to zipper and then to goat head. Connect bleed off line temporary pipework to pumping iron. Finish rigging in pumpdown.
Total	24.00							

06.00 Update

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Description
0:00	2.50	FRAC	RIF			0	Rig in boost pump, frac shack. Spot datavan. Install transducer lines. Change out iron based on walk the lines. Prepare chemical area.
2:30	3.50	FRAC	RIF			0	Lease watch. Perform lease cleanup and inspection.

EP WELLS DAILY OPERATIONS REPORT

Report 12

04/19/2018

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 19 PW UNIT 1804H
Wellbore	UNIVERSITY 19 PW UNIT 1804H ST01
WBS No/API No	30274449 / 4230133264.01

Event Summary

Event Type	Completion only	Event Start Date	12/06/2017	Days on Location	12.00
Objective	Install Completion	Original Spud Date	08/10/2017		
Est. Days	65.00	Contractor	PERMIAN WELL SVC		
Work Unit	PERMIAN COMPLETIONS	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	Hank Persaud	Measured Depth(ft)	
Engineer	Lindy Byerly	TVD(ft)	
Other Supervisor	Andrew Veroba	24 Hr Progress(ft)	
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,788.55 / 2,762.90	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	433,769/4,979,691	Current MW / BH EMW(ppg)	/
Actual divided by AFE	0.09	LOT/FIT EMW(ppg)	
Daily Cost	24,369	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:							

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	11

Operations Summary

24 Hour Summary
MIRU frac.
Update Since Report Time
Repairing walk the line deficiencies.
24 Hour Forecast
Begin frac operations.

EP WELLS DAILY OPERATIONS REPORT

Report 12

04/19/2018

Well UNIVERSITY 19 PW UNIT 1804H
Wellbore UNIVERSITY 19 PW UNIT 1804H ST01

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	2.50	FRAC	RIF			0		Rig in boost pump, frac shack. Spot datavan. Install transducer lines. Change out iron based on walk the lines. Prepare chemical area.
2:30	3.50	FRAC	RIF			0		Lease watch. Perform lease cleanup and inspection.
6:00	12.00	FRAC	RIF			0		Perform dry-ice radiator cleaning. Install restraints. Bucket check chems.
18:00	4.50	FRAC	RIF			0		Continue installing restraints.
22:30	1.50	FRAC	RIF			0		Wireline on location MIRU wireline. Install riglock system. 11:30 Walk the line with frac supervisor. Request deficiencies repaired.
Total	24.00							

06.00 Update

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Description
0:00	1.00	FRAC	RIF			0	Continue installing riglock system and rigging in wireline.
1:00	1.00	FRAC	RIF			0	Frac fire up and final check equipment. Continue rigging in wireline.
2:00	0.83	FRAC	RIF			0	Held pause. Prime pumps.
2:50	0.50	FRAC	RIF			0	Noted leak while priming @ 7-1/16 10kpsi flange on zipper manifold.
3:20		FRAC	RIF			0	Clear area and pressure test.

EP WELLS DAILY OPERATIONS REPORT

Report 13

04/20/2018

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 19 PW UNIT 1804H
Wellbore	UNIVERSITY 19 PW UNIT 1804H ST01
WBS No/API No	30274449 / 4230133264.01

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Est. Days	65.00	Contractor	PERMIAN WELL SVC		
Work Unit	PERMIAN COMPLETIONS	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	Hank Persaud	Measured Depth(ft)	
Engineer	Lindy Byerly	TVD(ft)	
Other Supervisor	Andrew Veroba	24 Hr Progress(ft)	
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,788.55 / 2,762.90	Hole size(in)	
THF Datum			
Daily NPT(hr/%)	11.50/47.92	Last Casing MD	
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	
Actual cost to date/AFE	527,398/4,979,691	Current MW / BH EMW(ppg)	/
Actual divided by AFE	0.11	LOT/FIT EMW(ppg)	
Daily Cost	93,788	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:							

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	12

Operations Summary

24 Hour Summary
Frac stage #1.
Update Since Report Time
NPT wireline, plug did not set.
24 Hour Forecast
Continue frac operations.

EP WELLS DAILY OPERATIONS REPORT

Report 13

04/20/2018

Well UNIVERSITY 19 PW UNIT 1804H
Wellbore UNIVERSITY 19 PW UNIT 1804H ST01

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	1.00	FRAC	RIF			0		Continue installing riglock system and rigging in wireline.
1:00	1.00	FRAC	RIF			0		Frac fire up and final check equipment. Continue rigging in wireline.
2:00	0.83	FRAC	RIF			0		Held pause. Prime pumps.
2:50	0.50	FRAC	RIF			1		Noted leak while priming @ 7-1/16 10kpsi flange on zipper manifold.
3:20	1.33	FRAC	RIF			0		Clear area and pressure test. Repair leaks and troubleshoot. Pressure test passed.
4:40	1.83	FRAC	RIF			1		During pressure test, a hole in the blender tub was noted. Stop operation and rig out blender. Wireline continue rigging in. Witness BOP function.
6:30	0.58	FRAC	RIF			0		*** End NPT (STIM) on Keane Frac at 0630 *** Pressure test 1803 to 9500 psi. Bleed down. Swap zipper. Equalize.
7:05	3.50	FRAC	FRT			0		University 19 PW Unit 1804H Stage 1 Summary Interval 22062 - 22197 Open Well Pressure 4,371 psi Max Treating Pressure 8,379 psi Max Slurry Rate 57.0 bpm Average Treating Pressure 8,075 psi Average Slurry Rate 55.2 bpm Breakdown Pressure 7,923 psi Breakdown Rate 20 bpm Breakdown Volume 27 gal Avg HHP 10,925 hp Final ISIP 5,181 psi Frac Gradient 0.879 psi/ft Pad Volume 9,660 gal Main Body Volume 366,610 gal Flush Volume 63,210 gal 100 M A-Z Sand Pumped 0 lbs 100 M Brown Sand Pumped 40,540 lbs 100 M White Sand Pumped 370,440 lbs Proppant in Formation 410,980 lbs Avg Proppant Concentration 1.45 lb/gal Max Proppant Concentration 2.00 lb/gal Load to Recover (incl. pumpdown) 8,729 bbls Load to Recover w/o Acid 8,705 bbls 15% HCL Spearhead 1,011 gal Slickwater Fluid Pumped 8,625 bbls 20# Linear Fluid Pumped 80 bbls Diverter Slurry 0 bbls 20# Crosslink Fluid Pumped 0 bbls Pump down volume 0 bbls Pump down rate 0.0 bpm Max pump down pressure 0 psi Fluid Temp 72.0 ?F Total Pump Time 3:26 hr:min Pumps Lost During Job 3 Treatment Start Time 7:06 0:00 0:00 Treatment End Time 10:33 0:00 0:00 - Proppant pumped as 0.50 PPA steps from 0.50 - 2.00 PPA before the pumps shut off. Once we got back into the stage we flushed the well and pumped the proppant in 0.50 PPA steps from 0.50 - 3.00 PPA. - Pumped 2 - 500 gal shots of 15% HCL. - 2 - 20# gel sweeps were pumped prior to flush. - Perfs were jet cut. - Pumps dropped out for no apparent reason during 2.00 PPA sand. The data van Fracpro screen also froze before the pumps dropped out.

EP WELLS DAILY OPERATIONS REPORT

Report 13

04/20/2018

Well UNIVERSITY 19 PW UNIT 1804H
Wellbore UNIVERSITY 19 PW UNIT 1804H ST01

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								Time for Prop on Perfs 49.0 minutes Time between Stages (TBF) 7:06 hrs/min
10:35	9.17	FRAC	FWL			1		Other pad ops. Wind speed too high for wireline ops.
19:45	2.50	FRAC	FWL			0		Held pause. Pick up PCE and stab on tool trap, flow cross and BOP's. Check fire. Connect toolstring. Lay back down and scope out additional 1/2 section. Pick back up and stab on well. 21:13 Pressure test fail. Set down and inspect/repair BOP manifold to grease injection port. 21:40 Pressure test lubricator to 500 psi 5 min low and 9500 psi 10 min high. 22:15 Open well with 4000 psi.
22:15	1.45	FRAC	WLT			0		RIH to liner top. Correlate and pump into position.
23:42	0.30	FRAC	WLT			0		***MISRUN*** In position for stage #2 plug. Switch gone but no indications of plug set. Pulled up 2 x collars and pumped back down. No plug tagged. Logged out of hole to liner top.
Total	24.00							

06.00 Update

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Description
0:00	3.58	FRAC	WLT			0	Continue logging out of hole until liner top. POOH at Boss Hog max speed.
3:35	1.23	FRAC	WLT			0	At surface. Change out toolstring and inspect root cause. Simultaneously pump wellbore flush. Make up new string. 4:43 Pressure test to 8000 psi 4:49 Open well at 4700 psi
4:49		FRAC	WLT			0	

EP WELLS DAILY OPERATIONS REPORT

Report 13

04/20/2018

Well UNIVERSITY 19 PW UNIT 1804H
Wellbore UNIVERSITY 19 PW UNIT 1804H ST01

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
04/20/2018 02:50	PRO OILFIELD SERVICES LLC	Stimulation		RIF	EN	High Pressure Pipework		0.50	1	OPEN
Description: While priming pumps, noted leak at 7-1/16" 10kpsi flange connection on zipper manifold. Flange was not torqued up properly on one side. Torque crew torqued.						Title: Zipper manifold leak.				
04/20/2018 04:40	KEANE FRAC TX LLC	Stimulation		RIF	EN	Frac Blender		1.83	1	OPEN
Description: Hole in blender tub. Cause not determined at this time. Swap out blender.						Title: Hole in blender tub.				
04/20/2018 10:35	SHELL	Wait On Weather		FWL	N			9.17	1	OPEN
Description: High wind speeds. Productive time adjustment until stage 01 end on 1803H well.						Title: WOW				
04/20/2018 23:42	KEANE FRAC TX LLC	Perforation		WLT	EN		0.00	0.00		
Description: In position for tage #2 plug. Switch gone but no indications of plug set. Pulled up 2 x collars and pumped back down. No plug tagged.						Title: ***MISRUN*** Plug did not set.				
Total							0.00	11.50		

EP WELLS DAILY OPERATIONS REPORT

Report 14

04/21/2018

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 19 PW UNIT 1804H
Wellbore	UNIVERSITY 19 PW UNIT 1804H ST01
WBS No/API No	30274449 / 4230133264.01

Event Summary

Event Type	Completion only	Event Start Date	12/06/2017	Days on Location	14.00
Objective	Install Completion	Original Spud Date	08/10/2017		
Est. Days	65.00	Contractor	PERMIAN WELL SVC		
Work Unit	PERMIAN COMPLETIONS	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	Hank Persaud	Measured Depth(ft)	
Engineer	Lindy Byerly	TVD(ft)	
Other Supervisor	Andrew Veroba	24 Hr Progress(ft)	
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,788.55 / 2,762.90	Hole size(in)	
THF Datum			
Daily NPT(hr/%)	8.17/34.03	Last Casing MD	
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	
Actual cost to date/AFE	710,176/4,979,691	Current MW / BH EMW(ppg)	/
Actual divided by AFE	0.14	LOT/FIT EMW(ppg)	
Daily Cost	178,635	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:							

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	13

Operations Summary

24 Hour Summary
Frac stages 2,3
Update Since Report Time
Ready for stage 4
24 Hour Forecast
Continue frac operations.

EP WELLS DAILY OPERATIONS REPORT

Report 14

04/21/2018

Well UNIVERSITY 19 PW UNIT 1804H
Wellbore UNIVERSITY 19 PW UNIT 1804H ST01

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	3.58	FRAC	WLT			1		Continue logging out of hole until liner top. POOH at Boss Hog max speed.
3:35	1.23	FRAC	WLT			1		At surface. Change out toolstring and inspect root cause. Simultaneously pump wellbore flush. Make up new string. 4:43 Pressure test to 8000 psi 4:49 Open well at 4700 psi
4:49	1.10	FRAC	WLT			1		RIH
5:55	1.33	FRAC	WLT			0		*** End NPT (PERF) on Keane WL at 0555 *** 5:55 "Stage #2 Plug and Perf. RIH with (4) 1' Keane guns: 2.75" OD HSC at 6 SPF with 60° phased perforating guns and Downhole Technology Boss Hog composite ball drop frac plug. Set plug @ 22040' Perforate as follows: 22025' - 22026' 21980' - 21981' 21935' - 21936' 21890' - 21891' Stabilized pressure after perf.: 4930 psi Maximum pump down rate: 9 bpm Pump down volume: 271 bbl" 6:00 POOH
7:15	0.33	FRAC	GRS			0		Grease UMV (live) and LMV.
7:35	0.13	FRAC	WLF			0		7:35 Shut in well with 4200 psi. 7:43 Handover well to frac.
7:43	0.28	FRAC	WLF			0		Other pad ops.
8:00	2.67	FRAC	FRT			0		University 19 PW Unit 1804H Stage 2 Summary Interval 21890 - 22026 Open Well Pressure 4,100 psi Max Treating Pressure 8,621 psi Max Slurry Rate 58.2 bpm Average Treating Pressure 8,316 psi Average Slurry Rate 52.8 bpm Breakdown Pressure 7,209 psi Breakdown Rate 10 bpm Breakdown Volume 458 gal Avg HHP 10,762 hp Final ISIP 5,440 psi Frac Gradient 0.901 psi/ft Pad Volume 21,126 gal Main Body Volume 275,096 gal Flush Volume 30,618 gal 100 M A-Z Sand Pumped 0 lbs 100 M Brown Sand Pumped 20,580 lbs 100 M White Sand Pumped 402,040 lbs Proppant in Formation 422,620 lbs Avg Proppant Concentration 1.96 lb/gal Max Proppant Concentration 3.50 lb/gal Load to Recover (incl. pumpdown) 7,871 bbls Load to Recover w/o Acid 7,859 bbls 15% HCL Spearhead 484 gal Slickwater Fluid Pumped 6,458 bbls 20# Linear Fluid Pumped 80 bbls Diverter Slurry 0 bbls 20# Crosslink Fluid Pumped 0 bbls Pump down volume 1,321 bbls Pump down rate 9.0 bpm Max pump down pressure 7,046 psi Fluid Temp 72.0 ?F

EP WELLS DAILY OPERATIONS REPORT

Report 14

04/21/2018

Well UNIVERSITY 19 PW UNIT 1804H
Wellbore UNIVERSITY 19 PW UNIT 1804H ST01

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								Total Pump Time 2:39 hr:min Pumps Lost During Job 0 Treatment Start Time 8:00 0:00 0:00 Treatment End Time 10:40 0:00 0:00 - Proppant was pumped in 0.50 PPA steps from 0.50 - 3.50 PPA. - Pumped 1 - 500 gal shots of 15% HCl. - 2 - 20# gel sweeps were pumped prior to flush. - Prior to the stage a well bore flush was pumped for wireline, chemical volumes are included on this ticket and water volume will be added to the PD volume. Time for Prop on Perfs 51.0 minutes Time between Stages (TBF) 13:30 hrs/min
10:40	0.80	FRAC	FWL			0		Other pad ops.
11:28	0.28	FRAC	FWL			0		11:28 Handover well to wireline. 11:45 Pressure test lubricator to 8000 psi.
11:45	2.25	FRAC	WLT			1		*** Start NPT (PERF) on Keane WL at 1145 *** Issues with logger software. Rectify. *** End NPT (PERF) on Keane WL at 1400 ***
14:00	2.17	FRAC	WLT			0		14:00 Open well with 4550 psi. 15:05 "Stage #3 Plug and Perf. RIH with (4) 1' Keane guns: 2.75" OD HSC at 6 SPF with 60° phased perforating guns and Downhole Technology Boss Hog composite ball-in-place frac plug. Set plug @ 21870' Perforate as follows: 21845' - 21846' 21800' - 21801' 21755' - 21756' 21710' - 21711' Stabilized pressure after perf.: 5500 psi Maximum pump down rate: 11 bpm Pump down volume: 258 bbl" 15:10 POOH
16:10	0.13	FRAC	WLF			0		16:10 Shut in well with 4300 psi. 16:18 Handover well to frac.
16:18	0.78	FRAC	WLF			0		Other pad ops.
17:05	2.03	FRAC	FRT			0		University 19 PW Unit 1804H Stage 3 Summary Interval 21710 - 21846 Open Well Pressure 5,104 psi Max Treating Pressure 9,200 psi Max Slurry Rate 56.1 bpm Average Treating Pressure 8,636 psi Average Slurry Rate 45.3 bpm Breakdown Pressure 7,997 psi Breakdown Rate 5 bpm Breakdown Volume 4 gal Avg HHP 9,589 hp Final ISIP 5,447 psi Frac Gradient 0.902 psi/ft Pad Volume 3,780 gal Main Body Volume 190,174 gal Flush Volume 30,576 gal 100 M A-Z Sand Pumped 0 lbs 100 M Brown Sand Pumped 20,010 lbs 100 M White Sand Pumped 400,220 lbs Proppant in Formation 420,230 lbs Avg Proppant Concentration 2.82 lb/gal

EP WELLS DAILY OPERATIONS REPORT

Report 14

04/21/2018

Well UNIVERSITY 19 PW UNIT 1804H
Wellbore UNIVERSITY 19 PW UNIT 1804H ST01

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								Max Proppant Concentration 3.50 lb/gal Load to Recover (incl. pumpdown) 4,786 bbls Load to Recover w/o Acid 4,780 bbls 15% HCL Spearhead 258 gal Slickwater Fluid Pumped 4,442 bbls 20# Linear Fluid Pumped 80 bbls Diverter Slurry 0 bbls 20# Crosslink Fluid Pumped 0 bbls Pump down volume 258 bbls Pump down rate 11.0 bpm Max pump down pressure 6,420 psi Fluid Temp 72.0 ?F Total Pump Time 1:59 hr:min Pumps Lost During Job 0 Treatment Start Time 17:06 0:00 0:00 Treatment End Time 19:06 0:00 0:00 - Proppant was pumped as a ramp from 0.50 - 3.00 PPA, then as holds of 3.00 & 3.50 PPA. - Pumped 1 - 250 gal shot of 15% HCl. - 2 - 20# gel sweeps were pumped prior to flush. - Ball in place plug was utilized. Time for Prop on Perfs 37.0 minutes Time between Stages (TBF) 2:58 hrs/min
19:07	0.78	FRAC	FWL			0		Handover well to wireline. Other pad ops.
19:54	0.50	FRAC	FWL			0		Wireline lay down PCE, change out rubber elements in pack off. Elements showed signs of wear. Note: review held with crew on management of packoff pressures and lubrication.
20:24	0.85	FRAC	FWL			0		Pick up PCE. Grease cablehead and weightbars (as per greaseless procedure). Check fire. P/U tools and stab on well. 19:07 Handover well to wireline. 21:07 Pressure test lubricator to 8000 psi. 21:15 Open well with 4700 psi.
21:15	2.08	FRAC	WLT			0		22:16 "Stage #4 Plug and Perf. RIH with (4) 1' Keane guns: 2.75" OD HSC at 6 SPF with 60° phased perforating guns and Downhole Technology Boss Hog composite ball-in-place frac plug. Set plug @ 21690' Perforate as follows: 21665' - 21666' 21620' - 21621' 21575' - 21576' 21530' - 21531' Stabilized pressure after perf.: 5339 psi Maximum pump down rate: 11 bpm Pump down volume: 245 bbl" 22:25 POOH
23:20	0.28	FRAC	WLF			0		23:20 Shut in well with 4700 psi. 23:25 Grease wing valves. 23:35 Handover well to frac.
23:37	0.38	FRAC	FRT			0		Frac stage 4.
Total	24.00							

06.00 Update

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Description
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EP WELLS DAILY OPERATIONS REPORT

Report 14

04/21/2018

Well UNIVERSITY 19 PW UNIT 1804H
Wellbore UNIVERSITY 19 PW UNIT 1804H ST01

06.00 Update

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Description
0:00	1.90	FRAC	FRT			0	<p>University 19 PW Unit 1804H Stage 4 Summary</p> <p>Interval 21530 - 21666</p> <p>Open Well Pressure 4,675 psi</p> <p>Max Treating Pressure 9,397 psi</p> <p>Max Slurry Rate 54.9 bpm</p> <p>Average Treating Pressure 8,953 psi</p> <p>Average Slurry Rate 47.9 bpm</p> <p>Breakdown Pressure 8,359 psi</p> <p>Breakdown Rate 5 bpm</p> <p>Breakdown Volume 4 gal</p> <p>Avg HHP 10,511 hp</p> <p>Final ISIP 5,394 psi</p> <p>Frac Gradient 0.898 psi/ft</p> <p>Pad Volume 24,654 gal</p> <p>Main Body Volume 211,592 gal</p> <p>Flush Volume 30,324 gal</p> <p>100 MA-Z Sand Pumped 0 lbs</p> <p>100 M Brown Sand Pumped 0 lbs</p> <p>100 M White Sand Pumped 413,930 lbs</p> <p>Proppant in Formation 413,930 lbs</p> <p>Avg Proppant Concentration 2.76 lb/gal</p> <p>Max Proppant Concentration 3.50 lb/gal</p> <p>Load to Recover (incl. pumpdown) 5,283 bbls</p> <p>Load to Recover w/o Acid 5,277 bbls</p> <p>15% HCL Spearhead 263 gal</p> <p>Slickwater Fluid Pumped 4,952 bbls</p> <p>20# Linear Fluid Pumped 80 bbls</p> <p>Diverter Slurry 0 bbls</p> <p>20# Crosslink Fluid Pumped 0 bbls</p> <p>Pump down volume 245 bbls</p> <p>Pump down rate 11.0 bpm</p> <p>Max pump down pressure 6,255 psi</p> <p>Fluid Temp 72.0 ?F</p> <p>Total Pump Time 2:15 hr:min</p> <p>Pumps Lost During Job 0</p> <p>Treatment Start Time 23:38 0:00 0:00</p> <p>Treatment End Time 1:54 0:00 0:00</p> <p>- Proppant was pumped as a ramp from 0.50 - 3.00 PPA, then as holds of 3.00 & 3.50 PPA.</p> <p>- Pumped 1 - 250 gal shot of 15% HCl.</p> <p>- 2 - 20# gel sweeps were pumped prior to flush.</p> <p>- Ball in place plug was utilized.</p> <p>Time for Prop on Perfs 45.0 minutes</p> <p>Time between Stages (TBF) 2:05 hrs/min</p>
1:54	0.25	FRAC	FWL			0	<p>1:55 Handover well to wireline.</p> <p>2:04 Pressure test lubricator to 8000 psi.</p> <p>2:09 Open well with 5100 psi.</p>
2:09	0.60	FRAC	WLT			0	RIH. Tie into liner top.
2:45	0.83	FRAC	WLT			0	<p>***MISRUN***</p> <p>At liner top, perform switch check. Cannot see anything below release tool.</p> <p>POOH at Boss Hog max speed 250 ft/min.</p>
3:35	0.47	FRAC	WLT			0	<p>Remove misrun string. Diagnose. Install new string.</p> <p>Pressure test to 8000 psi. Equalize and open well.</p>
4:03		FRAC	WLT			0	<p>200 ft switch check. IP switch for 4th gun and release tool are same.</p> <p>POOH.</p>

EP WELLS DAILY OPERATIONS REPORT

Report 14

04/21/2018

Well UNIVERSITY 19 PW UNIT 1804H
Wellbore UNIVERSITY 19 PW UNIT 1804H ST01

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
04/21/2018 11:45	KEANE FRAC TX LLC	Perforation		WLT	EN		0.00	2.25	1	
Description: Issues with logger software / hardware - rectify.						Title: Issues with logger software / hardware.				
Total							0.00	2.25		

EP WELLS DAILY OPERATIONS REPORT

Report 15

04/22/2018

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 19 PW UNIT 1804H
Wellbore	UNIVERSITY 19 PW UNIT 1804H ST01
WBS No/API No	30274449 / 4230133264.01

Event Summary

Event Type	Completion only	Event Start Date	12/06/2017	Days on Location	15.00
Objective	Install Completion	Original Spud Date	08/10/2017		
Est. Days	65.00	Contractor	PERMIAN WELL SVC		
Work Unit	PERMIAN COMPLETIONS	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	Hank Persaud	Measured Depth(ft)	
Engineer	Lindy Byerly	TVD(ft)	
Other Supervisor	Andrew Veroba	24 Hr Progress(ft)	
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,788.55 / 2,762.90	Hole size(in)	
THF Datum			
Daily NPT(hr/%)	2.58/10.76	Last Casing MD	
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	
Actual cost to date/AFE	1,006,370/4,979,691	Current MW / BH EMW(ppg)	/
Actual divided by AFE	0.20	LOT/FIT EMW(ppg)	
Daily Cost	296,174	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:							

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	14

Operations Summary

24 Hour Summary
Frac stages 4-7
Update Since Report Time
Other pad ops.
24 Hour Forecast
Continue frac ops.

EP WELLS DAILY OPERATIONS REPORT

Report 15

04/22/2018

Well UNIVERSITY 19 PW UNIT 1804H
Wellbore UNIVERSITY 19 PW UNIT 1804H ST01

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	1.90	FRAC	FRT			0		<p>University 19 PW Unit 1804H Stage 4 Summary</p> <p>Interval 21530 - 21664</p> <p>Open Well Pressure 4,675 psi</p> <p>Max Treating Pressure 9,397 psi</p> <p>Max Slurry Rate 54.9 bpm</p> <p>Average Treating Pressure 8,953 psi</p> <p>Average Slurry Rate 47.9 bpm</p> <p>Breakdown Pressure 8,359 psi</p> <p>Breakdown Rate 5 bpm</p> <p>Breakdown Volume 4 gal</p> <p>Avg HHP 10,511 hp</p> <p>Final ISIP 5,394 psi</p> <p>Frac Gradient 0.898 psi/ft</p> <p>Pad Volume 24,654 gal</p> <p>Main Body Volume 211,592 gal</p> <p>Flush Volume 30,324 gal</p> <p>100 M A-Z Sand Pumped 0 lbs</p> <p>100 M Brown Sand Pumped 0 lbs</p> <p>100 M White Sand Pumped 413,930 lbs</p> <p>Proppant in Formation 413,930 lbs</p> <p>Avg Proppant Concentration 2.76 lb/gal</p> <p>Max Proppant Concentration 3.50 lb/gal</p> <p>Load to Recover (incl. pumpdown) 5,283 bbls</p> <p>Load to Recover w/o Acid 5,277 bbls</p> <p>15% HCL Spearhead 263 gal</p> <p>Slickwater Fluid Pumped 4,952 bbls</p> <p>20# Linear Fluid Pumped 80 bbls</p> <p>Diverter Slurry 0 bbls</p> <p>20# Crosslink Fluid Pumped 0 bbls</p> <p>Pump down volume 245 bbls</p> <p>Pump down rate 11.0 bpm</p> <p>Max pump down pressure 6,255 psi</p> <p>Fluid Temp 72.0 ?F</p> <p>Total Pump Time 2:15 hr:min</p> <p>Pumps Lost During Job 0</p> <p>Treatment Start Time 23:38 0:00 0:00</p> <p>Treatment End Time 1:54 0:00 0:00</p> <p>- Proppant was pumped as a ramp from 0.50 - 3.00 PPA, then as holds of 3.00 & 3.50 PPA.</p> <p>- Pumped 1 - 250 gal shot of 15% HCL.</p> <p>- 2 - 20# gel sweeps were pumped prior to flush.</p> <p>- Ball in place plug was utilized.</p> <p>Time for Prop on Perfs 45.0 minutes</p> <p>Time between Stages (TBF) 2:05 hrs/min</p>
1:54	0.25	FRAC	FWL			0		<p>1:55 Handover well to wireline.</p> <p>2:04 Pressure test lubricator to 8000 psi.</p> <p>2:09 Open well with 5100 psi.</p>
2:09	0.60	FRAC	WLT			0		RIH. Tie into liner top.
2:45	0.83	FRAC	WLT			1		<p>***MISRUN***</p> <p>At liner top, perform switch check. Cannot see anything below release tool.</p> <p>POOH at Boss Hog max speed 250 ft/min.</p>
3:35	0.47	FRAC	WLT			1		<p>Remove misrun string. Diagnose. Install new string.</p> <p>Pressure test to 8000 psi. Equalize and open well.</p>
4:03	0.80	FRAC	WLT			2		<p>200 ft switch check. Consecutive switch conflict.</p> <p>IP switch for 4th gun and release tool are same.</p> <p>POOH. Change out perforating guns.</p>
4:51	0.48	FRAC	WLT			1		RIH and tie into liner top.
5:20	1.58	FRAC	WLT			0		<p>5:47 "Stage #5 Plug and Perf.</p> <p>RIH with (4) 1' Keane guns: 2.75" OD HSC at 6 SPF with 60° phased perforating guns and Downhole Technology Boss Hog composite ball-in-place frac plug.</p>

EP WELLS DAILY OPERATIONS REPORT

Report 15

04/22/2018

Well UNIVERSITY 19 PW UNIT 1804H
Wellbore UNIVERSITY 19 PW UNIT 1804H ST01

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								Set plug @ 21510' Perforate as follows: 21485' - 21486' 21440' - 21441' 21395' - 21396' 21350' - 21351' Stabilized pressure after perf.: 5161 psi Maximum pump down rate: 11 bpm Pump down volume: 223 bbl" 5:52 POOH
6:55	0.08	FRAC	GRS			0		Grease UMV (live).
7:00	0.10	FRAC	WLF			0		7:00 Shut in well with 4500 psi. 7:06 Handover well to frac.
7:06	0.73	FRAC	GRS			0		Grease LMV and both zipper legs.
7:50	2.08	FRAC	FRT			0		University 19 PW Unit 1804H Stage 5 Summary Interval 21350 - 21486 Open Well Pressure 4,719 psi Max Treating Pressure 9,104 psi Max Slurry Rate 51.5 bpm Average Treating Pressure 8,634 psi Average Slurry Rate 44.2 bpm Breakdown Pressure 7,680 psi Breakdown Rate 5 bpm Breakdown Volume 7 gal Avg HHP 9,354 hp Final ISIP 5,605 psi Frac Gradient 0.916 psi/ft Pad Volume 3,318 gal Main Body Volume 188,074 gal Flush Volume 30,198 gal 100 M A-Z Sand Pumped 0 lbs 100 M Brown Sand Pumped 39,960 lbs 100 M White Sand Pumped 389,500 lbs Proppant in Formation 429,460 lbs Avg Proppant Concentration 2.90 lb/gal Max Proppant Concentration 4.00 lb/gal Load to Recover (incl. pumpdown) 4,701 bbls Load to Recover w/o Acid 4,695 bbls 15% HCL Spearhead 267 gal Slickwater Fluid Pumped 4,392 bbls 20# Linear Fluid Pumped 80 bbls Diverter Slurry 0 bbls 20# Crosslink Fluid Pumped 0 bbls Pump down volume 223 bbls Pump down rate 11.0 bpm Max pump down pressure 6,232 psi Fluid Temp 72.0 ?F Total Pump Time 1:58 hr:min Pumps Lost During Job 0 Treatment Start Time 7:56 0:00 0:00 Treatment End Time 9:55 0:00 0:00 - Proppant was pumped as a ramp from 0.50 - 3.00 PPA, then as holds from 3.00 - 4.00 PPA in 0.50 PPA increments. - Pumped 1 - 250 gal shot of 15% HCL. - 2 - 20# gel sweeps were pumped prior to flush. - Ball in place plug was utilized. Time for Prop on Perfs 33.0 minutes Time between Stages (TBF) 4:12 hrs/min

EP WELLS DAILY OPERATIONS REPORT

Report 15

04/22/2018

Well UNIVERSITY 19 PW UNIT 1804H
Wellbore UNIVERSITY 19 PW UNIT 1804H ST01

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
9:55	0.32	FRAC	FWL			0		Other pad ops.
10:14	0.30	FRAC	FWL			0		10:14 Handover well to wireline. 10:26 Pressure test lubricator to 8000 psi. 10:32 Open well with 4950 psi.
10:32	2.25	FRAC	WLT			0		11:33 "Stage #6 Plug and Perf. RIH with (4) 1' Keane guns: 2.75" OD HSC at 6 SPF with 60° phased perforating guns and Downhole Technology Boss Hog composite ball drop frac plug. Set plug @ 21330' Perforate as follows: 21305' - 21306' 21260' - 21261' 21215' - 21216' 21170' - 21171' Stabilized pressure after perf.: 5300 psi Maximum pump down rate: 12 bpm Pump down volume: 246 bbl" 11:36 POOH
12:47	0.13	FRAC	WLF			0		12:47 Shut in well with 4500 psi. 12:55 Handover well to frac.
12:55	0.23	FRAC	WLF			0		Other pad ops.
13:09	2.00	FRAC	FRT			0		University 19 PW Unit 1804H Stage 6 Summary Interval 21170 - 21306 Open Well Pressure 4,632 psi Max Treating Pressure 9,105 psi Max Slurry Rate 55.0 bpm Average Treating Pressure 8,640 psi Average Slurry Rate 44.8 bpm Breakdown Pressure 7,864 psi Breakdown Rate 5 bpm Breakdown Volume 7 gal Avg HHP 9,487 hp Final ISIP 5,361 psi Frac Gradient 0.895 psi/ft Pad Volume 3,402 gal Main Body Volume 189,544 gal Flush Volume 30,114 gal 100 M A-Z Sand Pumped 0 lbs 100 M Brown Sand Pumped 38,060 lbs 100 M White Sand Pumped 387,700 lbs Proppant in Formation 425,760 lbs Avg Proppant Concentration 2.84 lb/gal Max Proppant Concentration 3.50 lb/gal Load to Recover (incl. pumpdown) 4,759 bbls Load to Recover w/o Acid 4,753 bbls 15% HCL Spearhead 238 gal Slickwater Fluid Pumped 4,427 bbls 20# Linear Fluid Pumped 80 bbls Diverter Slurry 0 bbls 20# Crosslink Fluid Pumped 0 bbls Pump down volume 246 bbls Pump down rate 12.0 bpm Max pump down pressure 6,515 psi Fluid Temp 72.0 ?F Total Pump Time 1:58 hr:min Pumps Lost During Job 1 Treatment Start Time 13:09 0:00 0:00 Treatment End Time 15:08 0:00 0:00 - Proppant was pumped as a ramp from 0.50 - 3.00 PPA, then as holds from 3.00 - 3.50 PPA. - Pumped 1 - 250 gal shot of 15% HCL.

EP WELLS DAILY OPERATIONS REPORT

Report 15

04/22/2018

Well UNIVERSITY 19 PW UNIT 1804H
Wellbore UNIVERSITY 19 PW UNIT 1804H ST01

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								- 2 - 20# gel sweeps were pumped prior to flush. - Ball in place plug was utilized. Time for Prop on Perfs 31.0 minutes Time between Stages (TBF) 0:58 hrs/min
15:09	0.30	FRAC	FWL			0		Other pad ops.
15:27	0.28	FRAC	FWL			0		15:27 Handover well to wireline. 15:40 Pressure test lubricator to 8000 psi. 15:44 Open well with 4950 psi.
15:44	2.35	FRAC	WLT			0		16:45 "Stage #7 Plug and Perf. RIH with (4) 1' Keane guns: 2.75" OD HSC at 6 SPF with 60° phased perforating guns and Downhole Technology Boss Hog composite ball drop frac plug. Set plug @ 21150' Perforate as follows: 21124' - 21125' 21080' - 21081' 21035' - 21036' 20990' - 20991' Stabilized pressure after perf.: 5100 psi Maximum pump down rate: 12 bpm Pump down volume: 223 bbl" 16:50 POOH
18:05	0.18	FRAC	WLF			0		18:05 Shut in well with 4500 psi. 18:16 Handover well to frac.
18:16	1.05	FRAC	WLF			0		Pump maintenance, PTest, equalize.
19:19	1.97	FRAC	FRT			0		University 19 PW Unit 1804H Stage 7 Summary Interval 20990 - 21125 Open Well Pressure 4,494 psi Max Treating Pressure 9,369 psi Max Slurry Rate 54.2 bpm Average Treating Pressure 8,909 psi Average Slurry Rate 42.8 bpm Breakdown Pressure 8,269 psi Breakdown Rate 5 bpm Breakdown Volume 2 gal Avg HHP 9,346 hp Final ISIP 5,247 psi Frac Gradient 0.885 psi/ft Pad Volume 546 gal Main Body Volume 184,002 gal Flush Volume 30,072 gal 100 M A-Z Sand Pumped 0 lbs 100 M Brown Sand Pumped 313,990 lbs 100 M White Sand Pumped 105,080 lbs Proppant in Formation 419,070 lbs Avg Proppant Concentration 2.84 lb/gal Max Proppant Concentration 3.50 lb/gal Load to Recover (incl. pumpdown) 4,604 bbls Load to Recover w/o Acid 4,598 bbls 15% HCL Spearhead 272 gal Slickwater Fluid Pumped 4,295 bbls 20# Linear Fluid Pumped 80 bbls Diverter Slurry 0 bbls 20# Crosslink Fluid Pumped 0 bbls Pump down volume 223 bbls Pump down rate 12.0 bpm Max pump down pressure 6,642 psi Fluid Temp 72.0 °F Total Pump Time 1:55 hr:min

EP WELLS DAILY OPERATIONS REPORT

Report 15

04/22/2018

Well UNIVERSITY 19 PW UNIT 1804H
Wellbore UNIVERSITY 19 PW UNIT 1804H ST01

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								Pumps Lost During Job 1 Treatment Start Time 19:20 0:00 0:00 Treatment End Time 21:16 0:00 0:00 - Proppant was pumped as a ramp from 0.50 - 3.00 PPA, then as holds of 3.00 & 3.50 PPA. - 15% HCl was pumped. - 2 - 20# gel sweeps were pumped prior to flush. - Ball in place plug was utilized. Time for Prop on Perfs 26.0 minutes Time between Stages (TBF) 1:52 hrs/min Other pad operations.
21:17	2.72	FRAC	FWL			0		
Total	24.00							

06.00 Update

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Description
0:00	1.78	FRAC	FWL			0	Other pad operations.
1:47	0.23	FRAC	FWL			0	21:18 Handover well to wireline. 1:56 Pressure test lubricator to 8000 psi. 2:01 Open well with 4300 psi.
2:01		FRAC	WLT			0	2:59 "Stage #8 Plug and Perf. RIH with (4) 1' Keane guns: 2.75" OD HSC at 6 SPF with 60° phased perforating guns and Downhole Technology Boss Hog composite ball drop frac plug. Set plug @ 20970' Perforate as follows: 20945' - 20946' 20900' - 20901' 20855' - 20856' 20810' - 20811' Stabilized pressure after perf.: 5056 psi Maximum pump down rate: 10 bpm Pump down volume: 211 bbl" 3:04 POOH

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
04/22/2018 02:45	KEANE FRAC TX LLC	Perforation		WLT	EN	WL Mis-Run/Mis-Fire	1.78	2.58	1	OPEN
Description: Final switch check at liner top prior to pump down. Cannot see any switches below the release tool. At surface discovered electrical issue below switch on release tool.						Title: ***MISRUN*** Cannot check gun/plug switches.				
04/22/2018 04:03	KEANE FRAC TX LLC	Perforation		WLT	EN	WL Mis-Run/Mis-Fire	0.80	0.80	1	OPEN
Description: IP consecutive switch conflict. Switch for release tool and one perforating gun (4th in string) discovered to be the same at 200ft gun check. Change out perforating gun to eliminate potential release during perforating.						Title: IP switch conflict.				
Total							2.58	3.38		

EP WELLS DAILY OPERATIONS REPORT

Report 16

04/23/2018

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 19 PW UNIT 1804H
Wellbore	UNIVERSITY 19 PW UNIT 1804H ST01
WBS No/API No	30274449 / 4230133264.01

Event Summary

Event Type	Completion only	Event Start Date	12/06/2017	Days on Location	16.00
Objective	Install Completion	Original Spud Date	08/10/2017		
Est. Days	65.00	Contractor	PERMIAN WELL SVC		
Work Unit	PERMIAN COMPLETIONS	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	Hank Persaud	Measured Depth(ft)	
Engineer	Lindy Byerly	TVD(ft)	
Other Supervisor	Andrew Veroba	24 Hr Progress(ft)	
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,788.55 / 2,762.90	Hole size(in)	
THF Datum			
Daily NPT(hr/%)	0.67/2.78	Last Casing MD	
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	
Actual cost to date/AFE	1,242,418/4,979,691	Current MW / BH EMW(ppg)	/
Actual divided by AFE	0.25	LOT/FIT EMW(ppg)	
Daily Cost	229,274	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:							

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	15

Operations Summary

24 Hour Summary
Frac stages 8-10.
Update Since Report Time
Fracing stage 11.
24 Hour Forecast
Continue frac operations.

EP WELLS DAILY OPERATIONS REPORT

Report 16

04/23/2018

Well UNIVERSITY 19 PW UNIT 1804H
Wellbore UNIVERSITY 19 PW UNIT 1804H ST01

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	1.78	FRAC	FWL			0		Other pad operations.
1:47	0.23	FRAC	FWL			0		21:18 Handover well to wireline. 1:56 Pressure test lubricator to 8000 psi. 2:01 Open well with 4300 psi.
2:01	2.25	FRAC	WLT			0		2:59 "Stage #8 Plug and Perf. RIH with (4) 1' Keane guns: 2.75" OD HSC at 6 SPF with 60° phased perforating guns and Downhole Technology Boss Hog composite ball drop frac plug. Set plug @ 20970' Perforate as follows: 20945' - 20946' 20900' - 20901' 20855' - 20856' 20810' - 20811' Stabilized pressure after perf.: 5056 psi Maximum pump down rate: 10 bpm Pump down volume: 211 bbl" 3:04 POOH
4:16	0.48	FRAC	WLF			0		4:16 At surface, pressure 4200 psi. Grease UMW. 4:27 Shut in well at 4200 psi. Continue greasing.
4:45	0.67	FRAC	WLF			1		During wireline run packoff pressures high. Lay down and change out elements. Continue greasing. 5:09 Handover well to frac.
5:25	1.20	FRAC	FRP			0		Frac pressure test failed. Repair leaks. Retest to 9500 psi.
6:37	1.88	FRAC	FRT			0		University 19 PW Unit 1804H Stage 8 Summary Interval 20810 - 20946 Open Well Pressure 3,955 psi Max Treating Pressure 9,420 psi Max Slurry Rate 58.2 bpm Average Treating Pressure 8,979 psi Average Slurry Rate 46.8 bpm Breakdown Pressure 7,963 psi Breakdown Rate 10 bpm Breakdown Volume 6 gal Avg HHP 10,299 hp Final ISIP 5,334 psi Frac Gradient 0.892 psi/ft Pad Volume 1,596 gal Main Body Volume 189,376 gal Flush Volume 29,946 gal 100 M A-Z Sand Pumped 0 lbs 100 M Brown Sand Pumped 0 lbs 100 M White Sand Pumped 413,750 lbs Proppant in Formation 413,750 lbs Avg Proppant Concentration 2.80 lb/gal Max Proppant Concentration 3.50 lb/gal Load to Recover (incl. pumpdown) 4,720 bbls Load to Recover w/o Acid 4,714 bbls 15% HCL Spearhead 238 gal Slickwater Fluid Pumped 4,423 bbls 20# Linear Fluid Pumped 80 bbls Diverter Slurry 0 bbls 20# Crosslink Fluid Pumped 0 bbls Pump down volume 211 bbls Pump down rate 10.0 bpm Max pump down pressure 6,896 psi Fluid Temp 72.0 °F Total Pump Time 1:52 hr:min

EP WELLS DAILY OPERATIONS REPORT

Report 16

04/23/2018

Well UNIVERSITY 19 PW UNIT 1804H
Wellbore UNIVERSITY 19 PW UNIT 1804H ST01

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								Pumps Lost During Job 0 Treatment Start Time 6:37 0:00 0:00 Treatment End Time 8:30 0:00 0:00 - Proppant was pumped as a ramp from 0.50 - 3.00 PPA, then as holds of 3.00 & 3.50 PPA. - 250gal shot of 15% HCl was pumped. - 2 - 20# gel sweeps were pumped prior to flush. - Ball in place plug was utilized. Time for Prop on Perfs 29.0 minutes Time between Stages (TBF) 3:10 hrs/min
8:30	0.53	FRAC	GRS			0		Greasing per schedule, plus zipper.
9:02	0.32	FRAC	FWL			0		9:02 Handover well to wireline. 9:13 Pressure test lubricator to 8000 psi. 9:21 Open well with 4600 psi.
9:21	2.23	FRAC	WLT			0		10:23 "Stage #9 Plug and Perf. RIH with (4) 1' Keane guns: 2.75" OD HSC at 6 SPF with 60° phased perforating guns and Downhole Technology Boss Hog composite ball drop frac plug. Set plug @ 20790' Perforate as follows: 20765' - 20766' 20720' - 20721' 20675' - 20676' 20630' - 20631' Stabilized pressure after perf.: 5100 psi Maximum pump down rate: 12 bpm Pump down volume: 227 bbl" 10:27 POOH
11:35	0.13	FRAC	WLF			0		11:35 Shut in well with 4500 psi. 11:43 Handover well to frac.
11:43	0.18	FRAC	WLF			0		Other pad ops.
11:54	2.00	FRAC	FRT			0		University 19 PW Unit 1804H Stage 9 Summary Interval 20630 - 20766 Open Well Pressure 4,550 psi Max Treating Pressure 9,426 psi Max Slurry Rate 57.9 bpm Average Treating Pressure 8,915 psi Average Slurry Rate 44.7 bpm Breakdown Pressure 7,939 psi Breakdown Rate 10 bpm Breakdown Volume 4 gal Avg HHP 9,767 hp Final ISIP 5,121 psi Frac Gradient 0.874 psi/ft Pad Volume 756 gal Main Body Volume 200,464 gal Flush Volume 29,652 gal 100 M A-Z Sand Pumped 0 lbs 100 M Brown Sand Pumped 305,390 lbs 100 M White Sand Pumped 124,640 lbs Proppant in Formation 430,030 lbs Avg Proppant Concentration 2.64 lb/gal Max Proppant Concentration 3.00 lb/gal Load to Recover (incl. pumpdown) 5,000 bbls Load to Recover w/o Acid 4,993 bbls 15% HCL Spearhead 274 gal Slickwater Fluid Pumped 4,687 bbls 20# Linear Fluid Pumped 80 bbls Diverter Slurry 0 bbls

EP WELLS DAILY OPERATIONS REPORT

Report 16

04/23/2018

Well UNIVERSITY 19 PW UNIT 1804H
Wellbore UNIVERSITY 19 PW UNIT 1804H ST01

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								20# Crosslink Fluid Pumped 0 bbls Pump down volume 227 bbls Pump down rate 10.0 bpm Max pump down pressure 6,400 psi Fluid Temp 72.0 ?F Total Pump Time 1:59 hr:min Pumps Lost During Job 0 Treatment Start Time 11:54 0:00 0:00 Treatment End Time 13:54 0:00 0:00 - Proppant was pumped as a ramp from 0.50 - 3.00 PPA, then as a hold of 3.00 PPA. - Pumped 1 - 250 gal of 15% HCl. - 2 - 20# gel sweeps were pumped prior to flush. - Ball in place plug was utilized. Time for Prop on Perfs 27.0 minutes Time between Stages (TBF) 0:28 hrs/min
13:54	0.63	FRAC	FWL			0		Other pad ops.
14:32	0.27	FRAC	FWL			0		14:32 Handover well to wireline. 14:40 Pressure test lubricator to 8000 psi. 14:48 Open well with 4500 psi.
14:48	2.20	FRAC	WLT			0		15:52 "Stage #10 Plug and Perf. RIH with (4) 1' Keane guns: 2.75" OD HSC at 6 SPF with 60° phased perforating guns and Downhole Technology Boss Hog composite ball drop frac plug. Set plug @ 20610' Perforate as follows: 20585' - 20586' 20540' - 20541' 20495' - 20496' 20450' - 20451' Stabilized pressure after perf.: 5000 psi Maximum pump down rate: 10 bpm Pump down volume: 247 bbl" 15:55 POOH
17:00	0.25	FRAC	WLF			0		17:00 Shut in well with 4550 psi. 17:15 Handover well to frac.
17:15	0.25	FRAC	WLF			0		Other pad ops.
17:30	1.92	FRAC	FRT			0		University 19 PW Unit 1804H Stage 10 Summary Interval 20450 - 20586 Open Well Pressure 4,456 psi Max Treating Pressure 9,361 psi Max Slurry Rate 56.2 bpm Average Treating Pressure 8,734 psi Average Slurry Rate 45.4 bpm Breakdown Pressure 8,002 psi Breakdown Rate 10 bpm Breakdown Volume 8 gal Avg HHP 9,719 hp Final ISIP 5,436 psi Frac Gradient 0.901 psi/ft Pad Volume 1,386 gal Main Body Volume 189,670 gal Flush Volume 29,736 gal 100 M A-Z Sand Pumped 0 lbs 100 M Brown Sand Pumped 375,620 lbs 100 M White Sand Pumped 42,980 lbs Proppant in Formation 418,600 lbs Avg Proppant Concentration 2.77 lb/gal Max Proppant Concentration 3.50 lb/gal

EP WELLS DAILY OPERATIONS REPORT

Report 16

04/23/2018

Well UNIVERSITY 19 PW UNIT 1804H
Wellbore UNIVERSITY 19 PW UNIT 1804H ST01

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								Load to Recover (incl. pumpdown) 4,763 bbls Load to Recover w/o Acid 4,757 bbls 15% HCL Spearhead 239 gal Slickwater Fluid Pumped 4,430 bbls 20# Linear Fluid Pumped 80 bbls Diverter Slurry 0 bbls 20# Crosslink Fluid Pumped 0 bbls Pump down volume 247 bbls Pump down rate 10.0 bpm Max pump down pressure 6,200 psi Fluid Temp 72.0 ?F Total Pump Time 1:51 hr:min Pumps Lost During Job 0 Treatment Start Time 17:32 0:00 0:00 Treatment End Time 19:24 0:00 0:00 - Proppant was pumped as a ramp from 0.50 - 3.00 PPA, then as holds of 3.00 & 3.50 PPA. - Pumped 250 gal shot of 15% HCL. - 2 - 20# gel sweeps were pumped prior to flush. - Ball in place plug was utilized. Time for Prop on Perfs 30.0 minutes Time between Stages (TBF) 1:11 hrs/min
19:25	0.82	FRAC	FWL			0		19:25 Handover well to wireline. 20:08 Pressure test lubricator to 8000 psi. 20:14 Open well with 4500 psi.
20:14	1.93	FRAC	WLT			0		21:10 "Stage #11 Plug and Perf. RIH with (4) 1' Keane guns: 2.75" OD HSC at 6 SPF with 60° phased perforating guns and Downhole Technology Boss Hog composite ball-in-place frac plug. Set plug @ 20430' Perforate as follows: 20405' - 20406' 20360' - 20361' 20315' - 20316' 20270' - 20271' Stabilized pressure after perf.: 5065 psi Maximum pump down rate: 10 bpm Pump down volume: 194 bbl" 21:16 POOH
22:10	0.68	FRAC	WLF			0		22:10 Greased UMW 22:22 Shut in well with 4400 psi. Continue grease schedule. LMV and zipper. 22:48 Handover well to frac.
22:51	1.15	FRAC	FRT			0		Frac stage 11
Total	24.00							

06.00 Update

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Description
0:00	0.65	FRAC	FRT			0	University 19 PW Unit 1804H Stage 11 Summary Interval 20270 - 20406 Open Well Pressure 4,450 psi Max Treating Pressure 9,313 psi Max Slurry Rate 57.2 bpm Average Treating Pressure 8,820 psi Average Slurry Rate 46.8 bpm Breakdown Pressure 7,752 psi Breakdown Rate 5 bpm Breakdown Volume 4 gal

EP WELLS DAILY OPERATIONS REPORT

Report 16

04/23/2018

Well UNIVERSITY 19 PW UNIT 1804H
Wellbore UNIVERSITY 19 PW UNIT 1804H ST01

06.00 Update

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Description
							<p> Avg HHP 10,117 hp Final ISIP 5,088 psi Frac Gradient 0.871 psi/ft Pad Volume 1,386 gal Main Body Volume 187,194 gal Flush Volume 29,610 gal 100 M A-Z Sand Pumped 0 lbs 100 M Brown Sand Pumped 336,060 lbs 100 M White Sand Pumped 88,760 lbs Proppant in Formation 424,820 lbs Avg Proppant Concentration 2.84 lb/gal Max Proppant Concentration 3.50 lb/gal Load to Recover (incl. pumpdown) 4,651 bbls Load to Recover w/o Acid 4,645 bbls 15% HCL Spearhead 272 gal Slickwater Fluid Pumped 4,371 bbls 20# Linear Fluid Pumped 80 bbls Diverter Slurry 0 bbls 20# Crosslink Fluid Pumped 0 bbls Pump down volume 194 bbls Pump down rate 10.0 bpm Max pump down pressure 6,013 psi Fluid Temp 72.0 °F Total Pump Time 1:46 hr:min Pumps Lost During Job 0 Treatment Start Time 22:52 0:00 0:00 Treatment End Time 0:39 0:00 0:00 </p> <p> - Proppant was pumped as a ramp from 0.50 - 3.00 PPA, then as holds of 3.00 & 3.50 PPA. - 250 gallons of HCl was pumped - 2 - 20# gel sweeps were pumped prior to flush. - Ball in place plug was utilized. </p> <p> Time for Prop on Perfs 26.0 minutes Time between Stages (TBF) 0:59 hrs/min </p>
0:39	0.67	FRAC	FWL			0	<p> 0:39 Handover well to wireline. Wait on other pad operations. 00:55 Wireline shut in on 1803 well. 1:14 Pressure test lubricator to 8000 psi. 1:19 Open well with 4800 psi. </p>
1:19	2.00	FRAC	WLT			0	<p> 2:21 "Stage #12 Plug and Perf. RIH with (4) 1' Keane guns: 2.75" OD HSC at 6 SPF with 60° phased perforating guns and Downhole Technology Boss Hog composite ball-in-place frac plug. </p> <p> Set plug @ 20247' Perforate as follows: 20225' - 20226' 20180' - 20181' 20135' - 20136' 20090' - 20091' Stabilized pressure after perf.: 5056 psi Maximum pump down rate: 10 bpm Pump down volume: 196 bbl" 2:25 POOH </p>
3:19	0.30	FRAC	WLF			0	<p> 3:19 Shut in well with 4500 psi. 3:32 Handover well to frac. </p>
3:37		FRAC	FRT			0	<p> Frac stage 12 </p>

EP WELLS DAILY OPERATIONS REPORT

Report 16

04/23/2018

Well UNIVERSITY 19 PW UNIT 1804H
Wellbore UNIVERSITY 19 PW UNIT 1804H ST01

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
04/23/2018 04:45	KEANE FRAC TX LLC	Perforation		WLF	N			0.67	1	
Description: Second run on elements. While POOH had to engage pressure on both packoffs. Laid down and changed out elements.						Title: Premature packoff change				
Total								0.67		

EP WELLS DAILY OPERATIONS REPORT

Report 17

04/24/2018

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 19 PW UNIT 1804H
Wellbore	UNIVERSITY 19 PW UNIT 1804H ST01
WBS No/API No	30274449 / 4230133264.01

Event Summary

Event Type	Completion only	Event Start Date	12/06/2017	Days on Location	17.00
Objective	Install Completion	Original Spud Date	08/10/2017		
Est. Days	65.00	Contractor	PERMIAN WELL SVC		
Work Unit	PERMIAN COMPLETIONS	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	Hank Persaud	Measured Depth(ft)	
Engineer	Lindy Byerly	TVD(ft)	
Other Supervisor	Andrew Veroba	24 Hr Progress(ft)	
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,788.55 / 2,762.90	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	1,609,538/4,979,691	Current MW / BH EMW(ppg)	/
Actual divided by AFE	0.32	LOT/FIT EMW(ppg)	
Daily Cost	353,381	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:							

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	16

Operations Summary

24 Hour Summary
Frac stages 11-15.
Update Since Report Time
POOH wireline for stage 16.
24 Hour Forecast
Continue frac operations.

EP WELLS DAILY OPERATIONS REPORT

Report 17

04/24/2018

Well UNIVERSITY 19 PW UNIT 1804H
Wellbore UNIVERSITY 19 PW UNIT 1804H ST01

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	0.65	FRAC	FRT			0		<p>University 19 PW Unit 1804H Stage 11 Summary</p> <p>Interval 20270 - 20406</p> <p>Open Well Pressure 4,450 psi</p> <p>Max Treating Pressure 9,313 psi</p> <p>Max Slurry Rate 57.2 bpm</p> <p>Average Treating Pressure 8,820 psi</p> <p>Average Slurry Rate 46.8 bpm</p> <p>Breakdown Pressure 7,752 psi</p> <p>Breakdown Rate 5 bpm</p> <p>Breakdown Volume 4 gal</p> <p>Avg HHP 10,117 hp</p> <p>Final ISIP 5,088 psi</p> <p>Frac Gradient 0.871 psi/ft</p> <p>Pad Volume 1,386 gal</p> <p>Main Body Volume 187,194 gal</p> <p>Flush Volume 29,610 gal</p> <p>100 M A-Z Sand Pumped 0 lbs</p> <p>100 M Brown Sand Pumped 336,060 lbs</p> <p>100 M White Sand Pumped 88,760 lbs</p> <p>Proppant in Formation 424,820 lbs</p> <p>Avg Proppant Concentration 2.84 lb/gal</p> <p>Max Proppant Concentration 3.50 lb/gal</p> <p>Load to Recover (incl. pumpdown) 4,651 bbls</p> <p>Load to Recover w/o Acid 4,645 bbls</p> <p>15% HCL Spearhead 272 gal</p> <p>Slickwater Fluid Pumped 4,371 bbls</p> <p>20# Linear Fluid Pumped 80 bbls</p> <p>Diverter Slurry 0 bbls</p> <p>20# Crosslink Fluid Pumped 0 bbls</p> <p>Pump down volume 194 bbls</p> <p>Pump down rate 10.0 bpm</p> <p>Max pump down pressure 6,013 psi</p> <p>Fluid Temp 72.0 °F</p> <p>Total Pump Time 1:46 hr:min</p> <p>Pumps Lost During Job 0</p> <p>Treatment Start Time 22:52 0:00 0:00</p> <p>Treatment End Time 0:39 0:00 0:00</p> <p>- Proppant was pumped as a ramp from 0.50 - 3.00 PPA, then as holds of 3.00 & 3.50 PPA.</p> <p>- 250 gallons of HCl was pumped</p> <p>- 2 - 20# gel sweeps were pumped prior to flush.</p> <p>- Ball in place plug was utilized.</p> <p>Time for Prop on Perfs 26.0 minutes</p> <p>Time between Stages (TBF) 0:59 hrs/min</p>
0:39	0.67	FRAC	FWL			0		<p>0:39 Handover well to wireline.</p> <p>Wait on other pad operations.</p> <p>00:55 Wireline shut in on 1803 well.</p> <p>1:14 Pressure test lubricator to 8000 psi.</p> <p>1:19 Open well with 4800 psi.</p>
1:19	2.00	FRAC	WLT			0		<p>2:21 "Stage #12 Plug and Perf.</p> <p>RIH with (4) 1' Keane guns: 2.75" OD HSC at 6 SPF with 60° phased perforating guns and Downhole Technology Boss Hog composite ball-in-place frac plug.</p> <p>Set plug @ 20247'</p> <p>Perforate as follows:</p> <p>20225' - 20226'</p> <p>20180' - 20181'</p> <p>20135' - 20136'</p> <p>20090' - 20091'</p> <p>Stabilized pressure after perf.: 5056 psi</p> <p>Maximum pump down rate: 10 bpm</p> <p>Pump down volume: 196 bbl"</p>

EP WELLS DAILY OPERATIONS REPORT

Report 17

04/24/2018

Well UNIVERSITY 19 PW UNIT 1804H
Wellbore UNIVERSITY 19 PW UNIT 1804H ST01

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								2:25 POOH
3:19	0.30	FRAC	WLF			0		3:19 Shut in well with 4500 psi. 3:32 Handover well to frac.
3:37	1.83	FRAC	FRT			0		University 19 PW Unit 1804H Stage 12 Summary Interval 20090 - 20226 Open Well Pressure 4,526 psi Max Treating Pressure 9,223 psi Max Slurry Rate 58.7 bpm Average Treating Pressure 8,820 psi Average Slurry Rate 46.0 bpm Breakdown Pressure 8,227 psi Breakdown Rate 5 bpm Breakdown Volume 2 gal Avg HHP 9,944 hp Final ISIP 5,314 psi Frac Gradient 0.891 psi/ft Pad Volume 2,898 gal Main Body Volume 185,808 gal Flush Volume 29,484 gal 100 M A-Z Sand Pumped 0 lbs 100 M Brown Sand Pumped 205,400 lbs 100 M White Sand Pumped 210,530 lbs Proppant in Formation 415,930 lbs Avg Proppant Concentration 2.80 lb/gal Max Proppant Concentration 3.50 lb/gal Load to Recover (incl. pumpdown) 4,620 bbls Load to Recover w/o Acid 4,614 bbls 15% HCL Spearhead 272 gal Slickwater Fluid Pumped 4,338 bbls 20# Linear Fluid Pumped 80 bbls Diverter Slurry 0 bbls 20# Crosslink Fluid Pumped 0 bbls Pump down volume 196 bbls Pump down rate 10.0 bpm Max pump down pressure 5,765 psi Fluid Temp 72.0 ?F Total Pump Time 1:47 hr:min Pumps Lost During Job 0 Treatment Start Time 3:38 0:00 0:00 Treatment End Time 5:26 0:00 0:00 - Proppant was pumped as a ramp from 0.50 - 3.00 PPA, then as holds of 3.00 & 3.50 PPA. - 250 gallons of HCl was pumped - 2 - 20# gel sweeps were pumped prior to flush. - Ball in place plug was utilized. Time for Prop on Perfs 28.0 minutes Time between Stages (TBF) 0:39 hrs/min
5:27	0.45	FRAC	FWL			0		5:27 Handover well to wireline. 5:49 Pressure test to 8000 psi. 5:54 Open well with 4800 psi.
5:54	1.93	FRAC	WLT			0		6:58 "Stage #13 Plug and Perf. RIH with (4) 1' Keane guns: 2.75" OD HSC at 6 SPF with 60° phased perforating guns and Downhole Technology Boss Hog composite ball-in-place frac plug. Set plug @ 20070' Perforate as follows: 20045' - 20046' 20002' - 20003' 19955' - 19956' 19910' - 19911' Stabilized pressure after perf.: 4950 psi

EP WELLS DAILY OPERATIONS REPORT

Report 17

04/24/2018

Well UNIVERSITY 19 PW UNIT 1804H
Wellbore UNIVERSITY 19 PW UNIT 1804H ST01

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								Maximum pump down rate: 9 bpm Pump down volume: 199 bbl" 7:03 POOH
7:50	0.13	FRAC	WLF			0		7:50 Shut in well with 4400 psi. 7:58 Handover well to frac.
7:58	0.17	FRAC	WLF			0		Other pad ops.
8:08	1.70	FRAC	FRT			0		University 19 PW Unit 1804H Stage 13 Summary Interval 19910 - 20046 Open Well Pressure 4,348 psi Max Treating Pressure 9,363 psi Max Slurry Rate 59.9 bpm Average Treating Pressure 8,879 psi Average Slurry Rate 51.3 bpm Breakdown Pressure 6,802 psi Breakdown Rate 9 bpm Breakdown Volume 7 gal Avg HHP 11,164 hp Final ISIP 5,317 psi Frac Gradient 0.891 psi/ft Pad Volume 2,142 gal Main Body Volume 191,392 gal Flush Volume 29,274 gal 100 M A-Z Sand Pumped 0 lbs 100 M Brown Sand Pumped 43,860 lbs 100 M White Sand Pumped 385,140 lbs Proppant in Formation 429,000 lbs Avg Proppant Concentration 2.82 lb/gal Max Proppant Concentration 3.50 lb/gal Load to Recover (incl. pumpdown) 4,756 bbls Load to Recover w/o Acid 4,750 bbls 15% HCL Spearhead 238 gal Slickwater Fluid Pumped 4,471 bbls 20# Linear Fluid Pumped 80 bbls Diverter Slurry 0 bbls 20# Crosslink Fluid Pumped 0 bbls Pump down volume 199 bbls Pump down rate 9.0 bpm Max pump down pressure 5,900 psi Fluid Temp 72.0 ?F Total Pump Time 1:41 hr:min Pumps Lost During Job 0 Treatment Start Time 8:08 0:00 0:00 Treatment End Time 9:50 0:00 0:00 - Proppant was pumped as a ramp from 0.50 - 3.00 PPA, then as holds of 3.00 & 3.50 PPA. - 250 gal HCl was pumped - 2 - 20# gel sweeps were pumped prior to flush. - Ball in place plug was utilized. Time for Prop on Perfs 28.0 minutes Time between Stages (TBF) 0:39 hrs/min
9:50	0.58	FRAC	FWL			0		Other pad ops
10:25	0.30	FRAC	FWL			0		10:25 Handover well to wireline. 10:37 Pressure test lubricator to 8000 psi. 10:43 Open well with 4650 psi.
10:43	2.07	FRAC	WLT			0		11:48 "Stage #14 Plug and Perf. RIH with (4) 1' Keane guns: 2.75" OD HSC at 6 SPF with 60° phased perforating guns and Downhole Technology Boss Hog composite ball-in-place frac plug. Set plug @ 19878'

EP WELLS DAILY OPERATIONS REPORT

Report 17

04/24/2018

Well UNIVERSITY 19 PW UNIT 1804H
Wellbore UNIVERSITY 19 PW UNIT 1804H ST01

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								Perforate as follows: 19865' - 19866' 19820' - 19821' 19775' - 19776' 19730' - 19731' Stabilized pressure after perf.: 4700 psi Maximum pump down rate: 9 bpm Pump down volume: 197 bbl" 11:55 POOH
12:47	0.12	FRAC	WLF			0		12:47 Shut in well with 4350 psi. 12:54 Handover well to frac.
12:54	0.35	FRAC	GRS			0		Grease UMV (live), LMV, Middle Manual Master, Zipper Leg.
13:15	0.25	FRAC	FRP			0		Frac prep
13:30	1.63	FRAC	FRT			0		University 19 PW Unit 1804H Stage 14 Summary Interval 19730 - 19866 Open Well Pressure 4,131 psi Max Treating Pressure 9,341 psi Max Slurry Rate 60.0 bpm Average Treating Pressure 8,786 psi Average Slurry Rate 49.9 bpm Breakdown Pressure 7,541 psi Breakdown Rate 10 bpm Breakdown Volume 6 gal Avg HHP 10,746 hp Final ISIP 5,265 psi Frac Gradient 0.886 psi/ft Pad Volume 1,260 gal Main Body Volume 181,396 gal Flush Volume 29,148 gal 100 MA-Z Sand Pumped 0 lbs 100 M Brown Sand Pumped 60,970 lbs 100 M White Sand Pumped 356,520 lbs Proppant in Formation 417,490 lbs Avg Proppant Concentration 2.91 lb/gal Max Proppant Concentration 4.00 lb/gal Load to Recover (incl. pumpdown) 4,516 bbls Load to Recover w/o Acid 4,510 bbls 15% HCL Spearhead 270 gal Slickwater Fluid Pumped 4,233 bbls 20# Linear Fluid Pumped 80 bbls Diverter Slurry 0 bbls 20# Crosslink Fluid Pumped 0 bbls Pump down volume 197 bbls Pump down rate 9.0 bpm Max pump down pressure 5,800 psi Fluid Temp 72.0 ?F Total Pump Time 1:37 hr:min Pumps Lost During Job 1 Treatment Start Time 13:30 0:00 0:00 Treatment End Time 15:08 0:00 0:00 - Proppant was pumped as a ramp from 0.50 - 3.00 PPA, then as holds from 3.00 - 4.00 PPA. - 250 gal of HCl was pumped - 2 - 20# gel sweeps were pumped prior to flush. - Ball in place plug was utilized. Time for Prop on Perfs 27.0 minutes Time between Stages (TBF) 1:15 hrs/min
15:08	0.37	FRAC	FWL			0		Other pad ops.

EP WELLS DAILY OPERATIONS REPORT

Report 17

04/24/2018

Well UNIVERSITY 19 PW UNIT 1804H
Wellbore UNIVERSITY 19 PW UNIT 1804H ST01

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
15:30	0.42	FRAC	FWL			0		15:30 Handover well to wireline. 15:45 Pressure test lubricator to 7000 psi. 15:55 Open well with 4700 psi.
15:55	1.98	FRAC	WLT			0		17:06 "Stage #15 Plug and Perf. RIH with (4) 1' Keane guns: 2.75" OD HSC at 6 SPF with 60° phased perforating guns and Downhole Technology Boss Hog composite ball-in-place frac plug. Set plug @ 19710' Perforate as follows: 19685' - 19686' 19640' - 19641' 19595' - 19596' 19550' - 19551' Stabilized pressure after perf.: 4761 psi Maximum pump down rate: 9 bpm Pump down volume: 180 bbl" 17:10 POOH
17:54	1.55	FRAC	WLF			0		17:54 Shut in well with 4475 psi. 18:12 Handover well to frac.
19:27	1.77	FRAC	FRT			0		University 19 PW Unit 1804H Stage 15 Summary Interval 19550 - 19686 Open Well Pressure 4,152 psi Max Treating Pressure 9,127 psi Max Slurry Rate 60.3 bpm Average Treating Pressure 8,683 psi Average Slurry Rate 49.6 bpm Breakdown Pressure 7,653 psi Breakdown Rate 5 bpm Breakdown Volume 1 gal Avg HHP 10,556 hp Final ISIP 5,034 psi Frac Gradient 0.867 psi/ft Pad Volume 3,990 gal Main Body Volume 189,756 gal Flush Volume 29,106 gal 100 M A-Z Sand Pumped 0 lbs 100 M Brown Sand Pumped 285,860 lbs 100 M White Sand Pumped 140,400 lbs Proppant in Formation 426,260 lbs Avg Proppant Concentration 2.82 lb/gal Max Proppant Concentration 3.50 lb/gal Load to Recover (incl. pumpdown) 4,698 bbls Load to Recover w/o Acid 4,692 bbls 15% HCL Spearhead 267 gal Slickwater Fluid Pumped 4,432 bbls 20# Linear Fluid Pumped 80 bbls Diverter Slurry 0 bbls 20# Crosslink Fluid Pumped 0 bbls Pump down volume 180 bbls Pump down rate 9.0 bpm Max pump down pressure 5,700 psi Fluid Temp 72.0 °F Total Pump Time 1:44 hr:min Pumps Lost During Job 0 Treatment Start Time 19:27 0:00 0:00 Treatment End Time 21:12 0:00 0:00 - Proppant was pumped as a ramp from 0.50 - 3.00 PPA, then as a hold at 3.50 PPA. - 250 gallons of HCl was pumped - 2 - 20# gel sweeps were pumped prior to flush. - Ball in place plug was utilized. Time for Prop on Perfs 28.0 minutes

EP WELLS DAILY OPERATIONS REPORT

Report 17

04/24/2018

Well UNIVERSITY 19 PW UNIT 1804H
Wellbore UNIVERSITY 19 PW UNIT 1804H ST01

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								Time between Stages (TBF) 1:00 hrs/min
21:13	1.80	FRAC	FWL			0		21:13 Handover well to wireline. Finish wireline on 1803 well. 22:56 Pressure test lubricator to 7000 psi. 23:01 Open well with 4550 psi.
23:01	0.98	FRAC	WLT			0		23:51 "Stage #16 Plug and Perf. RIH with (4) 1' Keane guns: 2.75" OD HSC at 6 SPF with 60° phased perforating guns and Downhole Technology Boss Hog composite ball-in-place frac plug. Set plug @ 19530' Perforate as follows: 19505' - 19506' 19460' - 19461' 19415' - 19416' 19370' - 19371' Stabilized pressure after perf.: 4787 psi Maximum pump down rate: 10 bpm Pump down volume: 166 bbl" 23:56 POOH
Total	24.00							

06.00 Update

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Description
0:00	0.70	FRAC	WLT			0	Continue POOH
0:42		FRAC	WLF			0	0:42 Shut in well with 4400 psi. Wind speeds too high to come off well. Waiting on weather.

EP WELLS DAILY OPERATIONS REPORT

Report 18

04/25/2018

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 19 PW UNIT 1804H
Wellbore	UNIVERSITY 19 PW UNIT 1804H ST01
WBS No/API No	30274449 / 4230133264.01

Event Summary

Event Type	Completion only	Event Start Date	12/06/2017	Days on Location	18.00
Objective	Install Completion	Original Spud Date	08/10/2017		
Est. Days	65.00	Contractor	PERMIAN WELL SVC		
Work Unit	PERMIAN COMPLETIONS	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	Derek Kasper	Measured Depth(ft)	
Engineer	Lindy Byerly	TVD(ft)	
Other Supervisor	John Bevans	24 Hr Progress(ft)	
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,788.55 / 2,762.90	Hole size(in)	
THF Datum			
Daily NPT(hr/%)	4.30/17.92	Last Casing MD	
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	
Actual cost to date/AFE	1,883,789/4,979,691	Current MW / BH EMW(ppg)	/
Actual divided by AFE	0.38	LOT/FIT EMW(ppg)	
Daily Cost	235,801	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:							

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	17

Operations Summary

24 Hour Summary
Update Since Report Time
24 Hour Forecast

EP WELLS DAILY OPERATIONS REPORT

Report 18

04/25/2018

Well UNIVERSITY 19 PW UNIT 1804H
Wellbore UNIVERSITY 19 PW UNIT 1804H ST01

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	0.70	FRAC	WLT			0		Continue POOH
0:42	4.30	FRAC	WLF			1		****Start NPT on Shell Waiting on Wind**** 0:42 Shut in well with 4400 psi. Wind speeds too high to come off well. Waiting on weather.
5:00	0.35	FRAC	WLF			0		****End NPT on Shell**** Other pad operations
5:21	0.95	FRAC	WLF			0		Handover well to frac. Wait on other pad operations
6:18	1.73	FRAC	FRT			0		University 19 PW Unit 1804H Stage 16 Summary Interval 19370 - 19506 Open Well Pressure 3,961 psi Max Treating Pressure 9,165 psi Max Slurry Rate 58.2 bpm Average Treating Pressure 8,815 psi Average Slurry Rate 46.3 bpm Breakdown Pressure 7,821 psi Breakdown Rate 9 bpm Breakdown Volume 9 gal Avg HHP 10,003 hp Final ISIP 5,401 psi Frac Gradient 0.898 psi/ft Pad Volume 1,008 gal Main Body Volume 180,598 gal Flush Volume 28,980 gal 100 M A-Z Sand Pumped 0 lbs 100 M Brown Sand Pumped 0 lbs 100 M White Sand Pumped 423,950 lbs Proppant in Formation 423,950 lbs Avg Proppant Concentration 2.99 lb/gal Max Proppant Concentration 3.50 lb/gal Load to Recover (incl. pumpdown) 4,466 bbls Load to Recover w/o Acid 4,460 bbls 15% HCL Spearhead 267 gal Slickwater Fluid Pumped 4,214 bbls 20# Linear Fluid Pumped 80 bbls Diverter Slurry 0 bbls 20# Crosslink Fluid Pumped 0 bbls Pump down volume 166 bbls Pump down rate 10.0 bpm Max pump down pressure 5,802 psi Fluid Temp 72.0 ?F Total Pump Time 1:43 hr:min Pumps Lost During Job 0 Treatment Start Time 6:18 0:00 0:00 Treatment End Time 8:02 0:00 0:00 - Proppant was pumped as a ramp from 0.50 - 3.50 PPA, then as a hold of 3.50 PPA - 250 gallons of HCl was pumped. - 2 - 20# gel sweeps were pumped prior to flush. - Ball in place plug was utilized. Time for Prop on Perfs 30.0 minutes Time between Stages (TBF) 5:30 hrs/min
8:02	6.92	FRAC	FWL			0		Handover to WL. Wait on other pad operations (see 1803)
14:57	0.10	FRAC	FWL			0		14:57 Pressure test lubricator to 7000 psi. 15:03 Open well with 4100 psi.
15:03	1.75	FRAC	WLT			0		15:54 "Stage #17 Plug and Perf. RIH with (4) 1' Keane guns: 2.75" OD HSC at 6 SPF with 60° phased perforating guns and Downhole Technology Boss Hog composite ball-in-place frac plug.

EP WELLS DAILY OPERATIONS REPORT

Report 18

04/25/2018

Well UNIVERSITY 19 PW UNIT 1804H
Wellbore UNIVERSITY 19 PW UNIT 1804H ST01

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								Set plug @ 19350' Perforate as follows: 19325' - 19326' 19280' - 19281' 19235' - 19236' 19190' - 19191' Stabilized pressure after perf.: 5250 psi Maximum pump down rate: 10 bpm Pump down volume: 172 bbl" 15:57 POOH
16:48	0.28	FRAC	FWL			0		16:48 Shut in well with 4400 psi. 17:05 Handover well to frac.
17:05	2.00	FRAC	FRT			0		University 19 PW Unit 1804H Stage 17 Summary Interval 19190 - 19326 Open Well Pressure 4,376 psi Max Treating Pressure 9,279 psi Max Slurry Rate 58.4 bpm Average Treating Pressure 8,783 psi Average Slurry Rate 46.2 bpm Breakdown Pressure 8,407 psi Breakdown Rate 11 bpm Breakdown Volume 6 gal Avg HHP 9,945 hp Final ISIP 5,460 psi Frac Gradient 0.903 psi/ft Pad Volume 3,990 gal Main Body Volume 180,558 gal Flush Volume 28,812 gal 100 M A-Z Sand Pumped 0 lbs 100 M Brown Sand Pumped 0 lbs 100 M White Sand Pumped 416,330 lbs Proppant in Formation 416,330 lbs Avg Proppant Concentration 2.96 lb/gal Max Proppant Concentration 3.50 lb/gal Load to Recover (incl. pumpdown) 4,471 bbls Load to Recover w/o Acid 4,471 bbls 15% HCL Spearhead 0 gal Slickwater Fluid Pumped 4,219 bbls 20# Linear Fluid Pumped 80 bbls Diverter Slurry 0 bbls 20# Crosslink Fluid Pumped 0 bbls Pump down volume 172 bbls Pump down rate 10.0 bpm Max pump down pressure 6,100 psi Fluid Temp 72.0 ?F Total Pump Time 1:45 hr:min Pumps Lost During Job 0 Treatment Start Time 17:17 0:00 0:00 Treatment End Time 19:03 0:00 0:00 - Proppant was pumped as a ramp from 0.50 - 3.50 PPA, then as a hold of 3.50 PPA, - No HCl was pumped. - 2 - 20# gel sweeps were pumped prior to flush. - Ball in place plug was utilized. Time for Prop on Perfs 30.0 minutes Time between Stages (TBF) 9:14 hrs/min
19:05	0.27	FRAC	FWL			0		Grease valves
19:21	0.05	FRAC	FWL			0		Pressure test lubricator to 7000 psi. Open well with 4950 psi.
19:24	1.65	FRAC	WLT			0		"Stage #18 Plug and Perf. RIH with (4) 1' Keane guns: 2.75" OD HSC at 6 SPF with 60°

EP WELLS DAILY OPERATIONS REPORT

Report 18

04/25/2018

Well UNIVERSITY 19 PW UNIT 1804H
Wellbore UNIVERSITY 19 PW UNIT 1804H ST01

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								phased perforating guns and Downhole Technology Boss Hog composite ball-in-place frac plug. Set plug @ 19170' Perforate as follows: 19145' - 19146' 19103' - 19104' 19055' - 19056' 19010' - 19011' Stabilized pressure after perf.: 5450 psi Maximum pump down rate: 10 bpm Pump down volume: 168 bbl" POOH
21:03	0.22	FRAC	WLF			0		Grease valves
21:16	1.73	FRAC	FRT			0		University 19 PW Unit 1804H Stage 18 Summary Interval 19010 - 19146 Open Well Pressure 4,410 Max Treating Pressure 8,283 Max Slurry Rate 60.3 Average Treating Pressure 8,796 Average Slurry Rate 44.3 Breakdown Pressure 8,720 Breakdown Rate 19 Breakdown Volume 17 Avg HHP 9,551 Final ISIP 5,372 Frac Gradient 0.896 Pad Volume 714 Main Body Volume 171,612 Flush Volume 28,770 100 M A-Z Sand Pumped 0 100 M Brown Sand Pumped 0 100 M White Sand Pumped 415,270 Proppant in Formation 415,270 Avg Proppant Concentration 3.03 Max Proppant Concentration 4.00 Load to Recover (incl. pumpdown) 4,254 Load to Recover w/o Acid 4,254 15% HCL Spearhead 0 Slickwater Fluid Pumped 4,006 20# Linear Fluid Pumped 80 Diverter Slurry 0 20# Crosslink Fluid Pumped 0 Pump down volume 168 Pump down rate 10.0 Max pump down pressure 6,080 Fluid Temp 72.0 Total Pump Time 1:43 Pumps Lost During Job 0 Treatment Start Time 21:16 0:00 Treatment End Time 22:59 0:00 - Proppant was pumped as a ramp from 0.50 - 3.50 PPA, then as a hold of 4.00 PPA, - No HCl was pumped. - 2 - 20# gel sweeps were pumped prior to flush. - Ball in place plug was utilized. Time for Prop on Perfs 29.0 Time between Stages (TBF) 0:17
23:00	0.55	FRAC	FWL			0		greasing valves

EP WELLS DAILY OPERATIONS REPORT

Report 18

04/25/2018

Well UNIVERSITY 19 PW UNIT 1804H
Wellbore UNIVERSITY 19 PW UNIT 1804H ST01

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
23:33	0.07	FRAC	FWL			0		Pressure test lubricator to 7000 psi. Open well with 5225 psi.
23:37	0.38	FRAC	WLT			0		Begin perf. stage 19
Total	24.00							

06.00 Update

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Description
0:00	1.30	FRAC	FRT			0	"Stage #19 Plug and Perf. RIH with (4) 1' Keane guns: 2.75" OD HSC at 6 SPF with 60° phased perforating guns and Downhole Technology Boss Hog composite ball-in-place frac plug. Set plug @ 18990' Perforate as follows: 18965' - 18966' 18920' - 18921' 18875' - 18876' 18830' - 18831' Stabilized pressure after perf.: 5347 psi Maximum pump down rate: 10 bpm Pump down volume: 165 bbl" POOH
1:18	0.23	FRAC	FWL			0	waiting on other pad ops.
1:32	1.52	FRAC	FRT			0	University 19 PW Unit 1804H Stage 19 Summary Interval 18830 - 18966 Open Well Pressure 4,659 psi Max Treating Pressure 9,336 psi Max Slurry Rate 60.6 bpm Average Treating Pressure 8,712 psi Average Slurry Rate 49.1 bpm Breakdown Pressure 7,962 psi Breakdown Rate 15 bpm Breakdown Volume 7 gal Avg HHP 10,484 hp Final ISIP 5,540 psi Frac Gradient 0.910 psi/ft Pad Volume 1,260 gal Main Body Volume 165,396 gal Flush Volume 28,602 gal 100 M A-Z Sand Pumped 0 lbs 100 M Brown Sand Pumped 0 lbs 100 M White Sand Pumped 417,500 lbs Proppant in Formation 417,500 lbs Avg Proppant Concentration 3.22 lb/gal Max Proppant Concentration 4.00 lb/gal Load to Recover (incl. pumpdown) 4,103 bbls Load to Recover w/o Acid 4,103 bbls 15% HCL Spearhead 0 gal Slickwater Fluid Pumped 3,858 bbls 20# Linear Fluid Pumped 80 bbls Diverter Slurry 0 bbls 20# Crosslink Fluid Pumped 0 bbls Pump down volume 165 bbls Pump down rate 10.0 bpm Max pump down pressure 6,641 psi Fluid Temp 72.0 ?F Total Pump Time 1:30 hr:min Pumps Lost During Job 0 Treatment Start Time 1:31 0:00 0:00 Treatment End Time 3:01 0:00 0:00

EP WELLS DAILY OPERATIONS REPORT

Report 18

04/25/2018

Well UNIVERSITY 19 PW UNIT 1804H
Wellbore UNIVERSITY 19 PW UNIT 1804H ST01

06.00 Update

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Description
							<ul style="list-style-type: none"> - Proppant was pumped as a ramp from 0.50 - 3.50 PPA, then as a hold of 3.50 PPA, and 4.0 PPA - No HCl was pumped. - 2 - 20# gel sweeps were pumped prior to flush. - Ball in place plug was utilized. <p>Time for Prop on Perfs 23.0 minutes Time between Stages (TBF) 0:34 hrs/min</p>
3:03	0.48	FRAC	FWL			0	Grease valves & waiting on other pad ops.
3:32	0.05	FRAC	FWL			0	Pressure test lubricator to 7000 psi. Open well with 4900 psi.
3:35		FRAC	WLT			0	Perf stage 20

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
04/25/2018 00:42	SHELL	Wait On Weather	0.00	WLF	N		4.30	4.30	1	OPEN
Description: Wind speeds too high to get wireline off well .						Title: WOW				
Total							4.30	4.30		

EP WELLS DAILY OPERATIONS REPORT

Report 19

04/26/2018

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 19 PW UNIT 1804H
Wellbore	UNIVERSITY 19 PW UNIT 1804H ST01
WBS No/API No	30274449 / 4230133264.01

Event Summary

Event Type	Completion only	Event Start Date	12/06/2017	Days on Location	19.00
Objective	Install Completion	Original Spud Date	08/10/2017		
Est. Days	65.00	Contractor	PERMIAN WELL SVC		
Work Unit	PERMIAN COMPLETIONS	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	Derek Kasper	Measured Depth(ft)	
Engineer	Lindy Byerly	TVD(ft)	
Other Supervisor	John Bevans	24 Hr Progress(ft)	
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,788.55 / 2,762.90	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	2,182,369/4,979,691	Current MW / BH EMW(ppg)	/
Actual divided by AFE	0.44	LOT/FIT EMW(ppg)	
Daily Cost	298,579	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:							

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	18

Operations Summary

24 Hour Summary
Update Since Report Time
24 Hour Forecast

EP WELLS DAILY OPERATIONS REPORT

Report 19

04/26/2018

Well UNIVERSITY 19 PW UNIT 1804H
Wellbore UNIVERSITY 19 PW UNIT 1804H ST01

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	1.30	FRAC	FRT			0		"Stage #19 Plug and Perf. RIH with (4) 1' Keane guns: 2.75" OD HSC at 6 SPF with 60° phased perforating guns and Downhole Technology Boss Hog composite ball-in-place frac plug. Set plug @ 18990' Perforate as follows: 18965' - 18966' 18920' - 18921' 18875' - 18876' 18830' - 18831' Stabilized pressure after perf.: 5347 psi Maximum pump down rate: 10 bpm Pump down volume: 165 bbl" POOH
1:18	0.23	FRAC	FWL			0		waiting on other pad ops.
1:32	1.52	FRAC	FRT			0		University 19 PW Unit 1804H Stage 19 Summary Interval 18830 - 18966 Open Well Pressure 4,659 psi Max Treating Pressure 9,336 psi Max Slurry Rate 60.6 bpm Average Treating Pressure 8,712 psi Average Slurry Rate 49.1 bpm Breakdown Pressure 7,962 psi Breakdown Rate 15 bpm Breakdown Volume 7 gal Avg HHP 10,484 hp Final ISIP 5,540 psi Frac Gradient 0.910 psi/ft Pad Volume 1,260 gal Main Body Volume 165,396 gal Flush Volume 28,602 gal 100 M A-Z Sand Pumped 0 lbs 100 M Brown Sand Pumped 0 lbs 100 M White Sand Pumped 417,500 lbs Proppant in Formation 417,500 lbs Avg Proppant Concentration 3.22 lb/gal Max Proppant Concentration 4.00 lb/gal Load to Recover (incl. pumpdown) 4,103 bbls Load to Recover w/o Acid 4,103 bbls 15% HCL Spearhead 0 gal Slickwater Fluid Pumped 3,858 bbls 20# Linear Fluid Pumped 80 bbls Diverter Slurry 0 bbls 20# Crosslink Fluid Pumped 0 bbls Pump down volume 165 bbls Pump down rate 10.0 bpm Max pump down pressure 6,641 psi Fluid Temp 72.0 °F Total Pump Time 1:30 hr:min Pumps Lost During Job 0 Treatment Start Time 1:31 0:00 0:00 Treatment End Time 3:01 0:00 0:00 - Proppant was pumped as a ramp from 0.50 - 3.50 PPA, then as a hold of 3.50 PPA, and 4.0 PPA - No HCl was pumped. - 2 - 20# gel sweeps were pumped prior to flush. - Ball in place plug was utilized. Time for Prop on Perfs 23.0 minutes Time between Stages (TBF) 0:34 hrs/min

EP WELLS DAILY OPERATIONS REPORT

Report 19

04/26/2018

Well UNIVERSITY 19 PW UNIT 1804H
Wellbore UNIVERSITY 19 PW UNIT 1804H ST01

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
3:03	0.48	FRAC	FWL			0		Grease valves & waiting on other pad ops.
3:32	0.05	FRAC	FWL			0		Pressure test lubricator to 7000 psi. Open well with 4900 psi.
3:35	1.67	FRAC	WLT			0		"Stage #20 Plug and Perf. RIH with (4) 1' Keane guns: 2.75" OD HSC at 6 SPF with 60° phased perforating guns and Downhole Technology Boss Hog composite ball-in-place frac plug. Set plug @ 18806' Perforate as follows: 18785' - 18786' 18740' - 18741' 18695' - 18696' 18652' - 18653' Stabilized pressure after perf.: 5288 psi Maximum pump down rate: 10 bpm Pump down volume: 157 bbl" POOH
5:15	1.25	FRAC	WLF			0		Waiting on other pad ops (pump maintance & greasing)
6:30	1.67	FRAC	FRT			0		University 19 PW Unit 1804H Stage 20 Summary Interval 18650 - 18786 Open Well Pressure 4,730 psi Max Treating Pressure 9,210 psi Max Slurry Rate 59.0 bpm Average Treating Pressure 8,719 psi Average Slurry Rate 50.7 bpm Breakdown Pressure 7,779 psi Breakdown Rate 17 bpm Breakdown Volume 43 gal Avg HHP 10,835 hp Final ISIP 5,377 psi Frac Gradient 0.896 psi/ft Pad Volume 420 gal Main Body Volume 177,072 gal Flush Volume 28,518 gal 100 M A-Z Sand Pumped 0 lbs 100 M Brown Sand Pumped 0 lbs 100 M White Sand Pumped 411,860 lbs Proppant in Formation 411,860 lbs Avg Proppant Concentration 3.05 lb/gal Max Proppant Concentration 3.50 lb/gal Load to Recover (incl. pumpdown) 4,373 bbls Load to Recover w/o Acid 4,373 bbls 15% HCL Spearhead 0 gal Slickwater Fluid Pumped 4,136 bbls 20# Linear Fluid Pumped 80 bbls Diverter Slurry 0 bbls 20# Crosslink Fluid Pumped 0 bbls Pump down volume 157 bbls Pump down rate 10.0 bpm Max pump down pressure 6,295 psi Fluid Temp 72.0 ?F Total Pump Time 1:35 hr:min Pumps Lost During Job 0 Treatment Start Time 6:30 0:00 0:00 Treatment End Time 8:06 0:00 0:00 - Proppant was pumped as a ramp from 0.50 - 3.50 PPA, then as holds of 3.50 PPA, - No HCl was pumped. - 2 - 20# gel sweeps were pumped prior to flush. - Ball in place plug was utilized.

EP WELLS DAILY OPERATIONS REPORT

Report 19

04/26/2018

Well UNIVERSITY 19 PW UNIT 1804H
Wellbore UNIVERSITY 19 PW UNIT 1804H ST01

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								Time for Prop on Perfs 25.0 minutes Time between Stages (TBF) 1:19 hrs/min
8:10	0.18	FRAC	FWL			0		Wait on other pad operations
8:21	0.10	FRAC	FWL			0		8:21 Pressure test lubricator to 7000 psi. 8:27 Open well with 5100 psi.
8:27	1.57	FRAC	WLT			0		9:15 "Stage #21 Plug and Perf. RIH with (4) 1' Keane guns: 2.75" OD HSC at 6 SPF with 60° phased perforating guns and Downhole Technology Boss Hog composite ball-in-place frac plug. Set plug @ 18630' Perforate as follows: 18605' - 18606' 18560' - 18561' 18515' - 18516' 18470' - 18471' Stabilized pressure after perf.: 5000 psi Maximum pump down rate: 10 bpm Pump down volume: 150 bbl" 9:20 POOH
10:01	0.32	FRAC	GRS			0		10:01 Shut in well with 4650 psi. Grease UMV/LMV 10:20 Handover well to frac.
10:20	0.07	FRAC	WLF			0		Wait on other pad operations
10:24	1.55	FRAC	FRT			0		University 19 PW Unit 1804H Stage 21 Summary Interval 18470 - 18606 Open Well Pressure 4,421 psi Max Treating Pressure 9,251 psi Max Slurry Rate 59.9 bpm Average Treating Pressure 8,598 psi Average Slurry Rate 51.0 bpm Breakdown Pressure 7,247 psi Breakdown Rate 13 bpm Breakdown Volume 10 gal Avg HHP 10,748 hp Final ISIP 5,237 psi Frac Gradient 0.884 psi/ft Pad Volume 1,890 gal Main Body Volume 168,000 gal Flush Volume 28,392 gal 100 M A-Z Sand Pumped 0 lbs 100 M Brown Sand Pumped 212,040 lbs 100 M White Sand Pumped 210,700 lbs Proppant in Formation 422,740 lbs Avg Proppant Concentration 3.27 lb/gal Max Proppant Concentration 4.00 lb/gal Load to Recover (incl. pumpdown) 4,150 bbls Load to Recover w/o Acid 4,150 bbls 15% HCL Spearhead 0 gal Slickwater Fluid Pumped 3,920 bbls 20# Linear Fluid Pumped 80 bbls Diverter Slurry 0 bbls 20# Crosslink Fluid Pumped 0 bbls Pump down volume 150 bbls Pump down rate 10.0 bpm Max pump down pressure 6,100 psi Fluid Temp 72.0 °F Total Pump Time 1:29 hr:min Pumps Lost During Job 0 Treatment Start Time 10:24 0:00 0:00 Treatment End Time 11:54 0:00 0:00

EP WELLS DAILY OPERATIONS REPORT

Report 19

04/26/2018

Well UNIVERSITY 19 PW UNIT 1804H
Wellbore UNIVERSITY 19 PW UNIT 1804H ST01

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								- Proppant was pumped as a ramp from 0.50 - 3.50 PPA, then as holds of 3.50 & 4.00 PPA, - No HCl was pumped. - 2 - 20# gel sweeps were pumped prior to flush. - Ball in place plug was utilized. Time for Prop on Perfs 23.0 minutes Time between Stages (TBF) 0:24 hrs/min
11:57	0.67	FRAC	FWL			0		Wait on other pad operations
12:37	0.05	FRAC	FWL			0		12:37 Pressure test lubricator to 7000 psi. 12:40 Open well with 5100 psi.
12:40	1.63	FRAC	WLT			0		13:30 "Stage #22 Plug and Perf. RIH with (4) 1' Keane guns: 2.75" OD HSC at 6 SPF with 60° phased perforating guns and Downhole Technology Boss Hog composite ball-in-place frac plug. Set plug @ 18452' Perforate as follows: 18425' - 18426' 18380' - 18381' 18335' - 18336' 18290' - 18291' Stabilized pressure after perf.: 4850 psi Maximum pump down rate: 10 bpm Pump down volume: 144 bbl" 13:37 POOH
14:18	0.20	FRAC	WLF			0		14:18 Shut in well with 4300 psi. 14:30 Handover well to frac.
14:30	6.68	FRAC	WLF			0		Wait on other pad operations pump maintance
21:11	1.52	FRAC	FRT			0		University 19 PW Unit 1804H Stage 22 Summary Interval 18290 - 18426 Open Well Pressure 3,930 psi Max Treating Pressure 9,214 psi Max Slurry Rate 60.7 bpm Average Treating Pressure 8,564 psi Average Slurry Rate 50.1 bpm Breakdown Pressure 7,432 psi Breakdown Rate 12 bpm Breakdown Volume 13 gal Avg HHP 10,516 hp Final ISIP 5,180 psi Frac Gradient 0.879 psi/ft Pad Volume 1,260 gal Main Body Volume 165,858 gal Flush Volume 28,224 gal 100 M A-Z Sand Pumped 0 lbs 100 M Brown Sand Pumped 0 lbs 100 M White Sand Pumped 412,640 lbs Proppant in Formation 412,640 lbs Avg Proppant Concentration 3.18 lb/gal Max Proppant Concentration 4.00 lb/gal Load to Recover (incl. pumpdown) 4,096 bbls Load to Recover w/o Acid 4,096 bbls 15% HCL Spearhead 0 gal Slickwater Fluid Pumped 3,869 bbls 20# Linear Fluid Pumped 80 bbls Diverter Slurry 0 bbls 20# Crosslink Fluid Pumped 0 bbls Pump down volume 147 bbls Pump down rate 10.0 bpm Max pump down pressure 5,900 psi Fluid Temp 72.0 °F

EP WELLS DAILY OPERATIONS REPORT

Report 19

04/26/2018

Well UNIVERSITY 19 PW UNIT 1804H
Wellbore UNIVERSITY 19 PW UNIT 1804H ST01

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								Total Pump Time 1:30 hr:min Pumps Lost During Job 1 Treatment Start Time 21:10 0:00 0:00 Treatment End Time 22:40 0:00 0:00 - Proppant was pumped as a ramp from 0.50 - 3.5 PPA and a hold of 3.5 PPA and 4.0 PPA. - A ball in place plug was utilized - Two 20# gel sweeps were pumped prior to flush - Q406 was taken out for fluid end maintenance during the stage. Time for Prop on Perfs 21.0 minutes Time between Stages (TBF) 7:45 hrs/min
22:42	1.30	FRAC	WLF			0		WOW which winds See 1803 well
Total	24.00							

06.00 Update

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Description
0:00	1.80	FRAC	FWL			0	WOW
1:48	0.07	FRAC	FWL			0	Pressure test lubricator to 7000 psi. Open well with 4200 psi.
1:52	1.63	FRAC	WLT			0	"Stage #23 Plug and Perf. RIH with (4) 1' Keane guns: 2.75" OD HSC at 6 SPF with 60° phased perforating guns and Downhole Technology Boss Hog composite ball-in-place frac plug. Set plug @ 18270' Perforate as follows: 18245' - 18246' 18200' - 18201' 18157' - 18158' 18110' - 18111' Stabilized pressure after perf.: 5067 psi Maximum pump down rate: 10 bpm Pump down volume: 146 bbl" POOH
3:30	0.88	FRAC	WLF			0	Grease valves
4:23		FRAC	FRT			0	Frac stage 23

EP WELLS DAILY OPERATIONS REPORT

Report 20

04/27/2018

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 19 PW UNIT 1804H
Wellbore	UNIVERSITY 19 PW UNIT 1804H ST01
WBS No/API No	30274449 / 4230133264.01

Event Summary

Event Type	Completion only	Event Start Date	12/06/2017	Days on Location	20.00
Objective	Install Completion	Original Spud Date	08/10/2017		
Est. Days	65.00	Contractor	PERMIAN WELL SVC		
Work Unit	PERMIAN COMPLETIONS	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	Derek Kasper	Measured Depth(ft)	
Engineer	Lindy Byerly	TVD(ft)	
Other Supervisor	John Bevans	24 Hr Progress(ft)	
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,788.55 / 2,762.90	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	2,518,559/4,979,691	Current MW / BH EMW(ppg)	/
Actual divided by AFE	0.51	LOT/FIT EMW(ppg)	
Daily Cost	303,205	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:							

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	19

Operations Summary

24 Hour Summary
6.5 hrs wow
Update Since Report Time
24 Hour Forecast
Continue Frac ops.

EP WELLS DAILY OPERATIONS REPORT

Report 20

04/27/2018

Well UNIVERSITY 19 PW UNIT 1804H
Wellbore UNIVERSITY 19 PW UNIT 1804H ST01

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	1.80	FRAC	FWL			0		WOW
1:48	0.07	FRAC	FWL			0		Pressure test lubricator to 7000 psi. Open well with 4200 psi.
1:52	1.63	FRAC	WLT			0		"Stage #23 Plug and Perf. RIH with (4) 1' Keane guns: 2.75" OD HSC at 6 SPF with 60° phased perforating guns and Downhole Technology Boss Hog composite ball-in-place frac plug. Set plug @ 18270' Perforate as follows: 18245' - 18246' 18200' - 18201' 18157' - 18158' 18110' - 18111' Stabilized pressure after perf.: 5067 psi Maximum pump down rate: 10 bpm Pump down volume: 146 bbl" POOH
3:30	0.88	FRAC	WLF			0		Grease valves
4:23	1.52	FRAC	FRT			0		University 19 PW Unit 1804H Stage 23 Summary Interval 18110 - 18246 Open Well Pressure 4,391 psi Max Treating Pressure 9,294 psi Max Slurry Rate 61.1 bpm Average Treating Pressure 8,677 psi Average Slurry Rate 50.3 bpm Breakdown Pressure 7,193 psi Breakdown Rate 10 bpm Breakdown Volume 10 gal Avg HHP 10,697 hp Final ISIP 5,431 psi Frac Gradient 0.901 psi/ft Pad Volume 1,386 gal Main Body Volume 173,502 gal Flush Volume 28,602 gal 100 M A-Z Sand Pumped 0 lbs 100 M Brown Sand Pumped 0 lbs 100 M White Sand Pumped 430,440 lbs Proppant in Formation 430,440 lbs Avg Proppant Concentration 3.17 lb/gal Max Proppant Concentration 4.00 lb/gal Load to Recover (incl. pumpdown) 4,277 bbls Load to Recover w/o Acid 4,277 bbls 15% HCL Spearhead 0 gal Slickwater Fluid Pumped 4,051 bbls 20# Linear Fluid Pumped 80 bbls Diverter Slurry 0 bbls 20# Crosslink Fluid Pumped 0 bbls Pump down volume 146 bbls Pump down rate 10.0 bpm Max pump down pressure 5,962 psi Fluid Temp 72.0 ?F Total Pump Time 1:32 hr:min Pumps Lost During Job 0 Treatment Start Time 4:22 0:00 0:00 Treatment End Time 5:54 0:00 0:00 - Proppant was pumped as a ramp from 0.50 - 3.5 PPA and a hold of 3.5 PPA and 4.0 PPA. - A ball in place plug was utilized - Two 20# gel sweeps were pumped prior to flush - Stage was pumped as a stack frac design

EP WELLS DAILY OPERATIONS REPORT

Report 20

04/27/2018

Well UNIVERSITY 19 PW UNIT 1804H
Wellbore UNIVERSITY 19 PW UNIT 1804H ST01

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								Time for Prop on Perfs 22.0 minutes Time between Stages (TBF) 5:42 hrs/min
5:54	0.70	FRAC	FWL			0		waiting on other pad ops
6:36	0.08	FRAC	FWL			0		6:36 Pressure test lubricator to 7000 psi. 6:41 Open well with 4640 psi.
6:41	1.75	FRAC	WLT			0		7:42 "Stage #24 Plug and Perf. RIH with (4) 1' Keane guns: 2.75" OD HSC at 6 SPF with 60° phased perforating guns and Downhole Technology Boss Hog composite ball-in-place frac plug. Set plug @ 18090' Perforate as follows: 18066' - 18067' 18020' - 18021' 17975' - 17976' 17930' - 17931' Stabilized pressure after perf.: 4650 psi Maximum pump down rate: 10 bpm Pump down volume: 142 bbl" 7:47 POOH
8:26	0.27	FRAC	WLF			0		8:26 Shut in well with 4450 psi. 8:42 Handover well to frac.
8:42	0.10	FRAC	WLF			0		Waiting on other pad operations
8:48	1.50	FRAC	FRT			0		University 19 PW Unit 1804H Stage 24 Summary Interval 17930 - 18066 Open Well Pressure 4,240 psi Max Treating Pressure 8,873 psi Max Slurry Rate 59.8 bpm Average Treating Pressure 8,448 psi Average Slurry Rate 50.5 bpm Breakdown Pressure 7,375 psi Breakdown Rate 8 bpm Breakdown Volume 7 gal Avg HHP 10,456 hp Final ISIP 5,183 psi Frac Gradient 0.879 psi/ft Pad Volume 966 gal Main Body Volume 165,438 gal Flush Volume 27,972 gal 100 M A-Z Sand Pumped 0 lbs 100 M Brown Sand Pumped 0 lbs 100 M White Sand Pumped 422,220 lbs Proppant in Formation 422,220 lbs Avg Proppant Concentration 3.22 lb/gal Max Proppant Concentration 4.00 lb/gal Load to Recover (incl. pumpdown) 4,081 bbls Load to Recover w/o Acid 4,081 bbls 15% HCL Spearhead 0 gal Slickwater Fluid Pumped 3,899 bbls 20# Linear Fluid Pumped 40 bbls Diverter Slurry 0 bbls 20# Crosslink Fluid Pumped 0 bbls Pump down volume 142 bbls Pump down rate 10.0 bpm Max pump down pressure 6,200 psi Fluid Temp 72.0 ?F Total Pump Time 1:26 hr:min Pumps Lost During Job 0 Treatment Start Time 8:48 0:00 0:00 Treatment End Time 10:15 0:00 0:00

EP WELLS DAILY OPERATIONS REPORT

Report 20

04/27/2018

Well UNIVERSITY 19 PW UNIT 1804H
Wellbore UNIVERSITY 19 PW UNIT 1804H ST01

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								- Proppant was pumped as a ramp from 0.50 - 3.50 PPA and a hold of 3.50 PPA and 4.00 PPA. - A ball in place plug was utilized - One 20# gel sweep was pumped prior to flush - Ran FR at a concentration of 0.60 gpt. Time for Prop on Perfs 22.0 minutes Time between Stages (TBF) 0:46 hrs/min
10:18	0.70	FRAC	FWL			0		Handover well to WL. Waiting on other pad operations
11:00	0.18	FRAC	FWL			0		11:00 Pressure test lubricator to 7000 psi. 11:11 Open well with 4550 psi.
11:11	1.67	FRAC	WLT			0		12:03 "Stage #25 Plug and Perf. RIH with (4) 1' Keane guns: 2.75" OD HSC at 6 SPF with 60° phased perforating guns and Downhole Technology Boss Hog composite ball-in-place frac plug. Set plug @ 17912' Perforate as follows: 17885' - 17886' 17840' - 17841' 17795' - 17796' 17751' - 17752' Stabilized pressure after perf.: 4950 psi Maximum pump down rate: 10 bpm Pump down volume: 140 bbl" 12:07 POOH
12:51	0.10	FRAC	WLF			0		Shut in well with 4300 psi.
12:57	0.55	FRAC	WLF			0		Wait on other pad operations
13:30	0.25	FRAC	GRS			0		Frac finished with 1803. begin greasing
13:45	0.10	FRAC	WLF			0		Handover to Frac. Wait on other pad operations
13:51	1.62	FRAC	FRT			0		University 19 PW Unit 1804H Stage 25 Summary Interval 17750 - 17886 Open Well Pressure 4,131 psi Max Treating Pressure 9,027 psi Max Slurry Rate 58.2 bpm Average Treating Pressure 8,566 psi Average Slurry Rate 47.4 bpm Breakdown Pressure 8,136 psi Breakdown Rate 10 bpm Breakdown Volume 8 gal Avg HHP 9,952 hp Final ISIP 5,106 psi Frac Gradient 0.873 psi/ft Pad Volume 1,638 gal Main Body Volume 166,236 gal Flush Volume 28,014 gal 100 M A-Z Sand Pumped 0 lbs 100 M Brown Sand Pumped 207,940 lbs 100 M White Sand Pumped 214,930 lbs Proppant in Formation 422,870 lbs Avg Proppant Concentration 3.25 lb/gal Max Proppant Concentration 4.00 lb/gal Load to Recover (incl. pumpdown) 4,098 bbls Load to Recover w/o Acid 4,098 bbls 15% HCL Spearhead 0 gal Slickwater Fluid Pumped 3,878 bbls 20# Linear Fluid Pumped 80 bbls Diverter Slurry 0 bbls 20# Crosslink Fluid Pumped 0 bbls

EP WELLS DAILY OPERATIONS REPORT

Report 20

04/27/2018

Well UNIVERSITY 19 PW UNIT 1804H
Wellbore UNIVERSITY 19 PW UNIT 1804H ST01

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								Pump down volume 140 bbls Pump down rate 10.0 bpm Max pump down pressure 6,100 psi Fluid Temp 72.0 ?F Total Pump Time 1:33 hr:min Pumps Lost During Job 0 Treatment Start Time 13:51 0:00 0:00 Treatment End Time 15:25 0:00 0:00 - Proppant was pumped as a ramp from 0.50 - 3.50 PPA and a hold of 3.50 PPA and 4.00 PPA. - A ball in place plug was utilized - Two 20# gel sweep were pumped prior to flush - Ran FR at a concentration of 0.60 gpt. Time for Prop on Perfs 27.0 minutes Time between Stages (TBF) 0:23 hrs/min
15:28	0.58	FRAC	FWL			0		Handover well to WL. Wait on other pad operations
16:03	0.08	FRAC	FWL			0		16:03 Pressure test lubricator to 7000 psi.
16:08	2.12	FRAC	WLT			0		16:08 Open well with 4500 psi. 17:12 "Stage #26 Plug and Perf. RIH with (4) 1' Keane guns: 2.75" OD HSC at 6 SPF with 60° phased perforating guns and Downhole Technology Boss Hog composite ball-in-place frac plug. Set plug @ 17725' Perforate as follows: 17705' - 17706' 17660' - 17661' 17615' - 17616' 17570' - 17571' Stabilized pressure after perf.: 4770 psi Maximum pump down rate: 10 bpm Pump down volume: 133 bbl" 17:15 POOH
18:15	1.70	FRAC	WLF			0		Grease zipper, Valves & Pump maintance
19:57	1.55	FRAC	FRT			0		University 19 PW Unit 1804H Stage 26 Summary Interval 17570 - 17706 Open Well Pressure 4,028 Max Treating Pressure 9,222 Max Slurry Rate 59.7 Average Treating Pressure 8,750 Average Slurry Rate 49.7 Breakdown Pressure 7,533 Breakdown Rate 13 Breakdown Volume 11 Avg HHP 10,659 Final ISIP 5,096 Frac Gradient 0.872 Pad Volume 1,260 Main Body Volume 169,386 Flush Volume 27,762 100 M A-Z Sand Pumped 0 100 M Brown Sand Pumped 145,660 100 M White Sand Pumped 266,090 Proppant in Formation 411,750 Avg Proppant Concentration 3.09 Max Proppant Concentration 3.50 Load to Recover (incl. pumpdown) 4,166 Load to Recover w/o Acid 4,166 15% HCL Spearhead 0 Slickwater Fluid Pumped 3,953

EP WELLS DAILY OPERATIONS REPORT

Report 20

04/27/2018

Well UNIVERSITY 19 PW UNIT 1804H
Wellbore UNIVERSITY 19 PW UNIT 1804H ST01

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								20# Linear Fluid Pumped 80 Diverter Slurry 0 20# Crosslink Fluid Pumped 0 Pump down volume 133 Pump down rate 10.0 Max pump down pressure 5,800 Fluid Temp 72.0 Total Pump Time 1:31 Pumps Lost During Job 0 Treatment Start Time 19:57 0:00 Treatment End Time 21:28 0:00 - Proppant was pumped as a ramp from 0.50 - 3.50 PPA and a hold of 3.50 PPA - A ball in place plug was utilized - Two 20# gel sweep were pumped prior to flush - Ran KFR 40 at a concentration of 0.50 gpt. Time for Prop on Perfs 20.0 Time between Stages (TBF) 2:07
21:30	0.12	FRAC	FWL			0		Grease valves
21:37	0.07	FRAC	FWL			0		Pressure test lubricator to 7000 psi. Open well with 5000 psi.
21:41	1.57	FRAC	WLT			0		"Stage #27 Plug and Perf. RIH with (4) 1' Keane guns: 2.75" OD HSC at 6 SPF with 60° phased perforating guns and Downhole Technology Boss Hog composite ball-in-place frac plug. Set plug @ 17547' Perforate as follows: 17525' - 17526' 17480' - 17481' 17435' - 17436' 17391' - 17392' Stabilized pressure after perf.: 5050 psi Maximum pump down rate: 10 bpm Pump down volume: 124 bbl" POOH Shut in well with 4300 psi.
23:15	0.67	FRAC	WLF			0		Waiting on other pad ops.
23:55	0.08	FRAC	FRT			0		Frac stage 27
Total	24.00							

06.00 Update

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Description
0:00	1.35	FRAC	FRT			0	University 19 PW Unit 1804H Stage 27 Summary Interval 17390 - 17526 Open Well Pressure 4,369 psi Max Treating Pressure 9,144 psi Max Slurry Rate 61.3 bpm Average Treating Pressure 8,624 psi Average Slurry Rate 52.6 bpm Breakdown Pressure 7,881 psi Breakdown Rate 17 bpm Breakdown Volume 20 gal Avg HHP 11,118 hp Final ISIP 5,013 psi Frac Gradient 0.865 psi/ft

EP WELLS DAILY OPERATIONS REPORT

Report 20

04/27/2018

Well UNIVERSITY 19 PW UNIT 1804H
Wellbore UNIVERSITY 19 PW UNIT 1804H ST01

06.00 Update

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Description
							Pad Volume 756 gal Main Body Volume 167,706 gal Flush Volume 27,636 gal 100 M A-Z Sand Pumped 0 lbs 100 M Brown Sand Pumped 0 lbs 100 M White Sand Pumped 412,980 lbs Proppant in Formation 412,980 lbs Avg Proppant Concentration 3.14 lb/gal Max Proppant Concentration 4.00 lb/gal Load to Recover (incl. pumpdown) 4,117 bbls Load to Recover w/o Acid 4,117 bbls 15% HCL Spearhead 0 gal Slickwater Fluid Pumped 3,913 bbls 20# Linear Fluid Pumped 80 bbls Diverter Slurry 0 bbls 20# Crosslink Fluid Pumped 0 bbls Pump down volume 124 bbls Pump down rate 10.0 bpm Max pump down pressure 5,789 psi Fluid Temp 72.0 ?F Total Pump Time 1:24 hr:min Pumps Lost During Job 0 Treatment Start Time 23:54 0:00 0:00 Treatment End Time 1:18 0:00 0:00 - Proppant was pumped as a ramp from 0.50 - 3.50 PPA and a hold of 3.50 PPA and 4.0 PPA. - A ball in place plug was utilized - Two 20# gel sweep were pumped prior to flush - Ran KFR 40 at a concentration of 0.50 gpt.. Time for Prop on Perfs 19.0 minutes Time between Stages (TBF) 0:15 hrs/min
1:21	0.32	FRAC	FWL			0	Grease valves
1:40	0.08	FRAC	FWL			0	Pressure test lubricator to 7000 psi. Open well with 4800 psi.
1:45	1.50	FRAC	WLT			0	"Stage #28 Plug and Perf. RIH with (4) 1' Keane guns: 2.75" OD HSC at 6 SPF with 60° phased perforating guns and Downhole Technology Boss Hog composite ball-in-place frac plug. Set plug @ 17370' Perforate as follows: 17345' - 17346' 17300' - 17301' 17255' - 17256' 17210' - 17211' Stabilized pressure after perf.: 5070 psi Maximum pump down rate: 10 bpm Pump down volume: 122 bbl" POOH Shut in well with 4200 psi. Handover well to frac.
3:15	1.08	FRAC	WLF			0	Change out pack off rubbers(25 runs) & grease rig lock
4:20	1.37	FRAC	FRT			0	University 19 PW Unit 1804H Stage 28 Summary Interval 17210 - 17346 Open Well Pressure 4,448 psi Max Treating Pressure 9,213 psi Max Slurry Rate 61.6 bpm Average Treating Pressure 8,533 psi Average Slurry Rate 52.6 bpm Breakdown Pressure 7,343 psi

EP WELLS DAILY OPERATIONS REPORT

Report 20

04/27/2018

Well UNIVERSITY 19 PW UNIT 1804H
Wellbore UNIVERSITY 19 PW UNIT 1804H ST01

06.00 Update

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Description
							Breakdown Rate 12 bpm Breakdown Volume 12 gal Avg HHP 11,001 hp Final ISIP 5,171 psi Frac Gradient 0.878 psi/ft Pad Volume 1,050 gal Main Body Volume 161,868 gal Flush Volume 27,552 gal 100 M A-Z Sand Pumped 0 lbs 100 M Brown Sand Pumped 21,180 lbs 100 M White Sand Pumped 398,960 lbs Proppant in Formation 420,140 lbs Avg Proppant Concentration 3.34 lb/gal Max Proppant Concentration 4.00 lb/gal Load to Recover (incl. pumpdown) 3,976 bbls Load to Recover w/o Acid 3,976 bbls 15% HCL Spearhead 0 gal Slickwater Fluid Pumped 3,774 bbls 20# Linear Fluid Pumped 80 bbls Diverter Slurry 0 bbls 20# Crosslink Fluid Pumped 0 bbls Pump down volume 122 bbls Pump down rate 10.0 bpm Max pump down pressure 5,906 psi Fluid Temp 72.0 ?F Total Pump Time 1:23 hr:min Pumps Lost During Job 0 Treatment Start Time 4:18 0:00 0:00 Treatment End Time 5:41 0:00 0:00 - Proppant was pumped as a ramp from 0.50 - 3.50 PPA and a hold of 3.50 PPA and 4.0 PPA - A ball in place plug was utilized - Two 20# gel sweep were pumped prior to flush - Ran KFR 40 at a concentration of 0.50 gpt.. Time for Prop on Perfs 19.0 minutes Time between Stages (TBF) 0:42 hrs/min
5:42		FRAC	FWL			0	Waiting on other pad ops

EP WELLS DAILY OPERATIONS REPORT

Report 21

04/28/2018

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 19 PW UNIT 1804H
Wellbore	UNIVERSITY 19 PW UNIT 1804H ST01
WBS No/API No	30274449 / 4230133264.01

Event Summary

Event Type	Completion only	Event Start Date	12/06/2017	Days on Location	21.00
Objective	Install Completion	Original Spud Date	08/10/2017		
Est. Days	65.00	Contractor	PERMIAN WELL SVC		
Work Unit	PERMIAN COMPLETIONS	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	Derek Kasper	Measured Depth(ft)	
Engineer	Lindy Byerly	TVD(ft)	
Other Supervisor	John Bevans	24 Hr Progress(ft)	
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,788.55 / 2,762.90	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	2,819,751/4,979,691	Current MW / BH EMW(ppg)	/
Actual divided by AFE	0.57	LOT/FIT EMW(ppg)	
Daily Cost	301,191	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:							

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	20

Operations Summary

24 Hour Summary
Update Since Report Time
24 Hour Forecast

EP WELLS DAILY OPERATIONS REPORT

Report 21

04/28/2018

Well UNIVERSITY 19 PW UNIT 1804H
Wellbore UNIVERSITY 19 PW UNIT 1804H ST01

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	1.35	FRAC	FRT			0		<p>University 19 PW Unit 1804H Stage 27 Summary</p> <p>Interval 17390 - 17526</p> <p>Open Well Pressure 4,369 psi</p> <p>Max Treating Pressure 9,144 psi</p> <p>Max Slurry Rate 61.3 bpm</p> <p>Average Treating Pressure 8,624 psi</p> <p>Average Slurry Rate 52.6 bpm</p> <p>Breakdown Pressure 7,881 psi</p> <p>Breakdown Rate 17 bpm</p> <p>Breakdown Volume 20 gal</p> <p>Avg HHP 11,118 hp</p> <p>Final ISIP 5,013 psi</p> <p>Frac Gradient 0.865 psi/ft</p> <p>Pad Volume 756 gal</p> <p>Main Body Volume 167,706 gal</p> <p>Flush Volume 27,636 gal</p> <p>100 M A-Z Sand Pumped 0 lbs</p> <p>100 M Brown Sand Pumped 0 lbs</p> <p>100 M White Sand Pumped 412,980 lbs</p> <p>Proppant in Formation 412,980 lbs</p> <p>Avg Proppant Concentration 3.14 lb/gal</p> <p>Max Proppant Concentration 4.00 lb/gal</p> <p>Load to Recover (incl. pumpdown) 4,117 bbls</p> <p>Load to Recover w/o Acid 4,117 bbls</p> <p>15% HCL Spearhead 0 gal</p> <p>Slickwater Fluid Pumped 3,913 bbls</p> <p>20# Linear Fluid Pumped 80 bbls</p> <p>Diverter Slurry 0 bbls</p> <p>20# Crosslink Fluid Pumped 0 bbls</p> <p>Pump down volume 124 bbls</p> <p>Pump down rate 10.0 bpm</p> <p>Max pump down pressure 5,789 psi</p> <p>Fluid Temp 72.0 ?F</p> <p>Total Pump Time 1:24 hr:min</p> <p>Pumps Lost During Job 0</p> <p>Treatment Start Time 23:54 0:00 0:00</p> <p>Treatment End Time 1:18 0:00 0:00</p> <p>- Proppant was pumped as a ramp from 0.50 - 3.50 PPA and a hold of 3.50 PPA and 4.0 PPA.</p> <p>- A ball in place plug was utilized</p> <p>- Two 20# gel sweep were pumped prior to flush</p> <p>- Ran KFR 40 at a concentration of 0.50 gpt..</p> <p>Time for Prop on Perfs 19.0 minutes</p> <p>Time between Stages (TBF) 0:15 hrs/min</p>
1:21	0.32	FRAC	FWL			0		Grease valves
1:40	0.08	FRAC	FWL			0		Pressure test lubricator to 7000 psi. Open well with 4800 psi.
1:45	1.50	FRAC	WLT			0		<p>"Stage #28 Plug and Perf.</p> <p>RIH with (4) 1' Keane guns: 2.75" OD HSC at 6 SPF with 60° phased perforating guns and Downhole Technology Boss Hog composite ball-in-place frac plug.</p> <p>Set plug @ 17370'</p> <p>Perforate as follows:</p> <p>17345' - 17346'</p> <p>17300' - 17301'</p> <p>17255' - 17256'</p> <p>17210' - 17211'</p> <p>Stabilized pressure after perf.: 5070 psi</p> <p>Maximum pump down rate: 10 bpm</p>

EP WELLS DAILY OPERATIONS REPORT

Report 21

04/28/2018

Well UNIVERSITY 19 PW UNIT 1804H
Wellbore UNIVERSITY 19 PW UNIT 1804H ST01

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								Pump down volume: 122 bbl" POOH Shut in well with 4200 psi. Handover well to frac.
3:15	1.08	FRAC	WLF			0		Change out pack off rubbers(25 runs) & grease rig lock
4:20	1.37	FRAC	FRT			0		University 19 PW Unit 1804H Stage 28 Summary Interval 17210 - 17346 Open Well Pressure 4,448 psi Max Treating Pressure 9,213 psi Max Slurry Rate 61.6 bpm Average Treating Pressure 8,533 psi Average Slurry Rate 52.6 bpm Breakdown Pressure 7,343 psi Breakdown Rate 12 bpm Breakdown Volume 12 gal Avg HHP 11,001 hp Final ISIP 5,171 psi Frac Gradient 0.878 psi/ft Pad Volume 1,050 gal Main Body Volume 161,868 gal Flush Volume 27,552 gal 100 M A-Z Sand Pumped 0 lbs 100 M Brown Sand Pumped 21,180 lbs 100 M White Sand Pumped 398,960 lbs Proppant in Formation 420,140 lbs Avg Proppant Concentration 3.34 lb/gal Max Proppant Concentration 4.00 lb/gal Load to Recover (incl. pumpdown) 3,976 bbls Load to Recover w/o Acid 3,976 bbls 15% HCL Spearhead 0 gal Slickwater Fluid Pumped 3,774 bbls 20# Linear Fluid Pumped 80 bbls Diverter Slurry 0 bbls 20# Crosslink Fluid Pumped 0 bbls Pump down volume 122 bbls Pump down rate 10.0 bpm Max pump down pressure 5,906 psi Fluid Temp 72.0 ?F Total Pump Time 1:23 hr:min Pumps Lost During Job 0 Treatment Start Time 4:18 0:00 0:00 Treatment End Time 5:41 0:00 0:00 - Proppant was pumped as a ramp from 0.50 - 3.50 PPA and a hold of 3.50 PPA and 4.0 PPA - A ball in place plug was utilized - Two 20# gel sweep were pumped prior to flush - Ran KFR 40 at a concentration of 0.50 gpt.. Time for Prop on Perfs 19.0 minutes Time between Stages (TBF) 0:42 hrs/min
5:42	4.55	FRAC	FWL			0		Waiting on other pad ops
10:15	0.12	FRAC	FWL			0		10:15 Pressure test lubricator to 7000 psi. 10:22 Open well with 3900 psi.
10:22	2.22	FRAC	WLT			0		11:25 "Stage #29 Plug and Perf. RIH with (4) 1' Keane guns: 2.75" OD HSC at 6 SPF with 60° phased perforating guns and Downhole Technology Boss Hog composite ball-in-place frac plug. Set plug @ 17190' Perforate as follows: 17165' - 17166'

EP WELLS DAILY OPERATIONS REPORT

Report 21

04/28/2018

Well UNIVERSITY 19 PW UNIT 1804H
Wellbore UNIVERSITY 19 PW UNIT 1804H ST01

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								17120' - 17121' 17075' - 17076' 17030' - 17031' Stabilized pressure after perf.: 5050 psi Maximum pump down rate: 10 bpm Pump down volume: 127 bbl" 11:29 POOH
12:35	0.32	FRAC	GRS			0		12:35 Shut in well with 4250 psi. Grease UMV/LMV/swab 12:54 Handover well to frac.
12:54	1.70	FRAC	FRT			0		University 19 PW Unit 1804H Stage 29 Summary Interval 17030 - 17166 Open Well Pressure 4,253 psi Max Treating Pressure 9,486 psi Max Slurry Rate 59.9 bpm Average Treating Pressure 8,566 psi Average Slurry Rate 48.0 bpm Breakdown Pressure 7,515 psi Breakdown Rate 13 bpm Breakdown Volume 9 gal Avg HHP 10,078 hp Final ISIP 5,013 psi Frac Gradient 0.865 psi/ft Pad Volume 1,050 gal Main Body Volume 171,696 gal Flush Volume 27,342 gal 100 M A-Z Sand Pumped 0 lbs 100 M Brown Sand Pumped 142,550 lbs 100 M White Sand Pumped 282,120 lbs Proppant in Formation 424,670 lbs Avg Proppant Concentration 3.09 lb/gal Max Proppant Concentration 3.50 lb/gal Load to Recover (incl. pumpdown) 4,215 bbls Load to Recover w/o Acid 4,215 bbls 15% HCL Spearhead 0 gal Slickwater Fluid Pumped 4,008 bbls 20# Linear Fluid Pumped 80 bbls Diverter Slurry 0 bbls 20# Crosslink Fluid Pumped 0 bbls Pump down volume 127 bbls Pump down rate 9.0 bpm Max pump down pressure 6,200 psi Fluid Temp 72.0 ?F Total Pump Time 1:33 hr:min Pumps Lost During Job 1 Treatment Start Time 12:59 0:00 0:00 Treatment End Time 14:33 0:00 0:00 - Proppant was pumped as a ramp from 0.50 - 3.50 PPA, then as a hold of 3.50 PPA. - A ball in place plug was utilized - Two 20# gel sweep were pumped prior to flush - Ran KFR 40 at a concentration of 0.50 gpt & 0.75 gpt after 1,145 bbls of 3.50 PPA sand. Time for Prop on Perfs 21.0 minutes Time between Stages (TBF) 0:33 hrs/min
14:36	0.98	FRAC	FWL			0		Handover to WL. Wait on other pad operations
15:35	0.12	FRAC	FWL			0		15:35 Pressure test lubricator to 7000 psi. 15:42 Open well with 4180 psi.
15:42	1.87	FRAC	WLT			0		16:42 "Stage #30 Plug and Perf. RIH with (4) 1' Keane guns: 2.75" OD HSC at 6 SPF with 60° phased perforating guns and Downhole Technology Boss Hog

EP WELLS DAILY OPERATIONS REPORT

Report 21

04/28/2018

Well UNIVERSITY 19 PW UNIT 1804H
Wellbore UNIVERSITY 19 PW UNIT 1804H ST01

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								composite ball-in-place frac plug. Set plug @ 17009' Perforate as follows: 16985' - 16986' 16940' - 16941' 16895' - 16896' 16850' - 16851' Stabilized pressure after perf.: 4830 psi Maximum pump down rate: 10 bpm Pump down volume: 117 bbl" 16:44 POOH
17:34	0.38	FRAC	WLF			0		17:34 Shut in well with 4150 psi. 17:57 Handover well to frac.
17:57	0.25	FRAC	WLF			0		Wait on other pad operations
18:12	1.52	FRAC	FRT			0		University 19 PW Unit 1804H Stage 30 Summary Interval 16850 - 16986 Open Well Pressure 4,155 psi Max Treating Pressure 9,415 psi Max Slurry Rate 60.6 bpm Average Treating Pressure 8,607 psi Average Slurry Rate 51.1 bpm Breakdown Pressure 7,009 psi Breakdown Rate 9 bpm Breakdown Volume 5 gal Avg HHP 10,780 hp Final ISIP 4,769 psi Frac Gradient 0.844 psi/ft Pad Volume 1,260 gal Main Body Volume 172,578 gal Flush Volume 27,300 gal 100 M A-Z Sand Pumped 0 lbs 100 M Brown Sand Pumped 60,000 lbs 100 M White Sand Pumped 362,160 lbs Proppant in Formation 422,160 lbs Avg Proppant Concentration 3.09 lb/gal Max Proppant Concentration 3.50 lb/gal Load to Recover (incl. pumpdown) 4,226 bbls Load to Recover w/o Acid 4,226 bbls 15% HCL Spearhead 0 gal Slickwater Fluid Pumped 4,029 bbls 20# Linear Fluid Pumped 80 bbls Diverter Slurry 0 bbls 20# Crosslink Fluid Pumped 0 bbls Pump down volume 117 bbls Pump down rate 10.0 bpm Max pump down pressure 6,000 psi Fluid Temp 72.0 ?F Total Pump Time 1:30 hr:min Pumps Lost During Job 1 Treatment Start Time 18:11 0:00 0:00 Treatment End Time 19:41 0:00 0:00 - Proppant was pumped as a ramp from 0.50 - 3.50 PPA, then as holds of 3.50 . - A ball in place plug was utilized - Two 20# gel sweep were pumped prior to flush - Pump 10073 taken out for maintenance. Time for Prop on Perfs 17.0 minutes Time between Stages (TBF) 1:18 hrs/min
19:43	1.47	FRAC	FWL			0		waiting on other pad ops

EP WELLS DAILY OPERATIONS REPORT

Report 21

04/28/2018

Well UNIVERSITY 19 PW UNIT 1804H
Wellbore UNIVERSITY 19 PW UNIT 1804H ST01

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
21:11	0.08	FRAC	FWL			0		Pressure test lubricator to 7000 psi. Open well with 4150 psi.
21:16	1.53	FRAC	WLT			0		"Stage #31 Plug and Perf. RIH with (4) 1' Keane guns: 2.75" OD HSC at 6 SPF with 60° phased perforating guns and Downhole Technology Boss Hog composite ball-in-place frac plug. Set plug @ 16830' Perforate as follows: 16805' - 16806' 16760' - 16761' 16715' - 16716' 16670' - 16671' Stabilized pressure after perf.: 4731 psi Maximum pump down rate: 10 bpm Pump down volume: 111 bbl" POOH
22:48	1.20	FRAC	WLT			0		waiting on other padops
Total	24.00							

06.00 Update

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Description
0:00	0.78	FRAC	WLF			0	Waiting other pad ops.
0:47	1.43	FRAC	FRT			0	University 19 PW Unit 1804H Stage 31 Summary Interval 16670 - 16806 Open Well Pressure 4,453 psi Max Treating Pressure 9,139 psi Max Slurry Rate 61.5 bpm Average Treating Pressure 8,462 psi Average Slurry Rate 53.1 bpm Breakdown Pressure 6,511 psi Breakdown Rate 7 bpm Breakdown Volume 8 gal Avg HHP 11,013 hp Final ISIP 5,066 psi Frac Gradient 0.869 psi/ft Pad Volume 3,696 gal Main Body Volume 166,740 gal Flush Volume 27,174 gal 100 M A-Z Sand Pumped 0 lbs 100 M Brown Sand Pumped 227,170 lbs 100 M White Sand Pumped 202,400 lbs Proppant in Formation 429,570 lbs Avg Proppant Concentration 3.31 lb/gal Max Proppant Concentration 4.00 lb/gal Load to Recover (incl. pumpdown) 4,081 bbls Load to Recover w/o Acid 4,081 bbls 15% HCL Spearhead 0 gal Slickwater Fluid Pumped 3,890 bbls 20# Linear Fluid Pumped 80 bbls Diverter Slurry 0 bbls 20# Crosslink Fluid Pumped 0 bbls Pump down volume 111 bbls Pump down rate 10.0 bpm Max pump down pressure 5,894 psi Fluid Temp 72.0 °F Total Pump Time 1:25 hr:min Pumps Lost During Job 0 Treatment Start Time 0:46 0:00 0:00 Treatment End Time 2:11 0:00 0:00

EP WELLS DAILY OPERATIONS REPORT

Report 21

04/28/2018

Well UNIVERSITY 19 PW UNIT 1804H
 Wellbore UNIVERSITY 19 PW UNIT 1804H ST01

06.00 Update

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Description
							- Proppant was pumped as a ramp from 0.50 - 3.50 PPA, then as holds of 3.50 and 4.0 PPA. - A ball in place plug was utilized - Two 20# gel sweep were pumped prior to flush - Time for Prop on Perfs 18.0 minutes Time between Stages (TBF) 1:20 hrs/min
2:13	0.23	FRAC	WLF			0	wait on other pad ops
2:27	0.12	FRAC	WLF			0	Pressure test lubricator to 7000 psi. Open well with 4600 psi.
2:34		FRAC	WLT			0	Perf stage 32

EP WELLS DAILY OPERATIONS REPORT

Report 22

04/29/2018

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 19 PW UNIT 1804H
Wellbore	UNIVERSITY 19 PW UNIT 1804H ST01
WBS No/API No	30274449 / 4230133264.01

Event Summary

Event Type	Completion only	Event Start Date	12/06/2017	Days on Location	22.00
Objective	Install Completion	Original Spud Date	08/10/2017		
Est. Days	65.00	Contractor	PERMIAN WELL SVC		
Work Unit	PERMIAN COMPLETIONS	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	Derek Kasper	Measured Depth(ft)	
Engineer	Lindy Byerly	TVD(ft)	
Other Supervisor	John Bevans	24 Hr Progress(ft)	
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,788.55 / 2,762.90	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	3,115,807/4,979,691	Current MW / BH EMW(ppg)	/
Actual divided by AFE	0.63	LOT/FIT EMW(ppg)	
Daily Cost	296,078	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:							

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	21

Operations Summary

24 Hour Summary
Update Since Report Time
24 Hour Forecast

EP WELLS DAILY OPERATIONS REPORT

Report 22

04/29/2018

Well UNIVERSITY 19 PW UNIT 1804H
Wellbore UNIVERSITY 19 PW UNIT 1804H ST01

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	0.78	FRAC	WLF			0		Waiting other pad ops.
0:47	1.43	FRAC	FRT			0		<p>University 19 PW Unit 1804H Stage 31 Summary</p> <p>Interval 16670 - 16806</p> <p>Open Well Pressure 4,453 psi</p> <p>Max Treating Pressure 9,139 psi</p> <p>Max Slurry Rate 61.5 bpm</p> <p>Average Treating Pressure 8,462 psi</p> <p>Average Slurry Rate 53.1 bpm</p> <p>Breakdown Pressure 6,511 psi</p> <p>Breakdown Rate 7 bpm</p> <p>Breakdown Volume 8 gal</p> <p>Avg HHP 11,013 hp</p> <p>Final ISIP 5,066 psi</p> <p>Frac Gradient 0.869 psi/ft</p> <p>Pad Volume 3,696 gal</p> <p>Main Body Volume 166,740 gal</p> <p>Flush Volume 27,174 gal</p> <p>100 M A-Z Sand Pumped 0 lbs</p> <p>100 M Brown Sand Pumped 227,170 lbs</p> <p>100 M White Sand Pumped 202,400 lbs</p> <p>Proppant in Formation 429,570 lbs</p> <p>Avg Proppant Concentration 3.31 lb/gal</p> <p>Max Proppant Concentration 4.00 lb/gal</p> <p>Load to Recover (incl. pumpdown) 4,081 bbls</p> <p>Load to Recover w/o Acid 4,081 bbls</p> <p>15% HCL Spearhead 0 gal</p> <p>Slickwater Fluid Pumped 3,890 bbls</p> <p>20# Linear Fluid Pumped 80 bbls</p> <p>Diverter Slurry 0 bbls</p> <p>20# Crosslink Fluid Pumped 0 bbls</p> <p>Pump down volume 111 bbls</p> <p>Pump down rate 10.0 bpm</p> <p>Max pump down pressure 5,894 psi</p> <p>Fluid Temp 72.0 ?F</p> <p>Total Pump Time 1:25 hr:min</p> <p>Pumps Lost During Job 0</p> <p>Treatment Start Time 0:46 0:00 0:00</p> <p>Treatment End Time 2:11 0:00 0:00</p> <p>- Proppant was pumped as a ramp from 0.50 - 3.50 PPA, then as holds of 3.50 and 4.0 PPA.</p> <p>- A ball in place plug was utilized</p> <p>- Two 20# gel sweep were pumped prior to flush</p> <p>-</p> <p>Time for Prop on Perfs 18.0 minutes</p> <p>Time between Stages (TBF) 1:20 hrs/min</p>
2:13	0.23	FRAC	WLF			0		wait on other pad ops
2:27	0.12	FRAC	WLF			0		<p>Pressure test lubricator to 7000 psi.</p> <p>Open well with 4600 psi.</p>
2:34	1.43	FRAC	WLT			0		<p>"Stage #32 Plug and Perf.</p> <p>RIH with (4) 1' Keane guns: 2.75" OD HSC at 6 SPF with 60° phased perforating guns and Downhole Technology Boss Hog composite ball-in-place frac plug.</p> <p>Set plug @ 16647'</p> <p>Perforate as follows:</p> <p>16625' - 16626'</p> <p>16580' - 16581'</p> <p>16535' - 16536'</p> <p>16490' - 16491'</p> <p>Stabilized pressure after perf.: 4596 psi</p>

EP WELLS DAILY OPERATIONS REPORT

Report 22

04/29/2018

Well UNIVERSITY 19 PW UNIT 1804H
Wellbore UNIVERSITY 19 PW UNIT 1804H ST01

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								Maximum pump down rate: 10 bpm Pump down volume: 106 bbl" POOH Shut in well with 4300 psi.
4:00	1.15	FRAC	WLF			0		Handover well to frac. rehead WL (34 Runs)
5:09	1.47	FRAC	FRT			0		University 19 PW Unit 1804H Stage 32 Summary Interval 16490 - 16626 Open Well Pressure 4,160 psi Max Treating Pressure 9,214 psi Max Slurry Rate 61.3 bpm Average Treating Pressure 8,329 psi Average Slurry Rate 53.3 bpm Breakdown Pressure 7,251 psi Breakdown Rate 13 bpm Breakdown Volume 16 gal Avg HHP 10,881 hp Final ISIP 4,910 psi Frac Gradient 0.856 psi/ft Pad Volume 798 gal Main Body Volume 164,010 gal Flush Volume 27,132 gal 100 M A-Z Sand Pumped 0 lbs 100 M Brown Sand Pumped 119,780 lbs 100 M White Sand Pumped 308,860 lbs Proppant in Formation 428,640 lbs Avg Proppant Concentration 3.34 lb/gal Max Proppant Concentration 4.00 lb/gal Load to Recover (incl. pumpdown) 4,011 bbls Load to Recover w/o Acid 4,011 bbls 15% HCL Spearhead 0 gal Slickwater Fluid Pumped 3,825 bbls 20# Linear Fluid Pumped 80 bbls Diverter Slurry 0 bbls 20# Crosslink Fluid Pumped 0 bbls Pump down volume 106 bbls Pump down rate 10.0 bpm Max pump down pressure 5,374 psi Fluid Temp 72.0 ?F Total Pump Time 1:24 hr:min Pumps Lost During Job 0 Treatment Start Time 5:08 0:00 0:00 Treatment End Time 6:32 0:00 0:00 - Proppant was pumped as a ramp from 0.50 - 3.50 PPA, then as holds of 3.50 and 4.00 PPA. - A ball in place plug was utilized - Two 20# gel sweep were pumped prior to flush - Time for Prop on Perfs 18.0 minutes Time between Stages (TBF) 0:25 hrs/min
6:37	1.22	FRAC	FWL			0		Wait on other pad operations
7:50	0.17	FRAC	FWL			0		7:50 Pressure test lubricator to 7000 psi. 8:00 Open well with 4360 psi.
8:00	1.72	FRAC	WLT			0		8:59 "Stage #33 Plug and Perf. RIH with (4) 1' Keane guns: 2.75" OD HSC at 6 SPF with 60° phased perforating guns and Downhole Technology Boss Hog composite ball-in-place frac plug. Set plug @ 16470' Perforate as follows: 16445' - 16446'

EP WELLS DAILY OPERATIONS REPORT

Report 22

04/29/2018

Well UNIVERSITY 19 PW UNIT 1804H
Wellbore UNIVERSITY 19 PW UNIT 1804H ST01

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								16400' - 16401' 16358' - 16359' 16305' - 16306' Stabilized pressure after perf.: 4850 psi Maximum pump down rate: 10 bpm Pump down volume: 101 bbl" 9:03 POOH
9:43	0.38	FRAC	WLF			0		9:43 Shut in well with 4350 psi. 10:06 Handover well to frac.
10:06	0.20	FRAC	WLF			0		Wait on other pad operations
10:18	1.38	FRAC	FRT			0		University 19 PW Unit 1804H Stage 33 Summary Interval 16310 - 16446 Open Well Pressure 4,259 psi Max Treating Pressure 9,081 psi Max Slurry Rate 60.5 bpm Average Treating Pressure 8,207 psi Average Slurry Rate 54.5 bpm Breakdown Pressure 6,696 psi Breakdown Rate 8 bpm Breakdown Volume 6 gal Avg HHP 10,963 hp Final ISIP 4,977 psi Frac Gradient 0.862 psi/ft Pad Volume 1,134 gal Main Body Volume 159,012 gal Flush Volume 26,880 gal 100 M A-Z Sand Pumped 0 lbs 100 M Brown Sand Pumped 231,210 lbs 100 M White Sand Pumped 186,700 lbs Proppant in Formation 417,910 lbs Avg Proppant Concentration 3.35 lb/gal Max Proppant Concentration 4.00 lb/gal Load to Recover (incl. pumpdown) 3,887 bbls Load to Recover w/o Acid 3,887 bbls 15% HCL Spearhead 0 gal Slickwater Fluid Pumped 3,706 bbls 20# Linear Fluid Pumped 80 bbls Diverter Slurry 0 bbls 20# Crosslink Fluid Pumped 0 bbls Pump down volume 101 bbls Pump down rate 10.0 bpm Max pump down pressure 6,000 psi Fluid Temp 72.0 °F Total Pump Time 1:19 hr:min Pumps Lost During Job 0 Treatment Start Time 10:18 0:00 0:00 Treatment End Time 11:38 0:00 0:00 - Proppant was pumped as a ramp from 0.50 - 3.50 PPA, then as holds of 3.50 & 4.00 PPA. - A ball in place plug was utilized - Two 20# gel sweep were pumped prior to flush Time for Prop on Perfs 19.0 minutes Time between Stages (TBF) 0:26 hrs/min
11:41	0.58	FRAC	FWL			0		Handover to WL. Wait on other pad operations
12:16	0.07	FRAC	FWL			0		12:16 Pressure test lubricator to 7000 psi. 12:20 Open well with 4580 psi.
12:20	2.07	FRAC	WLT			0		13:13 "Stage #34 Plug and Perf. RIH with (4) 1' Keane guns: 2.75" OD HSC at 6 SPF with 60° phased perforating guns and Downhole Technology Boss Hog composite ball-in-place frac plug.

EP WELLS DAILY OPERATIONS REPORT

Report 22

04/29/2018

Well UNIVERSITY 19 PW UNIT 1804H
Wellbore UNIVERSITY 19 PW UNIT 1804H ST01

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								Set plug @ 16290' Perforate as follows: 16265' - 16266' 16219' - 16220' 16175' - 16176' 16130' - 16131' Stabilized pressure after perf.: 4620 psi Maximum pump down rate: 10 bpm Pump down volume: 101 bbl" 13:17 POOH
14:24	0.27	FRAC	WLF			0		14:24 Shut in well with 4400 psi. 14:40 Handover well to frac.
14:40	0.12	FRAC	WLF			0		Wait on other pad operations
14:47	1.53	FRAC	FRT			0		University 19 PW Unit 1804H Stage 34 Summary Interval 16130 - 16266 Open Well Pressure 4,171 psi Max Treating Pressure 8,943 psi Max Slurry Rate 60.3 bpm Average Treating Pressure 8,266 psi Average Slurry Rate 51.6 bpm Breakdown Pressure 7,422 psi Breakdown Rate 12 bpm Breakdown Volume 36 gal Avg HHP 10,454 hp Final ISIP 5,292 psi Frac Gradient 0.889 psi/ft Pad Volume 1,344 gal Main Body Volume 165,396 gal Flush Volume 26,712 gal 100 M A-Z Sand Pumped 0 lbs 100 M Brown Sand Pumped 79,040 lbs 100 M White Sand Pumped 339,900 lbs Proppant in Formation 418,940 lbs Avg Proppant Concentration 3.25 lb/gal Max Proppant Concentration 4.00 lb/gal Load to Recover (incl. pumpdown) 4,039 bbls Load to Recover w/o Acid 4,039 bbls 15% HCL Spearhead 0 gal Slickwater Fluid Pumped 3,858 bbls 20# Linear Fluid Pumped 80 bbls Diverter Slurry 0 bbls 20# Crosslink Fluid Pumped 0 bbls Pump down volume 101 bbls Pump down rate 10.0 bpm Max pump down pressure 5,900 psi Fluid Temp 72.0 ?F Total Pump Time 1:28 hr:min Pumps Lost During Job 0 Treatment Start Time 14:47 0:00 0:00 Treatment End Time 16:16 0:00 0:00 - Proppant was pumped as a ramp from 0.50 - 3.50 PPA, then as holds of 3.50 & 4.00 PPA. - A ball in place plug was utilized - Two 20# gel sweep were pumped prior to flush Time for Prop on Perfs 25.0 minutes Time between Stages (TBF) 0:57 hrs/min
16:19	0.60	FRAC	FWL			0		Handover to WL. Wait on other pad operations
16:55	0.07	FRAC	FWL			0		16:55 Pressure test lubricator to 7000 psi. 16:59 Open well with 4580 psi.

EP WELLS DAILY OPERATIONS REPORT

Report 22

04/29/2018

Well UNIVERSITY 19 PW UNIT 1804H
Wellbore UNIVERSITY 19 PW UNIT 1804H ST01

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
16:59	1.68	FRAC	WLT			0		17:59 "Stage #35 Plug and Perf. RIH with (4) 1' Keane guns: 2.75" OD HSC at 6 SPF with 60° phased perforating guns and Downhole Technology Boss Hog composite ball-in-place frac plug. Set plug @ 16110' Perforate as follows: 16085' - 16086' 16040' - 16041' 15995' - 15996' 15950' - 15951' Stabilized pressure after perf.: 4680 psi Maximum pump down rate: 10 bpm Pump down volume: 106 bbl" 18:01 POOH
18:40	4.30	FRAC	WLF			0		WOW
22:58	1.03	FRAC	WLF			0		Frac stage
Total	24.00							

06.00 Update

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Description
0:00	0.63	FRAC	FRT			0	University 19 PW Unit 1804H Stage 35 Summary Interval 15950 - 16086 Open Well Pressure 3,933 psi Max Treating Pressure 9,183 psi Max Slurry Rate 59.0 bpm Average Treating Pressure 8,298 psi Average Slurry Rate 45.5 bpm Breakdown Pressure 8,365 psi Breakdown Rate 16 bpm Breakdown Volume 24 gal Avg HHP 9,254 hp Final ISIP 4,988 psi Frac Gradient 0.863 psi/ft Pad Volume 1,638 gal Main Body Volume 181,272 gal Flush Volume 26,712 gal 100 M A-Z Sand Pumped 0 lbs 100 M Brown Sand Pumped 121,300 lbs 100 M White Sand Pumped 302,980 lbs Proppant in Formation 424,280 lbs Avg Proppant Concentration 5.07 lb/gal Max Proppant Concentration 3.50 lb/gal Load to Recover (incl. pumpdown) 4,422 bbls Load to Recover w/o Acid 4,422 bbls 15% HCL Spearhead 0 gal Slickwater Fluid Pumped 3,669 bbls 20# Linear Fluid Pumped 647 bbls Diverter Slurry 0 bbls 20# Crosslink Fluid Pumped 0 bbls Pump down volume 106 bbls Pump down rate 10.0 bpm Max pump down pressure 5,800 psi Fluid Temp 72.0 °F Total Pump Time 2:09 hr:min Pumps Lost During Job 0 Treatment Start Time 22:27 0:00 0:00 Treatment End Time 0:36 0:00 0:00 - Proppant was pumped as a ramp from 0.50 - 3.50 PPA, then as holds

EP WELLS DAILY OPERATIONS REPORT

Report 22

04/29/2018

Well UNIVERSITY 19 PW UNIT 1804H
Wellbore UNIVERSITY 19 PW UNIT 1804H ST01

06.00 Update

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Description
							of 3.50 - A ball in place plug was utilized - Two 20# gel sweep were pumped prior to flush - We had to shut down 1219 bbls into the stage due to issues with the blender. Time for Prop on Perfs 27.0 minutes Time between Stages (TBF) 4:13 hrs/min
0:38	0.25	FRAC	FWL			0	Handover well to wireline. Pressure test lubricator to 7000 psi. Open well with 4825 psi.
0:53	0.62	FRAC	FRT			0	Perf stage 36
1:30		FRAC	FRT			0	POOH

EP WELLS DAILY OPERATIONS REPORT

Report 23

04/30/2018

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 19 PW UNIT 1804H
Wellbore	UNIVERSITY 19 PW UNIT 1804H ST01
WBS No/API No	30274449 / 4230133264.01

Event Summary

Event Type	Completion only	Event Start Date	12/06/2017	Days on Location	23.00
Objective	Install Completion	Original Spud Date	08/10/2017		
Est. Days	65.00	Contractor	PERMIAN WELL SVC		
Work Unit	PERMIAN COMPLETIONS	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	Derek Kasper	Measured Depth(ft)	
Engineer	Lindy Byerly	TVD(ft)	
Other Supervisor	John Bevans	24 Hr Progress(ft)	
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,788.55 / 2,762.90	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	3,351,025/4,979,691	Current MW / BH EMW(ppg)	/
Actual divided by AFE	0.67	LOT/FIT EMW(ppg)	
Daily Cost	235,218	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:							

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
Update Since Report Time
24 Hour Forecast

EP WELLS DAILY OPERATIONS REPORT

Report 23

04/30/2018

Well UNIVERSITY 19 PW UNIT 1804H
Wellbore UNIVERSITY 19 PW UNIT 1804H ST01

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	0.63	FRAC	FRT			0		<p>University 19 PW Unit 1804H Stage 35 Summary</p> <p>Interval 15950 - 16086</p> <p>Open Well Pressure 3,933 psi</p> <p>Max Treating Pressure 9,183 psi</p> <p>Max Slurry Rate 59.0 bpm</p> <p>Average Treating Pressure 8,298 psi</p> <p>Average Slurry Rate 45.5 bpm</p> <p>Breakdown Pressure 8,365 psi</p> <p>Breakdown Rate 16 bpm</p> <p>Breakdown Volume 24 gal</p> <p>Avg HHP 9,254 hp</p> <p>Final ISIP 4,988 psi</p> <p>Frac Gradient 0.863 psi/ft</p> <p>Pad Volume 1,638 gal</p> <p>Main Body Volume 181,272 gal</p> <p>Flush Volume 26,712 gal</p> <p>100 M A-Z Sand Pumped 0 lbs</p> <p>100 M Brown Sand Pumped 121,300 lbs</p> <p>100 M White Sand Pumped 302,980 lbs</p> <p>Proppant in Formation 424,280 lbs</p> <p>Avg Proppant Concentration 5.07 lb/gal</p> <p>Max Proppant Concentration 3.50 lb/gal</p> <p>Load to Recover (incl. pumpdown) 4,422 bbls</p> <p>Load to Recover w/o Acid 4,422 bbls</p> <p>15% HCL Spearhead 0 gal</p> <p>Slickwater Fluid Pumped 3,669 bbls</p> <p>20# Linear Fluid Pumped 647 bbls</p> <p>Diverter Slurry 0 bbls</p> <p>20# Crosslink Fluid Pumped 0 bbls</p> <p>Pump down volume 106 bbls</p> <p>Pump down rate 10.0 bpm</p> <p>Max pump down pressure 5,800 psi</p> <p>Fluid Temp 72.0 °F</p> <p>Total Pump Time 2:09 hr:min</p> <p>Pumps Lost During Job 0</p> <p>Treatment Start Time 22:27 0:00 0:00</p> <p>Treatment End Time 0:36 0:00 0:00</p> <p>- Proppant was pumped as a ramp from 0.50 - 3.50 PPA, then as holds of 3.50</p> <p>- A ball in place plug was utilized</p> <p>- Two 20# gel sweep were pumped prior to flush</p> <p>- We had to shut down 1219 bbls into the stage due to issues with the blender.</p> <p>Time for Prop on Perfs 27.0 minutes</p> <p>Time between Stages (TBF) 4:13 hrs/min</p>
0:38	0.25	FRAC	FWL			0		<p>Handover well to wireline.</p> <p>Pressure test lubricator to 7000 psi.</p> <p>Open well with 4825 psi.</p>
0:53	1.47	FRAC	WLT			0		<p>"Stage #36 Plug and Perf.</p> <p>RIH with (4) 1' Keane guns: 2.75" OD HSC at 6 SPF with 60° phased perforating guns and Downhole Technology Boss Hog composite ball-in-place frac plug.</p> <p>Set plug @ 15929'</p> <p>Perforate as follows:</p> <p>15905' - 15906'</p> <p>15860' - 15861'</p> <p>15815' - 15816'</p> <p>15771' - 15772'</p> <p>Stabilized pressure after perf.: 4810 psi</p>

EP WELLS DAILY OPERATIONS REPORT

Report 23

04/30/2018

Well UNIVERSITY 19 PW UNIT 1804H
Wellbore UNIVERSITY 19 PW UNIT 1804H ST01

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								Maximum pump down rate: 10 bpm Pump down volume: 93 bbl" POOH Shut in well with 4525 psi.
2:21	2.12	FRAC	WLF			0		Waiting on other pad ops
4:28	2.37	FRAC	FRT			0		University 19 PW Unit 1804H Stage 36 Summary Interval 15770 - 15906 Open Well Pressure 4,243 psi Max Treating Pressure 9,367 psi Max Slurry Rate 60.0 bpm Average Treating Pressure 8,447 psi Average Slurry Rate 43.3 bpm Breakdown Pressure 9,166 psi Breakdown Rate 9 bpm Breakdown Volume 13 gal Avg HHP 8,965 hp Final ISIP 5,157 psi Frac Gradient 0.877 psi/ft Pad Volume 3,150 gal Main Body Volume 207,480 gal Flush Volume 26,628 gal 100 M A-Z Sand Pumped 0 lbs 100 M Brown Sand Pumped 183,800 lbs 100 M White Sand Pumped 235,510 lbs Proppant in Formation 419,310 lbs Avg Proppant Concentration 2.61 lb/gal Max Proppant Concentration 3.50 lb/gal Load to Recover (incl. pumpdown) 5,033 bbls Load to Recover w/o Acid 5,033 bbls 15% HCL Spearhead 0 gal Slickwater Fluid Pumped 4,860 bbls 20# Linear Fluid Pumped 80 bbls Diverter Slurry 0 bbls 20# Crosslink Fluid Pumped 0 bbls Pump down volume 93 bbls Pump down rate 10.0 bpm Max pump down pressure 5,752 psi Fluid Temp 72.0 ?F Total Pump Time 2:19 hr:min Pumps Lost During Job 0 Treatment Start Time 4:28 0:00 0:00 Treatment End Time 6:47 0:00 0:00 - Proppant was pumped as a 0.25 PPA slug then a 0.50 PPA step before starting a ramp from 0.50 - 3.50 PPA, then as a hold of 3.50 PPA - A ball in place plug was utilized - Two 20# gel sweep were pumped prior to flush Time for Prop on Perfs 55.0 minutes Time between Stages (TBF) 0:45 hrs/min
6:50	0.25	FRAC	FWL			0		Handover to WL. Wait on other pad operations
7:05	0.10	FRAC	FWL			0		7:05 Pressure test lubricator to 7500 psi. 7:11 Open well with 4690 psi.
7:11	1.67	FRAC	WLT			0		8:06 "Stage #37 Plug and Perf. RIH with (4) 1' Keane guns: 2.75" OD HSC at 6 SPF with 60° phased perforating guns and Downhole Technology Boss Hog composite ball-in-place frac plug. Set plug @ 15750'

EP WELLS DAILY OPERATIONS REPORT

Report 23

04/30/2018

Well UNIVERSITY 19 PW UNIT 1804H
Wellbore UNIVERSITY 19 PW UNIT 1804H ST01

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								Perforate as follows: 15723' - 15724' 15680' - 15681' 15635' - 15636' 15590' - 15591' Stabilized pressure after perf.: 4760 psi Maximum pump down rate: 10 bpm Pump down volume: 87 bbl" 8:11 POOH
8:51	0.32	FRAC	WLF			0		8:51 Shut in well with 4550 psi. 9:10 Handover well to frac.
9:10	0.35	FRAC	WLF			0		Wait on other pad operations
9:31	1.63	FRAC	FRT			0		University 19 PW Unit 1804H Stage 37 Summary Interval 15590 - 15726 Open Well Pressure 4,370 psi Max Treating Pressure 9,040 psi Max Slurry Rate 60.4 bpm Average Treating Pressure 8,366 psi Average Slurry Rate 47.7 bpm Breakdown Pressure 8,236 psi Breakdown Rate 9 bpm Breakdown Volume 9 gal Avg HHP 9,781 hp Final ISIP 5,000 psi Frac Gradient 0.864 psi/ft Pad Volume 1,806 gal Main Body Volume 169,050 gal Flush Volume 26,292 gal 100 M A-Z Sand Pumped 0 lbs 100 M Brown Sand Pumped 228,910 lbs 100 M White Sand Pumped 198,070 lbs Proppant in Formation 426,980 lbs Avg Proppant Concentration 3.13 lb/gal Max Proppant Concentration 3.50 lb/gal Load to Recover (incl. pumpdown) 4,112 bbls Load to Recover w/o Acid 4,112 bbls 15% HCL Spearhead 0 gal Slickwater Fluid Pumped 3,945 bbls 20# Linear Fluid Pumped 80 bbls Diverter Slurry 0 bbls 20# Crosslink Fluid Pumped 0 bbls Pump down volume 87 bbls Pump down rate 10.0 bpm Max pump down pressure 5,700 psi Fluid Temp 72.0 ?F Total Pump Time 1:34 hr:min Pumps Lost During Job 0 Treatment Start Time 9:31 0:00 0:00 Treatment End Time 11:06 0:00 0:00 - Proppant was pumped as a ramp from 0.50 - 3.50 PPA, then as a hold of 3.50 PPA. - A ball in place plug was utilized - Two 20# gel sweep were pumped prior to flush Time for Prop on Perfs 25.0 minutes Time between Stages (TBF) 0:34 hrs/min
11:09	12.85	FRAC	FWL			0		Handover to WL. Wait on other pad operations. (see 1803)
Total	24.00							

EP WELLS DAILY OPERATIONS REPORT

Report 23

04/30/2018

Well UNIVERSITY 19 PW UNIT 1804H
Wellbore UNIVERSITY 19 PW UNIT 1804H ST01

06.00 Update

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Description
0:00	0.30	FRAC	FWL			0	Pressure test lubricator to 7000 psi. Open well with 4000 psi.
0:18	1.35	FRAC	WLT			0	"Stage #38 Plug and Perf. RIH with (4) 1' Keane guns: 2.75" OD HSC at 6 SPF with 60° phased perforating guns and Downhole Technology Boss Hog composite ball-in-place frac plug. Set plug @ 15570' Perforate as follows: 15545' - 15546' 15500' - 15501' 15455' - 15456' 15410' - 15411' Stabilized pressure after perf.: 4530 psi Maximum pump down rate: 10 bpm Pump down volume: 82 bbl" POOH Shut in well with 4075 psi.
1:39		FRAC	WLT			0	Handover well to frac. (See NPT on 1803 report)

EP WELLS DAILY OPERATIONS REPORT

Report 24

05/01/2018

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 19 PW UNIT 1804H
Wellbore	UNIVERSITY 19 PW UNIT 1804H ST01
WBS No/API No	30274449 / 4230133264.01

Event Summary

Event Type	Completion only	Event Start Date	12/06/2017	Days on Location	24.00
Objective	Install Completion	Original Spud Date	08/10/2017		
Est. Days	65.00	Contractor	PERMIAN WELL SVC		
Work Unit	PERMIAN COMPLETIONS	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	Derek Kasper	Measured Depth(ft)	
Engineer	Lindy Byerly	TVD(ft)	
Other Supervisor	John Bevans	24 Hr Progress(ft)	
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,788.55 / 2,762.90	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	3,642,929/4,979,691	Current MW / BH EMW(ppg)	/
Actual divided by AFE	0.73	LOT/FIT EMW(ppg)	
Daily Cost	291,904	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:							

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	23

Operations Summary

24 Hour Summary
Update Since Report Time
24 Hour Forecast

EP WELLS DAILY OPERATIONS REPORT

Report 24

05/01/2018

Well UNIVERSITY 19 PW UNIT 1804H
Wellbore UNIVERSITY 19 PW UNIT 1804H ST01

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	0.30	FRAC	FWL			0		Pressure test lubricator to 7000 psi. Open well with 4000 psi.
0:18	1.35	FRAC	WLT			0		"Stage #38 Plug and Perf. RIH with (4) 1' Keane guns: 2.75" OD HSC at 6 SPF with 60° phased perforating guns and Downhole Technology Boss Hog composite ball-in-place frac plug. Set plug @ 15570' Perforate as follows: 15545' - 15546' 15500' - 15501' 15455' - 15456' 15410' - 15411' Stabilized pressure after perf.: 4530 psi Maximum pump down rate: 10 bpm Pump down volume: 82 bbl" POOH Shut in well with 4075 psi.
1:39	3.00	FRAC	WLF			0		Handover well to frac. (See NPT on 1803 report)
4:39	1.42	FRAC	FRT			0		University 19 PW Unit 1804H Stage 38 Summary Interval 15410 - 15546 Open Well Pressure 3,936 psi Max Treating Pressure 9,202 psi Max Slurry Rate 61.1 bpm Average Treating Pressure 8,440 psi Average Slurry Rate 52.9 bpm Breakdown Pressure 8,720 psi Breakdown Rate 13 bpm Breakdown Volume 12 gal Avg HHP 10,943 hp Final ISIP 5,146 psi Frac Gradient 0.876 psi/ft Pad Volume 2,436 gal Main Body Volume 165,186 gal Flush Volume 26,334 gal 100 M A-Z Sand Pumped 0 lbs 100 M Brown Sand Pumped 288,740 lbs 100 M White Sand Pumped 138,960 lbs Proppant in Formation 427,700 lbs Avg Proppant Concentration 3.30 lb/gal Max Proppant Concentration 4.00 lb/gal Load to Recover (incl. pumpdown) 4,015 bbls Load to Recover w/o Acid 4,015 bbls 15% HCL Spearhead 0 gal Slickwater Fluid Pumped 3,853 bbls 20# Linear Fluid Pumped 80 bbls Diverter Slurry 0 bbls 20# Crosslink Fluid Pumped 0 bbls Pump down volume 82 bbls Pump down rate 10.0 bpm Max pump down pressure 5,552 psi Fluid Temp 72.0 °F Total Pump Time 1:26 hr:min Pumps Lost During Job 0 Treatment Start Time 4:38 0:00 0:00 Treatment End Time 6:04 0:00 0:00 - Proppant was pumped as a ramp from 0.50 - 3.50 PPA, then as a hold of 3.50 PPA and 4.00 PPA - A ball in place plug was utilized - Two 20# gel sweep were pumped prior to flush

EP WELLS DAILY OPERATIONS REPORT

Report 24

05/01/2018

Well UNIVERSITY 19 PW UNIT 1804H
Wellbore UNIVERSITY 19 PW UNIT 1804H ST01

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								Time for Prop on Perfs 21.0 minutes Time between Stages (TBF) 0:09 hrs/min
6:04	1.48	FRAC	FWL			0		waiting on other pad operations
7:33	0.08	FRAC	FWL			0		7:33 Pressure test lubricator to 8000 psi. 7:38 Open well with 4460 psi.
7:38	1.52	FRAC	WLT			0		8:29 "Stage #39 Plug and Perf. RIH with (4) 1' Keane guns: 2.75" OD HSC at 6 SPF with 60° phased perforating guns and Downhole Technology Boss Hog composite ball-in-place frac plug. Set plug @ 15390' Perforate as follows: 15365' - 15366' 15320' - 15321' 15275' - 15276' 15230' - 15231' Stabilized pressure after perf.: 4720 psi Maximum pump down rate: 10 bpm Pump down volume: 76 bbl" 8:31 POOH
9:09	0.35	FRAC	WLF			0		9:09 Shut in well with 4450 psi. 9:30 Handover well to frac.
9:30	1.58	FRAC	FRT			0		University 19 PW Unit 1804H Stage 39 Summary Interval 15230 - 15366 Open Well Pressure 4,277 psi Max Treating Pressure 8,916 psi Max Slurry Rate 60.6 bpm Average Treating Pressure 8,209 psi Average Slurry Rate 50.9 bpm Breakdown Pressure 8,138 psi Breakdown Rate 10 bpm Breakdown Volume 9 gal Avg HHP 10,241 hp Final ISIP 5,164 psi Frac Gradient 0.878 psi/ft Pad Volume 1,386 gal Main Body Volume 168,252 gal Flush Volume 26,208 gal 100 M A-Z Sand Pumped 0 lbs 100 M Brown Sand Pumped 297,080 lbs 100 M White Sand Pumped 118,000 lbs Proppant in Formation 415,080 lbs Avg Proppant Concentration 3.13 lb/gal Max Proppant Concentration 3.50 lb/gal Load to Recover (incl. pumpdown) 4,082 bbls Load to Recover w/o Acid 4,082 bbls 15% HCL Spearhead 0 gal Slickwater Fluid Pumped 3,926 bbls 20# Linear Fluid Pumped 80 bbls Diverter Slurry 0 bbls 20# Crosslink Fluid Pumped 0 bbls Pump down volume 76 bbls Pump down rate 10.0 bpm Max pump down pressure 5,700 psi Fluid Temp 72.0 °F Total Pump Time 1:28 hr:min Pumps Lost During Job 0 Treatment Start Time 9:34 0:00 0:00 Treatment End Time 11:02 0:00 0:00 - Proppant was pumped as a ramp from 0.50 - 3.50 PPA, then as a hold of 3.50 PPA. - A ball in place plug was utilized - Two 20# gel sweep were pumped prior to flush

EP WELLS DAILY OPERATIONS REPORT

Report 24

05/01/2018

Well UNIVERSITY 19 PW UNIT 1804H
Wellbore UNIVERSITY 19 PW UNIT 1804H ST01

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								Time for Prop on Perfs 23.0 minutes Time between Stages (TBF) 0:35 hrs/min
11:05	0.60	FRAC	FWL			0		Handover well to WL. Wait on other pad operations
11:41	0.08	FRAC	FWL			0		11:41 Pressure test lubricator to 8000 psi. 11:46 Open well with 4680 psi.
11:46	1.52	FRAC	WLT			0		12:33 "Stage #40 Plug and Perf. RIH with (4) 1' Keane guns: 2.75" OD HSC at 6 SPF with 60° phased perforating guns and Downhole Technology Boss Hog composite ball-in-place frac plug. Set plug @ 15212' Perforate as follows: 15185' - 15186' 15140' - 15141' 15095' - 15096' 15050' - 15051' Stabilized pressure after perf.: 5050 psi Maximum pump down rate: 10 bpm Pump down volume: 74 bbl" 12:39 POOH
13:17	0.23	FRAC	WLF			0		13:17 Shut in well with 4600 psi. 13:31 Handover well to frac.
13:31	0.07	FRAC	WLF			0		Wait on other pad operations
13:35	1.60	FRAC	FRT			0		University 19 PW Unit 1804H Stage 40 Summary Interval 15050 - 15186 Open Well Pressure 4,390 psi Max Treating Pressure 9,242 psi Max Slurry Rate 60.9 bpm Average Treating Pressure 8,154 psi Average Slurry Rate 46.4 bpm Breakdown Pressure 7,917 psi Breakdown Rate 10 bpm Breakdown Volume 6 gal Avg HHP 9,273 hp Final ISIP 5,129 psi Frac Gradient 0.875 psi/ft Pad Volume 1,260 gal Main Body Volume 158,080 gal Flush Volume 26,040 gal 100 M A-Z Sand Pumped 0 lbs 100 M Brown Sand Pumped 285,540 lbs 100 M White Sand Pumped 129,020 lbs Proppant in Formation 414,560 lbs Avg Proppant Concentration 3.30 lb/gal Max Proppant Concentration 4.00 lb/gal Load to Recover (incl. pumpdown) 3,838 bbls Load to Recover w/o Acid 3,838 bbls 15% HCL Spearhead 0 gal Slickwater Fluid Pumped 3,684 bbls 20# Linear Fluid Pumped 80 bbls Diverter Slurry 0 bbls 20# Crosslink Fluid Pumped 0 bbls Pump down volume 74 bbls Pump down rate 10.0 bpm Max pump down pressure 6,300 psi Fluid Temp 72.0 °F Total Pump Time 1:32 hr:min Pumps Lost During Job 2 Treatment Start Time 13:35 0:00 0:00 Treatment End Time 15:08 0:00 0:00

EP WELLS DAILY OPERATIONS REPORT

Report 24

05/01/2018

Well UNIVERSITY 19 PW UNIT 1804H
Wellbore UNIVERSITY 19 PW UNIT 1804H ST01

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								- Proppant was pumped as a ramp from 0.50 - 3.50 PPA, then as holds of 3.50 & 4.00 PPA. - A ball in place plug was utilized - Two 20# gel sweep were pumped prior to flush. Time for Prop on Perfs 24.0 minutes Time between Stages (TBF) 0:36 hrs/min
15:11	0.70	FRAC	FWL			0		Handover to WL. Wait on other pad operations
15:53	0.08	FRAC	FWL			0		15:53 Pressure test lubricator to 8000 psi. 15:58 Open well with 4540 psi.
15:58	1.70	FRAC	WLT			0		16:52 "Stage #41 Plug and Perf. RIH with (4) 1' Keane guns: 2.75" OD HSC at 6 SPF with 60° phased perforating guns and Downhole Technology Boss Hog composite ball-in-place frac plug. Set plug @ 15030' Perforate as follows: 15005' - 15006' 14960' - 14961' 14915' - 14916' 14870' - 14871' Stabilized pressure after perf.: 4840 psi Maximum pump down rate: 10 bpm Pump down volume: 69 bbl" POOH Shut in well with 4400 psi.
17:40	1.85	FRAC	WLF			0		Handover well to frac Wait on other pad operations
19:31	1.72	FRAC	FRT			0		University 19 PW Unit 1804H Stage 41 Summary Interval 14870 - 15006 Open Well Pressure 4,096 psi Max Treating Pressure 9,266 psi Max Slurry Rate 61.2 bpm Average Treating Pressure 8,363 psi Average Slurry Rate 51.2 bpm Breakdown Pressure 8,928 psi Breakdown Rate 11 bpm Breakdown Volume 10 gal Avg HHP 10,495 hp Final ISIP 4,936 psi Frac Gradient 0.858 psi/ft Pad Volume 6,552 gal Main Body Volume 186,879 gal Flush Volume 26,040 gal 100 M A-Z Sand Pumped 0 lbs 100 M Brown Sand Pumped 0 lbs 100 M White Sand Pumped 427,380 lbs Proppant in Formation 427,380 lbs Avg Proppant Concentration 2.88 lb/gal Max Proppant Concentration 4.00 lb/gal Load to Recover (incl. pumpdown) 4,519 bbls Load to Recover w/o Acid 4,519 bbls 15% HCL Spearhead 0 gal Slickwater Fluid Pumped 4,370 bbls 20# Linear Fluid Pumped 80 bbls Diverter Slurry 0 bbls 20# Crosslink Fluid Pumped 0 bbls Pump down volume 69 bbls Pump down rate 10.0 bpm Max pump down pressure 6,200 psi Fluid Temp 72.0 °F Total Pump Time 1:42 hr:min Pumps Lost During Job 0

EP WELLS DAILY OPERATIONS REPORT

Report 24

05/01/2018

Well UNIVERSITY 19 PW UNIT 1804H
Wellbore UNIVERSITY 19 PW UNIT 1804H ST01

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								Treatment Start Time 19:30 0:00 0:00 Treatment End Time 21:12 0:00 0:00 - Proppant was pumped as a ramp from 0.50 - 2.00 PPA, then as holds 2.00 PPA to 4.00 PPA in .50 PPA increments - A ball in place plug was utilized - Two 20# gel sweep were pumped prior to flush. Time for Prop on Perfs 31.0 minutes Time between Stages (TBF) 0:49 hrs/min
21:14	0.18	FRAC	FWL			0		Waiting on other pad ps
21:25	0.08	FRAC	FWL			0		Pressure test lubricator to 7000 psi. Open well with 4850 psi.
21:30	1.42	FRAC	WLT			0		"Stage #42 Plug and Perf. RIH with (4) 1' Keane guns: 2.75" OD HSC at 6 SPF with 60° phased perforating guns and Downhole Technology Boss Hog composite ball-in-place frac plug. Set plug @ 14850' Perforate as follows: 14825' - 14826' 14780' - 14781' 14735' - 14736' 14690' - 14691' Stabilized pressure after perf.: 4821 psi Maximum pump down rate: 10 bpm Pump down volume: 68 bbl" POOH Shut in well with 4500 psi.
22:55	0.98	FRAC	WLT			0		Handover well to frac. Waiting on other pad ops
23:54	0.10	FRAC	WLT			0		Frac stage 42
Total	24.00							

06.00 Update

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Description
0:00	1.50	FRAC	FRT			0	University 19 PW Unit 1804H Stage 42 Summary Interval 14690 - 14826 Open Well Pressure 4,293 psi Max Treating Pressure 9,154 psi Max Slurry Rate 61.3 bpm Average Treating Pressure 8,355 psi Average Slurry Rate 51.3 bpm Breakdown Pressure 9,024 psi Breakdown Rate 16 bpm Breakdown Volume 11 gal Avg HHP 10,505 hp Final ISIP 5,013 psi Frac Gradient 0.865 psi/ft Pad Volume 11,046 gal Main Body Volume 168,210 gal Flush Volume 25,872 gal 100 M A-Z Sand Pumped 0 lbs 100 M Brown Sand Pumped 149,820 lbs 100 M White Sand Pumped 269,870 lbs Proppant in Formation 419,690 lbs Avg Proppant Concentration 3.37 lb/gal Max Proppant Concentration 4.00 lb/gal Load to Recover (incl. pumpdown) 4,073 bbls

EP WELLS DAILY OPERATIONS REPORT

Report 24

05/01/2018

Well UNIVERSITY 19 PW UNIT 1804H
Wellbore UNIVERSITY 19 PW UNIT 1804H ST01

06.00 Update

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Description
							Load to Recover w/o Acid 4,073 bbls 15% HCL Spearhead 0 gal Slickwater Fluid Pumped 3,925 bbls 20# Linear Fluid Pumped 80 bbls Diverter Slurry 0 bbls 20# Crosslink Fluid Pumped 0 bbls Pump down volume 68 bbls Pump down rate 10.0 bpm Max pump down pressure 5,759 psi Fluid Temp 72.0 ?F Total Pump Time 1:35 hr:min Pumps Lost During Job 0 Treatment Start Time 23:53 0:00 0:00 Treatment End Time 1:28 0:00 0:00 - Proppant was pumped as a ramp from 0.50 - 3.50 PPA, then as holds of 3.50 PPA and 4.00 PPA. - A ball in place plug was utilized - Two 20# gel sweep were pumped prior to flush. Time for Prop on Perfs 33.0 minutes Time between Stages (TBF) 0:40 hrs/min
1:30	0.23	FRAC	FWL			0	waiting on other pad ops
1:44	0.08	FRAC	FWL			0	Pressure test lubricator to 7000 psi. Open well with 4750 psi.
1:49	1.42	FRAC	WLT			0	"Stage #43 Plug and Perf. RIH with (4) 1' Keane guns: 2.75" OD HSC at 6 SPF with 60° phased perforating guns and Downhole Technology Boss Hog composite ball-in-place frac plug. Set plug @ 14670' Perforate as follows: 14645' - 14646' 14600' - 14601' 14555' - 14556' 14510' - 14511' Stabilized pressure after perf.: 4740 psi Maximum pump down rate: 10 bpm Pump down volume: 67 bbl" POOH Shut in well with 4475 psi.
3:14		FRAC	WLF			0	Waiting on other pad ops (Pump maintance)

EP WELLS DAILY OPERATIONS REPORT

Report 25

05/02/2018

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 19 PW UNIT 1804H
Wellbore	UNIVERSITY 19 PW UNIT 1804H ST01
WBS No/API No	30274449 / 4230133264.01

Event Summary

Event Type	Completion only	Event Start Date	12/06/2017	Days on Location	25.00
Objective	Install Completion	Original Spud Date	08/10/2017		
Est. Days	65.00	Contractor	PERMIAN WELL SVC		
Work Unit	PERMIAN COMPLETIONS	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	Derek Kasper	Measured Depth(ft)	
Engineer	Lindy Byerly	TVD(ft)	
Other Supervisor	John Bevans	24 Hr Progress(ft)	
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,788.55 / 2,762.90	Hole size(in)	
THF Datum			
Daily NPT(hr/%)	0.72/2.99	Last Casing MD	
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	
Actual cost to date/AFE	4,004,975/4,979,691	Current MW / BH EMW(ppg)	/
Actual divided by AFE	0.80	LOT/FIT EMW(ppg)	
Daily Cost	362,046	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:							

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	24

Operations Summary

24 Hour Summary
Update Since Report Time
24 Hour Forecast

EP WELLS DAILY OPERATIONS REPORT

Report 25

05/02/2018

Well UNIVERSITY 19 PW UNIT 1804H
Wellbore UNIVERSITY 19 PW UNIT 1804H ST01

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	1.50	FRAC	FRT			0		<p>University 19 PW Unit 1804H Stage 42 Summary</p> <p>Interval 14690 - 14826</p> <p>Open Well Pressure 4,293 psi</p> <p>Max Treating Pressure 9,154 psi</p> <p>Max Slurry Rate 61.3 bpm</p> <p>Average Treating Pressure 8,355 psi</p> <p>Average Slurry Rate 51.3 bpm</p> <p>Breakdown Pressure 9,024 psi</p> <p>Breakdown Rate 16 bpm</p> <p>Breakdown Volume 11 gal</p> <p>Avg HHP 10,505 hp</p> <p>Final ISIP 5,013 psi</p> <p>Frac Gradient 0.865 psi/ft</p> <p>Pad Volume 11,046 gal</p> <p>Main Body Volume 168,210 gal</p> <p>Flush Volume 25,872 gal</p> <p>100 M A-Z Sand Pumped 0 lbs</p> <p>100 M Brown Sand Pumped 149,820 lbs</p> <p>100 M White Sand Pumped 269,870 lbs</p> <p>Proppant in Formation 419,690 lbs</p> <p>Avg Proppant Concentration 3.37 lb/gal</p> <p>Max Proppant Concentration 4.00 lb/gal</p> <p>Load to Recover (incl. pumpdown) 4,073 bbls</p> <p>Load to Recover w/o Acid 4,073 bbls</p> <p>15% HCL Spearhead 0 gal</p> <p>Slickwater Fluid Pumped 3,925 bbls</p> <p>20# Linear Fluid Pumped 80 bbls</p> <p>Diverter Slurry 0 bbls</p> <p>20# Crosslink Fluid Pumped 0 bbls</p> <p>Pump down volume 68 bbls</p> <p>Pump down rate 10.0 bpm</p> <p>Max pump down pressure 5,759 psi</p> <p>Fluid Temp 72.0 °F</p> <p>Total Pump Time 1:35 hr:min</p> <p>Pumps Lost During Job 0</p> <p>Treatment Start Time 23:53 0:00 0:00</p> <p>Treatment End Time 1:28 0:00 0:00</p> <p>- Proppant was pumped as a ramp from 0.50 - 3.50 PPA, then as holds of 3.50 PPA and 4.00 PPA. - A ball in place plug was utilized</p> <p>- Two 20# gel sweep were pumped prior to flush.</p> <p>Time for Prop on Perfs 33.0 minutes</p> <p>Time between Stages (TBF) 0:40 hrs/min</p>
1:30	0.23	FRAC	FWL			0		waiting on other pad ops
1:44	0.08	FRAC	FWL			0		Pressure test lubricator to 7000 psi. Open well with 4750 psi.
1:49	1.42	FRAC	WLT			0		<p>"Stage #43 Plug and Perf.</p> <p>RIH with (4) 1' Keane guns: 2.75" OD HSC at 6 SPF with 60° phased perforating guns and Downhole Technology Boss Hog composite ball-in-place frac plug.</p> <p>Set plug @ 14670'</p> <p>Perforate as follows:</p> <p>14645' - 14646'</p> <p>14600' - 14601'</p> <p>14555' - 14556'</p> <p>14510' - 14511'</p> <p>Stabilized pressure after perf.: 4740 psi</p> <p>Maximum pump down rate: 10 bpm</p> <p>Pump down volume: 67 bbl"</p>

EP WELLS DAILY OPERATIONS REPORT

Report 25

05/02/2018

Well UNIVERSITY 19 PW UNIT 1804H
Wellbore UNIVERSITY 19 PW UNIT 1804H ST01

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								POOH Shut in well with 4475 psi.
3:14	1.50	FRAC	WLF			0		Waiting on other pad ops (Pump maintance)
4:44	1.52	FRAC	FRT			0		<p>University 19 PW Unit 1804H Stage 43 Summary</p> <p>Interval 14510 - 14646</p> <p>Open Well Pressure 4,204 psi</p> <p>Max Treating Pressure 8,977 psi</p> <p>Max Slurry Rate 61.4 bpm</p> <p>Average Treating Pressure 8,119 psi</p> <p>Average Slurry Rate 48.8 bpm</p> <p>Breakdown Pressure 8,481 psi</p> <p>Breakdown Rate 12 bpm</p> <p>Breakdown Volume 10 gal</p> <p>Avg HHP 9,711 hp</p> <p>Final ISIP 5,241 psi</p> <p>Frac Gradient 0.884 psi/ft</p> <p>Pad Volume 3,318 gal</p> <p>Main Body Volume 154,392 gal</p> <p>Flush Volume 20,160 gal</p> <p>100 M A-Z Sand Pumped 0 lbs</p> <p>100 M Brown Sand Pumped 246,680 lbs</p> <p>100 M White Sand Pumped 168,640 lbs</p> <p>Proppant in Formation 415,320 lbs</p> <p>Avg Proppant Concentration 3.29 lb/gal</p> <p>Max Proppant Concentration 4.00 lb/gal</p> <p>Load to Recover (incl. pumpdown) 3,743 bbls</p> <p>Load to Recover w/o Acid 3,743 bbls</p> <p>15% HCL Spearhead 0 gal</p> <p>Slickwater Fluid Pumped 3,596 bbls</p> <p>20# Linear Fluid Pumped 80 bbls</p> <p>Diverter Slurry 0 bbls</p> <p>20# Crosslink Fluid Pumped 0 bbls</p> <p>Pump down volume 67 bbls</p> <p>Pump down rate 10.0 bpm</p> <p>Max pump down pressure 5,382 psi</p> <p>Fluid Temp 72.0 ?F</p> <p>Total Pump Time 1:25 hr:min</p> <p>Pumps Lost During Job 0</p> <p>Treatment Start Time 4:47 0:00 0:00</p> <p>Treatment End Time 6:12 0:00 0:00</p> <p>- Proppant was pumped as a ramp from 0.50 - 3.50 PPA, then as holds of 3.50 PPA and 4.00 PPA.</p> <p>- A ball in place plug was utilized</p> <p>- Two 20# gel sweep were pumped prior to flush.</p> <p>Time for Prop on Perfs 27.0 minutes</p> <p>Time between Stages (TBF) 1:50 hrs/min</p>
6:15	0.35	FRAC	FWL			0		Wait on other pad operations
6:36	0.10	FRAC	FWL			0		6:36 Pressure test lubricator to 8000 psi. 6:42 Open well with 4700 psi.
6:42	1.52	FRAC	WLT			0		<p>7:33 "Stage #44 Plug and Perf.</p> <p>RIH with (4) 1' Keane guns: 2.75" OD HSC at 6 SPF with 60° phased perforating guns and Downhole Technology Boss Hog composite ball-in-place frac plug.</p> <p>Set plug @ 14490'</p> <p>Perforate as follows:</p> <p>14465' - 14466'</p> <p>14420' - 14421'</p> <p>14375' - 14376'</p> <p>14330' - 14331'</p>

EP WELLS DAILY OPERATIONS REPORT

Report 25

05/02/2018

Well UNIVERSITY 19 PW UNIT 1804H
Wellbore UNIVERSITY 19 PW UNIT 1804H ST01

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								Stabilized pressure after perf.: 4850 psi Maximum pump down rate: 10 bpm Pump down volume: 63 bbl" 7:38 POOH
8:13	0.62	FRAC	GRS			0		8:13 Shut in well with 4460 psi. Grease UMV/LMV/Swab/Zipper 8:50 Handover well to frac.
8:50	0.72	FRAC	WLF			1		****Start NPT on Grady Rentals**** water truck crossing replaced
9:33	0.08	FRAC	WLF			0		****End NPT on Grady Rentals**** Wait on other pad operations
9:38	1.60	FRAC	FRT			0		University 19 PW Unit 1804H Stage 44 Summary Interval 14330 - 14466 Open Well Pressure 4,264 psi Max Treating Pressure 8,943 psi Max Slurry Rate 60.7 bpm Average Treating Pressure 8,223 psi Average Slurry Rate 48.4 bpm Breakdown Pressure 8,427 psi Breakdown Rate 10 bpm Breakdown Volume 11 gal Avg HHP 9,755 hp Final ISIP 5,059 psi Frac Gradient 0.869 psi/ft Pad Volume 1,764 gal Main Body Volume 162,498 gal Flush Volume 25,872 gal 100 M A-Z Sand Pumped 0 lbs 100 M Brown Sand Pumped 0 lbs 100 M White Sand Pumped 418,750 lbs Proppant in Formation 418,750 lbs Avg Proppant Concentration 3.26 lb/gal Max Proppant Concentration 4.00 lb/gal Load to Recover (incl. pumpdown) 3,932 bbls Load to Recover w/o Acid 3,932 bbls 15% HCL Spearhead 0 gal Slickwater Fluid Pumped 3,789 bbls 20# Linear Fluid Pumped 80 bbls Diverter Slurry 0 bbls 20# Crosslink Fluid Pumped 0 bbls Pump down volume 63 bbls Pump down rate 10.0 bpm Max pump down pressure 6,000 psi Fluid Temp 72.0 °F Total Pump Time 1:31 hr:min Pumps Lost During Job 0 Treatment Start Time 9:38 0:00 0:00 Treatment End Time 11:11 0:00 0:00 - Proppant was pumped as a ramp from 0.50 - 3.50 PPA, then as holds of 3.50 PPA and 4.00 PPA. - A ball in place plug was utilized - Two 20# gel sweep were pumped prior to flush. Time for Prop on Perfs 26.0 minutes Time between Stages (TBF) 1:02 hrs/min
11:14	0.45	FRAC	FWL			0		Handover well to WL. Wait on other pad operations
11:41	0.07	FRAC	FWL			0		11:41 Pressure test lubricator to 8000 psi. 11:45 Open well with 4540 psi.
11:45	1.67	FRAC	WLT			0		12:38 "Stage #45 Plug and Perf. RIH with (4) 1' Keane guns: 2.75" OD HSC at 6 SPF with 60° phased perforating guns and Downhole Technology Boss Hog composite ball-in-place frac plug.

EP WELLS DAILY OPERATIONS REPORT

Report 25

05/02/2018

Well UNIVERSITY 19 PW UNIT 1804H
Wellbore UNIVERSITY 19 PW UNIT 1804H ST01

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								Set plug @ 14310' Perforate as follows: 14285' - 14286' 14240' - 14241' 14195' - 14196' 14150' - 14151' Stabilized pressure after perf.: 4630 psi Maximum pump down rate: 10 bpm Pump down volume: 53 bbl" 12:42 POOH
13:25	0.28	FRAC	WLF			0		13:25 Shut in well with 4400 psi. 13:42 Handover well to frac.
13:42	0.53	FRAC	WLF			0		Wait on other pad operations
14:14	1.55	FRAC	FRT			0		University 19 PW Unit 1804H Stage 45 Summary Interval 14150 - 14286 Open Well Pressure 4,615 psi Max Treating Pressure 8,731 psi Max Slurry Rate 60.9 bpm Average Treating Pressure 7,767 psi Average Slurry Rate 51.9 bpm Breakdown Pressure 8,159 psi Breakdown Rate 9 bpm Breakdown Volume 6 gal Avg HHP 9,880 hp Final ISIP 5,111 psi Frac Gradient 0.873 psi/ft Pad Volume 1,638 gal Main Body Volume 166,866 gal Flush Volume 25,662 gal 100 M A-Z Sand Pumped 0 lbs 100 M Brown Sand Pumped 40,020 lbs 100 M White Sand Pumped 384,680 lbs Proppant in Formation 424,700 lbs Avg Proppant Concentration 3.17 lb/gal Max Proppant Concentration 3.50 lb/gal Load to Recover (incl. pumpdown) 4,026 bbls Load to Recover w/o Acid 4,026 bbls 15% HCL Spearhead 0 gal Slickwater Fluid Pumped 3,893 bbls 20# Linear Fluid Pumped 80 bbls Diverter Slurry 0 bbls 20# Crosslink Fluid Pumped 0 bbls Pump down volume 53 bbls Pump down rate 10.0 bpm Max pump down pressure 5,600 psi Fluid Temp 72.0 ?F Total Pump Time 1:28 hr:min Pumps Lost During Job 0 Treatment Start Time 14:15 0:00 0:00 Treatment End Time 15:44 0:00 0:00 - Proppant was pumped as a ramp from 0.50 - 3.50 PPA, then as a hold of 3.50 PPA. - A ball in place plug was utilized - Two 20# gel sweep were pumped prior to flush. Time for Prop on Perfs 22.0 minutes Time between Stages (TBF) 1:18 hrs/min
15:47	0.47	FRAC	FWL			0		Handover well to WL. Wait on other pad operations
16:15	0.10	FRAC	FWL			0		16:15 Pressure test lubricator to 8000 psi. 16:21 Open well with 4620 psi.

EP WELLS DAILY OPERATIONS REPORT

Report 25

05/02/2018

Well UNIVERSITY 19 PW UNIT 1804H
Wellbore UNIVERSITY 19 PW UNIT 1804H ST01

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
16:21	1.82	FRAC	WLT			0		17:11 "Stage #46 Plug and Perf. RIH with (4) 1' Keane guns: 2.75" OD HSC at 6 SPF with 60° phased perforating guns and Downhole Technology Boss Hog composite ball-in-place frac plug. Set plug @ 14130' Perforate as follows: 14105' - 14106' 14060' - 14061' 14015' - 14016' 13970' - 13971' Stabilized pressure after perf.: 4750 psi Maximum pump down rate: 10 bpm Pump down volume: 50 bbl POOH Shut in well 4300 psi
18:10	0.38	FRAC	WLT			0		waiting on other pad ops
18:33	1.37	FRAC	FRT			0		University 19 PW Unit 1804H Stage 46 Summary Interval 13970 - 14106 Open Well Pressure 4,220 psi Max Treating Pressure 9,115 psi Max Slurry Rate 61.2 bpm Average Treating Pressure 8,033 psi Average Slurry Rate 53.6 bpm Breakdown Pressure 8,384 psi Breakdown Rate 12 bpm Breakdown Volume 10 gal Avg HHP 10,553 hp Final ISIP 5,231 psi Frac Gradient 0.883 psi/ft Pad Volume 2,772 gal Main Body Volume 154,602 gal Flush Volume 25,410 gal 100 M A-Z Sand Pumped 0 lbs 100 M Brown Sand Pumped 122,240 lbs 100 M White Sand Pumped 292,930 lbs Proppant in Formation 415,170 lbs Avg Proppant Concentration 3.45 lb/gal Max Proppant Concentration 4.00 lb/gal Load to Recover (incl. pumpdown) 3,731 bbls Load to Recover w/o Acid 3,731 bbls 15% HCL Spearhead 0 gal Slickwater Fluid Pumped 3,601 bbls 20# Linear Fluid Pumped 80 bbls Diverter Slurry 0 bbls 20# Crosslink Fluid Pumped 0 bbls Pump down volume 50 bbls Pump down rate 10.0 bpm Max pump down pressure 6,300 psi Fluid Temp 72.0 °F Total Pump Time 1:23 hr:min Pumps Lost During Job 0 Treatment Start Time 18:31 0:00 0:00 Treatment End Time 19:55 0:00 0:00 - Proppant was pumped as a ramp from 0.50 - 3.50 PPA, then as holds of 3.50 PPA..and 4.0 PPA - A ball in place plug was utilized - Two 20# gel sweep were pumped prior to flush. Time for Prop on Perfs 21.0 minutes Time between Stages (TBF) 0:10 hrs/min

EP WELLS DAILY OPERATIONS REPORT

Report 25

05/02/2018

Well UNIVERSITY 19 PW UNIT 1804H
Wellbore UNIVERSITY 19 PW UNIT 1804H ST01

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
19:55	0.58	FRAC	FWL			0		waiting on other pad ops
20:30	0.50	FRAC	FWL			0		WOW See 1803 report
21:00	0.27	FRAC	FWL			0		Waiting on other pad ops
21:16	0.08	FRAC	FWL			0		Pressure test lubricator to 7000 psi. Open well with 4550 psi.
21:21	1.40	FRAC	WLT			0		"Stage #47 Plug and Perf. RIH with (4) 1' Keane guns: 2.75" OD HSC at 6 SPF with 60° phased perforating guns and Downhole Technology Boss Hog composite ball-in-place frac plug. Set plug @ 13950' Perforate as follows: 13925' - 13926' 13879' - 13880' 13832' - 13833' 13790' - 13791' Stabilized pressure after perf.: 4688 psi Maximum pump down rate: 10 bpm Pump down volume: 51 bbl" POOH
22:45	0.62	FRAC	WLT			0		Handover well to frac. Waiting on other pad ops
23:22	0.63	FRAC	WLT			0		Frac stage 47
Total	24.00							

06.00 Update

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Description
0:00	0.83	FRAC	FRT			0	University 19 PW Unit 1804H Stage 47 Summary Interval 13790 - 13926 Open Well Pressure 4,181 psi Max Treating Pressure 9,170 psi Max Slurry Rate 61.2 bpm Average Treating Pressure 7,969 psi Average Slurry Rate 51.2 bpm Breakdown Pressure 8,623 psi Breakdown Rate 10 bpm Breakdown Volume 10 gal Avg HHP 10,000 hp Final ISIP 5,015 psi Frac Gradient 0.865 psi/ft Pad Volume 1,932 gal Main Body Volume 159,936 gal Flush Volume 25,326 gal 100 M A-Z Sand Pumped 0 lbs 100 M Brown Sand Pumped 296,080 lbs 100 M White Sand Pumped 142,900 lbs Proppant in Formation 438,980 lbs Avg Proppant Concentration 3.47 lb/gal Max Proppant Concentration 4.00 lb/gal Load to Recover (incl. pumpdown) 3,859 bbls Load to Recover w/o Acid 3,859 bbls 15% HCL Spearhead 0 gal Slickwater Fluid Pumped 3,728 bbls 20# Linear Fluid Pumped 80 bbls Diverter Slurry 0 bbls 20# Crosslink Fluid Pumped 0 bbls Pump down volume 51 bbls Pump down rate 10.0 bpm

EP WELLS DAILY OPERATIONS REPORT

Report 25

05/02/2018

Well UNIVERSITY 19 PW UNIT 1804H
Wellbore UNIVERSITY 19 PW UNIT 1804H ST01

06.00 Update

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Description
							Max pump down pressure 5,625 psi Fluid Temp 72.0 °F Total Pump Time 1:28 hr:min Pumps Lost During Job 0 Treatment Start Time 23:21 0:00 0:00 Treatment End Time 0:49 0:00 0:00 - Proppant was pumped as a ramp from 0.50 - 3.50 PPA, then as holds of 3.50 PPA..and 4.0 PPA - A ball in place plug was utilized - Two 20# gel sweep were pumped prior to flush. Time for Prop on Perfs 23.0 minutes Time between Stages (TBF) 0:55 hrs/min
0:50	0.07	FRAC	FWL			0	waiting on other pad ops
0:54	0.07	FRAC	FWL			0	Pressure test lubricator to 7000 psi. Open well with 4850 psi.
0:58	1.28	FRAC	WLT			0	"Stage #48 Plug and Perf. RIH with (4) 1' Keane guns: 2.75" OD HSC at 6 SPF with 60° phased perforating guns and Downhole Technology Boss Hog composite ball-in-place frac plug. Set plug @ 13770' Perforate as follows: 13745' - 13746' 13700' - 13701' 13655' - 13656' 13610' - 13611' Stabilized pressure after perf.: 4696 psi Maximum pump down rate: 9 bpm Pump down volume: 49 bbl" POOH Shut in well with 4500 psi.
2:15	0.28	FRAC	WLF			0	Waiting on other pad ops
2:32	1.55	FRAC	FRT			0	University 19 PW Unit 1804H Stage 48 Summary Interval 13610 - 13746 Open Well Pressure 4,351 psi Max Treating Pressure 9,101 psi Max Slurry Rate 61.5 bpm Average Treating Pressure 8,352 psi Average Slurry Rate 51.2 bpm Breakdown Pressure 9,165 psi Breakdown Rate 13 bpm Breakdown Volume 2 gal Avg HHP 10,481 hp Final ISIP 5,140 psi Frac Gradient 0.876 psi/ft Pad Volume 1,302 gal Main Body Volume 165,522 gal Flush Volume 25,200 gal 100 M A-Z Sand Pumped 0 lbs 100 M Brown Sand Pumped 351,970 lbs 100 M White Sand Pumped 82,760 lbs Proppant in Formation 434,730 lbs Avg Proppant Concentration 3.25 lb/gal Max Proppant Concentration 3.50 lb/gal Load to Recover (incl. pumpdown) 3,990 bbls Load to Recover w/o Acid 3,990 bbls 15% HCL Spearhead 0 gal Slickwater Fluid Pumped 3,861 bbls 20# Linear Fluid Pumped 80 bbls Diverter Slurry 0 bbls

EP WELLS DAILY OPERATIONS REPORT

Report 25

05/02/2018

Well UNIVERSITY 19 PW UNIT 1804H
Wellbore UNIVERSITY 19 PW UNIT 1804H ST01

06.00 Update

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Description
							20# Crosslink Fluid Pumped 0 bbls Pump down volume 49 bbls Pump down rate 9.0 bpm Max pump down pressure 5,253 psi Fluid Temp 72.0 ?F Total Pump Time 1:32 hr:min Pumps Lost During Job 0 Treatment Start Time 2:32 0:00 0:00 Treatment End Time 4:04 0:00 0:00 - Proppant was pumped as a ramp from 0.50 - 3.50 PPA, then as holds of 3.50 PPA. - A ball in place plug was utilized - Two 20# gel sweep were pumped prior to flush. Time for Prop on Perfs 27.0 minutes Time between Stages (TBF) 0:18 hrs/min
4:05		FRAC	FWL			0	Waiting on other pad ops

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
05/02/2018 08:50	GRADY RENTALS LLC	Wait On Equipment/ Materials		WLF	N		0.00	0.00		OPEN
Description: water truck crossing replaced						Title: water truck crossing replaced				
Total							0.00	0.00		

EP WELLS DAILY OPERATIONS REPORT

Report 26

05/03/2018

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 19 PW UNIT 1804H
Wellbore	UNIVERSITY 19 PW UNIT 1804H ST01
WBS No/API No	30274449 / 4230133264.01

Event Summary

Event Type	Completion only	Event Start Date	12/06/2017	Days on Location	26.00
Objective	Install Completion	Original Spud Date	08/10/2017		
Est. Days	65.00	Contractor	PERMIAN WELL SVC		
Work Unit	PERMIAN COMPLETIONS	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	Derek Kasper	Measured Depth(ft)	
Engineer	Lindy Byerly	TVD(ft)	
Other Supervisor	John Bevans	24 Hr Progress(ft)	
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,788.55 / 2,762.90	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	4,296,765/4,979,691	Current MW / BH EMW(ppg)	/
Actual divided by AFE	0.86	LOT/FIT EMW(ppg)	
Daily Cost	291,790	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:							

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	25

Operations Summary

24 Hour Summary
Update Since Report Time
24 Hour Forecast

EP WELLS DAILY OPERATIONS REPORT

Report 26

05/03/2018

Well UNIVERSITY 19 PW UNIT 1804H
Wellbore UNIVERSITY 19 PW UNIT 1804H ST01

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	0.83	FRAC	FRT			0		<p>University 19 PW Unit 1804H Stage 47 Summary</p> <p>Interval 13790 - 13926</p> <p>Open Well Pressure 4,181 psi</p> <p>Max Treating Pressure 9,170 psi</p> <p>Max Slurry Rate 61.2 bpm</p> <p>Average Treating Pressure 7,969 psi</p> <p>Average Slurry Rate 51.2 bpm</p> <p>Breakdown Pressure 8,623 psi</p> <p>Breakdown Rate 10 bpm</p> <p>Breakdown Volume 10 gal</p> <p>Avg HHP 10,000 hp</p> <p>Final ISIP 5,015 psi</p> <p>Frac Gradient 0.865 psi/ft</p> <p>Pad Volume 1,932 gal</p> <p>Main Body Volume 159,936 gal</p> <p>Flush Volume 25,326 gal</p> <p>100 M A-Z Sand Pumped 0 lbs</p> <p>100 M Brown Sand Pumped 296,080 lbs</p> <p>100 M White Sand Pumped 142,900 lbs</p> <p>Proppant in Formation 438,980 lbs</p> <p>Avg Proppant Concentration 3.47 lb/gal</p> <p>Max Proppant Concentration 4.00 lb/gal</p> <p>Load to Recover (incl. pumpdown) 3,859 bbls</p> <p>Load to Recover w/o Acid 3,859 bbls</p> <p>15% HCL Spearhead 0 gal</p> <p>Slickwater Fluid Pumped 3,728 bbls</p> <p>20# Linear Fluid Pumped 80 bbls</p> <p>Diverter Slurry 0 bbls</p> <p>20# Crosslink Fluid Pumped 0 bbls</p> <p>Pump down volume 51 bbls</p> <p>Pump down rate 10.0 bpm</p> <p>Max pump down pressure 5,625 psi</p> <p>Fluid Temp 72.0 ?F</p> <p>Total Pump Time 1:28 hr:min</p> <p>Pumps Lost During Job 0</p> <p>Treatment Start Time 23:21 0:00 0:00</p> <p>Treatment End Time 0:49 0:00 0:00</p> <p>- Proppant was pumped as a ramp from 0.50 - 3.50 PPA, then as holds of 3.50 PPA..and 4.0 PPA</p> <p>- A ball in place plug was utilized</p> <p>- Two 20# gel sweep were pumped prior to flush.</p> <p>Time for Prop on Perfs 23.0 minutes</p> <p>Time between Stages (TBF) 0:55 hrs/min</p>
0:50	0.07	FRAC	FWL			0		waiting on other pad ops
0:54	0.07	FRAC	FWL			0		Pressure test lubricator to 7000 psi. Open well with 4850 psi.
0:58	1.28	FRAC	WLT			0		<p>"Stage #48 Plug and Perf.</p> <p>RIH with (4) 1' Keane guns: 2.75" OD HSC at 6 SPF with 60° phased perforating guns and Downhole Technology Boss Hog composite ball-in-place frac plug.</p> <p>Set plug @ 13770'</p> <p>Perforate as follows:</p> <p>13745' - 13746'</p> <p>13700' - 13701'</p> <p>13655' - 13656'</p> <p>13610' - 13611'</p> <p>Stabilized pressure after perf.: 4696 psi</p> <p>Maximum pump down rate: 9 bpm</p> <p>Pump down volume: 49 bbl"</p>

EP WELLS DAILY OPERATIONS REPORT

Report 26

05/03/2018

Well UNIVERSITY 19 PW UNIT 1804H
Wellbore UNIVERSITY 19 PW UNIT 1804H ST01

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								POOH Shut in well with 4500 psi.
2:15	0.28	FRAC	WLF			0		Waiting on other pad ops
2:32	1.55	FRAC	FRT			0		<p>University 19 PW Unit 1804H Stage 48 Summary</p> <p>Interval 13610 - 13746</p> <p>Open Well Pressure 4,351 psi</p> <p>Max Treating Pressure 9,101 psi</p> <p>Max Slurry Rate 61.5 bpm</p> <p>Average Treating Pressure 8,352 psi</p> <p>Average Slurry Rate 51.2 bpm</p> <p>Breakdown Pressure 9,165 psi</p> <p>Breakdown Rate 13 bpm</p> <p>Breakdown Volume 2 gal</p> <p>Avg HHP 10,481 hp</p> <p>Final ISIP 5,140 psi</p> <p>Frac Gradient 0.876 psi/ft</p> <p>Pad Volume 1,302 gal</p> <p>Main Body Volume 165,522 gal</p> <p>Flush Volume 25,200 gal</p> <p>100 M A-Z Sand Pumped 0 lbs</p> <p>100 M Brown Sand Pumped 351,970 lbs</p> <p>100 M White Sand Pumped 82,760 lbs</p> <p>Proppant in Formation 434,730 lbs</p> <p>Avg Proppant Concentration 3.25 lb/gal</p> <p>Max Proppant Concentration 3.50 lb/gal</p> <p>Load to Recover (incl. pumpdown) 3,990 bbls</p> <p>Load to Recover w/o Acid 3,990 bbls</p> <p>15% HCL Spearhead 0 gal</p> <p>Slickwater Fluid Pumped 3,861 bbls</p> <p>20# Linear Fluid Pumped 80 bbls</p> <p>Diverter Slurry 0 bbls</p> <p>20# Crosslink Fluid Pumped 0 bbls</p> <p>Pump down volume 49 bbls</p> <p>Pump down rate 9.0 bpm</p> <p>Max pump down pressure 5,253 psi</p> <p>Fluid Temp 72.0 °F</p> <p>Total Pump Time 1:32 hr:min</p> <p>Pumps Lost During Job 0</p> <p>Treatment Start Time 2:32 0:00 0:00</p> <p>Treatment End Time 4:04 0:00 0:00</p> <p>- Proppant was pumped as a ramp from 0.50 - 3.50 PPA, then as holds of 3.50 PPA.</p> <p>- A ball in place plug was utilized</p> <p>- Two 20# gel sweep were pumped prior to flush.</p> <p>Time for Prop on Perfs 27.0 minutes</p> <p>Time between Stages (TBF) 0:18 hrs/min</p>
4:05	1.68	FRAC	FWL			0		Waiting on other pad ops
5:46	0.07	FRAC	FWL			0		Pressure test lubricator to 7000 psi. Open well with 4400 ps
5:50	1.47	FRAC	WLT			0		<p>6:40 "Stage #49 Plug and Perf.</p> <p>RIH with (4) 1' Keane guns: 2.75" OD HSC at 6 SPF with 60° phased perforating guns and Downhole Technology Boss Hog composite ball-in-place frac plug.</p> <p>Set plug @ 13590'</p> <p>Perforate as follows:</p> <p>13565' - 13566'</p> <p>13520' - 13521'</p> <p>13476' - 13477'</p> <p>13430' - 13431'</p>

EP WELLS DAILY OPERATIONS REPORT

Report 26

05/03/2018

Well UNIVERSITY 19 PW UNIT 1804H
Wellbore UNIVERSITY 19 PW UNIT 1804H ST01

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								Stabilized pressure after perf.: 4600 psi Maximum pump down rate: 10 bpm Pump down volume: 39 bbl" 6:45 POOH
7:18	0.18	FRAC	WLF			0		7:18 Shut in well with 4200 psi. 7:29 Handover well to frac.
7:29	0.10	FRAC	WLF			0		Wait on other pad operations
7:35	1.75	FRAC	FRT			0		University 19 PW Unit 1804H Stage 49 Summary Interval 13430 - 13566 Open Well Pressure 4,103 psi Max Treating Pressure 9,406 psi Max Slurry Rate 60.5 bpm Average Treating Pressure 8,453 psi Average Slurry Rate 44.4 bpm Breakdown Pressure 8,342 psi Breakdown Rate 8 bpm Breakdown Volume 8 gal Avg HHP 9,199 hp Final ISIP 5,022 psi Frac Gradient 0.865 psi/ft Pad Volume 1,008 gal Main Body Volume 163,590 gal Flush Volume 26,418 gal 100 M A-Z Sand Pumped 0 lbs 100 M Brown Sand Pumped 428,320 lbs 100 M White Sand Pumped 0 lbs Proppant in Formation 428,320 lbs Avg Proppant Concentration 3.28 lb/gal Max Proppant Concentration 4.00 lb/gal Load to Recover (incl. pumpdown) 3,934 bbls Load to Recover w/o Acid 3,934 bbls 15% HCL Spearhead 0 gal Slickwater Fluid Pumped 3,815 bbls 20# Linear Fluid Pumped 80 bbls Diverter Slurry 0 bbls 20# Crosslink Fluid Pumped 0 bbls Pump down volume 39 bbls Pump down rate 10.0 bpm Max pump down pressure 5,900 psi Fluid Temp 72.0 ?F Total Pump Time 1:41 hr:min Pumps Lost During Job 0 Treatment Start Time 7:35 0:00 0:00 Treatment End Time 9:17 0:00 0:00 - Proppant was pumped as a ramp from 0.50 - 3.50 PPA, then as holds of 3.50 PPA and 4.00 PPA. - Proppant was dropped from 4.00 PPA to 3.50 PPA and due to high pressure. - KFR-40 concentration was increased to 0.60 GPT due to high pressure - A ball in place plug was utilized - Two 20# gel sweep were pumped prior to flush. Time for Prop on Perfs 25.0 minutes Time between Stages (TBF) 0:35 hrs/min
9:20	7.70	FRAC	FWL			0		Shut down for Safety Day
17:02	0.10	FRAC	FWL			0		17:02 Pressure test lubricator to 8000 psi. 17:08 Open well with 3880 psi.
17:08	1.37	FRAC	WLT			0		17:52 "Stage #50 Plug and Perf. RIH with (4) 1' Keane guns: 2.75" OD HSC at 6 SPF with 60° phased perforating guns and Downhole Technology Boss Hog

EP WELLS DAILY OPERATIONS REPORT

Report 26

05/03/2018

Well UNIVERSITY 19 PW UNIT 1804H
Wellbore UNIVERSITY 19 PW UNIT 1804H ST01

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								composite ball-in-place frac plug. Set plug @ 13410' Perforate as follows: 13385' - 13386' 13340' - 13341' 13295' - 13296' 13250' - 13251' Stabilized pressure after perf.: 4500 psi Maximum pump down rate: 10 bpm Pump down volume: 39 bbl" 17:56 POOH
18:30	0.95	FRAC	WLF			0		Shut in well with 3820 Waiting on other pad ops
19:27	2.92	FRAC	FRT			0		University 19 PW Unit 1804H Stage 50 Summary Interval 13250 - 13386 Open Well Pressure 3,996 Max Treating Pressure 9,571 Max Slurry Rate 59.9 Average Treating Pressure 8,245 Average Slurry Rate 35.9 Breakdown Pressure 8,304 Breakdown Rate 9 Breakdown Volume 11 Avg HHP 7,255 Final ISIP 4,881 Frac Gradient 0.853 Pad Volume 4,746 Main Body Volume 230,958 Flush Volume 24,948 100 M A-Z Sand Pumped 0 100 M Brown Sand Pumped 309,820 100 M White Sand Pumped 104,340 Proppant in Formation 414,160 Avg Proppant Concentration 2.39 Max Proppant Concentration 3.50 Load to Recover (incl. pumpdown) 5,538 Load to Recover w/o Acid 5,538 15% HCL Spearhead 0 Slickwater Fluid Pumped 5,419 20# Linear Fluid Pumped 80 Diverter Slurry 0 20# Crosslink Fluid Pumped 0 Pump down volume 39 Pump down rate 10.0 Max pump down pressure 6,800 Fluid Temp 72.0 Total Pump Time 2:54 Pumps Lost During Job 1 Treatment Start Time 19:26 0:00 Treatment End Time 22:20 0:00 - Proppant was pumped as a ramp from 0.50 - 3.50 PPA, then as holds of 3.50 PPA. After proppant was cut, it was brought back in as 0.50 PPA steps. from 0.50 PPA to 3.50 PPA. - A ball in place plug was utilized - Two 20# gel sweep were pumped prior to flush. - 1,524 bbl into the stage we we cut sand and flushed the well when rate fell to 19.1 BPM while pumping 3.50 PPA step. - 170,181 lbs of proppant had been pumped when proppant was cut during the stage. - Q407 was taken out for maintenance Time for Prop on Perfs 27.0

EP WELLS DAILY OPERATIONS REPORT

Report 26

05/03/2018

Well UNIVERSITY 19 PW UNIT 1804H
Wellbore UNIVERSITY 19 PW UNIT 1804H ST01

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								Time between Stages (TBF) 1:01
22:22	0.13	FRAC	FWL			0		waiting on other pad ops
22:30	0.07	FRAC	WLF			0		Pressure test lubricator to 7000 psi. Open well with 4750 psi.
22:34	1.33	FRAC	WLT			0		"Stage #51 Plug and Perf. RIH with (4) 1' Keane guns: 2.75" OD HSC at 6 SPF with 60° phased perforating guns and Downhole Technology Boss Hog composite ball-in-place frac plug. Set plug @ 13320' Perforate as follows: 13205' - 13206' 13160' - 13161' 13115' - 13116' 13070' - 13071' Stabilized pressure after perf.: 4770 psi Maximum pump down rate: 9 bpm Pump down volume: 40 bbl" POOH Shut in well with 4500 psi.
23:54	0.10	FRAC	WLF			0		Waiting on other pad ops
Total	24.00							

06.00 Update

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Description
0:00	0.35	FRAC	WLF			0	Waiting on other pad ops
0:21	1.85	FRAC	FRT			0	University 19 PW Unit 1804H Stage 51 Summary Interval 13070 - 13206 Open Well Pressure 4,303 psi Max Treating Pressure 9,147 psi Max Slurry Rate 56.4 bpm Average Treating Pressure 8,171 psi Average Slurry Rate 48.2 bpm Breakdown Pressure 8,532 psi Breakdown Rate 7 bpm Breakdown Volume 10 gal Avg HHP 9,653 hp Final ISIP 5,110 psi Frac Gradient 0.873 psi/ft Pad Volume 10,878 gal Main Body Volume 172,494 gal Flush Volume 24,864 gal 100 M A-Z Sand Pumped 0 lbs 100 M Brown Sand Pumped 368,040 lbs 100 M White Sand Pumped 41,960 lbs Proppant in Formation 410,000 lbs Avg Proppant Concentration 3.14 lb/gal Max Proppant Concentration 4.00 lb/gal Load to Recover (incl. pumpdown) 4,147 bbls Load to Recover w/o Acid 4,147 bbls 15% HCL Spearhead 0 gal Slickwater Fluid Pumped 4,027 bbls 20# Linear Fluid Pumped 80 bbls Diverter Slurry 0 bbls 20# Crosslink Fluid Pumped 0 bbls Pump down volume 40 bbls Pump down rate 9.0 bpm Max pump down pressure 6,207 psi Fluid Temp 72.0 °F

EP WELLS DAILY OPERATIONS REPORT

Report 26

05/03/2018

Well UNIVERSITY 19 PW UNIT 1804H
Wellbore UNIVERSITY 19 PW UNIT 1804H ST01

06.00 Update

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Description
							Total Pump Time 1:52 hr:min Pumps Lost During Job 0 Treatment Start Time 0:19 0:00 0:00 Treatment End Time 2:11 0:00 0:00 - Proppant was pumped as a ramp from 0.50 - 3.0 PPA, then as holds of 3.0 PPA, 3.5 PPA, and 40 PPA - A ball in place plug was utilized - Two 20# gel sweeps pumped prior to flush Time for Prop on Perfs 36.0 minutes Time between Stages (TBF) 0:12 hrs/min
2:12	0.10	FRAC	FWL			0	waiting on other pad ops
2:18	0.08	FRAC	FWL			0	Pressure test lubricator to 7000 psi. Open well with 4850 psi.
2:23	1.18	FRAC	WLT			0	"Stage #52 Plug and Perf. RIH with (4) 1' Keane guns: 2.75" OD HSC at 6 SPF with 60° phased perforating guns and Downhole Technology Boss Hog composite ball-in-place frac plug. Set plug @ 13050' Perforate as follows: 13025' - 13026' 12980' - 12981' 12935' - 12936' 12890' - 12891' Stabilized pressure after perf.: 4840 psi Maximum pump down rate: 9 bpm Pump down volume: 28 bbl" POOH
2:25		FRAC	WLF			0	Frac stage 52
3:34		FRAC	WLF			0	waiting on other pad ops

EP WELLS DAILY OPERATIONS REPORT

Report 27

05/04/2018

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 19 PW UNIT 1804H
Wellbore	UNIVERSITY 19 PW UNIT 1804H ST01
WBS No/API No	30274449 / 4230133264.01

Event Summary

Event Type	Completion only	Event Start Date	12/06/2017	Days on Location	27.00
Objective	Install Completion	Original Spud Date	08/10/2017		
Est. Days	65.00	Contractor	PERMIAN WELL SVC		
Work Unit	PERMIAN COMPLETIONS	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	Derek Kasper	Measured Depth(ft)	
Engineer	Lindy Byerly	TVD(ft)	
Other Supervisor	John Bevans	24 Hr Progress(ft)	
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,788.55 / 2,762.90	Hole size(in)	
THF Datum			
Daily NPT(hr/%)	5.65/23.54	Last Casing MD	
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	
Actual cost to date/AFE	4,588,350/4,979,691	Current MW / BH EMW(ppg)	/
Actual divided by AFE	0.92	LOT/FIT EMW(ppg)	
Daily Cost	291,585	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:							

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	26

Operations Summary

24 Hour Summary
Update Since Report Time
24 Hour Forecast

EP WELLS DAILY OPERATIONS REPORT

Report 27

05/04/2018

Well UNIVERSITY 19 PW UNIT 1804H
Wellbore UNIVERSITY 19 PW UNIT 1804H ST01

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	0.35	FRAC	WLF			0		Waiting on other pad ops
0:21	1.85	FRAC	FRT			0		<p>University 19 PW Unit 1804H Stage 51 Summary</p> <p>Interval 13070 - 13206</p> <p>Open Well Pressure 4,303 psi</p> <p>Max Treating Pressure 9,147 psi</p> <p>Max Slurry Rate 56.4 bpm</p> <p>Average Treating Pressure 8,171 psi</p> <p>Average Slurry Rate 48.2 bpm</p> <p>Breakdown Pressure 8,532 psi</p> <p>Breakdown Rate 7 bpm</p> <p>Breakdown Volume 10 gal</p> <p>Avg HHP 9,653 hp</p> <p>Final ISIP 5,110 psi</p> <p>Frac Gradient 0.873 psi/ft</p> <p>Pad Volume 10,878 gal</p> <p>Main Body Volume 172,494 gal</p> <p>Flush Volume 24,864 gal</p> <p>100 M A-Z Sand Pumped 0 lbs</p> <p>100 M Brown Sand Pumped 368,040 lbs</p> <p>100 M White Sand Pumped 41,960 lbs</p> <p>Proppant in Formation 410,000 lbs</p> <p>Avg Proppant Concentration 3.14 lb/gal</p> <p>Max Proppant Concentration 4.00 lb/gal</p> <p>Load to Recover (incl. pumpdown) 4,147 bbls</p> <p>Load to Recover w/o Acid 4,147 bbls</p> <p>15% HCL Spearhead 0 gal</p> <p>Slickwater Fluid Pumped 4,027 bbls</p> <p>20# Linear Fluid Pumped 80 bbls</p> <p>Diverter Slurry 0 bbls</p> <p>20# Crosslink Fluid Pumped 0 bbls</p> <p>Pump down volume 40 bbls</p> <p>Pump down rate 9.0 bpm</p> <p>Max pump down pressure 6,207 psi</p> <p>Fluid Temp 72.0 ?F</p> <p>Total Pump Time 1:52 hr:min</p> <p>Pumps Lost During Job 0</p> <p>Treatment Start Time 0:19 0:00 0:00</p> <p>Treatment End Time 2:11 0:00 0:00</p> <p>- Proppant was pumped as a ramp from 0.50 - 3.0 PPA, then as holds of 3.0 PPA, 3.5 PPA, and 40 PPA</p> <p>- A ball in place plug was utilized</p> <p>- Two 20# gel sweeps pumped prior to flush</p> <p>Time for Prop on Perfs 36.0 minutes</p> <p>Time between Stages (TBF) 0:12 hrs/min</p>
2:12	0.10	FRAC	FWL			0		waiting on other pad ops
2:18	0.08	FRAC	FWL			0		Pressure test lubricator to 7000 psi. Open well with 4850 psi.
2:23	1.18	FRAC	WLT			0		<p>"Stage #52 Plug and Perf.</p> <p>RIH with (4) 1' Keane guns: 2.75" OD HSC at 6 SPF with 60° phased perforating guns and Downhole Technology Boss Hog composite ball-in-place frac plug.</p> <p>Set plug @ 13050'</p> <p>Perforate as follows:</p> <p>13025' - 13026'</p> <p>12980' - 12981'</p> <p>12935' - 12936'</p> <p>12890' - 12891'</p> <p>Stabilized pressure after perf.: 4840 psi</p> <p>Maximum pump down rate: 9 bpm</p>

EP WELLS DAILY OPERATIONS REPORT

Report 27

05/04/2018

Well UNIVERSITY 19 PW UNIT 1804H
Wellbore UNIVERSITY 19 PW UNIT 1804H ST01

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								Pump down volume: 28 bbl" POOH Shut in well with 4550 psi.
3:34	0.80	FRAC	WLF			0		waiting on other pad ops
4:22	1.72	FRAC	FRT			0		University 19 PW Unit 1804H Stage 52 Summary Interval 12890 - 13026 Open Well Pressure 4,309 psi Max Treating Pressure 8,906 psi Max Slurry Rate 61.0 bpm Average Treating Pressure 7,739 psi Average Slurry Rate 49.3 bpm Breakdown Pressure 8,366 psi Breakdown Rate 8 bpm Breakdown Volume 9 gal Avg HHP 9,351 hp Final ISIP 5,025 psi Frac Gradient 0.866 psi/ft Pad Volume 7,518 gal Main Body Volume 172,578 gal Flush Volume 24,696 gal 100 M A-Z Sand Pumped 0 lbs 100 M Brown Sand Pumped 201,840 lbs 100 M White Sand Pumped 216,470 lbs Proppant in Formation 418,310 lbs Avg Proppant Concentration 3.10 lb/gal Max Proppant Concentration 4.00 lb/gal Load to Recover (incl. pumpdown) 4,137 bbls Load to Recover w/o Acid 4,137 bbls 15% HCL Spearhead 0 gal Slickwater Fluid Pumped 4,029 bbls 20# Linear Fluid Pumped 80 bbls Diverter Slurry 0 bbls 20# Crosslink Fluid Pumped 0 bbls Pump down volume 28 bbls Pump down rate 9.0 bpm Max pump down pressure 5,723 psi Fluid Temp 72.0 ?F Total Pump Time 1:43 hr:min Pumps Lost During Job 1 Treatment Start Time 4:21 0:00 0:00 Treatment End Time 6:04 0:00 0:00 - Proppant was pumped as a ramp from 0.50 - 3.0 PPA, then as holds of 3.0 PPA, 3.5 PPA and 4.0 PPA. - A ball in place plug was utilized - Two 20# gel sweeps pumped prior to flush - Pump 10084 was taken out during stage due to a mechanical issue Time for Prop on Perfs 31.0 minutes Time between Stages (TBF) 0:13 hrs/min
6:05	0.65	FRAC	FWL			0		Handover well to WL. Wait on other pad operations
6:44	0.10	FRAC	FWL			0		6:44 Pressure test lubricator to 8000 psi. 6:50 Open well with 4550 psi.
6:50	1.75	FRAC	WLT			0		7:35 "Stage #53 Plug and Perf. RIH with (4) 1' Keane guns: 2.75" OD HSC at 6 SPF with 60° phased perforating guns and Downhole Technology Boss Hog composite ball-in-place frac plug. Set plug @ 12870' Perforate as follows: 12845' - 12846'

EP WELLS DAILY OPERATIONS REPORT

Report 27

05/04/2018

Well UNIVERSITY 19 PW UNIT 1804H
Wellbore UNIVERSITY 19 PW UNIT 1804H ST01

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								12800' - 12801' 12755' - 12756' 12710' - 12711' Stabilized pressure after perf.: 4650 psi Maximum pump down rate: 9 bpm Pump down volume: 25 bbl" 7:40 POOH
8:35	1.67	FRAC	WLF			1		****Start NPT on Shell**** Waiting on wind. Wind speed 35mph, limit is 26 8:35 Shut in well with 4400 psi.
10:15	0.37	FRAC	WLF			0		****End NPT on Shell**** Come off well with WL and handover to frac
10:37	0.47	FRAC	WLF			1		****Start NPT on Keane Frac**** Data van generator down for mainatnence
11:05	0.28	FRAC	WLF			0		****End NPT on Keane Frac**** Prime pumps and equalize
11:22	0.12	FRAC	FRT			0		Open well to frac stage 53
11:29	0.58	FRAC	FRT			1		****Start NPT on Keane Frac**** Leaking chixen on pump. Shut in well, bleed down Fix leak and pressure test OW
12:04	1.67	FRAC	FRT			0		****End NPT on Keane Frac**** University 19 PW Unit 1804H Stage 53 Summary Interval 12710 - 12846 Open Well Pressure 4,016 psi Max Treating Pressure 9,026 psi Max Slurry Rate 60.6 bpm Average Treating Pressure 8,229 psi Average Slurry Rate 49.0 bpm Breakdown Pressure 8,502 psi Breakdown Rate 10 bpm Breakdown Volume 8 gal Avg HHP 9,883 hp Final ISIP 5,106 psi Frac Gradient 0.873 psi/ft Pad Volume 6,426 gal Main Body Volume 176,316 gal Flush Volume 24,780 gal 100 M A-Z Sand Pumped 0 lbs 100 M Brown Sand Pumped 331,780 lbs 100 M White Sand Pumped 91,460 lbs Proppant in Formation 423,240 lbs Avg Proppant Concentration 3.05 lb/gal Max Proppant Concentration 3.50 lb/gal Load to Recover (incl. pumpdown) 4,223 bbls Load to Recover w/o Acid 4,223 bbls 15% HCL Spearhead 0 gal Slickwater Fluid Pumped 4,118 bbls 20# Linear Fluid Pumped 80 bbls Diverter Slurry 0 bbls 20# Crosslink Fluid Pumped 0 bbls Pump down volume 25 bbls Pump down rate 9.0 bpm Max pump down pressure 5,300 psi Fluid Temp 72.0 ?F Total Pump Time 1:43 hr:min Pumps Lost During Job 0 Treatment Start Time 11:22 12:04 0:00 Treatment End Time 11:29 13:41 0:00 - Proppant was pumped as a ramp from 0.50 - 3.0 PPA, then as holds of 3.0 PPA, and 3.5 PPA. - A ball in place plug was utilized

EP WELLS DAILY OPERATIONS REPORT

Report 27

05/04/2018

Well UNIVERSITY 19 PW UNIT 1804H
Wellbore UNIVERSITY 19 PW UNIT 1804H ST01

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								- Two 20# gel sweeps pumped prior to flush -At the start of the stage we had to shut down to fix a small leak on the back of a pump, stage was resumed on schedule Time for Prop on Perfs 26.0 minutes Time between Stages (TBF) 2:59 hrs/min
13:44	2.17	FRAC	FWL			0		Handover well to WL. Wait on other pad operations
15:54	0.10	FRAC	FWL			0		15:54 Pressure test lubricator to 7500 psi. 16:00 Open well with 4400 psi.
16:00	1.25	FRAC	WLT			0		16:35 "Stage #54 Plug and Perf. RIH with (4) 1' Keane guns: 2.75" OD HSC at 6 SPF with 60° phased perforating guns and Downhole Technology Boss Hog composite ball-in-place frac plug. Set plug @ 12689' Perforate as follows: 12665' - 12666' 12620' - 12621' 12575' - 12576' 12530' - 12531' Stabilized pressure after perf.: 4670 psi Maximum pump down rate: 9 bpm Pump down volume: 22 bbl" 16:40 POOH
17:15	0.58	FRAC	WLF			0		17:15 Shut in well with 4250 psi. Set lubricator on stand Wait on frac to finish pumping Grease crown 17:50 Handover well to frac.
17:50	0.35	FRAC	WLF			0		Wait on other pad operations
18:11	1.32	FRAC	FRT			0		Start frac pump 144K sand into stage , Leak was observed , cut sand & flushed .. shut in frac
19:30	2.93	FRAC	FRT			1		***NPT***Leak on low side of missle & grease fitting in zipper fixed & obtained pressure test after several attempt
22:26	1.08	FRAC	FRT			0		University 19 PW Unit 1804H Stage 54 Summary Interval 12530 - 12666 Open Well Pressure 4,064 psi Max Treating Pressure 8,837 psi Max Slurry Rate 59.2 bpm Average Treating Pressure 7,284 psi Average Slurry Rate 57.1 bpm Breakdown Pressure 7,174 psi Breakdown Rate 2 bpm Breakdown Volume 11 gal Avg HHP 10,194 hp Final ISIP 5,255 psi Frac Gradient 0.886 psi/ft Pad Volume 13,692 gal Main Body Volume 219,744 gal Flush Volume 51,240 gal 100 M A-Z Sand Pumped 0 lbs 100 M Brown Sand Pumped 140,190 lbs 100 M White Sand Pumped 278,280 lbs Proppant in Formation 418,470 lbs Avg Proppant Concentration 2.82 lb/gal Max Proppant Concentration 4.00 lb/gal Load to Recover (incl. pumpdown) 5,254 bbls Load to Recover w/o Acid 5,254 bbls 15% HCL Spearhead 0 gal Slickwater Fluid Pumped 5,152 bbls 20# Linear Fluid Pumped 80 bbls Diverter Slurry 0 bbls

EP WELLS DAILY OPERATIONS REPORT

Report 27

05/04/2018

Well UNIVERSITY 19 PW UNIT 1804H
Wellbore UNIVERSITY 19 PW UNIT 1804H ST01

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								20# Crosslink Fluid Pumped 0 bbls Pump down volume 22 bbls Pump down rate 9.0 bpm Max pump down pressure 5,900 psi Fluid Temp 72.0 ?F Total Pump Time 2:23 hr:min Pumps Lost During Job 1 Treatment Start Time 18:10 22:25 0:00 Treatment End Time 19:28 23:30 0:00 - Proppant was pumped as a ramp from 0.50 - 3.0 PPA, then as holds of 3.0 PPA, and 3.5 PPA. and 4.0 PPA - A ball in place plug was utilized - Two 20# gel sweeps pumped prior to flush - Pump 10066 was taken out during the stage for fluid end maintenance. - We shut down operations after pumping 1,689 bbls. into the stage, after a leak was discovered on the zipper manifold. Time for Prop on Perfs 40.0 minutes Time between Stages (TBF) 0:31 hrs/min
23:31	0.20	FRAC	FWL			0		Waiting on other pad ops
23:43	0.03	FRAC	FWL			0		Pressure test lubricator to 7000 psi. Open well with 4825 psi.
23:45	0.25	FRAC	FWL			0		Perf stage 55
Total	24.00							

06.00 Update

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Description
0:00	0.93	FRAC	WLT			0	"Stage #55 Plug and Perf. RIH with (4) 1' Keane guns: 2.75" OD HSC at 6 SPF with 60° phased perforating guns and Downhole Technology Boss Hog composite ball-in-place frac plug. Set plug @ 12510' Perforate as follows: 12485' - 12486' 12440' - 12441' 12395' - 12396' 12350' - 12351' Stabilized pressure after perf.: 4810 psi Maximum pump down rate: 9 bpm Pump down volume: 18 bbl" POOH Shut in well with 4650 psi.
0:56	1.68	FRAC	WLF			0	waiting on other frac ops (pump maintance)
2:37		FRAC	FRT			0	Fac stage 55

EP WELLS DAILY OPERATIONS REPORT

Report 27

05/04/2018

Well
WellboreUNIVERSITY 19 PW UNIT 1804H
UNIVERSITY 19 PW UNIT 1804H ST01

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
05/04/2018 08:35	SHELL	Wait On Weather		WLF	N		1.67	1.67		OPEN
Description: Wind speed 35mph, limit is 26						Title: WOW				
05/04/2018 10:37	KEANE FRAC LP	Wait On Equipment/ Materials		WLF	N		0.47	0.47		OPEN
Description: Data van generator down for mainatnence						Title: Data van generator down for mainatnence				
05/04/2018 19:30	KEANE FRAC LP	Stimulation		FRT	EN	Frac - Other Equipment	2.93	2.93		OPEN
Description: Leak on low side of missle & grease fitting in zipper fixed & obtained pressure test after several attempt						Title: Leak on low side of missle				
05/04/2018 19:30	KEANE FRAC LP	Stimulation		FRT	EN	Frac - Other Equipment	0.00	2.93	1	OPEN
Description: Leaking chicksan iron						Title: Leaking chicksan				
Total							5.07	8.00		

EP WELLS DAILY OPERATIONS REPORT

Report 29

05/06/2018

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 19 PW UNIT 1804H
Wellbore	UNIVERSITY 19 PW UNIT 1804H ST01
WBS No/API No	30274449 / 4230133264.01

Event Summary

Event Type	Completion only	Event Start Date	12/06/2017	Days on Location	29.00
Objective	Install Completion	Original Spud Date	08/10/2017		
Est. Days	65.00	Contractor	PERMIAN WELL SVC		
Work Unit	PERMIAN COMPLETIONS	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	Derek Kasper	Measured Depth(ft)	
Engineer	Lindy Byerly	TVD(ft)	
Other Supervisor	John Bevans	24 Hr Progress(ft)	
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,788.55 / 2,762.90	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	5,315,505/4,979,691	Current MW / BH EMW(ppg)	/
Actual divided by AFE	1.07	LOT/FIT EMW(ppg)	
Daily Cost	355,325	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:							

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	28

Operations Summary

24 Hour Summary
Update Since Report Time
24 Hour Forecast

EP WELLS DAILY OPERATIONS REPORT

Report 29 05/06/2018

Well UNIVERSITY 19 PW UNIT 1804H
Wellbore UNIVERSITY 19 PW UNIT 1804H ST01

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	18.00	FRAC	FRT			0		RD & move to new location
Total	18.00							

EP WELLS DAILY OPERATIONS REPORT

Report 30

05/09/2018

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 19 PW UNIT 1804H
Wellbore	UNIVERSITY 19 PW UNIT 1804H ST01
WBS No/API No	30274449 / 4230133264.01

Event Summary

Event Type	Completion only	Event Start Date	12/06/2017	Days on Location	30.00
Objective	Install Completion	Original Spud Date	08/10/2017		
Est. Days	65.00	Contractor	PERMIAN WELL SVC		
Work Unit	PERMIAN COMPLETIONS	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	Eric Brunet	Measured Depth(ft)	
Engineer	Lindy Byerly	TVD(ft)	
Other Supervisor	Mike Reber	24 Hr Progress(ft)	
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,788.55 / 2,762.90	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	5,434,180/4,979,691	Current MW / BH EMW(ppg)	/
Actual divided by AFE	1.09	LOT/FIT EMW(ppg)	
Daily Cost	92,541	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:							
385 man hours							
44 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	29

Operations Summary

24 Hour Summary
Rig up 2 3/8 coil tubing unit and BHA. MU to the well. Pressure test and TIH, drill plugs #1-#34
Update Since Report Time
RIH with BHA to plug #35
24 Hour Forecast
Continue CTDO Operations

EP WELLS DAILY OPERATIONS REPORT

Report 30

05/09/2018

Well UNIVERSITY 19 PW UNIT 1804H
Wellbore UNIVERSITY 19 PW UNIT 1804H ST01

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	1.07	COIL	RGU			0		RD BHA from 1803. Cut pipe and weld coil connector on pipe. Let cool.
1:04	0.43	COIL	CHB			0		Pull test to 40K. Pressure test coil connector to 3000 psi. Make up of BHA Make up BHA Dual flapper valve 2.88 OD .20' Disconnect 2.88 OD 1.94' Circ sub 2.88 od 1.38' Screen Sub 2.88 OD 2.69' Hydro pull 2.88 OD 2.69' Motor 2.88 OD 12.58' X-Over 2.88 OD 1.18' Varel Rock Bit 3.75OD .40' Function test motor 3.5 bpm at 2500 psi 3.8 bpm at 3000 psi
1:30	1.50	COIL	RGU			0		Stab lub onto BOP and break flange off the 1803 well. Break night cap off the 1804 well and MU lub to well and make up flange.
3:00	0.50	COIL	RGU			0		Walk lines align valves. Break circulation. Pressure test low at 250 psi for 5 minutes and 8000 psi high for 5 min. Bleed back to 3400 psi. Open well with 3300 psi.
3:30	1.78	COIL				0		TIH with BHA to Plug #1 Circulating at .8 bpm at 3850 psi.
5:17	0.22	COIL				0		CTP at 10,900' check weight 35K increase pump rate to 3 bpm Continue TIW to first plug
5:30	0.17	COIL				0		PJSM review Uncaap, focus areas, golden rules, SWS, 12 LSR, discuss each vendor hazard. Continue in hole to first plug.
5:40	0.43	COIL	MIL			0		Tag # 1 @ 11814 WELLHEAD= 3200 CIRC PRES=5250 PUMP RATE= 3 bpm RETURN RATE= 3 bpm MILL TIME = 3 MIN RETURN DESCRIPTION= STALLS= DUMP PLUG CATCHER= RIH SPEED= 11 FPM TRIP TIME BETWEEN PLUGS= FR= . POP=.
6:06	0.57	COIL	MIL			0		Tag # 2 @ 11990 WELLHEAD= 3200 CIRC PRES=5250 PUMP RATE= 3 bpm RETURN RATE= 3 bpm MILL TIME = 3 MIN RETURN DESCRIPTION= STALLS= DUMP PLUG CATCHER= RIH SPEED= FPM TRIP TIME BETWEEN PLUGS= 23 min FR= .15 gal per 10 bbls. POP=.
6:40	0.48	COIL	MIL			0		Tag # 3 @ 12172 WELLHEAD= 3200 CIRC PRES=5170 PUMP RATE= 3 bpm RETURN RATE= 3 bpm MILL TIME = 3 MIN RETURN DESCRIPTION= STALLS= DUMP PLUG CATCHER= RIH SPEED= FPM TRIP TIME BETWEEN PLUGS= 31 min FR= .15 gal per 10 bbls. POP=.
7:09	0.67	COIL	MIL			0		Tag # 4 @ 12347 WELLHEAD= 3200

EP WELLS DAILY OPERATIONS REPORT

Report 30

05/09/2018

Well UNIVERSITY 19 PW UNIT 1804H
Wellbore UNIVERSITY 19 PW UNIT 1804H ST01

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								CIRC PRES = 5280 PUMP RATE= 3 bpm RETURN RATE= 3 bpm MILL TIME = 11 MIN RETURN DESCRIPTION= STALLS= DUMP PLUG CATCHER= RIH SPEED= FPM TRIP TIME BETWEEN PLUGS= 24 min FR= .15 gal per 10 bbls. POP=.
7:49	0.50	COIL	MIL			0		Tag # 5 @ 12530 WELLHEAD= 3200 CIRC PRES=5400 PUMP RATE= 3.5 bpm RETURN RATE= 3 bpm MILL TIME = 11 MIN RETURN DESCRIPTION= seeing sand in returns STALLS= DUMP PLUG CATCHER= 1 RIH SPEED= FPM TRIP TIME BETWEEN PLUGS= 29 min FR= .15 gal per 10 bbls. POP=.
								NOTE: increase pump rate 3.5 bpm NOTE: seeing sand back in returns
8:19	0.52	COIL	MIL			0		Tag # 6 @ 12711 WELLHEAD= 3200 CIRC PRES=6200 PUMP RATE= 3.5 bpm RETURN RATE= 3.5 bpm MILL TIME = 10 MIN RETURN DESCRIPTION= seeing sand in returns STALLS= DUMP PLUG CATCHER= dumped RIH SPEED= FPM TRIP TIME BETWEEN PLUGS= 19 min FR= .15 gal per 10 bbls. POP=.
8:50	0.52	COIL	MIL			0		Tag # 7 @ 12889 WELLHEAD= 3200 CIRC PRES=6100 PUMP RATE= 3.5 bpm RETURN RATE= 3.5 bpm MILL TIME = 8 MIN RETURN DESCRIPTION= STALLS= DUMP PLUG CATCHER= dumped RIH SPEED= FPM TRIP TIME BETWEEN PLUGS= 21 min FR= .15 gal per 10 bbls. POP=.
9:21	0.43	COIL	MIL			0		Tag # 8 @ 13071 WELLHEAD= 3200 CIRC PRES=6100 PUMP RATE= 3.5 bpm RETURN RATE= 3.5 bpm MILL TIME = 5 MIN RETURN DESCRIPTION= STALLS= DUMP PLUG CATCHER= RIH SPEED= FPM TRIP TIME BETWEEN PLUGS= 23 min FR= .15 gal per 10 bbls. POP=.
9:47	0.48	COIL	MIL			0		Tag # 9 @ 13250 WELLHEAD= 3200 CIRC PRES=6100 PUMP RATE= 3.5 bpm RETURN RATE= 3.5 bpm MILL TIME = 8 MIN

EP WELLS DAILY OPERATIONS REPORT

Report 30

05/09/2018

Well UNIVERSITY 19 PW UNIT 1804H
Wellbore UNIVERSITY 19 PW UNIT 1804H ST01

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								RETURN DESCRIPTION= STALLS= DUMP PLUG CATCHER= RIH SPEED= FPM TRIP TIME BETWEEN PLUGS= 21 min FR= .15 gal per 10 bbls. POP=.
10:16	0.47	COIL	MIL			0		Tag # 10 @ 13429 WELLHEAD= 3200 CIRC PRES=6100 PUMP RATE= 3.5 bpm RETURN RATE= 3.5 bpm MILL TIME = 7 MIN RETURN DESCRIPTION= STALLS= DUMP PLUG CATCHER= RIH SPEED= FPM TRIP TIME BETWEEN PLUGS= 21 min FR= .15 gal per 10 bbls. POP=.
10:44	0.37	COIL	MIL			0		Tag # 11 @ 13613 WELLHEAD= 3200 CIRC PRES=6100 PUMP RATE= 3.5 bpm RETURN RATE= 3.5 bpm MILL TIME = 5 MIN RETURN DESCRIPTION= STALLS= DUMP PLUG CATCHER= RIH SPEED= FPM TRIP TIME BETWEEN PLUGS= 21 min FR= .15 gal per 10 bbls. POP=.
11:06	0.47	COIL	MIL			0		Tag # 12 @ 13791 WELLHEAD= 3200 CIRC PRES=6100 PUMP RATE= 3.5 bpm RETURN RATE= 3.5 bpm MILL TIME = 8 MIN RETURN DESCRIPTION= STALLS= DUMP PLUG CATCHER= RIH SPEED= FPM TRIP TIME BETWEEN PLUGS= 17 min FR= .15 gal per 10 bbls. POP=.02
11:34	0.33	COIL	MIL			0		Tag # 13 @ 13973 WELLHEAD= 3200 CIRC PRES=6100 PUMP RATE= 3.5 bpm RETURN RATE= 3.5 bpm MILL TIME = 4 MIN RETURN DESCRIPTION= STALLS= DUMP PLUG CATCHER= RIH SPEED= FPM TRIP TIME BETWEEN PLUGS= 20 min FR= .15 gal per 10 bbls. POP=.02
11:54	0.40	COIL	MIL			0		Tag # 14 @ 14154 WELLHEAD= 3200 CIRC PRES=6100 PUMP RATE= 3.5 bpm RETURN RATE= 3.5 bpm MILL TIME = 4 MIN RETURN DESCRIPTION= STALLS= 1 DUMP PLUG CATCHER= RIH SPEED= FPM TRIP TIME BETWEEN PLUGS= 16 min FR= .15 gal per 10 bbls. POP=.02

EP WELLS DAILY OPERATIONS REPORT

Report 30

05/09/2018

Well UNIVERSITY 19 PW UNIT 1804H
Wellbore UNIVERSITY 19 PW UNIT 1804H ST01

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
12:18	1.18	COIL	MIL			0		Tag # 15 @ 14333 WELLHEAD= 3200 CIRC PRES=6300 PUMP RATE= 3.5 bpm RETURN RATE= 3.5 bpm MILL TIME = 8 MIN RETURN DESCRIPTION= STALLS= DUMP PLUG CATCHER= RIH SPEED= FPM TRIP TIME BETWEEN PLUGS= 16 min FR= .15 gal per 10 bbls. POP=.02 12:48 NOTE: tagged up checked wt pick up was clean 55K made 500 foot pick up Continue in hole to next plug
13:29	0.52	COIL	MIL			0		Tag # 16 @ 14509 WELLHEAD= 3200 CIRC PRES=6180 PUMP RATE= 3.5 bpm RETURN RATE= 3.5 bpm MILL TIME = 14 MIN RETURN DESCRIPTION= STALLS= DUMP PLUG CATCHER= RIH SPEED= FPM TRIP TIME BETWEEN PLUGS= 20 min FR= .15 gal per 10 bbls. POP=.02
14:00	0.52	COIL	MIL			0		Tag # 17 @ 14691 WELLHEAD= 3200 CIRC PRES=6200 PUMP RATE= 3.5 bpm RETURN RATE= 3.5 bpm MILL TIME = 21 MIN RETURN DESCRIPTION= STALLS= DUMP PLUG CATCHER= RIH SPEED= FPM TRIP TIME BETWEEN PLUGS= 19 min FR= .15 gal per 10 bbls. POP=.02
14:31	0.35	COIL	MIL			0		Tag # 18 @ 14872 WELLHEAD= 3200 CIRC PRES=6350 PUMP RATE= 3.5 bpm RETURN RATE= 3.5 bpm MILL TIME = 7 MIN RETURN DESCRIPTION= STALLS= DUMP PLUG CATCHER= RIH SPEED= FPM TRIP TIME BETWEEN PLUGS= 10 min FR= .15 gal per 10 bbls. POP=.02
14:52	0.33	COIL	MIL			0		Tag # 19 @ 15054 WELLHEAD= 3200 CIRC PRES=6350 PUMP RATE= 3.5 bpm RETURN RATE= 3.5 bpm MILL TIME = 7 MIN RETURN DESCRIPTION= STALLS= DUMP PLUG CATCHER= RIH SPEED= FPM TRIP TIME BETWEEN PLUGS= 14 min FR= .15 gal per 10 bbls. POP=.02
15:12	0.62	COIL	MIL			0		Tag # 20 @ 15233 WELLHEAD= 3200 CIRC PRES=6350 PUMP RATE= 3.5 bpm

EP WELLS DAILY OPERATIONS REPORT

Report 30

05/09/2018

Well UNIVERSITY 19 PW UNIT 1804H
Wellbore UNIVERSITY 19 PW UNIT 1804H ST01

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								RETURN RATE= 3.5 bpm MILL TIME = 9 MIN RETURN DESCRIPTION= STALLS= DUMP PLUG CATCHER= RIH SPEED= FPM TRIP TIME BETWEEN PLUGS= 13 min FR= .15 gal per 10 bbls. POP=.02
15:49	0.37	COIL	MIL			0		Tag # 21 @ 15414 WELLHEAD= 3200 CIRC PRES=6200 PUMP RATE= 3.5 bpm RETURN RATE= 3.5 bpm MILL TIME = 6 MIN RETURN DESCRIPTION= STALLS= DUMP PLUG CATCHER= RIH SPEED= FPM TRIP TIME BETWEEN PLUGS= 28 min FR= .15 gal per 10 bbls. POP=.02 16:00 NOTE: started sending 2- 5 bbl sluges and hour of pipe on pipe
16:11	0.70	COIL	MIL			0		Tag # 22 @ 15598 WELLHEAD= 3200 CIRC PRES=6450 PUMP RATE= 3.5 bpm RETURN RATE= 3.5 bpm MILL TIME = 19 MIN RETURN DESCRIPTION= STALLS= DUMP PLUG CATCHER= RIH SPEED= FPM TRIP TIME BETWEEN PLUGS= 16 min FR= .15 gal per 10 bbls. POP=.02 5 bbl sluges of pipe on pipe 2 x's hour
16:53	0.57	COIL	MIL			0		Tag # 23 @ 15774 WELLHEAD= 3200 CIRC PRES=6450 PUMP RATE= 3.5 bpm RETURN RATE= 3.5 bpm MILL TIME = 6 MIN RETURN DESCRIPTION= STALLS= DUMP PLUG CATCHER= RIH SPEED= FPM TRIP TIME BETWEEN PLUGS= 23 min FR= .15 gal per 10 bbls. POP=.02 5 bbl sluges of pipe on pipe 2 x's hour
17:27	0.42	COIL	MIL			0		Tag # 24 @ 15957 WELLHEAD= 3200 CIRC PRES=6450 PUMP RATE= 3.5 bpm RETURN RATE= 3.5 bpm MILL TIME = 7 MIN RETURN DESCRIPTION= STALLS= DUMP PLUG CATCHER= RIH SPEED= FPM TRIP TIME BETWEEN PLUGS= 28 min FR= .15 gal per 10 bbls. POP=.02 5 bbl sluges of pipe on pipe 2 x's 17:30 PJSM review Uncaap, focus areas, golden rules, SWS, 12 LSR, discuss each vendor hazard.
17:52	0.52	COIL	MIL			0		Tag # 25 @ 16142 WELLHEAD= 3200

EP WELLS DAILY OPERATIONS REPORT

Report 30

05/09/2018

Well UNIVERSITY 19 PW UNIT 1804H
Wellbore UNIVERSITY 19 PW UNIT 1804H ST01

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								CIRC PRES=6450 PUMP RATE= 3.5 bpm RETURN RATE= 3.5 bpm MILL TIME = 6 MIN RETURN DESCRIPTION= STALLS= DUMP PLUG CATCHER= RIH SPEED= FPM TRIP TIME BETWEEN PLUGS= 18 min FR= .15 gal per 10 bbls. POP=.02 5 bbl sluges of pipe on pipe 2 x's
18:23	0.67	COIL	MIL			0		Tag # 26 @ 16323 WELLHEAD= 3200 CIRC PRES=6300 PUMP RATE= 3.5 bpm RETURN RATE= 3.5 bpm MILL TIME = 4 MIN RETURN DESCRIPTION= STALLS= DUMP PLUG CATCHER= x1 RIH SPEED= 12 FPM TRIP TIME BETWEEN PLUGS= 31 min FR= .15 gal per 10 bbls. POP=.2 gal / 10 bbls, x2 5 bbl slugs mixed at 5 gal/10 bbls hour PU at 16,399' at 60K / 2,500 psi hyd, clear string wieght with 25' PU
19:03	0.48	COIL	MIL			0		Tag # 27 @ 16504 WELLHEAD= 3200 CIRC PRES=6150 PUMP RATE= 3.5 bpm RETURN RATE= 3.5 bpm MILL TIME = 4 MIN RETURN DESCRIPTION= STALLS= DUMP PLUG CATCHER= RIH SPEED= 8 FPM TRIP TIME BETWEEN PLUGS= 31 min FR= .15 gal per 10 bbls. POP=.2 gal / 10 bbls, x2 5 bbl slugs mixed at 5 gal/10 bbls hour
19:32	0.70	COIL	MIL			0		Tag # 28 @ 16681' WELLHEAD= 3250 CIRC PRES=6300 PUMP RATE= 3.5 bpm RETURN RATE= 3.5 bpm MILL TIME = 7 MIN RETURN DESCRIPTION= STALLS= DUMP PLUG CATCHER= x1 RIH SPEED= 7 FPM TRIP TIME BETWEEN PLUGS= 30 min FR= .15 gal per 10 bbls. POP=.2 gal / 10 bbls, x2 5 bbl slugs mixed at 5 gal/10 bbls hour
20:14	0.67	COIL	MIL			0		Tag # 29 @ 16864' WELLHEAD= 3200 CIRC PRES=6250 PUMP RATE= 3.5 bpm RETURN RATE= 3.5 bpm MILL TIME = 5 MIN RETURN DESCRIPTION= STALLS= DUMP PLUG CATCHER= RIH SPEED= 4.5 FPM TRIP TIME BETWEEN PLUGS= 36 min FR= .15 gal per 10 bbls. POP=.2 gal / 10 bbls, x2 5 bbl slugs mixed at 5 gal/10 bbls hour VIS 27.4 / 52,000 Re / 8,000 Chlorides

EP WELLS DAILY OPERATIONS REPORT

Report 30

05/09/2018

Well UNIVERSITY 19 PW UNIT 1804H
Wellbore UNIVERSITY 19 PW UNIT 1804H ST01

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
20:54	0.58	COIL	MIL			0		Tag # 30 @ 17053' WELLHEAD= 3200 CIRC PRES=6270 PUMP RATE= 3.5 bpm RETURN RATE= 3.5 bpm MILL TIME = 5 MIN RETURN DESCRIPTION= STALLS= DUMP PLUG CATCHER= 21:00 x1 RIH SPEED= 4.5 FPM TRIP TIME BETWEEN PLUGS= 40 min FR= .15 gal per 10 bbls. POP=.2 gal / 10 bbls, x2 5 bbl slugs mixed at 5 gal/10 bbls hour
21:29	0.68	COIL	MIL			0		Tag # 31 @ 17230' WELLHEAD= 3200 CIRC PRES=6200 PUMP RATE= 3.5 bpm RETURN RATE= 3.5 bpm MILL TIME = 7 MIN RETURN DESCRIPTION= STALLS= DUMP PLUG CATCHER= RIH SPEED= 4.5 FPM TRIP TIME BETWEEN PLUGS= 35 min FR= .15 gal per 10 bbls. POP=.2 gal / 10 bbls, x2 5 bbl slugs mixed at 5 gal/10 bbls hour VIS 27.4 / 52,000 Re / 8,000 Chlorides
22:10	0.78	COIL	MIL			0		Tag # 32 @ 17414' WELLHEAD= 3200 CIRC PRES=6200 PUMP RATE= 3.5 bpm RETURN RATE= 3.5 bpm MILL TIME = 12 MIN RETURN DESCRIPTION= STALLS= x1 DUMP PLUG CATCHER= RIH SPEED= 5.0 FPM TRIP TIME BETWEEN PLUGS= 41 min FR= .15 gal per 10 bbls. POP=.2 gal / 10 bbls, x2 5 bbl slugs mixed at 5 gal/10 bbls hour VIS 27.4 / 52,000 Re / 8,000 Chlorides
22:57	0.72	COIL	MIL			0		Tag # 33 @ 17589' WELLHEAD= 3200 CIRC PRES=6200 PUMP RATE= 3.5 bpm RETURN RATE= 3.5 bpm MILL TIME = 4 MIN RETURN DESCRIPTION= STALLS= DUMP PLUG CATCHER= 22:00 dump x1 RIH SPEED= 4.0 FPM TRIP TIME BETWEEN PLUGS= 47 min FR= .15 gal per 10 bbls. POP=.2 gal / 10 bbls, x2 5 bbl slugs mixed at 5 gal/10 bbls hour VIS 27.4 / 52,000 Re / 8,000 Chlorides
23:40	0.33	COIL	MIL			0		Tag # 34 @ 17769' WELLHEAD= 3200 CIRC PRES=6300 PUMP RATE= 3.5 bpm RETURN RATE= 3.5 bpm MILL TIME = 9 MIN RETURN DESCRIPTION= STALLS= x1 DUMP PLUG CATCHER= RIH SPEED= 7.0 FPM TRIP TIME BETWEEN PLUGS= 43 min FR= .15 gal per 10 bbls. POP=.2 gal / 10 bbls, x2 5 bbl slugs mixed

EP WELLS DAILY OPERATIONS REPORT

Report 30

05/09/2018

Well UNIVERSITY 19 PW UNIT 1804H
Wellbore UNIVERSITY 19 PW UNIT 1804H ST01

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								at 5 gal/10 bbls hour VIS 27.4 / 52,000 Re / 8,000 Chlorides 23:59 Continue mill plugs and RIH to plug #35 at 17,805' / 6,300 psi CP / 3,200 WH
Total	24.00							

06.00 Update

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Description
0:00	0.50	COIL	MIL			0	Tag # 35 @ 17954' WELLHEAD= 3200 CIRC PRES=6200 PUMP RATE= 3.5 bpm RETURN RATE= 3.5 bpm MILL TIME = 9 MIN RETURN DESCRIPTION= light sand / light gas STALLS= DUMP PLUG CATCHER= RIH SPEED= 5.0 FPM TRIP TIME BETWEEN PLUGS= 50 min FR= .15 gal per 10 bbls. POP=.2 gal / 10 bbls, x2 5 bbl slugs mixed at 5 gal/10 bbls hour VIS 27.4 / 52,000 Re / 8,000 Chlorides
0:30	0.75	COIL	MIL			0	Tag # 36 @ 18129' WELLHEAD= 3150 CIRC PRES=6300 PUMP RATE= 3.5 bpm RETURN RATE= 3.5 bpm MILL TIME = 6 MIN RETURN DESCRIPTION= light sand / light gas STALLS= DUMP PLUG CATCHER= RIH SPEED= 4.3 FPM TRIP TIME BETWEEN PLUGS= 45 min FR= .15 gal per 10 bbls. POP=.2 gal / 10 bbls, x2 5 bbl slugs mixed at 5 gal/10 bbls hour
1:15	1.05	COIL	MIL			0	Tag # 37 @ 18307' WELLHEAD= 3200 CIRC PRES=6100 PUMP RATE= 3.5 bpm RETURN RATE= 3.5 bpm MILL TIME = 7 MIN RETURN DESCRIPTION= light sand / light gas STALLS= DUMP PLUG CATCHER= 02:18 dump x1 RIH SPEED= 4.3 FPM TRIP TIME BETWEEN PLUGS= 45 min FR= .15 gal per 10 bbls. POP=.2 gal / 10 bbls, x2 5 bbl slugs mixed at 5 gal/10 bbls hour
2:18		COIL	MIL			0	Tag # 38 @ 18129' WELLHEAD= 3150 CIRC PRES=6300 PUMP RATE= 3.5 bpm RETURN RATE= 3.5 bpm MILL TIME = 6 MIN RETURN DESCRIPTION= light sand / light gas STALLS= DUMP PLUG CATCHER= RIH SPEED= 4.3 FPM TRIP TIME BETWEEN PLUGS= 45 min FR= .15 gal per 10 bbls. POP=.2 gal / 10 bbls, x2 5 bbl slugs mixed at 5 gal/10 bbls hour

EP WELLS DAILY OPERATIONS REPORT

Report 31

05/10/2018

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 19 PW UNIT 1804H
Wellbore	UNIVERSITY 19 PW UNIT 1804H ST01
WBS No/API No	30274449 / 4230133264.01

Event Summary

Event Type	Completion only	Event Start Date	12/06/2017	Days on Location	31.00
Objective	Install Completion	Original Spud Date	08/10/2017		
Est. Days	65.00	Contractor	PERMIAN WELL SVC		
Work Unit	PERMIAN COMPLETIONS	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	Eric Brunet	Measured Depth(ft)	
Engineer	Lindy Byerly	TVD(ft)	
Other Supervisor	Mike Reber	24 Hr Progress(ft)	
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,788.55 / 2,762.90	Hole size(in)	
THF Datum			
Daily NPT(hr/%)	10.98/45.76	Last Casing MD	
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	
Actual cost to date/AFE	5,550,911/4,979,691	Current MW / BH EMW(ppg)	/
Actual divided by AFE	1.11	LOT/FIT EMW(ppg)	
Daily Cost	101,779	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:							
410 man hours							
46 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	30

Operations Summary

24 Hour Summary
Drill plugs #35 to #45, Continue RIH to 19,766', pump bearing going out, pump 10/10/10 and chase out of hole to 15,328', change out pump, RIH to plug #46 at 18,985 ft/m at report time
Update Since Report Time
Continue drill plugs
24 Hour Forecast
Complete drill plugs #46-#59

EP WELLS DAILY OPERATIONS REPORT

Report 31

05/10/2018

Well UNIVERSITY 19 PW UNIT 1804H
Wellbore UNIVERSITY 19 PW UNIT 1804H ST01

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	0.50	COIL	MIL			0		Tag # 35 @ 17954' WELLHEAD= 3200 CIRC PRES=6200 PUMP RATE= 3.5 bpm RETURN RATE= 3.5 bpm MILL TIME = 9 MIN RETURN DESCRIPTION= light sand / light gas STALLS= DUMP PLUG CATCHER= RIH SPEED= 3-5 FPM TRIP TIME BETWEEN PLUGS= 50 min FR= .15 gal per 10 bbls. POP=.2 gal / 10 bbls, x2 5 bbl slugs mixed at 5 gal/10 bbls hour VIS 27.4 / 52,000 Re / 8,000 Chlorides
0:30	0.75	COIL	MIL			0		Tag # 36 @ 18129' WELLHEAD= 3150 CIRC PRES=6300 PUMP RATE= 3.5 bpm RETURN RATE= 3.5 bpm MILL TIME = 6 MIN RETURN DESCRIPTION= medium sand / light gas STALLS= DUMP PLUG CATCHER= RIH SPEED= 4 FPM TRIP TIME BETWEEN PLUGS= 45 min FR= .15 gal per 10 bbls. POP=.2 gal / 10 bbls, x2 5 bbl slugs mixed at 5 gal/10 bbls hour
1:15	1.05	COIL	MIL			0		Tag # 37 @ 18307' WELLHEAD= 3200 CIRC PRES=6100 PUMP RATE= 3.5 bpm RETURN RATE= 3.5 bpm MILL TIME = 7 MIN RETURN DESCRIPTION= minimal sand / light gas STALLS= DUMP PLUG CATCHER= 02:18 dump x1 RIH SPEED= 2-3 FPM TRIP TIME BETWEEN PLUGS= 63 min FR= .15 gal per 10 bbls. POP=.2 gal / 10 bbls, x2 5 bbl slugs mixed at 5 gal/10 bbls hour
2:18	0.82	COIL	MIL			0		Tag # 38 @ 18501' WELLHEAD= 3200 CIRC PRES=6200 PUMP RATE= 3.5 bpm RETURN RATE= 3.5 bpm MILL TIME = 7 MIN RETURN DESCRIPTION= heavy sand / gas STALLS= DUMP PLUG CATCHER= RIH SPEED= 2-3 FPM TRIP TIME BETWEEN PLUGS= 79 min FR= .15 gal per 10 bbls. POP=.2 gal / 10 bbls, x2 5 bbl slugs mixed at 5 gal/10 bbls hour
3:07	1.52	COIL	MIL			0		Tag # 39 @ 18674 WELLHEAD= 3200 CIRC PRES=6200 PUMP RATE= 3.5 bpm RETURN RATE= 3.5 bpm MILL TIME = 7 MIN RETURN DESCRIPTION= minimal sand / some gas STALLS= DUMP PLUG CATCHER= RIH SPEED= 2-3 FPM TRIP TIME BETWEEN PLUGS= 79 min FR= .15 gal per 10 bbls. POP=.2 gal / 10 bbls, x2 5 bbl slugs mixed at 5 gal/10 bbls hour

EP WELLS DAILY OPERATIONS REPORT

Report 31

05/10/2018

Well UNIVERSITY 19 PW UNIT 1804H
Wellbore UNIVERSITY 19 PW UNIT 1804H ST01

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
4:38	1.55	COIL	MIL			0		Tag # 40 @ 18852 WELLHEAD= 3200 CIRC PRES=6200 PUMP RATE= 3.5 bpm RETURN RATE= 3.5 bpm MILL TIME = 10 MIN RETURN DESCRIPTION= no sand / some gas STALLS= DUMP PLUG CATCHER= RIH SPEED= 2-3 FPM TRIP TIME BETWEEN PLUGS= 66 min FR= .15 gal per 10 bbls. POP=.2 gal / 10 bbls, x2 5 bbl slugs mixed at 5 gal/10 bbls hour
6:11	1.47	COIL	MIL			0		Tag # 41 @ 19037 WELLHEAD= 3200 CIRC PRES=6200 PUMP RATE= 3.5 bpm RETURN RATE= 3.5 bpm MILL TIME = 5 MIN RETURN DESCRIPTION= minimal sand STALLS= DUMP PLUG CATCHER= RIH SPEED= 2-3 FPM TRIP TIME BETWEEN PLUGS= 78 min FR= .15 gal per 10 bbls. POP=.2 gal / 10 bbls, x2 5 bbl slugs mixed at 5 gal/10 bbls hour
7:39	1.22	COIL	MIL			0		Tag # 42 @ 19220 WELLHEAD= 3200 CIRC PRES=6400 PUMP RATE= 3.5 bpm RETURN RATE= 3.5 bpm MILL TIME = 10 MIN RETURN DESCRIPTION= light sand / some gas STALLS= DUMP PLUG CATCHER= dump catcher RIH SPEED= 2-3 FPM TRIP TIME BETWEEN PLUGS= 68 min FR= .15 gal per 10 bbls. POP=.2 gal / 10 bbls, x2 5 bbl slugs mixed at 5 gal/10 bbls hour
8:52	1.43	COIL	MIL			0		Tag # 43 @ 19399 WELLHEAD= 3200 CIRC PRES=6400 PUMP RATE= 3.5 bpm RETURN RATE= 3.5 bpm MILL TIME = 10 MIN RETURN DESCRIPTION= minimal sand STALLS= DUMP PLUG CATCHER= dump catcher RIH SPEED= 2-3 FPM TRIP TIME BETWEEN PLUGS= 76 min FR= .15 gal per 10 bbls. POP=.2 gal / 10 bbls, x2 5 bbl slugs mixed at 5 gal/10 bbls hour
10:18	1.53	COIL	MIL			0		Tag # 44 @ 19581 WELLHEAD= 3200 CIRC PRES=6400 PUMP RATE= 3.5 bpm RETURN RATE= 3.5 bpm MILL TIME = 7 MIN RETURN DESCRIPTION= minimal sand STALLS= DUMP PLUG CATCHER= dump catcher RIH SPEED= 2-3 FPM TRIP TIME BETWEEN PLUGS= 81 min FR= .15 gal per 10 bbls. POP=.2 gal / 10 bbls, x2 5 bbl slugs mixed at 5 gal/10 bbls hour
11:50	1.18	COIL	MIL			0		Tag # 45 @ 19763 WELLHEAD= 3200

EP WELLS DAILY OPERATIONS REPORT

Report 31

05/10/2018

Well UNIVERSITY 19 PW UNIT 1804H
Wellbore UNIVERSITY 19 PW UNIT 1804H ST01

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								CIRC PRES=6400 PUMP RATE= 3.5 bpm RETURN RATE= 3.5 bpm MILL TIME = 9 MIN RETURN DESCRIPTION= minimal sand STALLS= 1 DUMP PLUG CATCHER= dump catcher RIH SPEED= 2-3 FPM TRIP TIME BETWEEN PLUGS= 64 min FR= .15 gal per 10 bbls. POP=.2 gal / 10 bbls, x2 5 bbl slugs mixed at 5 gal/10 bbls hour NOTE: Issues with CTP pump decision made to pooh pump 10/10/10 sweep
13:01	2.48	COIL	MIL			1		CTP pooh due to Pump issues
15:30	0.50	COIL	MIL			1		Coil tubing @ 15328' stop pooh continue to circ Replacement pump on location. had discussion with crew and Engineer Decision was made to not pooh get pump Rig up and TBIH to mill plugs
16:00	1.00	COIL	MIL			1		Pause Make plan review SWS 7 step uncaap on pad change out pump
17:00	0.50	COIL	MIL			1		Prime up pump and pressure test pump line to 8000 psi good test Continue run back in hole from 15328' NOTE: NPT time ends at 19700' coil tubing depth
17:30	0.50	COIL	MIL			1		PJSM with crews Review uncaap, SWS, 12 LSR, golden rules review 7 step process
18:00	6.00	COIL	MIL			1		19:00 RIH from 17,234' / RIH weight -1K to -2K / 3.5 bbl in 3.5 bbl out / 6,150 CP / 3200 WH 21:00 RIH from 18,130' / RIH weight -4K / 3.5 bbl in 3.5 bbl out / 6,200 CP / 3250 WH FR at .15 gal / 10 bbls POP at .2 gal / 10 bbls, mix x2 slugs an hour at 5 gal / 10 bbls 23:00 RIH from 18,689' / RIH weight -2K / RIH speed 3.5-4.5 ft/m / 3.5 in 3.5 out / 6,200 CP 23:15 NOTE Mix 10 gal / 10 bbls Beka slug / pump 5 bbls now and 5 bbls in 30 min 23:58 RIH from 18,985' / RIH weight -2K / RIH speed 6 - 7.5 ftm / 3.5 in 3.5 out / 6,200 CP / 3,250 WH / Beka Lube has improved RIH speed / stay with 10 gal / 10 bbls x2 hour 5 bbl slugs
Total	24.00							

06.00 Update

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Description
0:00	2.63	COIL	MIL			1	01:45 Weight check at 19,700', drop rate to 1 bpm / PU 54K (2,700 psi hyd), bring rate to 3.5 bpm, continue RIH to plug #46 at 17,710' 02:00 ****CTP COIL TUBING PUMP ISSUES ENDS, BACK AT DEPTH**** 13 HRS TOTAL RIH to plug #46 at 17,910'
2:38	1.38	COIL	MIL			0	Tag #46 @ 19941' WELLHEAD= 3200 CIRC PRES=6200 PUMP RATE= 3.5 bpm RETURN RATE= 3.5 bpm MILL TIME = 4 MIN RETURN DESCRIPTION= light sand / light gas STALLS=

EP WELLS DAILY OPERATIONS REPORT

Report 31

05/10/2018

Well UNIVERSITY 19 PW UNIT 1804H
Wellbore UNIVERSITY 19 PW UNIT 1804H ST01

06.00 Update

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Description
							DUMP PLUG CATCHER= RIH SPEED= 3 FPM TRIP TIME BETWEEN PLUGS= 80 min FR= .15 gal per 10 bbls. Beka Lube at 6 gal /10 bbls, x2 5 bbl slugs hour VIS 27.4 / 49,000 Re / 8,000 Chlorides
4:01		COIL	MIL			0	Tag #47 @ 20,123' WELLHEAD= 3250 CIRC PRES=6100 PUMP RATE= 3.5 bpm RETURN RATE= 3.5 bpm MILL TIME = 5 MIN RETURN DESCRIPTION= light sand / light gas STALLS= DUMP PLUG CATCHER= RIH SPEED= 3 FPM TRIP TIME BETWEEN PLUGS= 83 min FR= .15 gal per 10 bbls. POP drip at .1 Beka Lube at 6 gal /10 bbls, x2 5 bbl slugs hour VIS 27.4 / 49,000 Re / 8,000 Chlorides

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
05/10/2018 13:01	COIL TUBING PARTNERS LLC	Rig/Work Unit Misc		MIL	EN	Coil Tubing Surface Equipment	13.62	13.62	1	OPEN
Description: unable to run pump due to possible bearing coming apart inside the pump						Title: CTP Coil Tubing Pump issues				
Total							13.62	13.62		

EP WELLS DAILY OPERATIONS REPORT

Report 32

05/11/2018

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 19 PW UNIT 1804H
Wellbore	UNIVERSITY 19 PW UNIT 1804H ST01
WBS No/API No	30274449 / 4230133264.01

Event Summary

Event Type	Completion only	Event Start Date	12/06/2017	Days on Location	32.00
Objective	Install Completion	Original Spud Date	08/10/2017		
Est. Days	65.00	Contractor	PERMIAN WELL SVC		
Work Unit	PERMIAN COMPLETIONS	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	Eric Brunet	Measured Depth(ft)	
Engineer	Lindy Byerly	TVD(ft)	
Other Supervisor	Mike Reber	24 Hr Progress(ft)	
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,788.55 / 2,762.90	Hole size(in)	
THF Datum			
Daily NPT(hr/%)	2.63/10.97	Last Casing MD	
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	
Actual cost to date/AFE	5,651,787/4,979,691	Current MW / BH EMW(ppg)	/
Actual divided by AFE	1.13	LOT/FIT EMW(ppg)	
Daily Cost	99,377	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:							
425 man hours							
46 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	31

Operations Summary

24 Hour Summary
RIH from 18,985' to plug #46, 13 hrs NPT, mill plugs #46 to #59, total final depth 22,270' CTM, pump 10/10/10 and chase out of hole
Update Since Report Time
Bump up, pump 420 bbls down casing, SD, secure well
24 Hour Forecast
BD tools, inspect bit, RD CT package, chem package

EP WELLS DAILY OPERATIONS REPORT

Report 32

05/11/2018

Well UNIVERSITY 19 PW UNIT 1804H
Wellbore UNIVERSITY 19 PW UNIT 1804H ST01

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	2.63	COIL	MIL			1		01:45 Weight check at 19,700', drop rate to 1 bpm / PU 54K (2,700 psi hyd), bring rate to 3.5 bpm, continue RIH to plug #46 at 17,710' 02:00 ****CTP COIL TUBING PUMP ISSUES ENDS, BACK AT DEPTH**** 13 HRS TOTAL RIH to plug #46 at 17,910'
2:38	1.38	COIL	MIL			0		Tag #46 @ 19941' WELLHEAD= 3200 CIRC PRES=6200 PUMP RATE= 3.5 bpm RETURN RATE= 3.5 bpm MILL TIME = 4 MIN RETURN DESCRIPTION= light sand / light gas STALLS= DUMP PLUG CATCHER= RIH SPEED= 3 FPM TRIP TIME BETWEEN PLUGS= 80 min FR= .15 gal per 10 bbls. Beka Lube at 5 gal /10 bbls, x2 5 bbl slugs hour VIS 27.4 / 49,000 Re / 8,000 Chlorides
4:01	1.35	COIL	MIL			0		Tag #47 @ 20,123' WELLHEAD= 3200 CIRC PRES=6200 PUMP RATE= 3.5 bpm RETURN RATE= 3.5 bpm MILL TIME = 4 MIN RETURN DESCRIPTION= light sand / light gas STALLS= DUMP PLUG CATCHER= RIH SPEED= 3 FPM TRIP TIME BETWEEN PLUGS= 83 min FR= .15 gal per 10 bbls. Beka Lube at 5 gal /10 bbls, x2 5 bbl slugs hour
5:22	1.48	COIL	MIL			0		Tag #48 @ 20,250' NO SHOW WELLHEAD= 3250 CIRC PRES=6100 PUMP RATE= 3.5 bpm RETURN RATE= 3.5 bpm MILL TIME = 5 MIN RETURN DESCRIPTION= light sand / light gas STALLS= DUMP PLUG CATCHER= RIH SPEED= 3 FPM TRIP TIME BETWEEN PLUGS= 81 min FR= .15 gal per 10 bbls. POP drip at .1 Beka Lube at 5 gal /10 bbls, x2 5 bbl slugs hour
6:51	0.85	COIL	MIL			0		Tag #49 @ 20,430' NO SHOW WELLHEAD= 3250 CIRC PRES=6100 PUMP RATE= 3.5 bpm RETURN RATE= 3.5 bpm MILL TIME = 5 MIN RETURN DESCRIPTION= heavy sand / light gas STALLS= DUMP PLUG CATCHER= RIH SPEED= 3 FPM TRIP TIME BETWEEN PLUGS= 89 min FR= .15 gal per 10 bbls. POP drip at .1 Beka Lube at 5 gal /10 bbls, x2 5 bbl slugs hour
7:42	1.12	COIL	MIL			0		Tag # 50 @ 20,643 WELLHEAD= 3250 CIRC PRES=6100 PUMP RATE= 3.5 bpm RETURN RATE= 3.5 bpm

EP WELLS DAILY OPERATIONS REPORT

Report 32

05/11/2018

Well UNIVERSITY 19 PW UNIT 1804H
Wellbore UNIVERSITY 19 PW UNIT 1804H ST01

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								MILL TIME = 5 MIN RETURN DESCRIPTION= sand light STALLS= DUMP PLUG CATCHER= RIH SPEED= 3 FPM TRIP TIME BETWEEN PLUGS= 51 min FR= .15 gal per 10 bbls. POP drip at .2 Beka Lube at 5 gal /10 bbls, x2 5 bbl slugs hour
8:49	1.92	COIL	MIL			0		Tag # 51 @ 20,827' WELLHEAD= 3250 CIRC PRES=6100 PUMP RATE= 3.5 bpm RETURN RATE= 3.5 bpm MILL TIME = 5 MIN RETURN DESCRIPTION= sand light STALLS= DUMP PLUG CATCHER= dump catcher RIH SPEED= 3 FPM TRIP TIME BETWEEN PLUGS= 61 min FR= .15 gal per 10 bbls. POP drip at .2 Beka Lube at 5 gal /10 bbls, x2 5 bbl slugs hour 09:20 PAUSE: Swop out pump, Make a plan reveiw 7 step stragety with personnel involved with job task everyone understands roles and responsibilities. pump tie in and tested to 8000 psi good test 10:00 Pump rate at 3.75 bpm continue in hole to next plug
10:44	1.72	COIL	MIL			0		Tag # 52 @ 20,995' WELLHEAD= 3250 CIRC PRES=6600 PUMP RATE= 3.75 bpm RETURN RATE= 3.75 bpm MILL TIME = 5 MIN RETURN DESCRIPTION= sand light STALLS= DUMP PLUG CATCHER= dump catcher RIH SPEED= 3 FPM TRIP TIME BETWEEN PLUGS= 79 min FR= .15 gal per 10 bbls. POP drip at .2 Beka Lube at 5 gal /10 bbls, x2 5 bbl slugs hour
12:27	1.57	COIL	MIL			0		Tag # 53 @ 21181' WELLHEAD= 3250 CIRC PRES=6400 PUMP RATE= 3.75 bpm RETURN RATE= 3.75 bpm MILL TIME = 5 MIN RETURN DESCRIPTION= sand light STALLS= DUMP PLUG CATCHER= RIH SPEED= 3 FPM TRIP TIME BETWEEN PLUGS= 96 min FR= .15 gal per 10 bbls. POP drip at .2 Beka Lube at 5 gal /10 bbls, x2 5 bbl slugs hour
14:01	1.77	COIL	MIL			0		Tag # 54 @ 21355' WELLHEAD= 3250 CIRC PRES=6600 PUMP RATE= 3.75 bpm RETURN RATE= 3.75 bpm MILL TIME = 9 MIN RETURN DESCRIPTION= sand light STALLS= DUMP PLUG CATCHER= RIH SPEED= 2.9 FPM

EP WELLS DAILY OPERATIONS REPORT

Report 32

05/11/2018

Well UNIVERSITY 19 PW UNIT 1804H
Wellbore UNIVERSITY 19 PW UNIT 1804H ST01

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								TRIP TIME BETWEEN PLUGS= 89 min FR= .15 gal per 10 bbls. POP drip at .2 Beka Lube at 5 gal /10 bbls, x2 5 bbl slugs hour
15:47	1.95	COIL	MIL			0		Tag # 55 @ 21541' WELLHEAD= 3250 CIRC PRES=6500 PUMP RATE= 3.75 bpm RETURN RATE= 3.75 bpm MILL TIME = 10 MIN RETURN DESCRIPTION= sand light STALLS= DUMP PLUG CATCHER= RIH SPEED= 2.5 FPM TRIP TIME BETWEEN PLUGS= 106 min FR= .15 gal per 10 bbls. POP drip at .2 Beka Lube at 5 gal /10 bbls, x2 5 bbl slugs hour
17:44	1.87	COIL	MIL			0		Tag # 56 @ 21726' WELLHEAD= 3250 CIRC PRES=6500 PUMP RATE= 3.75 bpm RETURN RATE= 3.75 bpm MILL TIME = 10 MIN RETURN DESCRIPTION= sand light STALLS= DUMP PLUG CATCHER= RIH SPEED= 2.6 FPM TRIP TIME BETWEEN PLUGS= 117 min FR= .15 gal per 10 bbls. POP drip at .2 Beka Lube at 5 gal /10 bbls, x2 5 bbl slugs hour
19:36	1.82	COIL	MIL			0		Tag # 57 @ 21909' WELLHEAD= 3250 CIRC PRES=6300 PUMP RATE= 3.75 bpm RETURN RATE= 3.75 bpm MILL TIME = 7 MIN RETURN DESCRIPTION= medium sand / light gas STALLS= DUMP PLUG CATCHER= RIH SPEED= 2.5 FPM TRIP TIME BETWEEN PLUGS= 112 min FR= .15 gal per 10 bbls. POP drip at .2 Beka Lube at 5 gal /10 bbls, x2 5 bbl slugs hour
21:25	2.30	COIL	MIL			0		Tag # 58 @ 22078' WELLHEAD= 3250 CIRC PRES=6400 PUMP RATE= 3.75 bpm RETURN RATE= 3.75 bpm MILL TIME = 7 MIN RETURN DESCRIPTION= medium sand / light gas STALLS= DUMP PLUG CATCHER= 22:15 dump x1 RIH SPEED= 2.1 FPM TRIP TIME BETWEEN PLUGS= 109 min FR= .15 gal per 10 bbls. POP drip at .2 Beka Lube at 5 gal /10 bbls, x2 5 bbl slugs hour
23:43	0.28	COIL	MIL			0		23:13 Send 10/10/10 sweep Tag # 59 @ 22259' WELLHEAD= 3250 CIRC PRES=6300 PUMP RATE= 3.75 bpm RETURN RATE= 3.75 bpm MILL TIME = 4 MIN RETURN DESCRIPTION= medium sand / light gas STALLS= DUMP PLUG CATCHER= RIH SPEED= 2.5 FPM

EP WELLS DAILY OPERATIONS REPORT

Report 32

05/11/2018

Well UNIVERSITY 19 PW UNIT 1804H
Wellbore UNIVERSITY 19 PW UNIT 1804H ST01

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								TRIP TIME BETWEEN PLUGS= 112 min FR= .15 gal per 10 bbls. POP drip at .2 Beka Lube at 6 gal /10 bbls, x2 5 bbl slugs hour RIH to 22,270' CTM, sweep exiting bit (approximate time up at 01:53) 23:54 POOH from 22,270' / PU weight 60K (2,700 hyd psi / 3.5 in 3.5 out / 6,400 CP
Total	24.00							

06.00 Update

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Description
0:00	6.00	COIL	MIL			0	01:35 POOH from 19,000' at 38 ft/m, POOH weight 56K / 3.75 in 3.75 out / 6,200 CP 04:10 At 13,300' pumped 10/10/10, continue POOH / 3.75 in 3.75 out / 6,400 CP NOTE Bottoms up at 06:09

EP WELLS DAILY OPERATIONS REPORT

Report 33

05/12/2018

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 19 PW UNIT 1804H
Wellbore	UNIVERSITY 19 PW UNIT 1804H ST01
WBS No/API No	30274449 / 4230133264.01

Event Summary

Event Type	Completion only	Event Start Date	12/06/2017	Days on Location	33.00
Objective	Install Completion	Original Spud Date	08/10/2017		
Est. Days	65.00	Contractor	PERMIAN WELL SVC		
Work Unit	PERMIAN COMPLETIONS	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	Eric Brunet	Measured Depth(ft)	
Engineer	Lindy Byerly	TVD(ft)	
Other Supervisor	Mike Reber	24 Hr Progress(ft)	
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,788.55 / 2,762.90	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	5,749,805/4,979,691	Current MW / BH EMW(ppg)	/
Actual divided by AFE	1.15	LOT/FIT EMW(ppg)	
Daily Cost	98,222	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:							

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	32

Operations Summary

24 Hour Summary
Bump up, shut well in, bleed, line valves up, pump 420 bbls down casing to clear liner top, RD CT
Update Since Report Time
POOH
24 Hour Forecast
MIRU WL, prep for packer work

EP WELLS DAILY OPERATIONS REPORT

Report 33

05/12/2018

Well UNIVERSITY 19 PW UNIT 1804H
Wellbore UNIVERSITY 19 PW UNIT 1804H ST01

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	7.20	COIL	MIL			0		01:35 POOH from 19,000' at 38 ft/m, POOH weight 56K / 3.75 in 3.75 out / 6,200 CP 04:10 At 13,300' pumped 10/10/10, continue POOH / 3.75 in 3.75 out / 6,400 CP NOTE Bottoms up at 06:09
7:12	1.13	COIL	MIL			0		Bumped up with tools, shut in manual swab valv Wellhead Pressure 3400. Shut in 3" line and walked lines to verify valve alignment before pumping into well through 2" line. Equilaized and opened to well through 2" wings and began pumping 420 bbl flush. Pumping at rate of 7 bpm and 3750 psi.
8:20	0.25	COIL	RGO			0		Pre-job meeting for blow-drying the coil
8:35	0.93	COIL	RGO			0		Bled off 2" and 3" lines. Break lubricator. Lay down tools. Stab back on lubricator. Rig up Nitrogen and walk lines to verify valve alignment.
9:31		COIL	RGO			0		Blow down reel with nitrogen. RDMO.
Total	9.52							

EP WELLS DAILY OPERATIONS REPORT

Report 34

05/13/2018

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 19 PW UNIT 1804H
Wellbore	UNIVERSITY 19 PW UNIT 1804H
WBS No/API No	30274449 / 4230133264.00

Event Summary

Event Type	Completion only	Event Start Date	12/06/2017	Days on Location	34.00
Objective	Install Completion	Original Spud Date	08/10/2017		
Est. Days	65.00	Contractor	PERMIAN WELL SVC		
Work Unit	PERMIAN COMPLETIONS	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	Tony Steele	Measured Depth(ft)	
Engineer	Lindy Byerly	TVD(ft)	
Other Supervisor	Jason Stead	24 Hr Progress(ft)	
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,788.55 / 2,762.90	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	5,801,321/4,979,691	Current MW / BH EMW(ppg)	/
Actual divided by AFE	1.16	LOT/FIT EMW(ppg)	
Daily Cost	39,499	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:							
No incidents to report.							
Total man hours: 340							

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	33

Operations Summary

24 Hour Summary
MIRU wireline for GR run & set packer. Run GR to liner top, 10,986'. POOH. MU packer BHA, RIH with packer and set. (Top packer 10,952.35'). POOH. RD Fesco wireline, lubricator & BOPs. ND FMC frac valve.
Update Since Report Time
Other pad ops. (MIRU WOR on 1803H, install tubing.)
24 Hour Forecast

EP WELLS DAILY OPERATIONS REPORT

Report 34

05/13/2018

Well UNIVERSITY 19 PW UNIT 1804H
Wellbore UNIVERSITY 19 PW UNIT 1804H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	6.00	COIL	RGO			0		Wait on other pad operations
6:00	1.50	COIL	RGO			0		move in Rig up wireline for gauge ring and packer runs, Instal BOP's and pick up lubricator, make up 6.00" gauge ring and pressure test to
7:30	1.50	COIL	RGO			0		stabbed onto well, test truck will not run, waiting on replacement pump to test and make gauge ring run
9:00	0.67	COIL	RGO			0		spot new test unit, conduct pressure test and open well, 3350 on the well
9:40	2.50	COIL	RGO			0		RIH to liner top with 6.00" gauge ring, tag liner top at 10,986' un corrected depth, POOH with gauge ring, bump up bleed off.
12:10	1.33	COIL	RGO			0		LD gauge ring and make up packer element. stab onto well and equalize pressure to 3400 PSI
13:30	2.75	COIL	RGO			0		<p>RIH with packer element 90'/min +/- Tie into iner top with packer and set packer element at 10,955' bleed off well pressure from 3500 to 0 psi 6 bbls total returned.</p> <p>1.69 10,950.66' TOP OF ON-OFF TOOL GUDGEON OD: 3.100 ID: 2.313 2.313 X PROFILE IN ON/OFF GUDGEON 2.65 10,952.35 ' TOP OF PACKER</p> <p>TOP OF PACKER (2.65' FT. FROM TOP OF PACKER TO CENTER ELEMENT) 2.313 X PROFILE IN ON/OFF GUDGEON</p> <p>10,955 CENTER ELEMENT ADAPTER KIT MANDREL IS 2.62"L, 3.67" OD ADAPTER KIT SLEEVE IS 4.67"L, 5.75" OD NOTE THESE ARE RETRIEVED ON W/L RUN AFTER PACKER IS SET 4.50 EQUIPMENT NUMBER: 101478074</p> <p>TOP OF PACKER AT: 10,952.35' FT. NOTE: AS PER WIRELINE DEPTH. CCL OFFSET: 13.5'</p> <p>HES LANDING NIPPLE PN:100007448 PROFILE 2.313 "X" WITH 2.205" "NO-GO" XN NIPPLE 9,200 PSI SN #-4034312-07v , 10,971.11 Rupture disk @10,981.27 PN: 01.IXDA.278.8EBP--- BATCH #: 213561.10 WITH ENTRY GUIDE/---40 PINS--ACTUAL SHEAR ---7,122 PSI 10,983.18 END OF BHA--TOTAL LENGTH--32.52' FT. POOH</p>
16:15	2.75	COIL	RGO			0		POOH. RD Fesco wireline, lubricator & BOPs.
19:00	2.00	COIL	RGO			0		RD FMC frac valves. Rig out crane.
21:00	3.00	COIL	RGO			0		Other pad ops. MIRU WOR on 1803H.
Total	24.00							

06.00 Update

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Description
0:00	12.00	WOR	RGU			0	Other pad ops. MIRU WOR on 1803H.

EP WELLS DAILY OPERATIONS REPORT

Report 35

05/14/2018

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 19 PW UNIT 1804H
Wellbore	UNIVERSITY 19 PW UNIT 1804H ST01
WBS No/API No	30274449 / 4230133264.01

Event Summary

Event Type	Completion only	Event Start Date	12/06/2017	Days on Location	35.00
Objective	Install Completion	Original Spud Date	08/10/2017		
Est. Days	65.00	Contractor	PERMIAN WELL SVC		
Work Unit	PERMIAN COMPLETIONS	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	Tony Steele	Measured Depth(ft)	
Engineer	Lindy Byerly	TVD(ft)	
Other Supervisor	Jason Stead	24 Hr Progress(ft)	
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,788.55 / 2,762.90	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	5,798,391/4,979,691	Current MW / BH EMW(ppg)	/
Actual divided by AFE	1.16	LOT/FIT EMW(ppg)	
Daily Cost	0	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:							

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	34

Operations Summary

24 Hour Summary
Other Pad ops
Update Since Report Time
24 Hour Forecast

EP WELLS DAILY OPERATIONS REPORT

Report 35

05/14/2018

Well UNIVERSITY 19 PW UNIT 1804H
Wellbore UNIVERSITY 19 PW UNIT 1804H ST01

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	23.50	WOR	RGU			0		Other pad ops. MIRU WOR on 1803H.
23:30	0.50	WOR	RGU			0		Swing BOPS from 1803H to 1804H
Total	24.00							

06.00 Update

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Description
0:00	1.50	WOR	RGU			0	Other pad ops. RD WOR on 1803H. Pressure test BOPs. 500 psi low, 8000 psi high - 5 min each.
1:30	3.25	WOR	RGU			0	MIRU WOR. Spot catwalk & pipe racks.
4:45	0.75	WOR	RGU			0	Load & tally pipe.

EP WELLS DAILY OPERATIONS REPORT

Report 36

05/15/2018

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 19 PW UNIT 1804H
Wellbore	UNIVERSITY 19 PW UNIT 1804H ST01
WBS No/API No	30274449 / 4230133264.01

Event Summary

Event Type	Completion only	Event Start Date	12/06/2017	Days on Location	36.00
Objective	Install Completion	Original Spud Date	08/10/2017		
Est. Days	65.00	Contractor	PERMIAN WELL SVC		
Work Unit	PERMIAN COMPLETIONS	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	Tony Steele	Measured Depth(ft)	
Engineer	Lindy Byerly	TVD(ft)	
Other Supervisor	Jason Stead	24 Hr Progress(ft)	
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,788.55 / 2,762.90	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	5,949,652/4,979,691	Current MW / BH EMW(ppg)	/
Actual divided by AFE	1.19	LOT/FIT EMW(ppg)	
Daily Cost	149,932	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)	
<div>Safety Comments:</div> <div>No incidents to report.</div> <div>Total man hours 260 hrs</div>							

HSE Drills

Drills/Tests	Date	Days Since Last		
Last Derrick Inspection	05/15/2018	0	JSA's/Toolbox Talks	35
Last BOP function test	05/15/2018	0	Days Since Last Drill	
Last BOP Test	05/29/2018			
Next BOP Test				

Operations Summary

24 Hour Summary
MIRU WOR. Spot catwalk & pipe racks. Load & tally pipe. RIH with tubing as per tally. Pump packer fluid. Land hanger, install BPV. RD floor & bird bath.
Update Since Report Time
RD WOR. Install production tree & test. Test tubing, burst disc. Secure well. Prep for move to location
24 Hour Forecast
Handover to production.

EP WELLS DAILY OPERATIONS REPORT

Report 36

05/15/2018

Well UNIVERSITY 19 PW UNIT 1804H
Wellbore UNIVERSITY 19 PW UNIT 1804H ST01

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	1.50	WOR	RGU			0		Other pad ops. RD WOR on 1803H.
1:30	3.25	WOR	RGU			0		Pressure test BOPs. 500 psi low, 8000 psi high - 5 min each.
4:45	1.25	WOR	PFT			0		MIRU WOR. Spot catwalk & pipe racks.
6:00	2.00	WOR	PFT			0		Load & tally pipe.
8:00	9.50	WOR	TBG			0		Finish pipe tally and wait on stairs for rig floor to arrive on location.
								Make up ON/OFF TOOL and RIH with tubing. Ran 344 joints 2.7/8" tubing.
								Tubing summary Qty Length Length
								Top depth Btm Depth
								Hanger w/ pup 1 4.47 4.47 0.00 4.47
								2-7/8" 6.5# L80 1 31.74 31.74 4.47 36.21
								2-7/8" 6.5# L80 1 8.11 8.11 36.21 44.32
								2-7/8" 6.5# L80 Pup Jt 1 4.05 4.05 44.32 48.37
								2-7/8" 6.5# L80 Pup Jt 1 1.92 1.92 48.37 50.29
								2-7/8" 6.5# L80 341 31.67 10798.09 50.29 10,848.38
								2-7/8" 6.5# L80 Pup Jt 1 9.88 9.88 10,848.38 10,858.26
								2-7/8" 6.5# L80 2 31.72 63.43 10,858.26 10,921.69
								ON-OFF TOOL 1 1.74 1.74 10,921.69 10,923.43
								Packer 1 7.15 7.15 10,923.43 10,930.58
								2-7/8" 6.5# L80 Pup Jt 1 10.21 10.21 10,930.58 10,940.79
								2.313 "X" with 2.205" XN 1 1.40 1.40 10,940.79 10,942.19
								Pup joint 1 10.16 10.16 10,942.19 10,952.35
								Mag burst disk / WEG 1 1.91 1.91 10,952.35 10,954.26
17:30	2.50	WOR	SOH			0		Space out
20:00	3.00	WOR	SOH			0		Pump packer fluid. 439bbls, 3 bbl/min, circ pressure 600 psi.
23:00	0.50	WOR	SOH			0		PU hanger & land. Install BPV.
								PU 68000 lbs
								SO 58000 lbs
								N 60000 lbs
								OP 85000 lbs
								10 pts compression.
23:30	0.50	WOR	RGO			0		RD floor & bird bath.
Total	24.00							

06.00 Update

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Description
0:00	0.50	WOR	RGO			0	Crew lunch.
0:30	1.50	WOR	RGO			0	RD floor & bird bath.
2:00	0.50	WOR	NDB			0	ND BOPs & LMV
2:30	1.00	WOR	PTW			0	NU production tree. Test void 10000 psi. Removed BPV & install TWCV. Pressure test tree 500 psi low, 10000 psi high for 5 min each. Bleed off pressure, remove TWCV.
3:30	0.25	WOR	PTT			0	Pressure test tubing 5000 psi for 10 min. Burst disc at 7900 psi. SITP 3700psi, SICP 0 psi. Secure well. Close all valves.
3:45	2.25	WOR	RGO			0	RD WOR

EP WELLS DAILY OPERATIONS REPORT

Report 37

05/16/2018

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 19 PW UNIT 1804H
Wellbore	UNIVERSITY 19 PW UNIT 1804H ST01
WBS No/API No	30274449 / 4230133264.01

Event Summary

Event Type	Completion only	Event Start Date	12/06/2017	Days on Location	37.00
Objective	Install Completion	Original Spud Date	08/10/2017		
Est. Days	65.00	Contractor	PERMIAN WELL SVC		
Work Unit	PERMIAN COMPLETIONS	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	Tony Steele	Measured Depth(ft)	
Engineer	Lindy Byerly	TVD(ft)	
Other Supervisor	Jason Stead	24 Hr Progress(ft)	
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,788.55 / 2,762.90	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	5,968,311/4,979,691	Current MW / BH EMW(ppg)	/
Actual divided by AFE	1.20	LOT/FIT EMW(ppg)	
Daily Cost	18,660	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:							

HSE Drills

Drills/Tests	Date	Days Since Last		
Last Derrick Inspection	05/15/2018	1	JSA's/Toolbox Talks	36
Last BOP function test	05/15/2018	1	Days Since Last Drill	
Last BOP Test	05/29/2018			
Next BOP Test				

Operations Summary

24 Hour Summary
RD WOR. ND BOPs, NU Prod tree & test. Pressure test tubing 5000psi for 10 min, burst disc at 7900psi. SITP 3700psi, SICP 0psi. Secure well. All valves closed.
Update Since Report Time
Handover to production
24 Hour Forecast
Handover to production

EP WELLS DAILY OPERATIONS REPORT

Report 37

05/16/2018

Well UNIVERSITY 19 PW UNIT 1804H
 Wellbore UNIVERSITY 19 PW UNIT 1804H ST01

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	0.50	WOR	RGO			0		Crew lunch.
0:30	1.50	WOR	RGO			0		RD floor & bird bath.
2:00	0.50	WOR	NDB			0		ND BOPs & LMV
2:30	1.00	WOR	PTW			0		NU production tree. Test void 10000 psi. Removed BPV & install TWCV. Pressure test tree 500 psi low, 10000 psi high for 5 min each. Bleed off pressure, remove TWCV.
3:30	0.25	WOR	PTT			0		Pressure test tubing 5000 psi for 10 min. Burst disc at 7900 psi. SITP 3700psi, SICP 0 psi. Secure well. Close all valves.
3:45	2.25	WOR	RGO			0		RD WOR
Total	6.00							