EP WELLS DAILY OPERATIONS REPORT 10/09/2017 Report 25 **PERMIAN** Company Well Type Development UNIVERSITY 19 H 0908H Well Wellbore UNIVERSITY 19 H 0908H WBS No/API No 30266564 / 4230133234.00 **Event Summary Event Type** Completion only **Event Start Date** 09/03/2017 Days on Location 25.00 Objective Install Completion Original Spud Date 05/08/2017 Est. Days 31.00 Contractor PERMIAN WELL SVC Work Unit PERMIAN COMPLETIONS Days To Release Rig Phone/FAX No. **Well Status** Supervisor T GREGA Measured Depth(ft) Engineer TVD(ft) Alex Villegas Other Supervisor STEELE, MORGAN BRETT 24 Hr Progress(ft) Depth Ref/Grd Elev/Water Depth(ft) DFE: 2,792.80 / 2,766.80 Hole size(in) THF Datum Daily NPT(hr/%) 12.27/51.11 Last Casing MD Days Ahd(-) Bhnd(+)(50/50) Next Casing MD Actual cost to date/AFE Current MW / BH EMW(ppg) 1,641,048/4,135,334.00 LOT/FIT EMW(ppg) Actual divided by AFE 0.40 Lithology **Daily Cost** 149,648 Formation/MD Top **HSE Summary** Last Incident Date Last Incident Date KPI's Days Days LWC PSI TRCF **RWC** NII **LWCF** HPI Safety Cards - Safe MTC **GOAL ZERO DAYS** FAC Safety Card - Unsafe **PS BARRIER EVENT** Last casing pressure test SSE% PS barrier bowtie review Last casing pressure(psi) Safety Comments: **HSE Drills** Drills/Tests Date Days Since Last JSA's/Toolbox Talks Last Derrick Inspection Days Since Last Drill 24 Last BOP function test Last BOP Test **Next BOP Test Operations Summary** 24 Hour Summary FRAC STGE 19,20

PERF STG 20

24 Hour Forecast

Update Since Report Time

CONTINUE FRAC OPERATIONS

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Report 25

10/09/2017

Well UNIVERSITY 19 H 0908H Wellbore UNIVERSITY 19 H 0908H

Time Summary									
Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description	
0:00	1.05	FRAC	WLF			0		WAIT ON OTHER PAD OPERATIONS	
1:03	0.45	FRAC	WLF			1		***NPT KEAN FRAC GENERATOR SHOWED UP TRIED TO HOOK IT UP WAS NOT WORKING PROPERLY USED GENERATOR IN VAN AGAIN	
1:30	1.58	FRAC	FRT			0		Stage 19 Summary Interval 15758 - 15890 Open Well Pressure 4,206 psi Max Treating Pressure 9,534 psi Max Slurry Rate 60.2 bpm Average Treating Pressure 8,951 psi Average Slurry Rate 51.6 bpm Breakdown Pressure 7,380 psi Breakdown Rate 9.1 bpm Breakdown Volume 252 gal Avg HHP 11,320 hp Final ISIP 5,420 psi Frac Gradient 0.902 psi/ft Pad Volume 1,848 gal Main Body Volume 176,414 gal Flush Volume 26,712 gal 100 M AZ Sand Pumped 0 lbs 100 M Brown Sand Pumped 0 lbs 100 M Brown Sand Pumped 0 lbs 100 M Sand Pumped 148,460 lbs Proppant in Formation 418,460 lbs Avg Proppant Concentration 2.96 lb/gal Load to Recover 4,290 bbls Load to Recover Wo Acid 4,282 bbls 15% HCL Spearhead 350 gal Slickwater Fluid Pumped 4,112 bbls 20# Linear Fluid Pumped 80 bbls 20# Crosslink Fluid Pumped 0 bbls pump down volume 90 bbls pump down rate 10.0 bpm Max pump down pressure 5,906 psi Fluid Temp 72.0 ?F Total Pump Time 1:34 hr:min Pumps Lost During Job Treatment Start Time 1:31 0:00 0:00 Treatment Start Time 1:30 0:00 0:00	
3:05	0.32	FRAC	FWL			0		WAIT ON OTHER PAD OPERATIONS	
3:24	0.38	FRAC	FWL			0		324 Handover from frac to WL. 328 Pick up lubricator. Remove night cap. PU tools. 331 Stab lubricator. Fill lubricator. 338 PT lubricator to 8000psi 347 Open well with 5050psi.	
3:47	1.93	FRAC	WLT			0		436 "Stage #20 Plug and Perf RIH with (4) 1' Keane guns: 2.75"" OD HSC at 6SPF with 60* phased perforating guns and Downhole Technology Boss Hog composite ball-drop frac plug. Tie into liner top @11016". Pump down as follows: 3bpm @ psi11430 6bpm @ psi11510 9bpm @ psi11600 bpm @ psi bpm @ psi	

EP WELLS DAILY OPERATIONS REPORT

UNIVERSITY 19 H 0908H

Well UNIVERSITY 19 H 0908H Wellbore

Report 25

10/09/2017

	Time Summary										
Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description			
								9bpm @ 7214psi Set plug @ 15735ft Perforate as follows: 15714' - 15715' 15667' - 15668'			
								15626' - 15627' 15582' - 15583' Stabilized pressure after perf: 6300psi Pump down volume: 87bbl" 441 POOH			
5:43	0.12	FRAC	WLF			0		543 Shut in well with 5000psi. Bleed off. 548 Break lubricator. All shots fired. Drop ball. MU night cap. LD tools and lub. Secure crown and wing valves. 550 Handover from WL to frac.			
5:50	4.07	FRAC	WLF			0		WAIT ON OTHER PAD OPERATIONS			
9:54	1.63	FRAC	FRT			0		Stage 20 Summary University 19 H 0908H Interval 15582 - 15715 Open Well Pressure 5,270 psi Max Treating Pressure 9,296 psi Max Slurry Rate 59.4 bpm Average Treating Pressure 8,787 psi Average Slurry Rate 52.0 bpm Breakdown Pressure 6,210 psi Breakdown Rate 8.0 bpm Breakdown Volume 42 gal Avg HHP 11,199 hp Final ISIP 5,359 psi Frac Gradient 0.897 psi/ft Pad Volume 187,782 gal Flush Volume 26,460 gal 100 M AZ Sand Pumped 0 lbs 100 M Brown Sand Pumped 145,260 lbs 100 M Sand Pumped 281,280 lbs Proppant in Formation 426,540 lbs Avg Proppant Concentration Max Proppant Concentration Load to Recover 4,558 bls Load to Recover 4,558 bls Load to Recover 4,558 bls Load to Recover Wo Acid 4,550 bbls 15% HCL Spearhead 336 gal Slickwater Fluid Pumped 4,383 bbls 20# Linear Fluid Pumped 50 bbls 20# Crosslink Fluid Pumped 60 bbls 100 my fown volume 87 bbls pump down volume 87 bbls pump down rate 9.0 bpm Max pump down pressure 7,214 psi Fluid Femp 72.0 ?F Total Pump Time 1:38 hr:min Pumps Lost During Job 0 Treatment Start Time 9:54 0:00 0:00 Treatment End Time 11:32 0:00 1:38 Diverter Slurry bbls -Pumped sand in a 0.50 PPA -3.00 PPA ramp,3.00 PPA hold,3.50 and 4.00 PPA stepTwo 20# gel sweeps 40 bbls each were pumped prior to flushPumped one 350 gal shot of acidRan a ball in place plug.			
1:32	11.82	FRAC	FRT			1		****Safety stand down **** NPT KEANE WIRE LINE DROPPED			
23:21	0.37	FRAC	WLT			0		GUNS 2321 Handover from frac to wireline. Pick up lubricator. Remove night cap. PU tools. 2327 Stab lubricator. Fill lubricator. 2342 Pressure test lubricator to 8000 psi 2343 Open well with 4400 psi. RIH.			

EP WELLS DAILY OPERATIONS REPORT

Report 25

10/09/2017

Well UNIVERSITY 19 H 0908H Wellbore UNIVERSITY 19 H 0908H

	Time Summary												
Start	Hours	PH	OPN	Detail	Drilled	NPT	Rig	Description					
					Depth (ft)	level	Rate						
23:43	0.28	FRAC	WLT			0		RUN IN HOLE WITH WIRE LINE					
Total	24.00												

							5.00 Update
Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Description
0:00	3.25	FRAC	WLT			0	215 "Stage #21 Plug and Perf RIH with (4) 1' Keane guns: 2.75"" OD HSC at 6SPF with 60* phased perforating guns and Downhole Technology Boss Hog composite ball-drop frac plug. Tie into liner top @11016". Pump down as follows: 3bpm @ 4400psi11450 6bpm @ 4700psi11550 9bpm @ 5100psi11650 bpm @ psi bpm @ psi 9bpm @ 6707psi15565 Set plug @ 15562ft Perforate as follows: 15534' - 15535' 15494' - 15495' 15450' - 15451' 15406' - 15407' Stabilized pressure after perf: 5818psi Pump down volume: 82bbl" 222 POOH
3:15	0.23	FRAC	WLF			0	 315 Shut in well with 4800psi. Bleed off. 323 Break lubricator. All shots fired. Drop ball. MU night cap. LD tools and lub. Secure crown and wing valves. 329 Handover from WL to frac.
3:29		FRAC	WLF			1	***KEANE FRAC WAIT ON GENERATOR FOR FRAC VAN

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			
10/09/2017 01:03	KEANE FRAC LP	Stimulation		WLF	EN	Frac - Other Equipment	0.45	0.45	1	OPEN			
Description: GENERAT PROPERLY USED GENERATOR IN		Title: WAITING ON FRAC											
10/09/2017 11:32	KEANE FRAC LP	Wait On Incident/Ac cident	EN		3.94	11.82	1	OPEN					
Description: WL had U Operation on location	PO with dropped obje	ct on pad Safe	Title: Safety Standdow	'n									
		·	Tota	4.39	12.27		·						