

**EP WELLS DAILY OPERATIONS REPORT**

Report 41

08/16/2017

Company PERMIAN  
 Well Type Development  
 Well UNIVERSITY 19 PW UNIT 1504H  
 Wellbore UNIVERSITY 19 PW UNIT 1504H  
 WBS No/API No 30265014 / 4230133171.00

**Event Summary**

Event Type	Completion only	Event Start Date	04/28/2017	Days on Location	40.00
Objective	Install Completion	Original Spud Date	02/02/2017		
Est. Days	25.00	Contractor	PERMIAN WELL SVC		
Work Unit	PERMIAN COMPLETIONS	Days To Release			
		Rig Phone/FAX No.			

**Well Status**

Supervisor	Nick Morrison	Measured Depth(ft)	
Engineer	Bobby Ramos	TVD(ft)	
Other Supervisor	Ben Dickinson	24 Hr Progress(ft)	
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,761.75 / 2,736.10	Hole size(in)	
THF Datum			
Daily NPT(hr/%)	5.50/22.91	Last Casing MD	
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	
Actual cost to date/AFE	2,149,940/4,757,442.00	Current MW / BH EMW(ppg)	/
Actual divided by AFE	0.45	LOT/FIT EMW(ppg)	
Daily Cost	21,357	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 <b>GOAL ZERO DAYS</b> <b>PS BARRIER EVENT</b> <b>PS barrier bowtie review</b>			TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)
Safety Comments:						

**HSE Drills**

Drills/Tests	Date	Days Since Last	JSA's/Toolbox Talks Days Since Last Drill
Last Derrick Inspection Last BOP function test Last BOP Test Next BOP Test			39

**Operations Summary**

24 Hour Summary
spot equipment
Update Since Report Time
Rig up
24 Hour Forecast
pressure test start frac operations

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Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	2.50	FRAC	RIF			0		RU up Keane frac/Wireline. Install oil state frac wellhead and support equipment
2:30	0.75	FRAC	RIF			0		FUNCTION TEST 7" AND 3" HYDRAULIC VALVES AND ZIPPER MANIFOLD.
3:15	3.25	FRAC	RIF			0		CONTINUE TO RIG UP STAND PIPES AND RESTRAIN IRON
6:30	0.50	FRAC	SAF			0		Safety meeting with new crew coming to location
7:00	11.50	FRAC	RIF			0		Continue to rig up frac equipment risers and restraints. Spot blender and chemicals. rig up WL flanges and WL unit. function test WL BOP's. finish rigging up Sierra spot fuel trucks and set up no go zones. Walk th lines with P&ID. prime up and flush all trees and valves.
18:30	0.50	FRAC	SAF			1		Night Shift PJSM: Review JSA, HazID and shift objectives. Discuss UnCAAP safe work strategy.
19:00	0.17	FRAC	SAF			1		Crew change and handover.
19:10	1.92	FRAC	RIF			1		Keane Frac prime up trucks and work on pressure transducers.
21:05	0.08	FRAC	SAF			1		SAFETY PAUSE: Discuss pressure test of frac stacks.
21:10	0.08	FRAC	RIF			1		Line up Frac to pressure test against zipper manifold. Low 5000 psi, High 9600 psi. TEST FAIL Find leak on missile.
21:15	0.25	FRAC	RIF			1		Change gasket on iron. Retest to zipper manifold. Low 5000 psi, High 9600 psi. TEST GOOD.
21:30	0.33	FRAC	RIF			1		Open up manifold to test all 3 stacks to UMV on 1503, 1504 and 1505 Start pressure test Low 5000 psi - Find leak on zipper down joint.
21:50	0.25	FRAC	SAF			1		SAFETY PAUSE: Review 12 qfsl with Keane Frac before chaning gasket on down joint.
22:05	0.23	FRAC	RIF			1		Hammer up loose down joint. Decide not to swap gasket as hammer union was loose.
22:19	0.10	FRAC	RIF			1		Resume pressure test on all 3 frac stacks. Leak on down joint again. Decide to swap out gasket.
22:25	1.03	FRAC	RIF			1		Swap out gasket on down joint.
23:27	0.38	FRAC	RIF			1		Attmpt to pressure test again to UMV on all 3 frac stacks 1503, 1504 and 1505. Low 400 psi, High 9600 psi. TEST GOOD.
23:50	0.17	FRAC	SAF			1		SAFETY PAUSE: Discuss flush operations on 1504 well.
<b>Total</b>	<b>24.00</b>							

06.00 Update

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Description
0:00	0.17	FRAC	RIF			1	Valve team line up valves for injection test. Readings on wells as follows: 1503 = 2200 psi. 1504 = 3700 psi. 1505 = 3500 psi.
0:10	0.25	FRAC	RIF			1	Oil states have issues with accumulator engine for zipper manifold. Drain fuel water seperator and fuel up/prime fuel system. Problem fixed, fire up and line out valves on zipper manifold.
0:25	0.40	FRAC	FRP			1	Valve team open LMV on 1504 and check vavle alignment
0:49	0.27	FRAC	FRP			1	Keane frac equalize pressure to 3700 psi.
1:05	0.42	FRAC	FRP			1	Valve team open UMV on 1504 Begin injection test. Pump away 827 bbls. Shut down.
1:30	0.13	FRAC	FRP			1	Valve team shut in UMV. End injection. SAFETY PAUSE: Keane WL and Crane discuss picking up WL and UNCAAP Safe Work Strategy.

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06.00 Update

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Description
1:38	0.12	FRAC	WLT			1	WL PU lube and stab BOPS Very slow getting picked up.
1:45	0.50	FRAC	WLT			1	Valve team line out valves for pumpdown.
2:15	0.17	FRAC	RIF			1	***KEANE NPT*** Keane having issues with pumps. 1 of 2 pump down pumps has bad hydraulic fan motor Frac pump 5 has bad oil hose Frac pump 13 has bad starter Frac pump 9 ECU/fueling issues  Decide to RD good pump down pump and move to frac fleet. Will stack frac on the 1504 until new pumps arrive on location.
2:25	0.37	FRAC	WLT			1	Keane WL having issues reading line tension due to computer troubles.
2:47	0.22	FRAC	WLT			1	Restart computers and change cables, able to read line tension again. Swing over and stab BOPS.
3:00	0.08	FRAC	WLT			1	Function TEST WL BOPS Upper rams open - close - open Middle rams open - close - open Lower rams open - close - open TEST GOOD
3:05	0.42	FRAC	WLT			1	WL cont. picking up tools and getting set up. Frac wrap up rigging over pump down pump to frac line.
3:30	0.50	FRAC	WLT			1	WL PU new guns and plug. Swing over and stab 1504. Frac line up valves to pressure test to zipper manifold.
4:00	0.42	FRAC	FRP			1	***KEANE FRAC NPT leaks during pressure test*** Begin pressure test, have leaks. Need to swap o ring on frac iron coming off missile. Swap out o ring - tested good.