

EP WELLS DAILY OPERATIONS REPORT

Report 20

06/07/2017

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 19 PW UNIT 1504H
Wellbore	UNIVERSITY 19 PW UNIT 1504H ST01
WBS No/API No	30265014 / 4230133171.01

Event Summary

Event Type	Completion only	Event Start Date	04/28/2017	Days on Location	19.00
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	Tina Grega / Casey Gregersen	Measured Depth(ft)	
Engineer	Justin Midgley	TVD(ft)	
Other Supervisor	Tommy Hurdle	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/%)	24.00/100.00	Last Casing MD	
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	
Actual cost to date/AFE	909,119/4,757,442.00	Current MW / BH EMW(ppg)	/
Actual divided by AFE	0.19	LOT/FIT EMW(ppg)	
Daily Cost	70,578	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)	6

Safety Comments:

Total People - 97
Total Hours Worked - 1098
Total Hours driven - 196

Gaol Zero Day 13

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
Fishing Ops
Update Since Report Time
24 Hour Forecast
Continue Frac Ops

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Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	1.33	COIL	NOA			1		***NPT LIGHTNING IN THE AREA***
1:20	0.17	COIL	SAF			1		***END NPT LIGHTNING*** Held TBT and discussed next steps in operations.
1:30	1.75	COIL	CTB			1		Pickup Injector & Lube. Cut off 15 feet of tubing and installed new demple CT connector. Pull test to 40k - Test Good. Fill CT with 90 bbl fresh water. Install check valve and pressure test connector to 3500 psi - Test Good. Bleed off pressure to zero.
3:15	0.75	COIL	CTB			1		P/U and M/U TTS BHA to CT connector. OSR Strapped BHA to confirm length. Torqued each connection to 23,000 lbs. Function test BHA. 1 bpm @ 800 psi, 2 bpm @ 900 psi, 3 bpm @ 1300 psi. Final pressure at 3 bpm = 2400 psi. TTS BHA: Dimple connector 0.54' - OD 3.00" Dual Back Pressure Valve 1.41' - OD 2.88" Hailey Jar 3.83' - OD 2.88" Hydraulic Dissconnect 2.23' - OD 2.88" XRV 2.23' - OD 2.88" Ported Sub 0.83' - OD 2.88 Ported Sub 0.83' - OD 2.88 Titan Ultra Short Fishing Motor 5.67' - OD 2.88" Rotary Sub 0.35' - OD 2.88' Top Sub w/ 3' extension 3.81' - OD 3.75" Bowl w/ 2.75" grapple 1.13' - OD 3.75" Cutlip Guide for Overshot 0.61' - OD 3.75" Total length 23.47'
4:00	0.83	COIL	CTB			1		P/U injector and lubricator. Stab onto the well and torque up connection.
4:50	0.70	COIL	BOP			1		Align valves and break circulation. Shut in at flowback manifold and pressure test low 500 psi for 5 minute and high 9000 psi for 10 minutes. Bleed down pressure to 4500 psi to equalize.
5:32	5.27	COIL	CTR			1		Open well @ 4050 psi. RIH @ 50 ft/min pumping fresh water @ 0.6 bpm. Started FR at 0.13 and beads at 0.25 gpm. Increased to RIH speed to 100 fpm @ 2400'. Weight check at Liner top at 10,800', 17,500 lbs down and 36,000lbs up.
10:48	0.27	COIL	CTR			1		Tag fish at 19512'. Continue to set down on fish to 19600' and setting down -35,000lbs. Coil no longer moving down. Pump pressure at 6600 psi at 3 bpm in and out, pressure did not change after getting on top of fish.
11:04	0.08	COIL	CTR			1		Turn off pumps at shut in well at 3900 psi. P/U at 30'/min up to 19,560' and pulling 77,000lbs. Sit and allow jars to fire for 5 min.
11:09	1.68	COIL	CTR			1		Jars did show indication of firing. Run back down at 20'/min to 19594' and set down -39,000 lbs. Pick up to 80,000 lbs at 19560'. Run back down at 50'/min to 19,592'. Pick up to 19567'. Start pumps at 3bpm with well shut in, pressure at 6550 psi, run back down to 19,592. Turn off pumps. PU to 19560' @ 85,000 lbs. Bring pumps up to 3 bpm with well shut in up to 6000 psi. Pause and make calls to engineering for 80% pull of coil (120,000 lbs is max pull @ 80%).
12:50	1.57	COIL	PCT			1		Pull up to 100,000 lbs at 19,550'. Bring pumps up to 3 bpm with well shut in and pull 100,000lbs again, same depth. Pull up again to 105,000lbs @ 19,544'. Sit down @ -9,000 lbs at 19584' and bring up pumps to 3 bpm and circulate with well open (getting 3 bpm out). Slowly work CT down to 19594'. Began seeing lots of sand in returns.
14:24	0.85	COIL	PCT			1		Continue circulating at 3.3bpm. Choke back returns to 2.8bpm to try and clean up below fishing tools at the fish. Pump 20 bbl 80 vis sweep. While pulling up slowly at a depth of 19,545', weight dropped quickly from 51,000 lbs to 34,000 lbs. Pipe now pulling free up to

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Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								19,516'. Run back down and tag at 19548' and set down -10,000 lbs. Pick up and pipe still pulling free, change pump rate to 3bpm in and 3 bpm out. Pressure at 6500 psi. Run back down and tag up at 19,538 @ -10,000lbs.
15:15	3.75	COIL	PCT			1		Begin pulling out of hole at 50'/min and weight 52,000 lbs. Continue pumping 3bpm in and 3 bpm out until sweep came out at surface. Pump 1.5 bpm and continue pulling at 70'/min. 1830 - Held Pre-Tower Safety Meeting
19:00	2.25	COIL	PCT			1		At 7000'. Continue pulling to surface.
21:15	1.25	COIL	NDB			1		Bump up and secured well. SIW @ 4050 psi. Bleed off pressure. N/D lubricator from BOP's. Lowered BHA and confirmed we recovered the WL weight bar. The remainder of the fish remains at bottom. Made notifications to engineering and mangement.Held discussion on next step. Decided to halt ops to determine next planned route. Collecting data from previous CT run to provide to management.
22:30	1.50	COIL	CHB			1		Break off TTS BHA. Cut 62' of coil off the reel.
Total	24.00							

06.00 Update

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Description
0:00	0.50	COIL	NUB			1	Pickup injector/lubricator. N/U to the CT BOP's on the 1504H. Torque connection.
0:30	6.00	COIL	SAF			1	Pause to come up with planned next operation.