

EP WELLS DAILY OPERATIONS REPORT

Report 32

07/12/2017

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	31.00
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	Bruce Smiley, Jeff Pontell	Measured Depth(ft)	
Engineer	Joddie Carlile	TVD(ft)	
Other Supervisor	Mike Reber, Damon Marsh	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	1,457,484/4,757,442.00	Current MW / BH EMW(ppg)	/
Actual divided by AFE	0.31	LOT/FIT EMW(ppg)	
Daily Cost	51,641	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:							
305 man hours							
33 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
Prepare for fishing operations, RIH with BHA #1, engage fish at 19,555' x3, POOH 30 ft/min
Update Since Report Time
Continue POOH with BHA #1, will check for fish
24 Hour Forecast
BD BHA #1, if fish out of well, prep to drill plugs, if fish still in well, prep to make new plan

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Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	11.47	WOR	OPO			1		Wait on fishing operations on 1505H well.
11:28	2.75	WOR	OPO			1		<p>Cut 12' of CT, MU BHA #1 as follows:</p> <p>(OD", ID", Length')</p> <ul style="list-style-type: none"> - Slip Type Connector (3.125", 1.375", .99') - Dual BPV (2.875", 1", 1.42') - Accelerator (2.875", 15/16", 5.91') - Bi directional jars (2.875", 15/16", 5.61') - Hyd. Disconnect (2.875", 11/16", 2.12') - NOV Agitator (2.875", N/A, 4.32') - Rotational Hip Tripper (2.82", NA, 4.27') - XO 2-3/8" PAC 2-7/8" PAC (3.06", 1.38", 1.1') - Overshot top sub (3.75", 1.5", .82') - Overshot w 2-3/4" spiral grapple (3.75", 2.75", 1.13') - Cut-lip overshot guide (3.75", 3.13", .60') <p>TOTAL BHA LENGTH 28.29'</p> <p>Pull test to 45k lbf good test. Pressure test BHA to agitator to 2000 psi good test. Function test entire BHA (1 bbl/min, 800 psi) (2 bbl/min, 2000 psi) (3 bbl/min, 3800 psi).</p>
14:13	0.95	WOR	OPO			1		Discuss 12QFSL, stab lubricator onto 1505H well and MU to quad BOPs. Break connection below combi BOPs and swing over to 1504H well, torque to spec. Run accumulator hoses to hydraulic wing valve on 1504H and function test. Run guy lines. MU nightcap to 1505H well.
15:10	1.08	WOR	OPO			1		Walk the line and break circulation to OTT. Discuss 9QFSPT. Low test stack and flow iron to 500 psi low 5 min, 8000 psi high 10 min good test. Negative test dual check valves to 500 psi good test. Equalize to SICP 3800 psi and open well, begin RIH.
16:15	1.67	WOR	OPO			1		RIH at 80 ft/min, Circ P 3500 psi WHP 3800 psi.
17:55	1.08	WOR	OPO			1		Wt check at 6000 ft CTM, 12k lbf Circ P 3500 psi WHP 3800 psi.
19:00	4.00	WOR	OPO			1		<p>Weight check 10,800', PU 32K, .75 bpm / 4,400 CP / 3,900 WH</p> <p>Current depth 11,240', 20K RIH, .75 bpm / 4,400 CP / 3,850 WH</p> <p>19:40 Weight check 13,000', PU 40K, RIH 21.5K, .75 bpm / 4,200 CP / 3,850 WH, continue RIH at 50 ft/min</p> <p>20:45 Weight check 16,000', PU 44K, RIH 19K, 2.0 bpm / 5,700 CP / 3,750 WH, continue RIH at 50 ft/min, POP at .25 gal / 10 bbls, FR at .04 gal / 10 bbls</p> <p>21:30 Continue RIH at 18,150, RIH weight 18.7K, 2 bpm / 5,844 CP / 3,825 WH (maintain)</p> <p>21:50 Weight check 19,000', PU 45.3K max, 2 bpm / 5,794 CP / 3,800 WH</p> <ul style="list-style-type: none"> - PU with 1,370 psi hydraulic pressure (30.1 psi/lbs force) / 41.3K - Confirm circulation pressures as follows <ul style="list-style-type: none"> 2.0 bpm / 5,794 psi 1.2 bpm / 4,605 psi 0.75 bpm / 3,926 psi - Set trips to 4,500 psi <p>Continue RIH at 17 ft/min / RIH weight 18.6K / .8 bpm / 4,124 CP / 3,725 WH</p> <p>22:00 Continue RIH to top of fish (approximate 19,384')</p> <p>19,100' / RIH weight 17.9K to 19.1K / 20 ft/min / 4,156 CP / .8 bpm</p> <p>19,150' / RIH weight 19.2K / 20 ft/min / 4,134 CP / .8 bpm</p> <p>19,200' / RIH weight 18.7K to 19.3K / 4,156 CP / .8 bpm</p> <p>19,250' / RIH weight 18.7K to 19.2K / 4,134 CP / .8 bpm</p> <p>22:15 Weight check 19,300', PU 46.2 max, 1,390 psi hydraulic</p>

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Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								(41.8K), .8 bpm/4,080 psi 19,325' / RIH weight 19.9K / 4,091 CP / .8 bpm 19,400' / RIH weight 19.7K / 4,124 CP / .8 bpm 22:30 Weight check 19,500', PU 48K max - 46.1K avg, 1,488 psi hydraulic (44.8K) 22:33 RIH at 17 ft/min / RIH weight 19.5K / Rate .8 bpm / Pressure 4,101 psi TAG FISH at 19,555' Pressure increased from 4,100 psi to 4,780 psi / the pumps kicked out at 4,500 psi Weight decreased from 19.500# to 9,689# (10K down on fish) PU weight 48.3K / 1,470 psi hyd - 44.2K / Continue POOH with PU hitting 49.7K 2nd RIH at 20 ft/min / RIH weight 19.5K / Rate .8 bpm / Pressure 4,035 psi TAG FISH at 19,555' (2nd tag) Pressure increased from 4,035 psi to 4,620 psi / the pumps kicked out at 4,500 psi Weight decreased from 19.500# to 3,200# (16.3K down on fish) PU weight 49.4K / 1,480 psi hyd - 44.6K / Continue POOH with PU hitting 51K 3rd RIH at 25 ft/min / RIH weight 19.5K / Rate .8 bpm / Pressure 4,057 psi TAG FISH at 19,555' (3rd tag) Pressure increased from 4,057 psi to 4,800 psi / the pumps kicked out at 4,500 psi Weight decreased from 19.500# to 0# (19.5K down on fish) NOTE: Decision made to POOH, while on surface before RIH, a similar rope socket from Keane WL would fit extremely well into the 1.375" ID of the 3.75" overshoot top sub, the pressure increase indicates that the top of fish was tagging the top of the this sub, bleed off of pressure as BHA was picked up was the same signature from the 2 previous fish retrievals, the PU weights where 51K+/- coming off bottom, very slight increase, WFR recommends POOH at 30 ft/min, 1st 400' off bottom showed cycling of weight.
23:00	1.00	WOR	OPO			1		POOH from 19,555' / .8 bpm / 4,047 CP / 3,825 WH / PU 48.2K max - 1,670 psi hyd (50.2K) 23:55 Current depth 17,500', POOH weight 48K, POOH at 30 ft/min, .8/4,000 CP/3,800 WH
Total	24.00							

06.00 Update

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Description
0:00	5.00	WOR	OPO			0	Continue POOH, 17,500' current depth, PU 48K, .8 bpm / 4,000 CP / 3,825 WH / POOH at 30 ft/min, SD POP 02:00 14,000' current depth, PU 44.5K, .8 bpm / 4,055 CP / 3,850 WH / POOH at 30 ft/min 03:15 11,800' current depth, PU 39K, .8 bpm / 4,100 CP / 3,800 WH / slow speed to 20 ft/min as BHA #1 enters bottom of heel 04:00 10,770' current depth, PU 36K, .8 bpm / 4,150 CP / 3,750 WH / BHA #1 in vertical, increase speed to 90 ft/min, Shut in at choke manifold, load hole at .8 bpm pipe displacement

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06.00 Update

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Description
							<p>NOTE: As crews POOH with BHA #1, significant cycling of weight occurred at some intervals as follows, patterns vary with significant highs that drop off abruptly, consistent cycling over 2,000#, and straight line POOH weights, some indications dragging fish.</p> <ul style="list-style-type: none"> - 16,587' to 16,520' 2,000# noticable drag - 16,090' 44K to 50K (6K) - 15,970' 49K to 52K (3K) - 15,537' 43K to 48K (5K) - 15,516' 43K to 49K (6K) - 15,345' 42K to 46K (4K) <p>04:30 8,200' current depth, PU 23K, .8 bpm / 4,120 CP / 3,800 WH / POOH at 90 ft/min</p> <p>05:30 3,800' current depth, PU 8K, .8 bpm / 4,200 CP / 3,900 WH / POOH at 90 ft/min</p>

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
07/12/2017 00:00	KEANE FRAC LP	Perforation		OPO	EN	Elect W/line Perforating Equip	0.00	0.00		OPEN
Description: PLUG WOULD NOT REACH PROPER DEPTH						Title: FISHING OPS				
							Total	0.00	0.00	

Remarks

START RENTAL ON FOLLOWING ON THIS WELL (TRANSFER FROM 1505H)

- STALLION TRAILERS, GENERATOR, COMMS, WATER/SEWAGE
- DESERT EQUIPMENT 6 X LIGHT PLANTS CHARGED FOR 5
- SUNBELT FORKLIFT, MANLIFT, STINGER, GRAPPLE
- R&R TRASH TRAILER COMBO AND 6 PORT O JOHNS