

## EP WELLS DAILY OPERATIONS REPORT

Report 4

06/19/2017

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 19 PW UNIT 1404H
Wellbore	UNIVERSITY 19 PW UNIT 1404H
WBS No/API No	30265150 / 4230133215.00

## Event Summary

Event Type	Drilling only	Event Start Date	06/16/2017	Days on Location	3.75
Objective	Drill - Wolfcamp B1 Shale	Original Spud Date	06/17/2017	Days Since Spud	2.42
Est. Days	22.00	Contractor	ENSIGN		
Work Unit	ENSIGN 775	Days To Release			
		Rig Phone/FAX No.			

## Well Status

Supervisor	TRAMPUS STEWART	Measured Depth(ft)	4,893.00
Engineer	POWER CHARLES	TVD(ft)	4,884.29
Other Supervisor	TREVOR KELLEY	24 Hr Progress(ft)	
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,800.10 / 2,772.10	Hole size(in)	12.250
THF Datum			
Daily NPT(hr/%)	0/0	Last Casing MD	9.625in@4,893.00ft
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	7.000in@12,236.00ft
Actual cost to date/AFE	317,989/2,770,860.00	Current MW / BH EMW(ppg)	/
Actual divided by AFE	0.11	LOT/FIT EMW(ppg)	
Daily Cost	104,123	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>	09/29/2015	629	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	4

## Operations Summary

24 Hour Summary
C/O BHA & RACK BACK. R/U & RUN 9 5/8" 40# J55 LTC CSG T/4893'. CIRC. RELEASE @1330. OFFLINE CMT.
Update Since Report Time
24 Hour Forecast

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Well UNIVERSITY 19 PW UNIT 1404H  
Wellbore UNIVERSITY 19 PW UNIT 1404H

## Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	2.00	SRF1	BHA		4,893.00	0		C/O SHOCK SUB, MOTOR & BIT. RACK BACK BHA IN DERRICK  BIT GRADE: 3-4-BT-S-X-X-CT-TD
2:00	1.00	SRF1	BHA		4,893.00	0		N/D CONDUCTOR PIPE
3:00	8.00	SRF1	CLR		4,893.00	0		PJSM W/ EXPRESS RUN 9 5/8" 40# J55 LTC CSG T/4893'.
11:00	1.50	SRF1	RCC		4,893.00	0		BREAK CIRC & CIRC 1 CSG VOL
12:30	1.00	SRF1	CEM		4,893.00	0		L/D CSG LANDING JT, R/D CSG TOOLS  RELEASE RIG @1330  OFFLINE CMT JOB:  PJSM W/ BAKER & R/U EQUIP TEST LINES T/ 4500 PSI PUMP 50 BBL FRESHWATER SPACER PUMP 770 BBL 12.8 PPG LEAD SLURRY (C65/35POZ + 4% BENTONITE +1% R-3+ .65% SMS +5% SALT+ .01 GAL/SK FP-6L+ .005 LB/SK STATIC FREE) PUMP 118 BBL 14.8 PPG TAIL SLURRY (C+.35% R-3 +.15% SMS+ .01 GAL/SK FP-6L +.005LB/SK STATIC FREE) PUMP 362BBL 10PPG BRINE DISPLACMENT BUMP PLUG ON CALC DISP TEST CSG T/1500 PSI HOLD FOR 30 MIN BLEED OFF PRESSURE, 1BBL BLED BACK.  430 BBLS CMT BACK TO SURFACE
<b>Total</b>	<b>13.50</b>							

## Deepest 5 Surveys

MD (ft)	Inc. (°)	Azi. (°)	TVD (ft)	N/S (ft)	E/W (ft)	V.Sec (ft)	DLeg (°/100ft)	Tool
3,915.00	2.74	74.36	3,906.57	161.31	-162.56	228.82	1.18	PTW MWD+HDGM_2016
4,093.00	1.66	94.13	4,084.43	162.27	-155.89	224.98	0.73	PTW MWD+HDGM_2016
4,272.00	0.71	124.79	4,263.40	161.45	-152.39	222.00	0.62	PTW MWD+HDGM_2016
4,451.00	0.71	118.74	4,442.38	160.28	-150.51	219.87	0.04	PTW MWD+HDGM_2016
4,630.00	1.24	109.53	4,621.36	159.10	-147.71	217.10	0.31	PTW MWD+HDGM_2016

## Fluid Details

Mud type MD (ft) Mud Density (ppg) Vis (s/qt) PV/YP (cp/lbf/100ft²) Gels 10 s/m (lbf/100ft²) API/HTHP WL (cc/30min) FC/HTHP FC (32nd")  FL temp. (°F)	NaCl Brine	Oil/Water (%) TS/HGS/LGS (%) Sand (%)  MBT (lbm/bbl) LCM (lbm/bbl) ECD (ppg) H2S (gas unit) KCl (%)  Ditch Magnet in Last 24hrs/Cum. (gm)	pH/Pm (cc) Pf/Mf (cc) Ca+ (ppm) Cl- (ppm)  R600/300 (°) R200/100 (°) R6/3 (°)
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## PUMP/HYDRAULIC DATA

Pump No.	Type	Make/Model	Stroke (in)	Liner size (in)	Efficiency (%)	Pressure (psi)	SPM (spm)	Output (gpm)	Kill SPM/Pressure/Depth (spm/psi/ft)
1		GARDENER-DENVER / PZ-11-1600	11.00						
2		GARDENER-DENVER / PZ-11-1600	11.00						