

## EP WELLS DAILY OPERATIONS REPORT

Report 5

07/05/2017

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	4.31
Objective	Drill - Wolfcamp B1 Shale	Original Spud Date	06/17/2017	Days Since Spud	2.98
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	BRANDON FOOTE	TVD(ft)	4,884.20
Other Supervisor	JOHNNIE BRASSELL	24 Hr Progress(ft)	0.00
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,800.10 / 2,772.10	Hole size(in)	8.750
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	502,746/2,770,860.00	Current MW / BH EMW(ppg)	/
Actual divided by AFE	0.18	LOT/FIT EMW(ppg)	
Daily Cost	32,531	Lithology	
		Formation/MD Top	

## HSE Summary

Last Incident	Date	Days	Last Incident	Date	Days	KPI's	
LWC RWC MTC FAC Last casing pressure test	06/19/2017		PSI NII HPI <b>GOAL ZERO DAYS</b> <b>PS BARRIER EVENT</b> <b>PS barrier bowtie review</b>	09/29/2015	645	TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	9 1 16 1500
Safety Comments:	DROPS & ENSIGN SPUD CHECK LIST DONE						

## HSE Drills

Drills/Tests	Date	Days Since Last		
Last Derrick Inspection	07/05/2017	0	JSA's/Toolbox Talks	6
Last BOP function test	06/28/2017	7	Days Since Last Drill	5
Last BOP Test	07/19/2017			
Next BOP Test				

## Operations Summary

24 Hour Summary
WALK RIG F/ UNIVERSITY 19 J 0910H T/ 19 1404H, C/O SEAL ON SPEED ADT N/U & TEST T/ 10K, CONT R/U BACK YARD, MUD LINE SUIT CASE, FLARE LINE ETC, SURFACE TEST LINES, DROPS & PRE DRLG CHECK BY ENSIGN, INST WEAR BUSHING (JB WITNESS), PAUSE P/U BHA #2 T/ 595'
Update Since Report Time
DRILLING SHOE TRACK
24 Hour Forecast
DRLG 8.3/4 VERT SECTION AS PER PLAN TO KOP @ +/- 11055'

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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
10:30	1.50	INT1	WLK		4,893.00	0		WALK RIG F/ UNIVERSITY 19 J 0910H T/ 19 1404H
12:00	2.00	INT1	RUP		4,893.00	0		C/O SEAL ON SPEED ADT N/U & TEST T/ 10K
14:00	6.50	INT1	RUP		4,893.00	0		CONT R/U BACK YARD, MUD LINE SUIT CASE, FLARE LINE ETC, SURFACE TEST LINES, DROPS & PRE DRLG CHECK BY ENSIGN
20:30	0.50	INT1	PUP		4,893.00	0		INST WEAR BUSHING (JB WITNESS)
21:00	3.00	INT1	BHA		4,893.00	0		PAUSE P/U BHA #2 TIH T/ 595'
<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
4,451.00	0.71	118.78	4,442.37	158.86	-151.80	219.70	0.04	PTW MWD+HDGM+AXIAL_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	109.52	4,621.35	157.68	-149.00	216.93	0.31	PTW MWD+HDGM+AXIAL_2016
4,630.00	1.24	109.53	4,621.36	159.10	-147.71	217.10	0.31	PTW MWD+HDGM_2016
4,804.00	2.17	103.19	4,795.27	156.29	-144.02	212.53	0.54	PTW MWD+HDGM+AXIAL_2016

## Fluid Details

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

## 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						

## Remarks

FUEL ON LOCATION 16536 GAL  
FUEL DELIVERED: 0 GAL  
FUEL USED 636 GALS  
MTR HRS 3 X 24 212GAL EA.