

## EP WELLS DAILY OPERATIONS REPORT

Report 11

07/17/2017

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 19 D 0904H
Wellbore	UNIVERSITY 19 D 0904H
WBS No/API No	30265147 / 4230133226.00

## Event Summary

Event Type	Drilling only	Event Start Date	06/19/2017	Days on Location	8.94
Objective	Drill - Wolfcamp B1 Shale	Original Spud Date	06/19/2017	Days Since Spud	8.56
Est. Days	21.00	Contractor	ENSIGN		
Work Unit	ENSIGN 775	Days To Release			
		Rig Phone/FAX No.			

## Well Status

Supervisor	TRAMPUS STEWART	Measured Depth(ft)	11,940.00
Engineer	BRANDON FOOTE	TVD(ft)	11,610.34
Other Supervisor	TREVOR KELLEY	24 Hr Progress(ft)	
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,799.10 / 2,771.10	Hole size(in)	8.750
THF Datum			
Daily NPT(hr/%)	0/0	Last Casing MD	9.625in@4,879.00ft
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	7.000in@12,236.00ft
Actual cost to date/AFE	1,085,665/2,503,951.00	Current MW / BH EMW(ppg)	9.20/
Actual divided by AFE	0.43	LOT/FIT EMW(ppg)	
Daily Cost	354,184	Lithology	
		Formation/MD Top	

## HSE Summary

Last Incident	Date	Days	Last Incident	Date	Days	KPI's	
LWC RWC MTC FAC Last casing pressure test	06/23/2017		PSI NII HPI <b>GOAL ZERO DAYS</b> <b>PS BARRIER EVENT</b> <b>PS barrier bowtie review</b>	09/29/2015	657	TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	1500
Safety Comments:							

## HSE Drills

Drills/Tests	Date	Days Since Last		
Last Derrick Inspection	07/11/2017	6	JSA's/Toolbox Talks	10
Last BOP function test	06/28/2017	19	Days Since Last Drill	
Last BOP Test	07/19/2017			
Next BOP Test				

## Operations Summary

24 Hour Summary
RUN 7" 29# P110 BLUE CSG T/11925'. CIRC WHILE R/U CMT. CMT 7" CSG. INSTALL PACKOFF & BPV. N/D BOPS & LIFT STACK. RELEASE RIG @ 1400
Update Since Report Time
24 Hour Forecast

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## Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	3.50	INT1	CLR		11,940.00	0		CONT. RUN 7" P-110 29# LTC & BLUE CSG T/11892'
3:30	0.50	INT1	CLR		11,940.00	0		P/U M/U LANDING JT & LAND @ 11925'
4:00	3.00	INT1	RCC		11,940.00	0		FILL PIPE, CIRC 1 CSG VOLUME WHILE R/D EXPRESS, PJSM & R/U W/ BAKER  TEST LINES T/4500 PSI
7:00	2.50	INT1	CEM		11,940.00	0		PUMP 50 BBLS FRESH WATER  PUMP 181 BBLS LEAD SLURRY @ 11.0 PPG (C65/35POZ+6% BENTONITE+ 10% BA 90+5% A-10+ 1.5% FL-52+ 1% CD-32+2.25% SMS+ 3% KCL+ 1.2% R-3+ .005 LB/SK STATIC FREE+ .005 GAL/SK FP-6L)  PUMP 100 BBLS TAIL SLURRY @ 14.5 PPG (H50/50POZ+ 2% BENTONITE+ .6% FL-66+ .35% CD-3+ .35% SMS+ .4% R-3+ .005 LB/SK STATIC FREE+ .01 GAL/SK FP-6L)  DROP PLUG & DISPLACE W/440 BBLS 9.6 PPG BRINE, BUMP PLUG W/650 PSI OVER FCP 1900PSI, FLOATS HELD, BLED BACK 2.25 BBLS
9:30	0.50	INT1	LCH		11,940.00	0		TEST CSG T/2500 PSI F/ 30 MIN
10:00	1.00	INT1	LCH		11,940.00	0		PJSM W/ BAKER CMT CREW & R/D CMT HEAD & CIRC IRON
11:00	2.50	INT1	SLP		11,940.00	0		L/D CSG LANDING JT, INSTALL PACK OFF & PRESSURE TEST SAME T/10K F/15 MIN, INSTALL BPV
13:30	0.50	INT1	PRW		11,940.00	0		REMOVE TURNBUCKLES, P/U MOUSEHOLE, BREAK QUICK CONNECT ON BOPS, LIFT STACK.  RELEASE T/ UNIVERSITY 19 PW UNIT 1403H @1400
<b>Total</b>	<b>14.00</b>							

## Deepest 5 Surveys

MD (ft)	Inc. (°)	Azi. (°)	TVD (ft)	N/S (ft)	E/W (ft)	V.Sec (ft)	DLeg (°/100ft)	Tool
11,509.00	45.28	351.35	11,414.85	-574.58	-229.67	-489.28	8.65	PTW MWD+HDGM+AXIAL_2016
11,599.00	50.35	352.75	11,475.26	-508.55	-238.85	-423.27	5.75	PTW MWD+HDGM+AXIAL_2016
11,688.00	57.80	353.24	11,527.45	-437.07	-247.62	-352.13	8.38	PTW MWD+HDGM+AXIAL_2016
11,777.00	67.66	352.51	11,568.17	-358.67	-257.44	-274.06	11.10	PTW MWD+HDGM+AXIAL_2016
11,867.00	77.51	351.59	11,595.08	-273.73	-269.32	-189.13	10.99	PTW MWD+HDGM+AXIAL_2016

## Fluid Details

Mud type	NaCl Brine	Oil/Water (%)	pH/Pm (cc)	9.00/0.30
MD (ft)	11,940.00	TS/HGS/LGS (%)	Pf/Mf (cc)	0.10/0.20
Mud Density (ppg)	9.20	Sand (%)	Ca+ (ppm)	
Vis (s/qt)	28.00		Cl- (ppm)	89,000
PV/YP (cp/lbf/100ft²)	1.00/3.000	MBT (lbm/bbl)		
Gels 10 s/m (lbf/100ft²)	1.000/1.000	LCM (lbm/bbl)		
API/HTHP WL (cc/30min)	100.0/	ECD (ppg)	R600/300 (°)	
FC/HTHP FC (32nd")	2.0/	H2S (gas unit)	R200/100 (°)	
		KCl (%)	R6/3 (°)	
FL temp. (°F)		Ditch Magnet in Last 24hrs/Cum. (gm)		

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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						