

## EP WELLS DAILY OPERATIONS REPORT

Report 26

08/17/2017

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 19 PW UNIT 1407H
Wellbore	UNIVERSITY 19 PW UNIT 1407H
WBS No/API No	30264950 / 4230133203

## Event Summary

Event Type	Drilling only	Event Start Date	05/10/2017	Days on Location	25.38
Objective	Drill - Wolfcamp B1 Shale	Original Spud Date	05/11/2017	Days Since Spud	22.94
Est. Days	25.00	Contractor	PRECISION		
Work Unit	PRECISION 559	Days To Release			
		Rig Phone/FAX No.			

## Well Status

Supervisor	THERON KNIGHT	Measured Depth(ft)	20,500.00
Engineer	YERMEK TYNYSHBAYEV	TVD(ft)	11,720.91
Other Supervisor	ASHLEY HRIVNAK	24 Hr Progress(ft)	
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,792.70 / 2,766.70	Hole size(in)	6.125
THF Datum			
Daily NPT(hr/%)	0.50/2.08	Last Casing MD	7.000in@12,087.00ft
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	4.500in@20,500.00ft
Actual cost to date/AFE	2,378,212/2,726,365.58	Current MW / BH EMW(ppg)	/
Actual divided by AFE	0.87	LOT/FIT EMW(ppg)	
Daily Cost	273,036	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>	10/12/2016	309	TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	
Safety Comments:							
MAN HOURS: 323							

## HSE Drills

Drills/Tests	Date	Days Since Last	JSA's/Toolbox Talks Days Since Last Drill	25
Last Derrick Inspection	05/14/2017	95		
Last BOP function test	05/14/2017	95		
Last BOP Test	06/04/2017			
Next BOP Test				

## Operations Summary

24 Hour Summary
DROP 1.5" BALL & PRESSURE UP ON BALL SEAT & SHEAR. CEMENT 4.5" LINER. STING OUT OF PACKER WITH 800 PSI OF POSITIVE PRESSURE DOWN DRILLPIPE. CIRCULATE OUT CEMENT (20 BBL OF CEMENT TO SURFACE). TEST PACKER TO 2500 PSI. DISPLACE WELL TO 10 PPG BRINE WHILE HOLDING BHP CONSTANT. PERFORMED NEGATIVE TEST. POOH F/ 11,343' - T/ SURFACE L/D DP. LAY DOWN PACKER SETTING TOOL.
Update Since Report Time
RIH W/ DP T/ 4,506'. TOO H L/D DP T/ 288'.
24 Hour Forecast
FINISH RUNNING IN HOLE W/ RACKED BACK DRILL PIPE. TOO H AND L/D SAME. INSTALL BPV. N/D CAMERON SPEEDHEAD. FINISH CLEANING PITS. R/D BACKYARD. RIG DOWN AND PREPARE TO RIG MOVE TO SABLE 53-2-9 LOV W UNIT 2H

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## Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	2.00	MNH1	RCC		20,500.00	0		DROP 1.5" BRASS BALL AND LET FALL FOR 40 MIN. STAGE UP PRESSURE 500 PSI AND HOLD FOR 1 MIN. PRESSURE UP T/ 1,700 PSI.
2:00	0.50	MNH1	RCC		20,500.00	0		R/U CEMENT LINES.
2:30	3.00	MNH1	CEM		20,500.00	0		CEMENT 4.5" LINER  TEST LINES @ 8000 PSI PUMP 50 BBL ULTRA FLUSH HV SPACER @ 3.5 BPM. PUMP CEMENT @ 4 BPM: 183 BBLs, 840 SKS OF 14.5# 50:50:2 PREMIUM CLASS H CEMENT. DROP PLUG AND START DISPLACEMENT. DISPLACE W/ 20 BBL OF SUGAR WATER @ 4 BPM. DISPLACE W/ 90 BBL OF 10.0 PPG BRINE @ 110 BPM. DISPLACE W/ 20 BBL OF SUGAR WATER @ 4 BPM. DISPLACE W/ 114 BBL OF 13.7PPG OBM @ 4 BPM. BUMP PLUG @3700 PSI (1000 PSI OVER) HOLD FOR 5 MINS. BLED BACK 2 BBL. FLOATS HELD.
5:30	0.50	MNH1	SLP		20,500.00	0		UNSTING F/ PACKER W/ 800 PSI.
6:00	1.50	MNH1	SLP		20,500.00	0		CIRCULATE OUT CEMENT.
7:30	0.50	MNH1	SLP		20,500.00	0		TEST PACKER T/ 2,500 PSI FOR 5 MIN,
8:00	2.50	MNH1	SLP		20,500.00	0		DISPLACE WELL TO 10 PPG BRINE HOLDING CONSTANT BHP THROUGH CHOKES. PERFORM NEGATIVE TEST. BLED OFF 500 PSI HELD FOR 5 MIN (GOOD TEST). OPEN CHOKES.
10:30	1.00	MNH1	SLP		20,500.00	0		L/D CEMENT HEAD AND 2 JOINTS OF DRILL PIPE USED TO SPACE OUT.
11:30	2.00	MNH1	SLP		20,500.00	0		FINISH TRANSFERING OBM F/ MUD PITS TO FRAC TANKS. WASH OBM F/ ALL MUD LINES AND PITS W/ BRINE WATER.
13:30	4.50	MNH1	TOH		20,500.00	0		L/D 4" DRILL PIPE F/ 11,343' T/ 6,200'.
18:00	2.50	MNH1	TOH		20,500.00	0		POOH AND L/D DRILL PIPE F/ 6,200' T/ 3,809'.
20:30	0.50	MNH1	TOH		20,500.00	1		NPT: WAITING ON WEATHER. SHUT DOWN DUE TO EXCESSIVE WIND AND LIGHTNING.
21:00	2.50	MNH1	TOH		20,500.00	0		POOH F/ 3,809' T/ BHA. L/O BHA.
23:30	0.50	MNH1	TOH		20,500.00	0		TIH AND M/U DART VALVE. RIH W/ 60 STANDS.
<b>Total</b>	<b>24.00</b>							

## 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
08/17/2017 20:30	SHELL	Wait On Weather	20,500.00	TOH	N		0.50	0.50		OPEN
<b>Description:</b> SHUT DOWN DUE TO SEVERE WEATHER IN THE AREA						<b>Title:</b> WAIT ON WEATHER				
							<b>Total</b>	<b>0.50</b>	<b>0.50</b>	

## Deepest 5 Surveys

MD (ft)	Inc. (°)	Azi. (°)	TVD (ft)	N/S (ft)	E/W (ft)	V.Sec (ft)	DLeg (°/100ft)	Tool
20,184.00	87.42	161.91	11,716.43	-7,704.61	2,970.60	8,228.55	5.88	PTW MWD_2016
20,274.00	88.48	163.03	11,719.65	-7,790.37	2,997.69	8,318.47	1.71	PTW MWD_2016
20,363.00	89.73	163.69	11,721.04	-7,875.63	3,023.18	8,407.45	1.59	PTW MWD_2016
20,449.00	90.20	162.83	11,721.09	-7,957.98	3,047.95	8,493.45	1.14	PTW MWD_2016
20,500.00	90.20	162.83	11,720.91	-8,006.71	3,063.00	8,544.44	0.00	PTW MWD_2016

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## Fluid Details

Mud type	Invermul	Oil/Water (%)	POM (cc)
MD (ft)		TS/HGS/LGS (%)	CaCl2 (%)
Mud Density (ppg)		Sand (%)	Caom/Clom (ppm)
Vis (s/qt)		Oil/Water Ratio (%)	ACT
PV/YP (cp/lbf/100ft <sup>2</sup> )		LCM (lbm/bbl)	XS Lime(lbm/bbl)
Gels 10 s/m (lbf/100ft <sup>2</sup> )		ECD (ppg)	ES (Volts)
API/HTHP WL (cc/30min)		H2S (gas unit)	R600/300 (°)
FC/HTHP FC (32nd")		KCl (%)	R200/100 (°)
WPS (ppm)		Ditch Magnet in Last 24hrs/Cum. (gm)	
FL temp. (°F)			

## Remarks

DIESEL ON LOCATION: 9,360 GAL  
DIESEL DELIVERED: 0 GAL  
DIESEL USED: 735 GAL  
LNG USED: 288.13 GAL