

## EP WELLS DAILY OPERATIONS REPORT

Report 25

07/02/2017

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 19 PW UNIT 1406H
Wellbore	UNIVERSITY 19 PW UNIT 1406H
WBS No/API No	30264949 / 4230133213.00

## Event Summary

Event Type	Drilling only	Event Start Date	04/26/2017	Days on Location	24.54
Objective	Drill - Wolfcamp B1 Shale	Original Spud Date	04/30/2017	Days Since Spud	20.00
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)	19,615.00
Engineer	YERMEK TYNYSHBAYEV	TVD(ft)	11,698.50
Other Supervisor	DENNIS JOHNSON / JIM BROWN	24 Hr Progress(ft)	
Depth Ref/Grd Elev/Water Depth(ft)	DfE: 2,793.00 / 2,767.00	Hole size(in)	6.125
THF Datum			
Daily NPT(hr/%)	24.00/100.00	Last Casing MD	7.000in@11,968.00ft
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	4.500in@19,578.00ft
Actual cost to date/AFE	2,179,924/2,664,436.41	Current MW / BH EMW(ppg)	14.00/
Actual divided by AFE	0.82	LOT/FIT EMW(ppg)	
Daily Cost	84,509	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	263	TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	
Safety Comments:	NO ACCIDENTS OR INCIDENTS REPORTED. MAN HOURS: 312						

## HSE Drills

Drills/Tests	Date	Days Since Last		
Last Derrick Inspection			JSA's/Toolbox Talks	
Last BOP function test	06/15/2017	17	Days Since Last Drill	7
Last BOP Test	06/15/2017	17		
Next BOP Test	07/06/2017			

## Operations Summary

24 Hour Summary
REAM OUT 15, 832' ~ 14,876', POOH & L/D JARRING ASSEMBLY( 10,930'), POOH & B/O BIT AT SURFACE, SLIP & CUT DL, M/U REAMING ASSEMBLY, TIH, REAM 13,180' ~ 13,627', TIH TO 17,215', ream to 17,306'.
Update Since Report Time
05:00= REAM f/ 17,306' ~ 17,705', UNABLE TO CLEAR TIGHT SPOTS @ 17,655', 17,668', 17,687' & 17,705'. RAISE MW F/ 14.0 PPG ~ 14.2 PPG.
24 Hour Forecast
REAM TO BOTTOM, CLEAN UP CIRCULATION, POOH & RUN 4 1/2" LINER.

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## Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	1.50	MNH1	WTR		19,615.00	1		NPT: REAM & CIRCULATE OUT f/ 15,850' ~ 14,876'. 60 RPM, 14K TQ LIMIT, 300 GPM @ 4500 PSI.
1:30	3.00	MNH1	WTR		19,615.00	1		NPT: POOH ON ELEVATORS: 14,876'~ 10,930'.
4:30	2.00	MNH1	WTR		19,615.00	1		NPT: L/D JARRING ASSEMBLY, SHOT JT & IN. GRAY.
6:30	3.50	MNH1	WTR		19,615.00	1		NPT: POOH 10,930' ~ SURFACE.
10:00	1.00	MNH1	WTR		19,615.00	1		NPT: L/O 6" REAMER (top) & B/O BIT.
11:00	1.00	MNH1	CUT		19,615.00	1		NPT: SLIP & CUT 130' DL. SERVICE TBA & SET CONTROL LIMITS.
12:00	1.00	MNH1	WTR		19,615.00	1		NPT: RR BIT, BIT SUB (REPLACE FLOAT VALVE), IN. GRAY, 5 7/8" REAMER, 1 x XT 39 JT, nov BI CENTER REAMER.
13:00	1.00	MNH1	WTR		19,615.00	1		NPT: TIH TO 2755'.
14:00	0.50	MNH1	SVC		19,615.00	1		NPT: SERVICE TDS & IR.
14:30	5.00	MNH1	WTR		19,615.00	1		NPT: TIH f/ 2755' ~ 13,180'.
19:30	1.50	MNH1	WTR		19,615.00	1		NPT: REAM f/ 13,180' ~ 13,627'. 2150 psi @ 200 gpm, 60 rpm @ 4~5 tq.
21:00	2.00	MNH1	WTR		19,615.00	1		NPT: TIH f/ 13,627' ~ 17,215'.
23:00	1.00	MNH1	WTR		19,615.00	1		NPT: REAM f/ 17,215' ~ 17,306'. 120 rpm w/ 6~ 12K TQ, 320 gpm @ 5600 psi.
<b>Total</b>	<b>24.00</b>							

## Deepest 5 Surveys

MD (ft)	Inc. (°)	Azi. (°)	TVD (ft)	N/S (ft)	E/W (ft)	V.Sec (ft)	DLeg (°/100ft)	Tool
19,471.00	90.11	164.42	11,698.26	-7,402.02	1,913.01	7,641.41	0.43	PTW MWD+HDGM_2016
19,565.00	89.81	165.41	11,698.33	-7,492.77	1,937.47	7,735.39	1.10	PTW MWD+HDGM_2016
19,565.00	89.81	165.41	11,698.34	-7,492.95	1,936.27	7,735.22	1.10	PTW MWD+HDGM_2016
19,615.00	89.81	165.41	11,698.50	-7,541.16	1,950.07	7,785.37	0.00	PTW MWD+HDGM_2016
19,615.00	89.81	165.41	11,698.51	-7,541.34	1,948.87	7,785.20	0.00	PTW MWD+HDGM_2016

## Fluid Details

Mud type	Invermul	Oil/Water (%)	55.50/15.00	POM (cc)	1.29 397.0
MD (ft)	19,615.00	TS/HGS/LGS (%)	27.90//	CaCl2 (%)	
Mud Density (ppg)	14.00	Sand (%)	0.20	Caom/Clom (ppm)	
Vis (s/qt)	68.00	Oil/Water Ratio (%)	78.70/21.30	ACT	
PV/YP (cp/lbf/100ft²)	28.00/13.000			XS Lime(lbm/bbl)	
Gels 10 s/m (lbf/100ft²)	8.000/17.000	LCM (lbm/bbl)		ES (Volts)	
API/HTHP WL (cc/30min)	0.0/	ECD (ppg)	14.000	R600/300 (°)	
FC/HTHP FC (32nd")	0.0/5.0	H2S (gas unit)		R200/100 (°)	
WPS (ppm)	252,810	KCl (%)		R6/3 (°)	
FL temp. (°F)		Ditch Magnet in Last 24hrs/Cum. (gm)			

## Gas Concentrations and Fluid Losses

Avg Connection Gas (gas unit)	Avg. trip gas (gas unit)	Losses Last 24 Hours/Cumulative...	
Max. connection gas (gas unit)	Max. trip gas (gas unit)	Surface Losses (bbl)	/0.00
Avg. background gas (gas unit)	Avg H2S Gas (gas unit)	Sub Surface Losses (bbl)	/0.00
Max. background gas (gas unit)	Max H2S Gas (gas unit)	Total Losses	0.00/0.00
		End vol. (bbl)	0.00

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## Bulks Summary

Product	Quantity Onboard	Units	Daily Usage
Diesel	3,479.00	GAL	1,287.00
Other	-13.61	MCF	13.57