

## EP WELLS DAILY OPERATIONS REPORT

Report 22

06/29/2017

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	21.54
Objective	Drill - Wolfcamp B1 Shale	Original Spud Date	04/30/2017	Days Since Spud	17.00
Est. Days	25.00	Contractor	PRECISION		
Work Unit	PRECISION 559	Days To Release			
		Rig Phone/FAX No.			

## Well Status

Supervisor	DENNIS JOHNSON	Measured Depth(ft)	19,615.00
Engineer	YERMEK TYNYSHBAYEV	TVD(ft)	11,698.50
Other Supervisor	ASHLEY HRIVNAK, THERON KNIGHT	24 Hr Progress(ft)	0.00
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	1,975,454/2,664,436.41	Current MW / BH EMW(ppg)	13.80/
Actual divided by AFE	0.74	LOT/FIT EMW(ppg)	
Daily Cost	89,217	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> PS barrier bowtie review	10/12/2016	260	TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	
Safety Comments:							
MAN HOURS: 287							

## HSE Drills

Drills/Tests	Date	Days Since Last	JSA's/Toolbox Talks Days Since Last Drill	4
Last Derrick Inspection				
Last BOP function test	06/15/2017	14		
Last BOP Test	06/15/2017	14		
Next BOP Test	07/06/2017			

## Operations Summary

24 Hour Summary
TIH F/ 12,008 T/ 13,359'. CIRCULATED AND WORKED PIPE @ 13,359'. REAMED F/ 13,359' T/ 19,348'.
Update Since Report Time
REAMED T/ 19,615'. CIRCULATED 2 BOTTOMS UP. CURRENTLY WEIGHTING UP T/ 14.0 PPG.
24 Hour Forecast
FINISH WEIGHTING UP T/ 14.0 PPG. POOH. L/D REAMER ASSEMBLY. R/U CASING CREW. RUN 4.5" LINER.

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## Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	1.00	MNH1	WTR		19,615.00	1		NPT: TIH F/ 12,008' T/ 13,359' @ 75'/MIN.
1:00	1.00	MNH1	CDM		19,615.00	1		NPT: CIRCULATE AND WORK PIPE. PUMP @ 70 STROKES/MIN. CIRCULATE @ 13,359'.
2:00	0.50	MNH1	WTR		19,615.00	1		NPT: REBOOT PASON.
2:30	3.50	MNH1	WTR		19,615.00	1		NPT: REAMING F/ 13,359' T/ 14,250' @ 80 RPM.
6:00	10.00	MNH1	WTR		19,615.00	1		NPT: REAMING F/ 14,250' T/ 17,148' @ 80 RPM.
16:00	1.50	MNH1	CDM		19,615.00	1		NPT: CIRCULATE 4,200 UNITS OF GAS.
17:30	0.50	MNH1	SVC		19,615.00	1		NPT: RIG SERVICE.
18:00	6.00	MNH1	WTR		19,615.00	1		NPT: REAMING F/ 17,148' T/ 19,348' @ 80 RPM.
<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 (%)	55.50/16.00	POM (cc)	
MD (ft)	19,615.00	TS/HGS/LGS (%)	27.00//	CaCl2 (%)	
Mud Density (ppg)	13.80	Sand (%)	0.20	Caom/Clom (ppm)	
Vis (s/qt)	70.00	Oil/Water Ratio (%)	77.60/22.40	ACT	
PV/YP (cp/lbf/100ft²)	29.00/13.000			XS Lime(lbm/bbl)	1.29
Gels 10 s/m (lbf/100ft²)	9.000/18.000	LCM (lbm/bbl)		ES (Volts)	400.0
API/HTHP WL (cc/30min)	0.0/	ECD (ppg)	13.800	R600/300 (°)	
FC/HTHP FC (32nd")	0.0/5.0	H2S (gas unit)		R200/100 (°)	
WPS (ppm)	231,235	KCl (%)		R6/3 (°)	
FL temp. (°F)		Ditch Magnet in Last 24hrs/Cum. (gm)			

## Remarks

DIESEL ON LOCATION: 10,723 GAL  
DIESEL DELIVERED: 0 GAL  
DIESEL USED: 3,262 GAL  
LNG USED: 444.46 GAL