

## EP WELLS DAILY OPERATIONS REPORT

Report 15

06/22/2017

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	14.54
Objective	Drill - Wolfcamp B1 Shale	Original Spud Date	04/30/2017	Days Since Spud	10.00
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)	11,983.00
Engineer	YERMEK TYNYSHBAYEV	TVD(ft)	11,644.84
Other Supervisor	ASHLEY HRIVNAK	24 Hr Progress(ft)	
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,793.00 / 2,767.00	Hole size(in)	
THF Datum			
Daily NPT(hr/%)	0/0	Last Casing MD	9.625in@4,921.00ft
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	7.000in@11,992.00ft
Actual cost to date/AFE	1,146,703/2,664,436.41	Current MW / BH EMW(ppg)	13.50/
Actual divided by AFE	0.43	LOT/FIT EMW(ppg)	
Daily Cost	69,906	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	253	TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	
Safety Comments:							
MAN HOURS: 287							

## Drills

Drill Category	Drill Type	Detection (sec)	Complete (sec)	Crew drilled	Pass / Fail	PIC	Comments
Well Control Crew	Trip		35.00	Night	Pass		

## HSE Drills

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

## Operations Summary

24 Hour Summary
REPLACED GRABBER BLOCKS & GUIDE. CLEANED PITS. SLIP AND CUT 40' OF DRILL LINE. P/U AND M/U DIRECTIONAL TOOLS. TIH F/ BHA T/ 11,711'. WASHED T/ FLOAT COLLAR. TAGGED @ 11,867'. DRILLED THROUGH FLOAT COLLAR. DRILLED THROUGH SHOE TRACK WHILE DISPLACING T/ 13.5 PPG OBM (TAGGED AT 11,963').
Update Since Report Time
FINISHED DISPLACING W/ 13.5 PPG OBM. DRILLED F/ 11,983' T/ 12,192'.

## EP WELLS DAILY OPERATIONS REPORT

Report 15

06/22/2017

Well UNIVERSITY 19 PW UNIT 1406H  
Wellbore UNIVERSITY 19 PW UNIT 1406H

## 24 Hour Forecast

DRILL AHEAD.

## Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	2.00	MNH1	PUP		11,983.00	0		REPLACE GRABBER BLOCKS & GUIDE. CLEANING PITS
2:00	1.50	MNH1	CUT		11,983.00	0		PJSM. SLIP AND CUT 40' OF DRILL LINE.
3:30	0.50	MNH1	SVC		11,983.00	0		RIG SERVICE.
4:00	2.00	MNH1	PUP		11,983.00	0		CONTINUE R/U AND GETTING READY FOR OBM AND 4" DRILL PIPE.
6:00	1.50	MNH1	PUP		11,983.00	0		INSTALL OPEN TOP UNDER SHAKER SLIDE. INSPECT ALL 4" EQUIPMENT. LOAD 20 JOINTS ON ODS SIDE AND 20 JOINTS ON DS. STRAP SAME.
7:30	1.00	MNH1	BHA		11,983.00	0		P/U AND M/U DIRECTIONAL TOOLS.
8:30	9.50	MNH1	BHA		11,983.00	0		P/U 4" DP F/ BHA T/ 8,800'.
18:00	4.00	MNH1	BHA		11,983.00	0		TIH F/ 8,800' T/ 11,711'.
22:00	0.50	MNH1	BHA		11,983.00	0		WASH T/ FLOAT COLLAR. TAG @ 11,867'. DRILL THROUGH FLOAT COLLAR.
22:30	0.50	MNH1	BHA		11,983.00	0		DOWNLINK MWD.
23:00	1.00	MNH1	BHA		11,983.00	0		DRILL THROUGH SHOE TRACK WHILE DISPLACING T/ 13.5 PPG OBM.
<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
11,735.00	59.26	161.88	11,575.30	13.83	-209.57	-72.09	4.89	PTW MWD+HDGM_2016
11,824.00	69.39	160.65	11,613.81	-62.02	-183.81	7.94	11.45	PTW MWD+HDGM_2016
11,824.00	69.39	160.65	11,613.81	-62.18	-184.64	7.86	11.45	PTW MWD+HDGM_2016
11,913.00	80.64	160.20	11,636.79	-142.89	-155.04	93.63	12.65	PTW MWD+HDGM_2016
11,913.00	80.64	160.20	11,636.79	-143.05	-155.87	93.55	12.65	PTW MWD+HDGM_2016

## Fluid Details

Mud type	Invermul	Oil/Water (%)	20.00/50.00	POM (cc)	2.98 354.0
MD (ft)	11,983.00	TS/HGS/LGS (%)	27.50/13.00/14.5 0	CaCl2 (%)	
Mud Density (ppg)	13.50	Sand (%)		Caom/Clom (ppm)	
Vis (s/qt)	85.00	Oil/Water Ratio (%)	28.60/71.40	ACT	
PV/YP (cp/lbf/100ft²)	34.00/16.000	LCM (lbm/bbl)		XS Lime (lbm/bbl)	
Gels 10 s/m (lbf/100ft²)	9.000/13.000	ECD (ppg)	13.500	ES (Volts)	
API/HTHP WL (cc/30min)	/8.0	H2S (gas unit)		R600/300 (°)	
FC/HTHP FC (32nd")	/2.0	KCl (%)		R200/100 (°)	
WPS (ppm)	268,451	Ditch Magnet in Last 24hrs/Cum. (gm)		R6/3 (°)	
FL temp. (°F)					