EP WELLS DAILY OPERATIONS REPORT

Report 19 09/28/2017

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 19 PW UNIT 1804H
Wellbore	UNIVERSITY 19 PW UNIT 1804H ST01
WBS No/API No	30269397 / 4230133264.01

Event Summary

Event Type	Drilling only	Event Start Date	08/09/2017	Days on Location	19.88
Objective	Drill - Wolfcamp	Original Spud Date	08/10/2017	Days Since Spud	18.13
Est. Days	23.00	Contractor	PRECISION		
Work Unit	PRECISION 563	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	KEVIN BERGERON	Measured Depth(ft)	11,563.00
Engineer	ROBERT HAHN	TVD(ft)	11,454.15
Other Supervisor	ROSS GRAHAM	24 Hr Progress(ft)	203.00
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,788.55 / 2,762.90	Hole size(in)	6.125
THF Datum			
Daily NPT(hr/%)	0/0	Last Casing MD	7.000in@11,261.00ft
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	4.500in@20,210.00ft
Actual cost to date/AFE	1,697,733/2,627,752.00	Current MW / BH EMW(ppg)	13.25/
Actual divided by AFE	0.65	LOT/FIT EMW(ppg)	
Daily Cost	92,824	Lithology	
		Formation/MD Top	

HSE Summary

Last Incident	Date	Days	Last Incident	Date	Days	KPI's	
LWC			PSI			TRCF	
RWC			NII			LWCF	
MTC			HPI			Safety Cards - Safe	
FAC			**GOAL ZERO DAYS**	10/31/2016	332	Safety Card - Unsafe	
Last casing pressure test			**PS BARRIER EVENT**			SSE%	
			PS barrier bowtie review			Last casing pressure(psi)	

Safety Comments:

HSE Drills

Drills/Tests	Date	Days Since Last		
Last Derrick Inspection				
Last BOP function test	09/15/2017	13	JSA's/Toolbox Talks	
Last BOP Test	09/25/2017	3	Days Since Last Drill	19
Next BOP Test	10/16/2017			

Operations Summary

24 Hour Summary

CONTROL DRILL FROM 11360' TO 11400' HOLDING TF 150° LEFT. SLIDE FROM 11400' TO 11563' ROLLING TF TO HIGHSIDE, THEN TO 20-50° RIGHT. HIT MAX KREVS ON BIT.

Update Since Report Time

TOOH AT 2000' TP P/U NEW ROCK BIT.

24 Hour Forecast

TOOH, P/U NEW BIT, DRILL CURVE, TOOH, P/U LATERAL ASSEMBLY.

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Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	1.00	MNH1	TDLU		11,366.00	0		TIME DRILL AT 10 FPH FROM 11360' TO 11366'. TF @ 150° LEFT.
1:00	0.50	MNH1	SVC		11,366.00	0		RIG SERVICE.
1:30	4.50	MNH1	TDLU		11,400.00	0		TIME DRILL AT 10 FPH FROM 11366' TO 11400'. TF @ 150° LEFT.
6:00	6.50	MNH1	DRL		11,454.00	0		SLIDE FROM 11400' TO 11454' (54' @ 8.3 FPH) WOB: 40-45K PRESSURE & FLOW: 3100 PSI @ 200 GPM RPM: SURFACE 0 MOTOR 104 BIT 104 MW: 13.2 PPG MOTOR: 0.52 RPG GAS: BG 50 CG 50 TOOL FACE @ 30° LEFT
12:30	0.50	MNH1	SVC		11,454.00	0		RIG SERVICE.
13:00	11.00	MNH1	DRL		11,563.00	0		SLIDE FROM 11454 TO 11563' (109' @ 10 FPH) WOB: 40-45K PRESSURE & FLOW: 3350 PSI @ 220 GPM RPM: SURFACE 0 MOTOR 115 BIT 115 MW: 13.2 PPG MOTOR: 0.52 RPG GAS: BG 50 CG 50 TOOL FACE @ 20-50° RIGHT
Total	**24.00**							

Deepest 5 Surveys

MD (ft)	Inc. (°)	Azi. (°)	TVD (ft)	N/S (ft)	E/W (ft)	V.Sec (ft)	DLeg (°/100ft)	Tool
11,271.00	18.79	148.29	11,192.66	809.46	170.17	648.48	0.00	PTW MWD_2016
11,315.00	23.16	144.08	11,233.74	796.42	178.97	646.91	10.49	PTW MWD_2016
11,405.00	16.90	114.67	11,318.46	776.56	201.32	651.39	12.97	PTW MWD_2016
11,444.00	23.60	125.00	11,355.04	769.70	212.88	655.89	19.41	PTW MWD_2016
11,495.00	31.84	128.76	11,400.15	755.40	231.77	661.27	16.51	PTW MWD_2016

Fluid Details

Mud type	Invermul	Oil/Water (%)	56.00/18.00	POM (cc)	
MD (ft)	11,483.00	TS/HGS/LGS (%)	24.00/16.60/7.40	CaCl2 (%)	
Mud Density (ppg)	13.25	Sand (%)	0.00	Caom/Clom (ppm)	
Vis (s/qt)	74.00	Oil/Water Ratio (%)	75.70/24.30	ACT	
PV/YP (cp/lbf/100ft²)	26.00/10.000			XS Lime(lbm/bbl)	3.88
Gels 10 s/m (lbf/100ft²)	9.000/11.000	LCM (lbm/bbl)		ES (Volts)	404.0
API/HTHP WL (cc/30min)	/10.0	ECD (ppg)	13.270	R600/300 (°)	
FC/HTHP FC (32nd")	/4.0	H2S (gas unit)		R200/100 (°)	
WPS (ppm)	262,014	KCl (%)		R6/3 (°)	
FL temp. (°F)		Ditch Magnet in Last 24hrs/Cum. (gm)			

Bit Details

Bit no.	Size (in)	Manufacturer	Model no.	Class	IADC code	Serial no.	Size (32nd")	MD in (ft)	MD out (ft)	IADC Dull Grade
6	6.125	BAKER HUGHES	STX-30			5274949	3x16	11,301.00		- - - - - -

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Bit Operations

MD (ft)	WOB Min/Max (kip)	Current RPM (rpm)	Flow rate (gpm)	SPP (psi)	P bit (psi)	% @ Bit	HHP (hp)	Hours (hr)	Footage (ft)	ROP (ft/hr)	Hours cum (hr)	Footage cum. (ft)	ROP cum. (ft/hr)
11,366.00					0.00		0.00	1.00	6.00	6.0	39.00	65.00	1.7
11,400.00					0.00		0.00	4.50	34.00	7.6	43.50	99.00	2.3
11,454.00	40.0/45.0	0	200.0	3,100.00	140.68	4.54	16.41	6.50	54.00	8.3	50.00	153.00	3.1
11,563.00	40.0/45.0	0	220.0	3,350.00	170.22	5.08	21.84	11.00	109.00	9.9	61.00	262.00	4.3

Drillstring Components

Item description	# Jts	Length (ft)	OD (in)	Max OD (in)	ID (in)	Connection Name	Weight (ppf)	Grade	Serial no.
4" DRILL PIPE	298	9,376.28	4.000		3.340	XT-39			RIG
SHOCK SUB/AGITATOR	1	22.35	5.000		2.875	XT-39			W1885763-8
(46 JTS) 4" DRILL PIPE	46	2,057.63	4.812		2.687	XT-39			RIG
CROSSOVER	1	2.94	4.937		2.687	3-1/2 IF			SD112640
FILTER SUB	1	5.95	4.750		2.250	3-1/2 IF			SD117021
NM FC	1	30.29	4.875		2.750	3-1/2 IF			SD53930
ACCUMP	1	27.91	4.750		2.687	3-1/2 IF			C4003
NM PC	1	15.04	4.750		2.312	3-1/2 IF			SD3855
NDS 4.75" MUD MOTOR, LOBES: 7/8, STAGE: 3.8, SET @	1	23.86	4.750			3-1/2 IF			RY37824
BIT #6 RUN #1 6.125" BAKER STX-30 (3X16) SN: 5274949	1	0.75	6.125	6.125		3 -1/2 REG			5274949

Drillstring Details

Date/Time in	Date/Time out	BHA no.	BHA Length (ft)	Min. ID (in)	Purpose
09/26/2017 08:00		6	129.09		DRILL 6.125" PRODUCTION SECTION

MD (ft)	SW Up (kip)	SW Down (kip)	SW Rotn (kip)	Drag (kip)	Tq On Btm (ft-lbf)	Tq Off Btm (ft-lbf)	Footage (ft)
11,366.00				0.00			6.00
11,400.00				0.00			34.00
11,454.00				0.00			54.00
11,563.00				0.00			109.00

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		JJMMC / F-1600	12.00						
2		JJMMC / F-1600	12.00						

Remarks

FUEL ON HAND: 15214 GALS
FUEL USED: 3019 GALS
FUEL RECEIVED: 7500 GAL