EP WELLS DAILY OPERATIONS REPORT

Report 21 09/30/2017

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	21.88
Objective	Drill - Wolfcamp	Original Spud Date	08/10/2017	Days Since Spud	20.13
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)	12,270.00
Engineer	ROBERT HAHN	TVD(ft)	11,971.22
Other Supervisor	ROSS GRAHAM	24 Hr Progress(ft)	707.00
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,788.55 / 2,762.90	Hole size(in)	6.125
THF Datum			
Daily NPT(hr/%)	19.00/79.17	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	1,816,803/2,627,752.00	Current MW / BH EMW(ppg)	/
Actual divided by AFE	0.69	LOT/FIT EMW(ppg)	
Daily Cost	72,137	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	334	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			JSA's/Toolbox Talks	
Last BOP function test	09/15/2017	15	Days Since Last Drill	21
Last BOP Test	09/25/2017	5		
Next BOP Test	10/16/2017			

Operations Summary

24 Hour Summary

TOOH, P/U NEW BHA, TIH, WASH DOWN TO 12010' IN ORIGINAL WELLBORE, DRILL FROM 12010' TO 12270'.

Update Since Report Time

@ 04:30 - DRILLING AHEAD AT 12500'

24 Hour Forecast

DRILL AHEAD IN LATERAL.

EP WELLS DAILY OPERATIONS REPORT

Report 21 09/30/2017

Well UNIVERSITY 19 PW UNIT 1804H
Wellbore UNIVERSITY 19 PW UNIT 1804H ST01

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	2.00	MNH1	TIH		11,563.00	1		TIH FROM 11634' TO 12010'. 20 RPM, 200 GPM, 300 FPH. NO DIFF AND NO TORQUE OVER OFF BOTTOM AMOUNT.
2:00	1.00	MNH1	CBU		11,563.00	1		CBU AND PUMP SLUG.
3:00	2.50	MNH1	TOH		11,563.00	1		TOOH FROM 12010' TO 6701'.
5:30	0.50	MNH1	SVC		11,563.00	1		RIG SERVICE.
6:00	0.50	MNH1	TOH		11,563.00	1		PULL ROTATING HEAD.
6:30	3.00	MNH1	TOH		11,563.00	1		TOOH FROM 6701' TO BHA.
9:30	2.00	MNH1	BHA		11,563.00	1		HANDLE BHA. L/D MOTOR, BIT, AND MWD. P/U NEW MOTOR, BIT, MWD, AND NMFC. SCRIBE.
11:30	0.50	MNH1	SVC		11,563.00	1		RIG SERVICE.
12:00	0.50	MNH1	TIH		11,563.00	1		TIH FROM 118' TO 1650'.
12:30	0.50	MNH1	BHA		11,563.00	1		P/U AGITATOR AND SHOCK SUB. PRESSURE BEFORE = 1250 PSI, AFTER = 1500 PSI.
13:00	3.00	MNH1	TIH		11,563.00	1		TIH FROM 1650' TO 8500'. INSTALLED SECOND SHOCK SUB @ 4640'.
16:00	0.50	MNH1	TIH		11,563.00	1		INSTALL ROTATING HEAD.
16:30	1.50	MNH1	TIH		11,563.00	1		TIH FROM 8500' TO 11729'. ORIENTED AND VERIFIED WE WERE IN ORIGINAL HOLE.
18:00	0.50	MNH1	LDS		11,563.00	1		P/U 4" DP FROM 11729' TO 12000'.
18:30	0.50	MNH1	TIH		11,563.00	1		WASH DOWN FROM 12000' TO 12010'.
19:00	2.50	MNH1	DRL		12,098.00	0		ROTATE FROM 12010' TO 12098' (88' @ 36 FPH) WOB: 5-10K PRESSURE & FLOW: 5100 PSI @ 275 GPM RPM: SURFACE 30 MOTOR 220 BIT 250 TORQUE: ON BOT 8-9K OFF BOT 7K STRING WEIGHT: P/U 200K S/O 140K ROT 170K MW: 13.2 PPG MOTOR: 0.8 RPG GAS: CG 450 BG 450 FLARE: NONE
21:30	1.50	MNH1	DRL		12,180.00	0		ROTATE FROM 12098' TO 12180' (82' @ 55 FPH) WOB: 5-10K PRESSURE & FLOW: 5100 PSI @ 275 GPM RPM: SURFACE 45 MOTOR 220 BIT 265 TORQUE: ON BOT 8-9K OFF BOT 7K STRING WEIGHT: P/U 200K S/O 140K ROT 170K MW: 13.2 PPG MOTOR: 0.8 RPG GAS: CG 450 BG 450 FLARE: NONE
23:00	1.00	MNH1	DRL		12,270.00	0		ROTATE FROM 12180' TO 12270' (90' @ 90 FPH) WOB: 20-25K PRESSURE & FLOW: 5550 PSI @ 275 GPM RPM: SURFACE 70 MOTOR 220 BIT 290 TORQUE: ON BOT 11-12K OFF BOT 7K STRING WEIGHT: P/U 200K S/O 140K ROT 170K MW: 13.2 PPG MOTOR: 0.8 RPG GAS: CG 450 BG 450 FLARE: NONE
Total	**24.00**							

EP WELLS DAILY OPERATIONS REPORT

Report 21 09/30/2017

Well UNIVERSITY 19 PW UNIT 1804H
Wellbore UNIVERSITY 19 PW UNIT 1804H ST01

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
09/26/2017 04:00	SHELL	BH Casing/Liner	11,310.00	TDLU	N			111.00		OPEN

Description: ATTEMPTED TO SIDETRACK WELL DUE TO 7" CASING GETTING STUCK.

Title: SIDETRACK

Total 111.00

Deepest 5 Surveys

MD (ft)	Inc. (°)	Azi. (°)	TVD (ft)	N/S (ft)	E/W (ft)	V.Sec (ft)	DLeg (°/100ft)	Tool
11,315.00	23.16	144.08	11,233.74	796.42	178.97	809.85	10.49	PTW MWD_2016
11,405.00	16.90	114.67	11,318.46	776.56	201.32	798.76	12.97	PTW MWD_2016
11,444.00	23.60	125.00	11,355.04	769.70	212.88	796.24	19.41	PTW MWD_2016
11,495.00	31.84	128.76	11,400.15	755.40	231.77	789.21	16.51	PTW MWD_2016
11,564.00	43.00	135.00	11,454.88	727.27	262.71	773.26	17.06	PTW MWD_2016

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/100ft²)				XS Lime(lbm/bbl)	
Gels 10 s/m (lbf/100ft²)		LCM (lbm/bbl)		ES (Volts)	
API/HTHP WL (cc/30min)		ECD (ppg)		R600/300 (°)	
FC/HTHP FC (32nd")		H2S (gas unit)		R200/100 (°)	
WPS (ppm)		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
7	6.125	BAKER HUGHES	STX-30			5273082	3x18	11,563.00	11,563.00	1-1-NO-A-1-I-NO-BHA

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)

Drillstring Components

Item description	# Jts	Length (ft)	OD (in)	Max OD (in)	ID (in)	Connection Name	Weight (ppf)	Grade	Serial no.
4" DRILL PIPE	285	8,992.23	4.000		3.340	XT-39			RIG
SHOCK SUB/AGITATOR	1	22.35	5.000		2.875	XT-39			W1885763-8
HWDP	12	376.82				XT-39			RIG
(46 JTS) DRILL PIPE	46	2,064.16	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			C4027
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	24.56	4.750			3-1/2 IF			RY475462

EP WELLS DAILY OPERATIONS REPORT

Report 21 09/30/2017

Well UNIVERSITY 19 PW UNIT 1804H
Wellbore UNIVERSITY 19 PW UNIT 1804H ST01

Drillstring Components

Item description	# Jts	Length (ft)	OD (in)	Max OD (in)	ID (in)	Connection Name	Weight (ppf)	Grade	Serial no.
BIT #7 RUN #1 6.125" BAKER STX-30 (3X18) SN: 5273082	1	0.75	6.125	6.125		3 -1/2 REG			5273082

Drillstring Details

Date/Time in	Date/Time out	BHA no.	BHA Length (ft)	Min. ID (in)	Purpose
09/29/2017 08:00	09/30/2017 11:30	7	506.61		DRILL 6.125" PRODUCTION SECTION

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: 12634 GALS
FUEL USED: 1816 GALS
FUEL RECEIVED: 0 GAL