EP WELLS DAILY OPERATIONS REPORT

Report 2 08/10/2017

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 19 PW UNIT 1804H
Wellbore	UNIVERSITY 19 PW UNIT 1804H
WBS No/API No	30267993 / 4230133264.00

Event Summary

Event Type	Drilling only	Event Start Date	08/09/2017	Days on Location	2.00
Objective	Drill - New Well	Original Spud Date	08/10/2017	Days Since Spud	1.00
Est. Days	3.00	Contractor	PRECISION		
Work Unit	PRECISION 826	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	TREY HARGETT	Measured Depth(ft)	3,008.00
Engineer	JESSICA TRAVELER	TVD(ft)	3,000.68
Other Supervisor	DALY MOSBROKER	24 Hr Progress(ft)	2,872.00
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,778.90 / 2,762.90	Hole size(in)	12.250
THF Datum			
Daily NPT(hr/%)	0/0	Last Casing MD	20.000in@136.00ft
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	9.625in@4,500.00ft
Actual cost to date/AFE	22,478/371,955.00	Current MW / BH EMW(ppg)	8.70/
Actual divided by AFE	0.06	LOT/FIT EMW(ppg)	
Daily Cost	16,565	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**	04/04/2017	128	Safety Card - Unsafe	
Last casing pressure test			**PS BARRIER EVENT**			SSE%	
			PS barrier bowtie review			Last casing pressure(psi)	

Safety Comments:

GOAL ZERO DAYS: 130
DAYS SINCE LAST LTI: 130
DAYS SINCE LAST HIPO: 104
DAYS SINCE LAST MTC: 130
MAN HOURS: 379

HSE Drills

Drills/Tests	Date	Days Since Last		
Last Derrick Inspection			JSA's/Toolbox Talks	
Last BOP function test			Days Since Last Drill	1
Last BOP Test				
Next BOP Test				

Operations Summary

24 Hour Summary

NU CONDUCTOR/FLOW LINE, FILL PITS, INSTALL TRIP NIPPLE, PU 12-1/4" BHA, TRIP IN TO 140', DRILL TO 546', INSTALL ROTATING HEAD RUBBER, DRILL F/ 546' TO 906', RIG SERVICE, DRILL F/ 906' TO 3008'
SPUD WELL @ 0430 AM 8/10/2017

Update Since Report Time

0000 TO 0230 - DRILL F/ 3008' TO 3277', 0230 TO 0300 - RIG SERVICE, 0300 TO 0430 - ** REDUCED RATE** MP #2 DOWN, MODULE WASHED OUT, DRILL ON ONE PUMP F/ 3277' TO 3400' (123' AT 82' HR)

24 Hour Forecast

DRILL TO TD AT 4924 TVD, CIRC HOLE CLEAN, TRIP OUT, LD BHA, RU AND RUN 9-5/8" CASING

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Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	2.00	SRF1	RUP		135.00	0		FINISH NU CONDUCTOR/FLOW LINE, INSTALL OVER BOARD LINES AND FRAC TANK TRANSFER HOSES, FILL PITS, INSTALL TRIP NIPPLE
2:00	1.50	SRF1	BHA		135.00	0		MU 1-1/4" BHA, MU DIRECTIONAL TOOLS, APACHE BROKE, USING TONGS TO MU
3:30	1.00	SRF1	CDM		135.00	0		REPAIRED AXIS RESERVE TRANSFER PUMP AND BUILDING SWEEP
4:30	1.50	SRF1	DRL		362.00	0		ROTARY DRILLING / SLIDING F/ 140' T/ 362', (222 FOOTAGE @ 148 FPH) WOB: 18 -20 K RPM: SURFACE 20 MOTOR 100 BIT 120 PSI & FLOW: SPP1133 GPM 600 TORQUE: ON BOTTOM 3- 5K OFF BOTTOM 2 - 3K STRING WEIGHT: UP 66K DOWN 60K ROTATING 62K MW: 8.3PPG MOTOR REVS/GAL: .166
6:00	2.00	SRF1	DRL		546.00	0		ROTARY DRILLING / SLIDING F/ 362' T/ 546', (182 FOOTAGE @ 92 FPH) WOB: 35 -45 K RPM: SURFACE 90 MOTOR 150 BIT 240 PSI & FLOW: SPP 2300 GPM 900 TORQUE: ON BOTTOM 3- 5K OFF BOTTOM 2 - 3K STRING WEIGHT: UP 66K DOWN 60K ROTATING 62K MW: 8.4 PPG MOTOR REVS/GAL: .166
8:00	0.50	SRF1	CDM		546.00	0		INSTALL ROTATING HEAD
8:30	2.00	SRF1	DRL		906.00	0		ROTARY DRILLING / SLIDING F/ 546' T/ 906', (360 FOOTAGE @ 180 FPH) WOB: 35 -45 K RPM: SURFACE 90 MOTOR 150 BIT 240 PSI & FLOW: SPP 2300 GPM 900 TORQUE: ON BOTTOM 3- 5K OFF BOTTOM 2 - 3K STRING WEIGHT: UP 69K DOWN 62K ROTATING 64K MW: 8.4 PPG MOTOR REVS/GAL: .166
10:30	0.50	SRF1	SVC		906.00	0		RIG SERVICE
11:00	7.00	SRF1	DRL		1,935.00	0		ROTARY DRILLING / SLIDING F/ 906' T/ 1935', (1029' FOOTAGE @ 147 FPH) WOB: 45 -50 K RPM: SURFACE 90 MOTOR 150 BIT 240 PSI & FLOW: SPP 2600 GPM 900 TORQUE: ON BOTTOM 15- 17K OFF BOTTOM 2 - 4K STRING WEIGHT: UP 70K DOWN 62K ROTATING 64K MW: 9.8 PPG MOTOR REVS/GAL: .166
18:00	6.00	SRF1	DRL		3,008.00	0		ROTARY DRILLING / SLIDING F/ 1935' T/ 3008', (1073' FOOTAGE @ 178 FPH) WOB: 45 -50 K RPM: SURFACE 90 MOTOR 150 BIT 240 PSI & FLOW: SPP 2600 GPM 900 TORQUE: ON BOTTOM 15- 17K OFF BOTTOM 2 - 4K STRING WEIGHT: UP 70K DOWN 62K ROTATING 64K MW: 9.8 PPG MOTOR REVS/GAL: .166
Total	**24.00**							

06.00 Update

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Description
0:00	3.00	SRF1	DRL		3,260.00	0	ROTARY DRILLING / SLIDING F/ 3008' T/ 3260', (252' FOOTAGE @ 84 FPH) WOB: 45 -50 K

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06.00 Update

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Description
							RPM: SURFACE 90 MOTOR 150 BIT 240 PSI & FLOW: SPP 2600 GPM 900 TORQUE: ON BOTTOM 15- 17K OFF BOTTOM 2 - 4K STRING WEIGHT: UP 70K DOWN 62K ROTATING 64K MW: 9.8 PPG MOTOR REVS/GAL: .166
3:00	0.50	SRF1	SVC		3,260.00	0	RIG SERVICE
3:30		SRF1	DRL		3,260.00	0	** REDUCED RATE**

Deepest 5 Surveys

MD (ft)	Inc. (°)	Azi. (°)	TVD (ft)	N/S (ft)	E/W (ft)	V.Sec (ft)	DLeg (°/100ft)	Tool
16.00	0.00	0.00	16.00	0.00	0.00	0.00	0.00	PTW MWD+HDGM+AXIAL_2016
177.00	1.19	200.24	176.99	-1.57	-0.58	-1.58	0.74	PTW MWD+HDGM+AXIAL_2016
271.00	1.10	180.71	270.97	-3.39	-0.93	-3.41	0.42	PTW MWD+HDGM+AXIAL_2016
364.00	1.57	344.28	363.96	-3.05	-1.28	-3.09	2.84	PTW MWD+HDGM+AXIAL_2016
457.00	4.29	357.21	456.83	1.65	-1.80	1.60	2.99	PTW MWD+HDGM+AXIAL_2016

Fluid Details

Mud type		Oil/Water (%)	0.00/97.50	pH/Pm (cc)	
MD (ft)	700.00	TS/HGS/LGS (%)		Pf/Mf (cc)	
Mud Density (ppg)	8.70	Sand (%)	0.25	Ca+ (ppm)	
Vis (s/qt)	30.00			Cl- (ppm)	
PV/YP (cp/lbf/100ft²)	1.00/3.000	MBT (lbm/bbl)			
Gels 10 s/m (lbf/100ft²)	1.000/1.000	LCM (lbm/bbl)			
API/HTHP WL (cc/30min)		ECD (ppg)	8.730	R600/300 (°)	
FC/HTHP FC (32nd")		H2S (gas unit)		R200/100 (°)	
		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
1	12.250	BAKER OIL TOOL	T606FX			7163140	6x18	136.00		- - - - - -

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)
362.00	18.0/20.0	20	600.0	1,133.00	123.78	10.93	43.32	1.50	222.00	148.0	1.50	222.00	148.0
546.00	35.0/45.0	90	900.0	2,300.00	281.87	12.26	147.98	2.00	182.00	91.0	3.50	404.00	115.4
906.00	35.0/45.0	90	900.0	2,300.00	281.87	12.26	147.98	2.00	360.00	180.0	5.50	764.00	138.9
1,935.00	45.0/50.0	90	900.0	2,600.00	328.84	12.65	172.64	7.00	1,029.00	147.0	12.50	1,793.00	143.4
3,008.00	45.0/50.0	90	900.0	2,600.00	328.84	12.65	172.64	7.00	1,029.00	147.0	19.50	2,822.00	144.7

Drillstring Components

Item description	# Jts	Length (ft)	OD (in)	Max OD (in)	ID (in)	Connection Name	Weight (ppf)	Grade	Serial no.
5" DP	1	2,145.91	5.000		4.276	4 1/2 IF			RIG
12 JTS HWDP	12	375.59	5.000		2.650	4 1/2 IF			RIG
12 JTS DC	12	372.38	7.000		2.650	4 1/2 IF			RIG
X/O SUB	1	2.36	8.010		2.840	6 5/8 REG			DR18158

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Drillstring Components

Item description	# Jts	Length (ft)	OD (in)	Max OD (in)	ID (in)	Connection Name	Weight (ppf)	Grade	Serial no.
FILTER SUB	1	4.01	8.030		3.260	6 5/8 REG			DR34930
8" SHOCK SUB	1	11.46	7.980		2.810	6 5/8 REG			SD900380
SLICK COLLAR NM	1	29.95	8.070		3.240	6 5/8 REG			SL800032
SLICK COLLAR NM	1	29.47	7.890		3.270	6 5/8 REG			NESNM800026
MULESHOE SUB	1	2.73	7.960		2.850	6 5/8 REG			0030
STABILIZER	1	5.35	7.950		3.260	6 5/8 REG			DR28815
Mud Motor 775 NOV 24X 7/8 4.0 1.5 ABH	1	27.29	7.940			6 5/8 REG			24X-775432-PTS
RUN #1 BIT #1 12.25" BAKER T606FX (6X18's) SN: 7163140	1	1.50	12.250	12.250		6 5/8 REG			7163140

Drillstring Details

Date/Time in		Date/Time out		BHA no.	BHA Length (ft)	Min. ID (in)	Purpose
08/10/2017 02:00				1	862.09		DRILL 12.25" SURFACE HOLE
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)**
362.00	66.0	60.00	62.00	4.00	5,000.0	3,000.0	226.00
546.00	66.0	60.00	62.00	4.00	5,000.0	3,000.0	184.00
906.00	66.0	60.00	62.00	4.00	5,000.0	3,000.0	360.00
1,935.00	70.0	62.00	64.00	6.00	17,000.0	4,000.0	1,029.00
3,008.00	70.0	62.00	64.00	6.00	17,000.0	4,000.0	1,073.00

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		BPMMP / BSF-1000 TRIPLEX	12.00						
2		BPMMP / BSF-1000 TRIPLEX	12.00						

Remarks

FUEL ON LOCATION: 6,416 GAL
FUEL USED LAST 24: 2302 GAL
FUEL DELIVERED: 0 GAL