

EP WELLS DAILY OPERATIONS REPORT

Report 2

11/25/2017

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 20 PW UNIT 1003H
Wellbore	UNIVERSITY 20 PW UNIT 1003H
WBS No/API No	30272776 / 4249533892.00

Event Summary

Event Type	Drilling only	Event Start Date	11/15/2017	Days on Location	2.00
Objective	Drill - New Well	Original Spud Date	11/25/2017	Days Since Spud	2.00
Est. Days	3.00	Contractor	PRECISION		
Work Unit	PRECISION 826	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	DALY MOSBROKER	Measured Depth(ft)	2,655.00
Engineer	TREVOR KELLEY	TVD(ft)	2,655.00
Other Supervisor	TANNER MANUEL	24 Hr Progress(ft)	2,519.00
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,808.20 / 2,792.20	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	78,648/450,000.00	Current MW / BH EMW(ppg)	9.10/
Actual divided by AFE	0.17	LOT/FIT EMW(ppg)	
Daily Cost	63,932	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 GOAL ZERO DAYS PS BARRIER EVENT PS barrier bowtie review	04/04/2017	235	TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	
Safety Comments:							
MAN HRS: 246							

HSE Drills

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

Operations Summary

24 Hour Summary
PICK UP & MAKE UP BHA. TAGGED BOTTOM @ 135'. SPUD WELL @ 0400 HRS. ROTATE & SLIDE F/ 135' - T/ 2655'.
Update Since Report Time
ROTATE & SLIDE F/ 2655' - T/ 3230'
24 Hour Forecast
CONTINUE DRILLING SURFACE SECTION TO TD @ 5032'. PUMP SWEEPS. POOH TO 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	0.50	RIGM	RGU		120.00	0		SET TORQUES & SPEEDS FOR NEW P-24.
0:30	1.50	SRF1	RUP		120.00	0		NIPPLE UP CONDUCTOR, FLOW LINE, & KILL LINE.
2:00	0.50	SRF1	RUP		120.00	0		INSTALL TRIP NIPPLE, FILL CONDUCTOR, & PRESSURE TEST SURFACE LINES.
2:30	1.50	SRF1	BHA		120.00	0		PICK UP & MAKE UP BHA. TAGGED BOTTOM @ 135'.
4:00	4.50	SRF1	DRL		553.00	0		SPUD WELL. ROTARY DRILLING F/ 135' TO 553' (418' @ 93 FPH) WOB: ROTATE 25K RPM: SURFACE 70 MOTOR 231 BIT 301 PSI & FLOW: SPP 600 GPM 900 DIFF 600 TORQUE: ON BOTTOM 3K OFF BOTTOM 1K STRING WEIGHT: UP 52K DOWN 45K ROT 47K MW: 8.4 PPG MOTOR REVS/GAL: .253
8:30	1.00	SRF1	DRL		553.00	0		REMOVE TRIP NIPPLE. INSTALL ROTATING HEAD.
9:30	2.50	SRF1	DRL		955.00	0		ROTARY DRILLING F/ 553' TO 955' (402' @ 161 FPH) WOB: ROTATE 25K RPM: SURFACE 70 MOTOR 231 BIT 301 PSI & FLOW: SPP 600 GPM 900 DIFF 900 TORQUE: ON BOTTOM 3K OFF BOTTOM 1K STRING WEIGHT: UP 52K DOWN 45K ROT 47K MW: 8.8 PPG MOTOR REVS/GAL: .253
12:00	6.50	SRF1	DRL		1,894.00	0		ROTARY DRILLING F/ 955' TO 1894' (939' @ 144 FPH) WOB: ROTATE 25K RPM: SURFACE 70 MOTOR 231 BIT 301 PSI & FLOW: SPP 2300 GPM 900 DIFF 900 TORQUE: ON BOTTOM 11K OFF BOTTOM 3K STRING WEIGHT: UP 117K DOWN 103K ROT 110K MW: 9.8 PPG MOTOR REVS/GAL: .253
18:30	1.00	SRF1	DRL		1,914.00	0		SLIDE DRILLING F/ 1894' TO 1914' (20' @ 144 FPH) WOB: ROTATE 15K RPM: MOTOR 231 BIT 231 PSI & FLOW: SPP 2300 GPM 900 DIFF 200 STRING WEIGHT: UP 117K DOWN 103K MW: 9.8 PPG MOTOR REVS/GAL: .253
19:30	4.50	SRF1	DRL		2,655.00	0		ROTARY DRILLING F/ 1914' TO 2655' (741' @ 165 FPH) WOB: ROTATE 25K RPM: SURFACE 70 MOTOR 231 BIT 301 PSI & FLOW: SPP 2300 GPM 900 DIFF 900 TORQUE: ON BOTTOM 11K OFF BOTTOM 3K STRING WEIGHT: UP 117K DOWN 103K ROT 110K MW: 9.8 PPG MOTOR REVS/GAL: .253
Total	24.00							

Fluid Details

Mud type	Fresh Water	Oil/Water (%)		pH/Pm (cc)	8.00/0.20
MD (ft)	1,000.00	TS/HGS/LGS (%)	0.50/0.10/0.30	Pf/Mf (cc)	0.10/0.20
Mud Density (ppg)	9.10	Sand (%)	0.20	Ca+ (ppm)	
Vis (s/qt)	30.00			Cl- (ppm)	75,000
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)	100.0/	ECD (ppg)	9.100	R600/300 (°)	
FC/HTHP FC (32nd")		H2S (gas unit)		R200/100 (°)	
		KCl (%)		R6/3 (°)	
FL temp. (°F)		Ditch Magnet in Last 24hrs/Cum. (gm)			

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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 HUGHES	D606X			5278225	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)
553.00	25.0/25.0	70	900.0	600.00	281.87	46.98	147.98	4.50	418.00	92.9	4.50	418.00	92.9
955.00	25.0/25.0	70	900.0	600.00	295.29	49.21	155.03	2.50	402.00	160.8	7.00	820.00	117.1
1,894.00	25.0/25.0	70	900.0	2,300.00	328.84	14.30	172.64	6.50	939.00	144.5	20.00	2,698.00	134.9
1,914.00	15.0/15.0	0	900.0	2,300.00	328.84	14.30	172.64	1.00	20.00	20.0	21.00	2,718.00	129.4
2,655.00	25.0/25.0	70	900.0	2,300.00	328.84	14.30	172.64	4.50	741.00	164.7	19.00	2,520.00	132.6

Drillstring Components

Item description	# Jts	Length (ft)	OD (in)	Max OD (in)	ID (in)	Connection Name	Weight (ppf)	Grade	Serial no.
5" DRILL PIPE	1	1,786.30	5.000		4.276	4 1/2 IF			RIG
HWDP	12	377.01	5.000		2.750	4 1/2 IF			RIG
DRILL COLLARS	12	371.94	7.000		2.813	4 1/2 IF			RIG
CROSSOVER	1	3.62	8.320		2.810	4 1/2 IF			DR22165
FILTER SUB	1	4.03	8.050		3.270	6 5/8 REG			DR34937
8" SHOCK SUB	1	10.95	7.970		2.970	6 5/8 REG			SD900537
SLICK NON-MAG DRILL COLLAR	1	29.64	8.330		3.260	6 5/8 REG			NESNM800105
SLICK NON-MAG DRILL COLLAR	1	29.62	8.320		328.000	6 5/8 REG			SL800025
ORIENTING SUB	1	2.91	7.990		304.000	6 5/8 REG			Q800052
NON-MAG STABILIZER W/FLOAT	1	7.90	8.290		2.850	6 5/8 REG			DR33629
Mud Motor 775" 4/5 Lobe 5.3 Stage @ 1.5 ABH w/12" Stab	1	29.78	8.020			6 5/8 REG			
BIT #1 RUN #1 12.25" BAKER D606X (6X18's) SN: 5278225	1	1.30	12.250	12.250		6 5/8 REG			5278225

Drillstring Details

Date/Time in		Date/Time out		BHA no.	BHA Length (ft)	Min. ID (in)	Purpose
11/25/2017 02:30				1	868.70		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)
553.00	52.0	45.00	47.00	5.00	3,000.0	1,000.0	417.00
995.00	52.0	45.00	47.00	5.00	3,000.0	1,000.0	442.00
1,894.00	117.0	103.00	110.00	7.00	11,000.0	3,000.0	899.00
1,914.00	117.0	103.00	0.00	117.00	0.0	0.0	20.00
2,655.00	117.0	103.00	110.00	7.00	11,000.0	3,000.0	741.00

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

DIESEL ON LOCATION:
DIESEL USED:
DIESEL DELIVERED: 7744