EP WELLS DAILY OPERATIONS REPORT

Report 11 09/20/2017

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 19 PW UNIT 1804H
Wellbore	UNIVERSITY 19 PW UNIT 1804H
WBS No/API No	30269397 / 4230133264.00

Event Summary

Event Type	Drilling only	Event Start Date	08/09/2017	Days on Location	10.88
Objective	Drill - New Well	Original Spud Date	08/10/2017	Days Since Spud	9.13
Est. Days	23.00	Contractor	PRECISION		
Work Unit	PRECISION 563	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	THOMAS DOWNES	Measured Depth(ft)	11,576.00
Engineer	ROBERT HAHN	TVD(ft)	11,453.67
Other Supervisor	JAMES WHITTINGTON	24 Hr Progress(ft)	696.00
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,788.55 / 2,762.90	Hole size(in)	8.750
THF Datum			
Daily NPT(hr/%)	0/0	Last Casing MD	9.625in@4,952.00ft
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	7.000in@12,009.00ft
Actual cost to date/AFE	886,385/3,161,561.00	Current MW / BH EMW(ppg)	9.65/
Actual divided by AFE	0.28	LOT/FIT EMW(ppg)	
Daily Cost	36,249	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	5
FAC			**GOAL ZERO DAYS**	10/31/2016	324	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	4
Last BOP function test	09/15/2017	5	Days Since Last Drill	10
Last BOP Test	09/06/2017	14		
Next BOP Test	09/20/2017			

Operations Summary

24 Hour Summary

CONTINUE TO DRILL FROM 10,880 TO 11,576' SLIDING AND WORKING TIGHT HOLE BUILDING CURVE.

Update Since Report Time

CONTINUE TO DRILL FROM 11,576' TO 11,679' SLIDING AND BUILDING CURVE, (LOW YEILD ON SLIDES) POOH FOR BIT AND MOTOR.

24 Hour Forecast

CONTINUE TO DRILL FROM 11,576' 11,679' SLIDING AND BUILDING CURVE. POOH AND C/O BIT AND MOTOR.

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Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	6.50	INT1	DRL		11,100.00	0		DRILL ROTATING FROM 10,880' TO 11,100'. 220' @ 34'/HR WOB: 20, 2,944PSI @ 550 GPM 20 RPM, 270 MOTOR RPM, 290 BIT RPM TORQUE O/B: 17K OFF/B 15K STRING WEIGHT: P/U 350, S/O 200, ROT 255 MW@ 9.6 MOTOR @ .49 GAS: CG-7,525, BG-1,800
6:30	2.00	INT1	DRL		11,147.00	0		DRILL SLIDING FROM 11,100' TO 11,147'. 47' @ 24'/HR WOB: 32, 3,000PSI @ 600 GPM 0 RPM, 173 MOTOR RPM, 173 BIT RPM. STRING WEIGHT: P/U 350, S/O 220, ROT 265 MW @ 9.6 MOTOR @ .288 GAS: CG-1525, BG-103
8:30	2.00	INT1	CDM		11,147.00	0		CIRCULATE AND WORK PIPE THROUGH TIGHT HOLE. PUMP SWEEP.
10:30	3.00	INT1	DRL		11,323.00	0		DRILL SLIDING FROM 11,147' TO 11,323'. 176' @ 59'/HR WOB: 32, 3,000PSI @ 600 GPM 0 RPM, 173 MOTOR RPM, 173 BIT RPM. STRING WEIGHT: P/U 350, S/O 220, ROT 265 MW @ 9.6 MOTOR @ .288 GAS: CG-1525, BG-103
13:30	3.00	INT1	CDM		11,323.00	0		CIRCULATE AND WORK PIPE THROUGH TIGHT HOLE. PUMP SWEEP.
16:30	1.00	INT1	DRL		11,413.00	0		DRILL SLIDING FROM 11,323' TO 11,413 '. 90' @ 90'/HR WOB: 32, 3,000PSI @ 600 GPM 0 RPM, 173 MOTOR RPM, 173 BIT RPM. STRING WEIGHT: P/U 350, S/O 220, ROT 265 MW @ 9.6 MOTOR @ .288 GAS: CG-1525, BG-1103
17:30	0.50	INT1	SVC		11,413.00	0		SERVICE TOP DRIVE AND RIG.
18:00	3.50	INT1	DRL		11,501.00	0		DRILL SLIDING FROM 11,413' TO 11,501 '. 88' @ 25'/HR WOB: 32, 3,000PSI @ 600 GPM 0 RPM, 173 MOTOR RPM, 173 BIT RPM. STRING WEIGHT: P/U 350, S/O 220, ROT 265 MW @ 9.6 MOTOR @ .288 GAS: CG-1725, BG-1103
21:30	0.50	INT1	SVC		11,501.00	0		SERVICE TOP DRIVE AND RIG.
22:00	2.00	INT1	DRL		11,576.00	0		DRILL SLIDING FROM 11,501' TO 11,576 '. 75' @ 38'/HR WOB: 32, 3,350PSI @ 600 GPM 0 RPM, 173 MOTOR RPM, 173 BIT RPM. STRING WEIGHT: P/U 350, S/O 220, ROT 265 MW @ 9.6 MOTOR @ .288 GAS: CG-1925, BG-1103
Total	**24.00**							

Deepest 5 Surveys

MD (ft)	Inc. (°)	Azi. (°)	TVD (ft)	N/S (ft)	E/W (ft)	V.Sec (ft)	DLeg (°/100ft)	Tool
11,190.65	10.45	159.52	11,114.97	827.33	160.79	665.17	9.98	PTW MWD+HDGM_2016
11,280.65	19.82	147.57	11,201.77	806.76	171.86	659.98	10.92	PTW MWD+HDGM_2016
11,369.65	27.59	142.83	11,283.20	777.55	192.44	656.28	8.98	PTW MWD+HDGM_2016
11,459.65	33.17	142.95	11,360.81	741.27	219.88	653.10	6.20	PTW MWD+HDGM_2016
11,548.65	39.02	144.76	11,432.70	698.91	250.75	648.50	6.68	PTW MWD+HDGM_2016

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Fluid Details

Mud type	NaCl Brine	Oil/Water (%)	0.00/92.00	pH/Pm (cc)	9.50/0.30
MD (ft)	11,323.00	TS/HGS/LGS (%)	1.70//	Pf/Mf (cc)	0.10/0.20
Mud Density (ppg)	9.65	Sand (%)	0.00	Ca+ (ppm)	
Vis (s/qt)	31.00			Cl- (ppm)	110,000
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)	9.900	R600/300 (°)	
FC/HTHP FC (32nd")	1.0/	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
4	8.750	HALLIBURTON	MMD64C			12890318	5x18	10,864.00		- - - - - -

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)
11,100.00	20.0/20.0	20	550.0	2,944.00	174.14	5.92	55.87	6.50	220.00	33.8	7.50	236.00	31.5
11,147.00	32.0/32.0	0	600.0	3,000.00	207.24	6.91	72.53	2.00	47.00	23.5	9.50	283.00	29.8
11,323.00	32.0/32.0	0	600.0	3,000.00	207.24	6.91	72.53	3.00	176.00	58.7	12.50	459.00	36.7
11,413.00	32.0/32.0	0	600.0	3,000.00	207.24	6.91	72.53	1.00	90.00	90.0	13.50	549.00	40.7
11,501.00	32.0/32.0	0	600.0	3,000.00	207.24	6.91	72.53	3.50	88.00	25.1	17.00	637.00	37.5
11,576.00	32.0/32.0	0	600.0	3,350.00	207.24	6.19	72.53	2.00	75.00	37.5	19.00	712.00	37.5

Drillstring Components

Item description	# Jts	Length (ft)	OD (in)	Max OD (in)	ID (in)	Connection Name	Weight (ppf)	Grade	Serial no.
5" DRILL PIPE	265	9,014.21	5.000		4.276	4 1/2 IF			RIG
SHOCK SUB/AGITATOR	1	23.83	6.812		2.500	4 1/2 IF			23659
(12 JTS) 5" HWDP	12	375.50	5.000		3.000	4 1/2 IF			RIG
(46 JTS) 5" DRILL PIPE	46	2,057.63	5.000		3.000	4 1/2 IF			RIG
FILTER SUB	1	5.95	6.875		2.812	4-1/2 IF			SD117031
NON-MAG FLEX COLLAR	1	30.28	6.750		3.250	4-1/2 IF			551326
ACCUMP	1	28.64	6.750		2.875	4-1/2 IF			C4016
NON-MAG PONY COLLAR	1	12.32	6.812		2.875	4-1/2 IF			SD53143
6.75" NDS MUD MOTOR, LOBES: 4/5, STAGE: 7, FBH @	1	26.79	6.750			4-1/2 IF			RY675111
BIT #4 RUN #1 8.75" SECURITY MMD64C (5x18) SN: 12890318	1	0.85	8.750	8.750		4 -1/2 REG			12890318

Drillstring Details

Date/Time in		Date/Time out		BHA no.	BHA Length (ft)	Min. ID (in)	Purpose
09/19/2017 16:00				4	504.16		DRILL 8.75" CURVE 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)**
11,100.00	350.0	200.00	255.00	95.00	17,000.0	15,000.0	220.00
11,147.00	350.0	220.00	0.00	350.00	0.0	0.0	47.00
11,323.00	350.0	220.00	0.00	350.00	0.0	0.0	176.00
11,413.00	350.0	220.00	0.00	350.00	0.0	0.0	90.00
11,501.00	350.0	220.00	0.00	350.00	0.0	0.0	88.00
11,576.00	350.0	220.00	0.00	350.00	0.0	0.0	75.00

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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: 13,047 GAL
FUEL USED: 2,167 GAL
FUEL DELIVERED: 0 GAL