EP WELLS DAILY OPERATIONS REPORT

Report 6 05/15/2017

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 19 PW UNIT 1407H
Wellbore	UNIVERSITY 19 PW UNIT 1407H
WBS No/API No	30264950 / 4230133203

Event Summary

Event Type	Drilling only	Event Start Date	04/28/2017	Days on Location	6.00
Objective	Drill - Wolfcamp B1 Shale	Original Spud Date	05/11/2017	Days Since Spud	4.96
Est. Days	25.00	Contractor	PRECISION		
Work Unit	PRECISION 559	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	DENNIS MORGAN	Measured Depth(ft)	8,426.00
Engineer	YERMEK TYNYSHBAYEV	TVD(ft)	8,375.69
Other Supervisor	TANNER MANUEL / YU LIU	24 Hr Progress(ft)	2,326.00
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,792.70 / 2,766.70	Hole size(in)	8.750
THF Datum			
Daily NPT(hr/%)	2.00/8.33	Last Casing MD	9.625in@4,972.00ft
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	7.000in@
Actual cost to date/AFE	432,891/2,726,365.58	Current MW / BH EMW(ppg)	9.40/
Actual divided by AFE	0.16	LOT/FIT EMW(ppg)	
Daily Cost	41,848	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**	10/12/2016	215	Safety Card - Unsafe	
Last casing pressure test			**PS BARRIER EVENT**			SSE%	
			PS barrier bowtie review			Last casing pressure(psi)	

Safety Comments:

MAN HRS: 237

Drills

Drill Category	Drill Type	Detection (sec)	Complete (sec)	Crew drilled	Pass / Fail	PIC	Comments
Well Control Crew	BOP		41.00	Day	Pass	DENNIS MORGAN	

HSE Drills

Drills/Tests	Date	Days Since Last		
Last Derrick Inspection			JSA's/Toolbox Talks	
Last BOP function test	05/14/2017	1	Days Since Last Drill	5
Last BOP Test	05/14/2017	1		
Next BOP Test	06/04/2017			

Operations Summary

24 Hour Summary

ROTATE DRILL F/ 6100' - T/8426'. TRIP DUE TO REDUCTION IN ROP & TORQUE. POOH F/ 8426' - T/ 3257'.

Update Since Report Time

POOH T/ BHA. RACK BACK BHA. L/D MOTOR & BIT. P/U NEW MOTOR & BIT.

24 Hour Forecast

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RIH W/ NEW BIT & MOTOR. CONTINUE DRILLING INTERMEDIATE SECTION.

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	5.50	INT1	DRL		7,303.00	0		ROTATE DRILL F/ 6100' - T/ 7303' (1203' @ 218.7 FT/HR) RPM SURFACE 80 MOTOR 186 BIT 266 WOB 45 K SPP 3175 PSI GPM 688 TORQUE ON BTM 14-16 K TORQUE OFF BTM 5 K P/U 230 K S/O 195 K ROT 215 K MUD 9.4 PPG MOTOR REV: .27 GAS: 40 UNITS
5:30	0.50	INT1	SVC		7,303.00	0		RIG SERVICE: SERVICE TOP DRIVE, BLOCKS
6:00	10.00	INT1	DRL		8,149.00	0		ROTATE DRILL F/ 7303' - T/ 8149' (846' @ 84.6 FT/HR) RPM SURFACE 20 MOTOR 186 BIT 206 WOB 40 K SPP 3175 PSI GPM 688 TORQUE ON BTM 5-11 K TORQUE OFF BTM 3-5 K P/U 250 K S/O 150 K ROT 226 K MUD 9.4 PPG MOTOR REV: .27 GAS: 180 UNITS
16:00	0.50	INT1	SVC		8,149.00	0		RIG SERVICE: GREASE TOP DRIVE, BLOCKS, DRAWWORKS.
16:30	5.00	INT1	DRL		8,426.00	0		ROTATE DRILL F/ 8149' - T/ 8426' (277' @ 55.4 FT/HR) RPM SURFACE 20 MOTOR 186 BIT 206 WOB 40 K SPP 3275 PSI GPM 688 TORQUE ON BTM 5-11 K TORQUE OFF BTM 3-5 K P/U 252 K S/O 150 K ROT 236 K MUD 9.4 PPG MOTOR REV: .27 GAS: 180 UNITS
21:30	0.50	INT1	SVC		8,426.00	0		RIG SERVICE: SERVICE TOP DRIVE, BLOCKS
22:00	2.00	INT1	DRL		8,426.00	1		NPT-DECISION MADE TO POOH DUE TO ROP DROP. DOWNLINK MWD TOOL, FLOW CHECK, PUMP SLUG & POOH F/ 8426' - T/3257' (HOLE TAKING PROPER FILL)
Total	**24.00**							

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
05/15/2017 22:00	ULTERRA DRILLING TECHNOLOGIES L P	Drill Bits, Under-Reamers & SWRD	8,426.00	DRL	EN	Bits	0.00	0.00		OPEN

Description: DECISION MADE TO POOH DUE TO ROP DROP

Title: BIT TRIP

Total 0.00 0.00

Deepest 5 Surveys

MD (ft)	Inc. (°)	Azi. (°)	TVD (ft)	N/S (ft)	E/W (ft)	V.Sec (ft)	DLeg (°/100ft)	Tool
7,170.70	0.34	71.60	7,115.75	585.20	488.91	762.55	0.18	PTW MWD_2016
7,349.70	0.18	141.27	7,294.75	585.15	489.59	762.95	0.18	PTW MWD_2016
7,527.70	0.49	139.98	7,472.75	584.35	490.26	762.77	0.17	PTW MWD_2016
7,705.70	0.64	219.66	7,650.74	583.00	490.11	761.64	0.41	PTW MWD_2016
7,883.70	0.67	184.37	7,828.73	581.19	489.40	759.80	0.22	PTW MWD_2016

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Fluid Details

Mud type	NaCl Brine	Oil/Water (%)	0.00/94.00	pH/Pm (cc)	10.00/0.80
MD (ft)	7,818.00	TS/HGS/LGS (%)	3.40//	Pf/Mf (cc)	0.10/0.15
Mud Density (ppg)	9.40	Sand (%)	0.15	Ca+ (ppm)	
Vis (s/qt)	30.00			Cl- (ppm)	48,000
PV/YP (cp/lbf/100ft²)	1.00/3.000	MBT (lbm/bbl)			
Gels 10 s/m (lbf/100ft²)	1.000/2.000	LCM (lbm/bbl)			
API/HTHP WL (cc/30min)	100.0/	ECD (ppg)	9.600	R600/300 (°)	
FC/HTHP FC (32nd")	3.0/	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
2	8.750	ULTERRA	U716M			32731	7x11	4,972.00		- - - - - -

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)
7,303.00	45.0/45.0	80	688.0	3,175.00	970.98	30.58	389.68	5.50	1,203.00	218.7	11.00	2,331.00	211.9
8,149.00	40.0/40.0	20	688.0	3,175.00	970.98	30.58	389.68	10.00	846.00	84.6	21.00	3,177.00	151.3
8,426.00	40.0/40.0	20	688.0	3,275.00	970.98	29.65	389.68	5.00	277.00	55.4	26.00	3,454.00	132.8

Drillstring Components

Item description	# Jts	Length (ft)	OD (in)	Max OD (in)	ID (in)	Connection Name	Weight (ppf)	Grade	Serial no.
DRILL PIPE	238	7,489.76	4.500		3.870	4 1/2 IF			RIG
HWDP	12	374.06	5.000		2.875	4 1/2 IF			RIG
X/O SUB	1	3.45	5.000			4 1/2 IF			RIG
DRILL COLLARS	15	443.71	6.500		2.875	4 1/2 XH			RIG
SCREEN SUB	1	2.63	6.250		3.250	4 1/2 XH			DR21586
STABILIZER	1	6.07	8.500		3.187	4 1/2 XH			DR30857
NMDC	1	28.64	6.280		2.880	4 1/2 XH			NESNM650235
STABILIZER	1	5.23	8.500		2.810	4 1/2 XH			DR28753
GAP SUB	1	3.56	6.600		4.500	4 1/2 IF			VG650082PTS
650 CENTRALIZER COLLAR VELOSCITY	1	8.53	6.680			4 1/2 IF			VC650077
650 LANDING SUB VELOCITY	1	3.52	6.630			4 1/2 IF			VL650116
650 X/O SUB VELOCITY	1	1.56	6.500			4 1/2 XH			VX650010
NMPC	1	13.47	6.500		275.000	4 1/2 XH			NESPC650709
STABILIZER	1	4.55	8.500		2.880	4 1/2 XH			DR32107
NM X/O	1	2.78	6.300		2.875	4 1/2 XH			X650477NM
MUD MOTOR 725 ML PHX	1	33.28	7.470			4 1/2 IF			PHX-725003-PTS
BIT #2 RUN #1 U716M (7X11's) SN: 32731	1	1.20	8.750	8.750		4 1/2 IF			32731

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Drillstring Details

Date/Time in		Date/Time out		BHA no.	BHA Length (ft)	Min. ID (in)	Purpose
05/14/2017 10:30				2	936.24		DRILL 8.75" INTERMEDIATE HOLE 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)
7,303.00	230.0	195.00	215.00	15.00	16,000.0	5,000.0	1,203.00
8,149.00	250.0	150.00	226.00	24.00	11,000.0	5,000.0	846.00
8,426.00	252.0	150.00	236.00	16.00	11,000.0	5,000.0	277.00

Remarks

DIESEL ON LOCATION: 12574 GAL
DIESEL DELIVERED: 0 GAL
DIESEL USED: 1760 GAL
LNG USED: 853.94 GAL