

EP WELLS DAILY OPERATIONS REPORT

Report 2

05/11/2017

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	2.00
Objective	Drill - Wolfcamp B1 Shale	Original Spud Date		Days Since Spud	1.00
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)	4,600.00
Engineer	YERMEK TYNYSHBAYEV	TVD(ft)	4,550.59
Other Supervisor	TANNER MANUEL / YU LIU	24 Hr Progress(ft)	4,454.00
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,792.70 / 2,766.70	Hole size(in)	12.250
THF Datum			
Daily NPT(hr/%)	0/0	Last Casing MD	
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	
Actual cost to date/AFE	120,993/2,726,365.58	Current MW / BH EMW(ppg)	/
Actual divided by AFE	0.04	LOT/FIT EMW(ppg)	
Daily Cost	37,582	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	10/12/2016	211	TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	
Safety Comments:							
MAN HRS: 247							

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
SPUD WELL @ 01:00HRS. DRILL F/ 129' - T/ 4,600'.
Update Since Report Time
TD WELL (4,972') @ 03:00 HRS. PUMPED CALIPER SWEEP. 7800 TOTAL STKS, 1200 STKS OVER, 21% WASHOUT.
24 Hour Forecast
POOH. L/D DIRECTIONAL TOOLS. RIH WITH 9-5/8" CASING. CEMENT WELL. N/U & TEST BOPS.

EP WELLS DAILY OPERATIONS REPORT

Report 2

05/11/2017

Well UNIVERSITY 19 PW UNIT 1407H
Wellbore UNIVERSITY 19 PW UNIT 1407H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	1.00	SRF1	BHA		139.00	0		PJSM TO P/U BHA. P/U BHA #1 (BAKER HUGHES SN: 7163429 PDC).
1:00	4.50	SRF1	DRL		1,218.00	0		SPUD WELL @ 0100HRS. TAGGED @ 139'. ROTATE DRILL F/ 129' - T/ 1218' (1089' @ 242 FT/HR) RPM SURFACE 90 MOTOR 225 BIT 315 WOB 20-25 K SPP 2800 PSI GPM 888 TORQUE ON BTM 14 K TORQUE OFF BTM 5 K P/U 160 K S/O 150 K ROT 160 K MUD 8.6 PPG MOTOR REV: .253
5:30	0.50	SRF1	DRL		1,218.00	0		INSTALL ROTATING HEAD.
6:00	10.00	SRF1	DRL		3,354.00	0		ROTATE DRILL F/ 1218' - T/ 3354' (2136' @ 213.6 FT/HR) RPM SURFACE 90 MOTOR 210 BIT 300 WOB 35 K SPP 2800 PSI GPM 830 TORQUE ON BTM 16 K TORQUE OFF BTM 5 K P/U 160 K S/O 150 K ROT 160 K MUD 9.9 PPG MOTOR REV: .253
16:00	0.50	SRF1	DRL		3,354.00	0		RIG SERVICE: GREASE TOP DRIVE, DRAW WORKS, & ROTARY.
16:30	1.50	SRF1	DRL		3,621.00	0		ROTATE DRILL F/ 3354' - T/ 3621' (267' @ 178 FT/HR) RPM SURFACE 90 MOTOR 210 BIT 300 WOB 35 K SPP 2800 PSI GPM 830 TORQUE ON BTM 16 K TORQUE OFF BTM 5 K P/U 160 K S/O 150 K ROT 160 K MUD 9.9 PPG MOTOR REV: .253
18:00	6.00	SRF1	DRL		4,600.00	0		ROTATE DRILL F/ 3621' - T/ 4600' (979' @ 163.2 FT/HR) RPM SURFACE 90 MOTOR 192 BIT 282 WOB 35-45 K SPP 2800 PSI GPM 760 TORQUE ON BTM 16 K TORQUE OFF BTM 5 K P/U 192 K S/O 172 K ROT 182 K MUD 9.9 PPG MOTOR REV: .253
Total	24.00							

Deepest 5 Surveys

MD (ft)	Inc. (°)	Azi. (°)	TVD (ft)	N/S (ft)	E/W (ft)	V.Sec (ft)	DLeg (°/100ft)	Tool
4,147.70	7.34	42.76	4,101.21	453.82	350.84	573.55	0.10	PTW MWD_2016
4,237.70	6.87	40.80	4,190.51	462.11	358.26	584.67	0.59	PTW MWD_2016
4,326.70	6.43	39.83	4,278.92	469.97	364.93	594.97	0.51	PTW MWD_2016
4,415.70	6.30	38.65	4,367.37	477.61	371.17	604.83	0.21	PTW MWD_2016
4,593.70	6.10	43.70	4,544.33	492.07	383.80	624.02	0.33	PTW MWD_2016

Fluid Details

Mud type	Spud Mud	Oil/Water (%)	pH/Pm (cc)
MD (ft)		TS/HGS/LGS (%)	Pf/Mf (cc)
Mud Density (ppg)		Sand (%)	Ca+ (ppm)
Vis (s/qt)			Cl- (ppm)
PV/YP (cp/lbf/100ft²)		MBT (lbm/bbl)	
Gels 10 s/m (lbf/100ft²)		LCM (lbm/bbl)	
API/HTHP WL (cc/30min)		ECD (ppg)	R600/300 (°)
FC/HTHP FC (32nd")		H2S (gas unit)	R200/100 (°)
		KCl (%)	R6/3 (°)
FL temp. (°F)		Ditch Magnet in Last 24hrs/Cum. (gm)	

EP WELLS DAILY OPERATIONS REPORT

Report 2

05/11/2017

Well UNIVERSITY 19 PW UNIT 1407H
Wellbore UNIVERSITY 19 PW UNIT 1407H

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	PDC			7163429	1x16, 1x14, 4x15	146.00		-----

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)

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	3,558.99	5.000		4.276	4 1/2 IF			RIG
HWDP	12	374.06	5.000		2.875	4 1/2 IF			RIG
4 1/2 XH Pin x 4 1/2IF Box	1	3.45	5.000			4 1/2 IF			RIG
DRILL COLLAR	18	533.24	6.500		2.875	4 1/2 XH			RIG
6 5/8 REG Pin x 4 1/2 XH Box	1	3.33	7.690		2.810	4 1/2 XH			DR5868
SCREEN SUB	1	2.67	7.875		3.250	6 5/8 REG			DR22548
STABILIZER	1	7.99	8.062		2.875	6 5/8 REG			DR32990
SLICK COLLAR NONMAG 8In. 6 5/8 REG. PIN X BOX 3.25In. ID	1	29.11	7.938		2.938	6 5/8 REG			NESNM800117
STABILIZER	1	6.17	7.875		2.875	6 5/8 REG			DR11567
800 GAP SUB ASSY COMPLETE VELOCITY	1	3.57	8.000		5.250	6 5/8 REG			VG800025PTS
800 CENTRALIZER COLLAR ASSY VELOCITY	1	8.54	8.000		0.050	6 5/8 FH			VC8000027
800 LANDING SUB ASSY VELOCITY	1	3.75	8.000		4.850	6 5/8 FH			VL800027
650 CROSSOVER SUB VELOCITY	1	1.40	8.000		3.250	6 5/8 REG			VX800021
PONY SLICK COLLAR NONMAG 8In. 6 5/8 REG PIN x BOX SN:	1	15.20	8.000		2.875	6 5/8 REG			NESPC800135
SHOCK SUB	1	11.31	7.938			6 5/8 REG			SD900443
STABILIZER	1	6.03	8.000		2.875	6 5/8 REG			DR29736
8" PHX 4/5 5.3 Stg. ABH @ 1.50° SN: 24X-775481 RPG 0.253	1	29.96	8.000			6 5/8 REG			24X-775481
BIT #1 RUN #1 12.25" BAKER PDC SN: 7162644 1X14. 4X15's	1	1.23	12.250	12.250		6 5/8 REG			7163429

Drillstring Details

Date/Time in	Date/Time out	BHA no.	BHA Length (ft)	Min. ID (in)	Purpose
05/10/2017 23:00		1	1,041.01		DRILL 12.25" SURFACE HOLE SECTION

Remarks

DIESEL ON LOCATION: 9,044 GAL
DIESEL DELIVERED: 0 GAL
DIESEL USED: 2510 GAL
LNG USED: 850.67 GAL