

EP WELLS DAILY OPERATIONS REPORT

Report 2

01/23/2017

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 19 PW UNIT 1507H
Wellbore	UNIVERSITY 19 PW UNIT 1507H
WBS No/API No	30257940 / 4230133144.00

Event Summary

Event Type	Drilling only	Event Start Date	01/22/2017	Days on Location	1.56
Objective	Drill - New Well	Original Spud Date	01/22/2017	Days Since Spud	
Est. Days	26.00	Contractor	PRECISION		
Work Unit	PRECISION 559	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	DENNIS MORGAN	Measured Depth(ft)	4,246.00
Engineer	YERMEK TYNYSHBAYEV	TVD(ft)	4,226.71
Other Supervisor	TREY HARGETT, YU LIU	24 Hr Progress(ft)	3,566.00
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,769.50 / 2,743.50	Hole size(in)	12.250
THF Datum			
Daily NPT(hr/%)	0/0	Last Casing MD	20.000in@146.00ft
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	9.625in@4,500.00ft
		Current Fluid Density(ppg)	10.00
		LOT/FIT EMW(ppg)	
		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	103	TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	12
Safety Comments:							
MAN HOURS - 278HRS							

HSE Drills

Drills/Tests	Date	Days Since Last		
Last Derrick Inspection			JSA's/Toolbox Talks	6
Last BOP function test			Days Since Last Drill	1
Last BOP Test				
Next BOP Test				

Operations Summary

24 Hour Summary
OFFLINE 2ND STAGE CEMENT ON 1506H, DRILL F/680' T/4246' ON 1507H
Update Since Report Time
DRILL F/4246' T/4745' @4:00AM
24 Hour Forecast
POOH, RUN CSG, SKID TO NEXT WELL

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01/23/2017

Well UNIVERSITY 19 PW UNIT 1507H
Wellbore UNIVERSITY 19 PW UNIT 1507H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Description
0:00	1.50	SRF1	DRL		680.00	0	ROTATE DRILLING F/ 680' T/ 1038' (ROP 358' @ 238 FT/HR) WOB: 35 K - 45 K RPM: SURFACE 90 MOTOR 190 BIT 280 PRESSURE AND FLOW: SPP 3900, GPM 866 TORQUE ON BOTTOM 5-18K OFF BOTTOM 4K STRING WEIGHT: UP 123K DOWN 113K ROTATING 118K MW: 9.8 PPG MOTOR REVS/GAL 0.22 GAS: BG N/A CG N/A FLARE: NONE
1:30	0.50	SRF1	DRL		680.00	0	SLIDE DRILLING F/ 1038' T/ 1073' (ROP 35' @ 70 FT/HR) WOB: 10 K - 22 K RPM: SURFACE 0 MOTOR 190 BIT 190 PRESSURE AND FLOW: SPP 3450, GPM 864 STRING WEIGHT: UP 123K DOWN 113K ROTATING 118K MW: 9.8 PPG MOTOR REVS/GAL 0.22 GAS: BG N/A CG N/A FLARE: NONE
2:00	0.50	SRF1	DRL		680.00	0	ROTATE DRILLING F/ 1073' T/ 1216' (ROP 143' @ 286 FT/HR) WOB: 35 K - 45 K RPM: SURFACE 90 MOTOR 190 BIT 280 PRESSURE AND FLOW: SPP 3900, GPM 866 TORQUE ON BOTTOM 5-18 OFF BOTTOM 4 STRING WEIGHT: UP 123K DOWN 113K ROTATING 118K MW: 9.8 PPG MOTOR REVS/GAL 0.22 GAS: BG N/A CG N/A FLARE: NONE
2:30	0.50	SRF1	DRL		680.00	0	SLIDE DRILLING F/ 1216' T/ 1240' (ROP 24' @ 48 FT/HR) WOB: 20 K - 30 K RPM: SURFACE 0 MOTOR 190 BIT 190 PRESSURE AND FLOW: SPP 3500, GPM 866 STRING WEIGHT: UP 123K DOWN 113K ROTATING 118K MW: PPG MOTOR REVS/GAL 0.22 GAS: BG N/A CG N/A FLARE: NONE
3:00	3.00	SRF1	DRL		680.00	0	ROTATE DRILLING F/ 1240' T/ 1840' (ROP 600' @ 200 FT/HR) WOB: 35 K - 45 K RPM: SURFACE 90 MOTOR 185 BIT 275 PRESSURE AND FLOW: SPP 4100, GPM 844 TORQUE ON BOTTOM 5-18 OFF BOTTOM 4 STRING WEIGHT: UP 143K DOWN 133K ROTATING 137K MW: 9.8 PPG MOTOR REVS/GAL 0.22 GAS: BG N/A CG N/A FLARE: NONE
5:00	0.00	SRF1	CEM		680.00	0	2ND STAGE CEMENT UNIVERSITY 19 UNIT 1506H 05:11 PUMP 50 BBLS SPACE WATER AT 6 BPM, RETURN ESTABLISHED 05:54 SLURRY: PUMP 278 BBLS OF 12.8 PPG CEMENT AT 3.5 BPM BUMPED SLURRY CONSISTING OF 835 SACKS (198.89 BBLS MIX WATER) OF 35:65:4 PREMIUM CLASS C ADDITIVES: () 06:03 STOP AND DROPPED PLUG 06:07 DISPLACEMENT FLUIDS: START DISPLACING WITH 20 BBLS OF WATER AT 6.5 BPM, 75 BBLS OF BRINE AT 3.5BPM

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Wellbore UNIVERSITY 19 PW UNIT 1507H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Description
							RECIEVED 98 BBLS OF CEMENT BACK TO SURFACE BUMPED PLUG W/ 1900 PSI, HOLD 2 MIN, .5 BBLS BACK FULL RETURNS DURING JOBS
6:00	5.00	SRF1	DRL		680.00	0	ROTATE DRILLING F/ 1840' T/ 2820' (ROP 980' @ 196 FT/HR) WOB: 32 K - 35 K RPM: SURFACE 90 MOTOR 185 BIT 275 PRESSURE AND FLOW: SPP 4000, GPM 844 TORQUE ON BOTTOM 12-18 OFF BOTTOM 4 STRING WEIGHT: UP 154K DOWN 133K ROTATING 139K MW: 9.8 PPG MOTOR REVS/GAL 0.22 GAS: BG N/A CG N/A FLARE: NONE
11:00	0.50	SRF1	DRL		680.00	0	SLIDE DRILLING F/ 2820' T/ 2840' (ROP 20' @ 40 FT/HR) WOB: 20K - 25K RPM: SURFACE 0 MOTOR 183 BIT183 PRESSURE AND FLOW: SPP 3600, GPM 831 STRING WEIGHT: UP 154K DOWN 133K ROTATING 139K MW: 9.8 PPG MOTOR REVS/GAL 0.22 GAS: BG N/A CG N/A FLARE: NONE
11:30	0.50	SRF1	DRL		680.00	0	ROTATE DRILLING F/ 2840' T/ 2909' (ROP 69' @ 138 FT/HR) WOB: 32 K - 38 K RPM: SURFACE 90 MOTOR 182 BIT 272 PRESSURE AND FLOW: SPP 4100, GPM 828 TORQUE ON BOTTOM 12-18 OFF BOTTOM 4 STRING WEIGHT: UP 154K DOWN 133K ROTATING 139K MW: 9.8 PPG MOTOR REVS/GAL 0.22 GAS: BG N/A CG N/A FLARE: NONE
12:00	0.50	SRF1	DRL		680.00	0	SLIDE DRILLING F/ 2909' T/ 2934' (ROP 25' @ 50 FT/HR) WOB: 20K - 25K RPM: SURFACE 0 MOTOR 183 BIT183 PRESSURE AND FLOW: SPP 3600, GPM 831 STRING WEIGHT: UP 154K DOWN 133K ROTATING 139K MW: 9.8 PPG MOTOR REVS/GAL 0.22 GAS: BG N/A CG N/A FLARE: NONE
12:30	0.50	SRF1	DRL		680.00	0	ROTATE DRILLING F/ 2934' T/ 2998' (ROP 64' @ 128 FT/HR) WOB: 32 K - 38 K RPM: SURFACE 90 MOTOR 182 BIT 272 PRESSURE AND FLOW: SPP 4100, GPM 828 TORQUE ON BOTTOM 12-18 OFF BOTTOM 4 STRING WEIGHT: UP 154K DOWN 133K ROTATING 139K MW: 9.8 PPG MOTOR REVS/GAL 0.22 GAS: BG N/A CG N/A FLARE: NONE
13:00	0.50	SRF1	DRL		680.00	0	SLIDE DRILLING F/ 2998' T/ 3028' (ROP 30' @60 FT/HR) WOB: 20K - 25K RPM: SURFACE 0 MOTOR 183 BIT183 PRESSURE AND FLOW: SPP 3600, GPM 831 STRING WEIGHT: UP 154K DOWN 133K ROTATING 139K MW: 9.8 PPG MOTOR REVS/GAL 0.22 GAS: BG N/A CG N/A FLARE: NONE
13:30	4.00	SRF1	DRL		680.00	0	ROTATE DRILLING F/ 3028' T/ 3622' (ROP 594' @148 FT/HR) WOB: 35 K - 45 K RPM: SURFACE 90 MOTOR 182 BIT 272 PRESSURE AND FLOW: SPP 4200, GPM 828 TORQUE ON BOTTOM 12-18 OFF BOTTOM 4 STRING WEIGHT: UP 187K DOWN 160K ROTATING 167K MW: 9.8 PPG

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01/23/2017

Well UNIVERSITY 19 PW UNIT 1507H
Wellbore UNIVERSITY 19 PW UNIT 1507H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Description
							MOTOR REVS/GAL 0.22 GAS: BG N/A CG N/A FLARE: NONE
17:30	0.50	SRF1	SVC		680.00	0	RIG SERVICE
18:00	6.00	SRF1	DRL		680.00	0	ROTATE DRILLING F/ 3622' T/4246' (624 ROP @104FT/HR) WOB: 30 K - 40 K RPM: SURFACE 90 MOTOR 178 BIT 268 PRESSURE AND FLOW: SPP 4200, GPM 811 TORQUE ON BOTTOM 8-16 OFF BOTTOM 4 STRING WEIGHT: UP 178K DOWN 168K ROTATING 172K MW: 9.8 PPG MOTOR REVS/GAL 0.22 GAS: BG N/A CG N/A FLARE: NONE
Total	24.00						

Deepest 5 Surveys

MD (ft)	Inc. (°)	Azi. (°)	TVD (ft)	N/S (ft)	E/W (ft)	V.Sec (ft)	DLeg (°/100ft)	Tool
3,466.00	1.57	57.92	3,447.60	-108.01	-250.55	272.80	0.47	PTW MWD_2016
3,644.00	1.91	75.41	3,625.52	-105.97	-245.61	267.46	0.35	PTW MWD_2016
3,823.00	2.53	77.97	3,804.38	-104.39	-238.86	260.66	0.35	PTW MWD_2016
4,001.00	3.50	77.44	3,982.13	-102.39	-229.71	251.50	0.55	PTW MWD_2016
4,179.00	3.31	69.37	4,159.82	-99.40	-219.60	241.05	0.29	PTW MWD_2016

Fluid Details

Mud type	NaCl Brine	Oil/Water (%)	pH/Pm (cc)	8.10/0.00
MD (ft)	3,601.00	TS/HGS/LGS (%)	Pf/Mf (cc)	0.00/0.10
Mud Density (ppg)	10.00	Sand (%)	Ca+ (ppm)	
Vis (s/qt)	10.00		Cl- (ppm)	168,000
PV/YP (cp/lbf/100ft²)	1.00/1.000	MBT (lbm/bbl)		
Gels 10 s/m (lbf/100ft²)	1.000/1.000	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)		

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			7162539	6x15	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)
1,038.00	35.0/45.0	90	866.0	3,900.00	631.34	16.19	318.93	1.50	358.00	238.7	6.50	892.00	137.2
1,073.00	10.0/22.0	0	864.0	3,450.00	628.43	18.22	316.73	0.50	35.00	70.0	7.00	927.00	132.4
1,216.00	35.0/45.0	90	866.0	3,900.00	631.34	16.19	318.93	0.50	866.00	1,732.0	7.50	1,793.00	239.1
1,240.00	20.0/30.0	0	866.0	3,500.00	631.34	18.04	318.93	0.50	24.00	48.0	8.00	1,817.00	227.1
1,840.00	35.0/45.0	90	844.0	4,100.00	599.67	14.63	295.24	3.00	600.00	200.0	11.00	2,417.00	219.7
2,820.00	32.0/35.0	90	844.0	4,000.00	599.67	14.99	295.24	5.00	980.00	196.0	16.00	3,397.00	212.3
2,840.00	20.0/25.0	0	831.0	3,600.00	581.34	16.15	281.81	0.50	20.00	40.0	16.50	3,417.00	207.1
2,934.00	32.0/38.0	90	828.0	4,100.00	577.15	14.08	278.76	0.50	64.00	128.0	17.00	3,481.00	204.8
3,028.00	20.0/25.0	0	831.0	3,600.00	581.34	16.15	281.81	0.50	30.00	60.0	17.50	3,511.00	200.6
3,622.00	35.0/45.0	90	828.0	4,200.00	577.15	13.74	278.76	4.00	594.00	148.5	21.50	4,105.00	190.9
4,246.00	30.0/40.0	90	811.0	4,200.00	564.99	13.45	267.29	6.00	624.00	104.0	27.50	4,729.00	172.0

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Well UNIVERSITY 19 PW UNIT 1507H
Wellbore UNIVERSITY 19 PW UNIT 1507H

Drillstring Components

Item description	# Jts	Length (ft)	OD (in)	Max OD (in)	ID (in)	Connection Name	Weight (ppf)	Grade	Serial no.
HWDP	12	365.53	5.000		2.875	4 1/2 IF			RIG
4 1/2 XH Pin x 4 1/2 IF Box	1	3.45				4 1/2 IF			RIG
DRILL COLLAR	18	548.32	6.500		2.875	4 1/2 XH			RIG
6 5/8 REG Pin x 4 1/2 XH Box	1	2.80				4 1/2 XH			NESXO8000700
SCREEN SUB	1	2.85	7.875		3.250	6 5/8 REG			DR22550
STABILIZER	1	4.32	8.062		2.875	6 5/8 REG			DR29740
SLICK COLLAR NONMAG 8In. 6 5/8 REG. PIN X BOX 3.25In. ID	1	29.71	7.938		2.938	6 5/8 REG			NESNM800030
STABILIZER	1	8.05	7.875		2.875	6 5/8 REG			DR32081
800 GAP SUB ASSY COMPLETE VELOCITY	1	3.57	8.000		5.250	6 5/8 REG			VG800019PTS
800 CENTRALIZER COLLAR ASSY VELOCITY	1	8.53	8.000		0.050	6 5/8 FH			VC800002
800 LANDING SUB ASSY VELOCITY	1	3.75	8.000		4.850	6 5/8 FH			VL800006
650 CROSSOVER SUB VELOCITY	1	1.68	8.000		3.250	6 5/8 REG			VX800024
PONY SLICK COLLAR NONMAG 8In. 6 5/8 REG PIN x BOX SN:	1	14.75	8.000		2.875	6 5/8 REG			NESPC800147
STABILIZER	1	4.76	8.000		2.875	6 5/8 REG			DR9796
8" BAKER 5/6 6.0 Stg. ABH @ 1.80° SN: 12167195 RPG 0.22	1	34.82	8.000			6 5/8 REG			12167195
BIT #1 RUN #1 12.25" BAKER T606FX SN: 7162539 6X15	1	1.45	12.250	12.250		6 5/8 REG			7162539

Drillstring Details

Date/Time in		Date/Time out		BHA no.	BHA Length (ft)	Min. ID (in)	Purpose
01/22/2017 15:30				1	1,038.34		DRILL 12.25" SURFACE 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)
1,038.00	123.0	113.00	118.00	5.00	18,000.0	4,000.0	358.00
1,073.00	123.0	113.00	0.00	123.00	0.0	0.0	35.00
1,216.00	123.0	113.00	118.00	5.00	18,000.0	4,000.0	143.00
1,240.00	123.0	113.00	118.00	5.00	0.0	0.0	24.00
1,840.00	143.0	133.00	137.00	6.00	18,000.0	4,000.0	600.00
2,820.00	154.0	133.00	139.00	15.00	18,000.0	4,000.0	980.00
2,840.00	154.0	133.00	0.00	154.00	0.0	0.0	20.00
2,909.00	154.0	133.00	139.00	15.00	18,000.0	4,000.0	69.00
2,934.00	154.0	133.00	0.00	154.00	0.0	0.0	25.00
2,998.00	154.0	133.00	139.00	15.00	18,000.0	4,000.0	64.00
3,028.00	154.0	133.00	0.00	154.00	0.0	0.0	30.00
3,622.00	187.0	160.00	167.00	20.00	18,000.0	4,000.0	594.00
4,246.00	178.0	168.00	172.00	6.00	16,000.0	4,000.0	624.00

Remarks

DIESEL FUEL ON HAND 11554 GALLONS
DIESEL FUEL USED 2967 GALLONS
DIESEL FUEL DELIVERED 0 GALLONS
CNG USED 33.06 GALLONS

EP WELLS DAILY OPERATIONS REPORT

Report 3

01/24/2017

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 19 PW UNIT 1507H
Wellbore	UNIVERSITY 19 PW UNIT 1507H
WBS No/API No	30257940 / 4230133144.00

Event Summary

Event Type	Drilling only	Event Start Date	01/22/2017	Days on Location	2.56
Objective	Drill - Wolfcamp B1 Shale HZ	Original Spud Date	01/22/2017	Days Since Spud	1.00
Est. Days	26.00	Contractor	PRECISION		
Work Unit	PRECISION 559	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	DENNIS MORGAN	Measured Depth(ft)	4,877.00
Engineer	YERMEK TYNYSHBAYEV	TVD(ft)	4,856.13
Other Supervisor	TREY HARGETT, YU LIU	24 Hr Progress(ft)	631.00
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,769.50 / 2,743.50	Hole size(in)	12.250
THF Datum			
Daily NPT(hr/%)	0/0	Last Casing MD	20.000in@146.00ft
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	9.625in@4,500.00ft
		Current Fluid Density(ppg)	10.00
		LOT/FIT EMW(ppg)	
		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	104	TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	
Safety Comments:							
MAN HOURS - 378 HRS							

HSE Drills

Drills/Tests	Date	Days Since Last	JSA's/Toolbox Talks Days Since Last Drill	2
Last Derrick Inspection Last BOP function test Last BOP Test Next BOP Test				

Operations Summary

24 Hour Summary
DRILL F/4830' T/4877', POOH, R/U CASING CREW, RUN 9.625" CSG
Update Since Report Time
RUN CSG T/ 4,867, PUMPED CASING VOLUME @ 8BPM, L/D LAST CASING JOINT. WALK RIG TO UNIVERSITY 19 UNIT 1508H. NIPPLE UP RISER, AND PREPARE TO SPUD.
24 Hour Forecast
CONDUCT OFFLINE CEMENT ON 1507H, SPUD ON THE 1508H AND DRILL AHEAD

EP WELLS DAILY OPERATIONS REPORT

Report 3

01/24/2017

Well UNIVERSITY 19 PW UNIT 1507H
Wellbore UNIVERSITY 19 PW UNIT 1507H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Description
0:00	6.00	SRF1	DRL		680.00	0	ROTATE DRILLING F/ 4246' T/4830' (584' ROP @97FT/HR) WOB: 30 K - 40 K RPM: SURFACE 90 MOTOR 178 BIT 268 PRESSURE AND FLOW: SPP 4200, GPM 811 TORQUE ON BOTTOM 8-16 OFF BOTTOM 4 STRING WEIGHT: UP 191K DOWN 170K ROTATING 175K MW: 9.8 PPG MOTOR REVS/GAL 0.22 GAS: BG N/A CG N/A FLARE: NONE
6:00	1.50	SRF1	DRL		680.00	0	ROTATE DRILLING F/ 4830' T/4877' (47' ROP @31FT/HR) WOB: 30 K - 40 K RPM: SURFACE 90 MOTOR 178 BIT 268 PRESSURE AND FLOW: SPP 4200, GPM 811 TORQUE ON BOTTOM 8-16 OFF BOTTOM 4 STRING WEIGHT: UP 191K DOWN 170K ROTATING 175K MW: 9.8 PPG MOTOR REVS/GAL 0.22 GAS: BG N/A CG N/A FLARE: NONE
7:30	1.00	SRF1	CBU		680.00	0	CIRCULATE HOLE CLEAN WITH SWEEPS
8:30	1.50	SRF1	TOH		680.00	0	POOH W/DP F/4877' T/670'
10:00	0.50	SRF1	TOH		680.00	0	REMOVE ROTATING HEAD
10:30	0.50	SRF1	TOH		680.00	0	POOH W/COLLARS F/670' T/120'
11:00	0.50	SRF1	BHA		680.00	0	DRILLING EQUIPMENT
11:30	1.50	SRF1	BHA		680.00	0	POOH W/DIRECTIONALS
13:00	0.50	SRF1	TOH		680.00	0	CLEAN RIG FLOOR
13:30	1.00	SRF1	TOH		680.00	0	SAFETY STAND DOWN WITH PRECISION AND SHELL EMPLOYEES
14:30	1.00	SRF1	TOH		680.00	0	N/D CONDUCTOR AND MOVE TO SIDE, REMOVE MOUSEHOLE
15:30	1.50	SRF1	RIC		680.00	0	R/U CASING CREW, SWAP OUT HPU FOR CASING TONGS, PJSM WITH CASING CREW
17:00	7.00	SRF1	CLR		680.00	0	SURFACE CASING RAN 108 JOINTS, 9-5/8" " 40 LB/FT J-55 LTC CASING LANDED AT 4867 FLOAT COLLAR 4780.16 SHOE 48656.38 DV TOOL 1237.96 9 JOINTS OUT *NOTE- NOTIFIED TRRC OF SURFACE CASING RUN AND CEMENT JOB. SPOKE WITH AUDREY OPERATOR #2.
Total	24.00						

Deepest 5 Surveys

MD (ft)	Inc. (°)	Azi. (°)	TVD (ft)	N/S (ft)	E/W (ft)	V.Sec (ft)	DLeg (°/100ft)	Tool
4,714.00	4.69	65.13	4,693.66	-84.41	-188.22	206.28	0.42	PTW MWD+HDGM_2016
4,714.00	4.69	65.13	4,693.66	-84.63	-187.96	206.13	0.42	PTW MWD_2016
4,803.00	4.61	69.91	4,782.36	-81.65	-181.56	199.08	0.44	PTW MWD+HDGM_2016
4,803.00	4.61	69.91	4,782.37	-81.88	-181.30	198.93	0.44	PTW MWD_2016
4,810.00	4.61	69.91	4,789.34	-81.46	-181.03	198.51	0.00	PTW MWD+HDGM_2016

EP WELLS DAILY OPERATIONS REPORT

Report 3

01/24/2017

Well UNIVERSITY 19 PW UNIT 1507H
Wellbore UNIVERSITY 19 PW UNIT 1507H

Fluid Details

Mud type	NaCl Brine	Oil/Water (%)	pH/Pm (cc)	8.10/0.00
MD (ft)	4,877.00	TS/HGS/LGS (%)	Pf/Mf (cc)	0.00/0.15
Mud Density (ppg)	10.00	Sand (%)	Ca+ (ppm)	
Vis (s/qt)	28.00		Cl- (ppm)	174,000
PV/YP (cp/lbf/100ft²)	1.00/1.000	MBT (lbm/bbl)		
Gels 10 s/m (lbf/100ft²)	1.000/1.000	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)		

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			7162539	6x15	146.00	4,877.00	-----

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)
4,830.00	30.0/40.0	90	811.0	4,200.00	553.69	13.18	261.94	6.00	584.00	97.3	39.50	5,897.00	149.3
4,877.00	30.0/40.0	90	811.0	4,200.00	553.69	13.18	261.94	1.50	47.00	31.3	35.00	5,360.00	153.1

Drillstring Components

Item description	# Jts	Length (ft)	OD (in)	Max OD (in)	ID (in)	Connection Name	Weight (ppf)	Grade	Serial no.
HWDP	12	365.53	5.000		2.875	4 1/2 IF			RIG
4 1/2 XH Pin x 4 1/2 IF Box	1	3.45				4 1/2 IF			RIG
DRILL COLLAR	18	548.32	6.500		2.875	4 1/2 XH			RIG
6 5/8 REG Pin x 4 1/2 XH Box	1	2.80				4 1/2 XH			NESXO8000700
SCREEN SUB	1	2.85	7.875		3.250	6 5/8 REG			DR22550
STABILIZER	1	4.32	8.062		2.875	6 5/8 REG			DR29740
SLICK COLLAR NONMAG 8In. 6 5/8 REG. PIN X BOX 3.25In. ID	1	29.71	7.938		2.938	6 5/8 REG			NESNM800030
STABILIZER	1	8.05	7.875		2.875	6 5/8 REG			DR32081
800 GAP SUB ASSY COMPLETE VELOCITY	1	3.57	8.000		5.250	6 5/8 REG			VG800019P TS
800 CENTRALIZER COLLAR ASSY VELOCITY	1	8.53	8.000		0.050	6 5/8 FH			VC8000002
800 LANDING SUB ASSY VELOCITY	1	3.75	8.000		4.850	6 5/8 FH			VL8000006
650 CROSSOVER SUB VELOCITY	1	1.68	8.000		3.250	6 5/8 REG			VX8000024
PONY SLICK COLLAR NONMAG 8In. 6 5/8 REG PIN x BOX SN:	1	14.75	8.000		2.875	6 5/8 REG			NESPC800147
STABILIZER	1	4.76	8.000		2.875	6 5/8 REG			DR9796
8" BAKER 5/6 6.0 Stg. ABH @ 1.80° SN: 12167195 RPG 0.22	1	34.82	8.000			6 5/8 REG			12167195
BIT #1 RUN #1 12.25" BAKER T606FX SN: 7162539 6X15	1	1.45	12.250	12.250		6 5/8 REG			7162539

Drillstring Details

Date/Time in		Date/Time out		BHA no.	BHA Length (ft)	Min. ID (in)	Purpose
01/22/2017 15:30		01/24/2017 13:00		1	1,038.34		DRILL 12.25" SURFACE 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)
4,830.00	191.0	170.00	175.00	16.00	16,000.0	4,000.0	584.00
4,877.00	191.0	170.00	175.00	16.00	16,000.0	4,000.0	47.00

EP WELLS DAILY OPERATIONS REPORT

Report 3 01/24/2017

Well UNIVERSITY 19 PW UNIT 1507H
Wellbore UNIVERSITY 19 PW UNIT 1507H

Remarks

DIESEL FUEL ON HAND 9675 GALLONS
DIESEL FUEL USED 1879 GALLONS
DIEESEL FUEL DELIVERED 0 GALLONS
CNG USED 43.41 GALLONS

EP WELLS DAILY OPERATIONS REPORT

Report 4

01/25/2017

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 19 PW UNIT 1507H
Wellbore	UNIVERSITY 19 PW UNIT 1507H
WBS No/API No	30257940 / 4230133144.00

Event Summary

Event Type	Drilling only	Event Start Date	01/22/2017	Days on Location	3.56
Objective	Drill - Wolfcamp B1 Shale HZ	Original Spud Date	01/22/2017	Days Since Spud	2.00
Est. Days	26.00	Contractor	PRECISION		
Work Unit	PRECISION 559	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	DENNIS MORGAN	Measured Depth(ft)	4,877.00
Engineer	YERMEK TYNYSHBAYEV	TVD(ft)	4,856.13
Other Supervisor	TREY HARGETT, YU LIU	24 Hr Progress(ft)	
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,769.50 / 2,743.50	Hole size(in)	12.250
THF Datum			
Daily NPT(hr/%)	0/0	Last Casing MD	20.000in@146.00ft
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	9.625in@4,500.00ft
		Current Fluid Density(ppg)	
		LOT/FIT EMW(ppg)	
		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	105	TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	
Safety Comments:							

HSE Drills

Drills/Tests	Date	Days Since Last	JSA's/Toolbox Talks Days Since Last Drill	3
Last Derrick Inspection Last BOP function test Last BOP Test Next BOP Test				

Operations Summary

24 Hour Summary
R/D CASING CREW, WALK RIG TO 1908H
Update Since Report Time
24 Hour Forecast

EP WELLS DAILY OPERATIONS REPORT

Report 4

01/25/2017

Well UNIVERSITY 19 PW UNIT 1507H
Wellbore UNIVERSITY 19 PW UNIT 1507H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Description
0:00	1.50	SRF1	CLR		680.00	0	CONDITION MUD & CIRCULATE CASING CAP
1:30	0.50	SRF1	RCC		680.00	0	R/D CASING CREW AND BAIL EXTENTIONS
2:00	2.00	SRF1	WLK		680.00	0	R/D CATWALK & WALK RIG TO UNIVERSITY 19 UNIT 1508H
Total	4.00						

Deepest 5 Surveys

MD (ft)	Inc. (°)	Azi. (°)	TVD (ft)	N/S (ft)	E/W (ft)	V.Sec (ft)	DLeg (°/100ft)	Tool
4,714.00	4.69	65.13	4,693.66	-84.41	-188.22	206.28	0.42	PTW MWD+HDGM_2016
4,714.00	4.69	65.13	4,693.66	-84.63	-187.96	206.13	0.42	PTW MWD_2016
4,803.00	4.61	69.91	4,782.36	-81.65	-181.56	199.08	0.44	PTW MWD+HDGM_2016
4,803.00	4.61	69.91	4,782.37	-81.88	-181.30	198.93	0.44	PTW MWD_2016
4,810.00	4.61	69.91	4,789.34	-81.46	-181.03	198.51	0.00	PTW MWD+HDGM_2016

Fluid Details

Mud type	NaCl Brine	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)		R600/300 (°)	
API/HTHP WL (cc/30min)		ECD (ppg)		R200/100 (°)	
FC/HTHP FC (32nd")		H2S (gas unit)		R6/3 (°)	
FL temp. (°F)		KCl (%)			
		Ditch Magnet in Last 24hrs/Cum. (gm)			

EP WELLS DAILY OPERATIONS REPORT

Report 5

02/07/2017

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 19 PW UNIT 1507H
Wellbore	UNIVERSITY 19 PW UNIT 1507H
WBS No/API No	30257940 / 4230133144.00

Event Summary

Event Type	Drilling only	Event Start Date	01/22/2017	Days on Location	4.56
Objective	Drill - Wolfcamp B1 Shale HZ	Original Spud Date	01/22/2017	Days Since Spud	2.83
Est. Days	26.00	Contractor	PRECISION		
Work Unit	PRECISION 559	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	J. C PALMER, ASHLEY HRIVNAK	Measured Depth(ft)	4,877.00
Engineer	YERMEK TYNYSHBAYEV	TVD(ft)	4,856.13
Other Supervisor	D. H. JOHNSON	24 Hr Progress(ft)	
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,769.50 / 2,743.50	Hole size(in)	
THF Datum			
Daily NPT(hr/%)	0/0	Last Casing MD	20.000in@146.00ft
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	9.625in@4,877.00ft
		Current Fluid Density(ppg)	
		LOT/FIT EMW(ppg)	
		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	118	TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	
Safety Comments: NO ACCIDENTS NO INCIDENTS HELD PRETOUR SAFETY MEETING WITH CREWS MAN HOURS 149							

HSE Drills

Drills/Tests	Date	Days Since Last	JSA's/Toolbox Talks Days Since Last Drill	5
Last Derrick Inspection Last BOP function test Last BOP Test Next BOP Test				

Operations Summary

24 Hour Summary
SKID RIG FROM UNIVERSITY 19 UNIT 1508H TO THE 1507H. NIPPLE UP BOP'S , INSTALL ACCUMULATOR LINES AND GUIDE LINES TO CENTER STACK, L/D BOP WRANGLER , INSTALL MOUSE HOLE RIG UP TO TEST ANNULAR AND BREAK AT WELL HEAD. ATTEMPT TO TEST BREAK AT WELL HEAD LEAKING AT BONNET DOOR ON RAMS , CHANGE BONNET SEAL. ATTEMPT TO TEST AGAIN RAMS LEAKING,
Update Since Report Time
REDRESS TOP RAMS AND TEST TO 250/10000 PSI . TEST ANNULAR TO250/5000 PSI
24 Hour Forecast
P/U BHA AND TIH DRILL OUT DV TOOL. TIH TO 100' TO 4600' AND TEST CASIING TO 1500 PSI FOR 30 MINUTES , DRILL AHEAD.

EP WELLS DAILY OPERATIONS REPORT

Report 5

02/07/2017

Well UNIVERSITY 19 PW UNIT 1507H
Wellbore UNIVERSITY 19 PW UNIT 1507H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Description
13:00	2.00	INT1	WLK		4,877.00	0	SKID RIG FROM UNIVERSITY 19 UNIT 1508H TO THE 1507H.
15:00	2.00	INT1	RUP		4,877.00	0	NIPPLE UP BOPS , INSTALL CONTROL LINES AND CENTER STAACK WITH GUIDE LINES. REMOVE WRANGLER AND INSTALL MOUSE HOLE.
17:00	7.00	INT1	BOP		4,877.00	0	TEST CONNECTION AT WELL HEAD AGAINST TOP RAMS. BONNET SEAL LEAKING, COULD NOT BREAK BONNET BOLTS , WAIT ON TORQUE WRENCH , WHILE WAITING ON TORQUE WRENCH RIG UP FLARE LINES , OVER BOARD LINES AND CUT THE MUD WT TO 9.3 PPG.TORQUE WRENCH ARRIVED. BROKE BONNET BOLTS AND CHANGED SEAL, ATTEMPT TO TEST AGAIN RAMS LEAKING , BROKE TORQUE WRENCH WHILE ATTEMPTING TO BREAK BONNET BOLTS
Total	11.00						

Deepest 5 Surveys

MD (ft)	Inc. (°)	Azi. (°)	TVD (ft)	N/S (ft)	E/W (ft)	V.Sec (ft)	DLeg (°/100ft)	Tool
4,714.00	4.69	65.13	4,693.66	-84.41	-188.22	206.28	0.42	PTW MWD+HDGM_2016
4,803.00	4.61	69.91	4,782.36	-81.65	-181.56	199.08	0.44	PTW MWD+HDGM_2016
4,803.00	4.61	69.91	4,782.37	-81.88	-181.30	198.93	0.44	PTW MWD_2016
4,803.00	4.61	69.91	4,782.36	-81.43	-182.31	199.67	0.45	PTW MWD+HDGM+AXIAL_2016
4,810.00	4.61	69.91	4,789.34	-81.46	-181.03	198.51	0.00	PTW MWD+HDGM_2016

Fluid Details

Mud type	NaCl Brine	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 7

02/09/2017

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 19 PW UNIT 1507H
Wellbore	UNIVERSITY 19 PW UNIT 1507H
WBS No/API No	30257940 / 4230133144.00

Event Summary

Event Type	Drilling only	Event Start Date	01/22/2017	Days on Location	6.56
Objective	Drill - Wolfcamp B1 Shale HZ	Original Spud Date	01/22/2017	Days Since Spud	4.83
Est. Days	26.00	Contractor	PRECISION		
Work Unit	PRECISION 559	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	J. C PALMER, ASHLEY HRIVNAK	Measured Depth(ft)	8,290.00
Engineer	YERMEK TYNYSHBAYEV	TVD(ft)	8,268.09
Other Supervisor	D. H. JOHNSON	24 Hr Progress(ft)	2,805.00
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,769.50 / 2,743.50	Hole size(in)	8.750
THF Datum			
Daily NPT(hr/%)	0/0	Last Casing MD	9.625in@4,877.00ft
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	7.000in@11,650.00ft
		Current Fluid Density(ppg)	9.40
		LOT/FIT EMW(ppg)	
		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	120	TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	
Safety Comments:							
NO ACCIDENTS NO INCIDENTS							
HELD PRETOUR SAFETY MEETING WITH CREWS. DISCUSS INCIDENT WIDTH AIR HOIST FROM ANOTHER RIG							
MAN HOURS 330							

HSE Drills

Drills/Tests	Date	Days Since Last	JSA's/Toolbox Talks Days Since Last Drill	7
Last Derrick Inspection	02/08/2017	1		
Last BOP function test	01/28/2017	12		
Last BOP Test	02/18/2017			
Next BOP Test				

Operations Summary

24 Hour Summary
DRILL FROM 5485' TO 8290' (2805 FT AT 121.9 FT /HR). 1 HOUR SERVICE RIG , 30 MINUTES EACH TOUR
Update Since Report Time
DRILL FROM 8290' TO 8604' RIG SERVICE
24 Hour Forecast
DRILL AHEAD , POSSIBLE BIT TRIP

EP WELLS DAILY OPERATIONS REPORT

Report 7

02/09/2017

Well UNIVERSITY 19 PW UNIT 1507H
Wellbore UNIVERSITY 19 PW UNIT 1507H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Description
0:00	5.50	INT1	DRL		6,642.00	0	DRILL ROTATE FROM 5485' TO 6642' (1157' AT 210.3 FT/HR) WT ON BIT 40K, SPP 3600 PSI, GPM 650, SURFACE RPM 90, MODTOR RPM 125, BIT RPM 215, TORQUE OFF BTM 5K, TORQUE ON BTM 18K, ROT WT 205K, P/U WT 235K, S/O WT 180K. MUD WT 9.5 PPG, GAS 250 UNITS, NO FLARE.
5:30	0.50	INT1	SVC		6,642.00	0	SERVICE RIG
6:00	2.00	INT1	DRL		6,909.00	0	DRILL ROTATE FROM 6642' TO 6909' (267' AT 133.5 FT/HR) WT ON BIT 40K, SPP 3750 PSI, GPM 648, SURFACE RPM 90, MOTOR RPM 121, BIT RPM 211, TORQUE OFF BTM 7K, TORQUE ON BTM 20K, ROT WT 205K, P/U WT 235K, S/O WT 180K. MUD WT 9.5 PPG, GAS 250 UNITS, NO FLARE.
8:00	5.50	INT1	DRL		7,565.00	0	DRILL ROTATE FROM 6909' TO 7565' (656' AT 119.2 FT/HR) WOB 40K SPP 3700 PSI, GPM 648, SURFACE RPM 20, MOTOR RPM 123, BIT RPM 143, P/U 255K, S/O 202K, ROT WT 225K, TORQUE OFF BTM 8K, TORQUE ON BTM 13K, MUD WT 9.4 PPG, GAS 100 UNITS , NO FLARE
13:30	3.00	INT1	DRL		7,820.00	0	DRILL ROTATE FROM 7565' TO 7820'. (255' AT 85 FT/HR) WOB 38K, SPP 3400 PSI, GPM 648, SURFACE RPM 20, MOTOR RPM 123, BIT RPM 143, TORQUE OFF BTM 8000K, TORQUE ON BTM 13K, P/U 260K, S/O 205K, RT 230K, MUD WT 9.5 PPG GAS 200 UNITS , NO FLARE
16:30	0.50	INT1	SVC		7,820.00	0	RIG SERVICE
17:00	7.00	INT1	DRL		8,290.00	0	DRILL ROTATE FROM 7820' TO 8290' (470' AT 67.1 FT/HR) WOB 38K, SURFACE RPM 20, GPM 640, SPP 3400 PSI, MOTOR RPM 128, BIT RPM 148. TORQUE OFF BTM 8K, TORQUE ON BTM 12K. MUD WT 9.5 PPG. GAS 160 UNITS. NO FLARE. P/U 270K, S/O 220K, ROT WT 230K.
Total	24.00						

Deepest 5 Surveys

MD (ft)	Inc. (°)	Azi. (°)	TVD (ft)	N/S (ft)	E/W (ft)	V.Sec (ft)	DLeg (°/100ft)	Tool
7,558.00	1.49	275.19	7,536.26	-48.24	-175.24	181.73	0.30	PTW MWD_2016
7,736.00	1.31	254.24	7,714.21	-48.58	-179.51	185.92	0.30	PTW MWD_2016
7,914.00	1.19	267.44	7,892.17	-49.22	-183.31	189.75	0.17	PTW MWD_2016
8,028.00	1.07	249.00	8,006.15	-49.65	-185.49	191.96	0.33	PTW MWD_2016
8,270.00	1.21	246.82	8,248.10	-51.47	-189.95	196.75	0.06	PTW MWD_2016

Fluid Details

Mud type	NaCl Brine	Oil/Water (%)	0.00/93.10	pH/Pm (cc)	9.50/0.60
MD (ft)	7,687.00	TS/HGS/LGS (%)	0.90//	Pf/Mf (cc)	0.60/1.30
Mud Density (ppg)	9.40	Sand (%)	0.00	Ca+ (ppm)	
Vis (s/qt)	28.00			Cl- (ppm)	106,300
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)	25.0/	ECD (ppg)	9.530	R600/300 (°)	
FC/HTHP FC (32nd")	2.0/	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	NATIONAL OILWE	TK76			A233200	7x11	4,877.00		-----

EP WELLS DAILY OPERATIONS REPORT

Report 7

02/09/2017

Well
WellboreUNIVERSITY 19 PW UNIT 1507H
UNIVERSITY 19 PW UNIT 1507H

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)
6,642.00	40.0/40.0	90	650.0	3,600.00	875.90	24.33	332.11	5.50	1,157.00	210.4	9.50	1,765.00	185.8
6,909.00	40.0/40.0	90	648.0	3,750.00	870.52	23.21	329.06	2.00	267.00	133.5	11.50	2,032.00	176.7
7,565.00	40.0/40.0	20	648.0	3,700.00	861.35	23.28	325.59	5.50	656.00	119.3	17.00	2,688.00	158.1
7,820.00	38.0/38.0	20	648.0	3,400.00	870.52	25.60	329.06	3.00	255.00	85.0	20.00	2,943.00	147.1
8,290.00	38.0/38.0	20	640.0	3,400.00	849.16	24.98	317.02	7.00	470.00	67.1	27.00	3,413.00	126.4

Drillstring Components

Item description	# Jts	Length (ft)	OD (in)	Max OD (in)	ID (in)	Connection Name	Weight (ppf)	Grade	Serial no.
5" DRILL PIPE	237	7,438.77	5.000		4.276	4 1/2 IF			RIG
HWDP	12	365.53	5.000			4 1/2 IF			RIG
4.5" XO	1	3.45				4 1/2 IF			RIG
4.5" DC	12	365.31	6.500			4-1/2 XH			RIG
SCREEN SUB	1	2.45	6.750		3.250	4-1/2 XH			DR23256
STABLIIZER	1	6.70	8.500		2.810	4-1/2 XH			SD604758
NMDC	1	29.90	6.375		2.875	4-1/2 XH			NESNM650839
STABILIZER	1	6.80	8.500		2.812	4-1/2 XH			SD604756
GAP SUB ASSY SEALED VELOCITY	1	3.53	6.500		2.875	4-1/2 XH			VG650012P TS
650 CENTRALIZER COLLAR ASSY VELOCITY	1	8.53	6.562		2.875	4-1/2 XH			VC650044
650 LANDING SUB ASSY VELOCITY	1	3.52	6.560		2.880	4 1/2 IF			VL650027
650 XO SUB PHX VELOCITY	1	1.60	6,375.000		2.875	4 1/2 IF			VX650011
NMPC	1	15.05	6.375		2.875	4-1/2 XH			PXGPC6501070
STABILIZER	1	5.51	8.500		2.812	4-1/2 XH			DR28753
CROSSOVER	1	2.03	6.125		2.750	4-1/2 XH			NESXO650192
6.75" CATHEDRAL MUD MOTOR 7/8 LOBE, STAGE 5.7, SET @	1	30.22	7.125			4 1/2 IF			C3171084
BIT #2 RUN #1 8.75" NOV TK76 (7X11's) SN: A233200	1	1.10	8.750	8.750		4 1/2 REG			A233200

Drillstring Details

Date/Time in	Date/Time out			BHA no.	BHA Length (ft)	Min. ID (in)	Purpose
02/08/2017 09:00				2	851.23		DRILL 8.75" INTERMEDIATE 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)
6,642.00	235.0	180.00	205.00	30.00	18,000.0	5,000.0	1,157.00
6,909.00	235.0	180.00	205.00	30.00	20,000.0	7,000.0	267.00
7,565.00	255.0	202.00	225.00	30.00	13,000.0	8,000.0	656.00
7,820.00	260.0	205.00	230.00	30.00	13,000.0	8,000.0	255.00
8,290.00	270.0	220.00	230.00	40.00	12,000.0	8,000.0	470.00

Remarks

DIESEL FUEL ON HAND 9675 GALLONS
 DIESEL FUEL USED 2227 GALLONS
 DIEESEL FUEL DELIVERED 0 GALLONS
 CNG USED 0 GALLONS

EP WELLS DAILY OPERATIONS REPORT

Report 8

02/10/2017

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 19 PW UNIT 1507H
Wellbore	UNIVERSITY 19 PW UNIT 1507H
WBS No/API No	30257940 / 4230133144.00

Event Summary

Event Type	Drilling only	Event Start Date	01/22/2017	Days on Location	7.56
Objective	Drill - Wolfcamp B1 Shale HZ	Original Spud Date	01/22/2017	Days Since Spud	5.83
Est. Days	26.00	Contractor	PRECISION		
Work Unit	PRECISION 559	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	J. C PALMER, ASHLEY HRIVNAK	Measured Depth(ft)	9,202.00
Engineer	YERMEK TYNYSHBAYEV	TVD(ft)	9,179.98
Other Supervisor	D. H. JOHNSON	24 Hr Progress(ft)	912.00
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,769.50 / 2,743.50	Hole size(in)	8.750
THF Datum			
Daily NPT(hr/%)	8.00/33.33	Last Casing MD	9.625in@4,877.00ft
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	7.000in@11,650.00ft
		Current Fluid Density(ppg)	9.50
		LOT/FIT EMW(ppg)	
		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	121	TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	

Safety Comments:

NO ACCIDENTS NO INCIDENTS

HELD PRETOUR SAFETY MEETING WITH CREWS

HELD SAFETY STAND DOWN WITH CREWS ON AIR HOIST INCIDENT FROM ANOTHER RIG

MAN HOURS 290

HSE Drills

Drills/Tests	Date	Days Since Last	JSA's/Toolbox Talks Days Since Last Drill	8
Last Derrick Inspection	02/08/2017	2		
Last BOP function test	01/28/2017	13		
Last BOP Test	02/18/2017			

Operations Summary

24 Hour Summary
DRILL FROM 8290' TO 9202' POOH DUE TO LOW PENETRATION RATE. CHANGE OUT MUD MOTOR AND DRILL BIT, SERVICE RIG. TIH TO 2250'
Update Since Report Time
TIH FROM 2250' TO 9202'. DRILL AHEAD
24 Hour Forecast
DRILL AHEAD TO KICK OFF POINT.

EP WELLS DAILY OPERATIONS REPORT

Report 8

02/10/2017

Well UNIVERSITY 19 PW UNIT 1507H
Wellbore UNIVERSITY 19 PW UNIT 1507H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Description
0:00	4.00	INT1	DRL		8,604.00	0	DRILL ROTATE FROM 8290' TO 8604' (314' AT 78.5 FT/HR) WOB 38K, SURFACE RPM 20, GPM 640, SPP 3500 PSI, MOTOR RPM 128, BIT RPM 148. TORQUE OFF BTM 10K, TORQUE ON BTM 12K. MUD WT 9.5 PPG. GAS 160 UNITS. NO FLARE. P/U 270K, S/O 220K, ROT WT 230K.
4:00	0.50	INT1	SVC		8,604.00	0	RIG SERVICE
4:30	3.00	INT1	DRL		8,795.00	0	DRILL ROTATE FROM 8604' TO 8795' (191' AT 63.6 FT/HR) WOB 38K, SURFACE RPM 20, GPM 640, SPP 3500 PSI, MOTOR RPM 128, BIT RPM 148. TORQUE OFF BTM 10K, TORQUE ON BTM 12K. MUD WT 9.5 PPG. GAS 112 UNITS. NO FLARE. P/U 277K, S/O 222K, ROT WT 246K.
7:30	2.50	INT1	DRL		8,958.00	0	DRILL ROTATE FROM 8795' TO 8958' (163' AT 65.2 FT/HR) WOB 40K, SURFACE RPM 20, GPM 647, SPP 3700 PSI, MOTOR RPM 129, BIT RPM 149. TORQUE OFF BTM 10K, TORQUE ON BTM 12K. MUD WT 9.5 PPG. GAS 650 UNITS. NO FLARE. P/U 277K, S/O 222K, ROT WT 246K.
10:00	0.50	INT1	DRL		8,958.00	1	NPT-MWD LOST SIGNAL , REBOOT FOR SIGNAL
10:30	5.50	INT1	DRL		9,202.00	0	DRILL ROTATE FROM 8958' TO 9202' (244' AT 44.3 FT/HR) WOB 40K, SURFACE RPM 20, GPM 647, SPP 3700 PSI, MOTOR RPM 129, BIT RPM 149. TORQUE OFF BTM 10K, TORQUE ON BTM 12K. MUD WT 9.5 PPG. GAS 650 UNITS. NO FLARE. P/U 277K, S/O 222K, ROT WT 246K.
16:00	0.50	INT1	DRL		9,202.00	1	NPT-HOLD PREJOB SAFETY MEETING TO POOH FOR BIT
16:30	5.00	INT1	TOH		9,202.00	1	NPT-POOH FROM 9202' TO 485' HOLE TAKING CORRECT DISPLACEMENT.
21:30	1.00	INT1	BHA		9,202.00	1	NPT-CHANGE OUT MUD MOTOR AND BIT BIT NO 2 NOV S/N A233200 DBR. P/U BIT NO 3 ULTERA S/N 32803 TYPE U716M JETS 7-11'S, MOTOR CATHEDRAL S/N C3171097, 1.5 DEGREE REV/GAL 0.19..TIH WITH BHA TO 850'.
22:30	0.50	INT1	SVC		9,202.00	0	RIG SERVICE
23:00	1.00	INT1	DRL		9,202.00	1	NPT-TIH FROM 850' TO 2250' MONITOR WELL ON TRIP TANK GOING IN HOLE. FILL PIPE EVERY 30 STANDS
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
02/10/2017 10:00	PHOENIX TECHNOLOGY SERVICES USA INC	Directional (MWD Measurement While Drilling/gyro)	8,958.00	DRL	EN	MWD Tools	0.50	0.50		OPEN
Description: MWD LOST SIGNAL, REBOOT FOR SIGNAL						Title: MWD LOST SIGNAL, REBOOT FOR SIGNAL				
02/10/2017 16:00	NATIONAL OILWELL DHT LP	Drill Bits, Under-Runners & SWRD	9,202.00	DRL	EN	Bits	0.00	0.00		OPEN
Description: TRIP OUT OF HOLE, CHANGE BHA DUE TO LOW PENETRATION RATE						Title: BIT TRIP				
Total							0.50	0.50		

Deepest 5 Surveys

MD (ft)	Inc. (°)	Azi. (°)	TVD (ft)	N/S (ft)	E/W (ft)	V.Sec (ft)	DLeg (°/100ft)	Tool
8,359.00	1.19	243.13	8,337.08	-52.25	-191.64	198.52	0.09	PTW MWD_2016
8,538.00	1.14	208.83	8,516.04	-54.66	-194.15	201.63	0.38	PTW MWD_2016
8,716.00	0.96	195.28	8,694.01	-57.64	-195.40	203.71	0.17	PTW MWD_2016
8,894.00	0.15	151.40	8,872.01	-59.29	-195.68	204.46	0.48	PTW MWD_2016
9,072.00	0.92	117.50	9,050.00	-60.15	-194.30	203.40	0.45	PTW MWD_2016

EP WELLS DAILY OPERATIONS REPORT

Report 8

02/10/2017

Well UNIVERSITY 19 PW UNIT 1507H
Wellbore UNIVERSITY 19 PW UNIT 1507H

Fluid Details

Mud type	NaCl Brine	Oil/Water (%)	0.00/92.30	pH/Pm (cc)	8.00/0.00
MD (ft)	9,202.00	TS/HGS/LGS (%)	1.00//	Pf/Mf (cc)	0.00/0.20
Mud Density (ppg)	9.50	Sand (%)	0.00	Ca+ (ppm)	
Vis (s/qt)	28.00			Cl- (ppm)	116,000
PV/YP (cp/lbf/100ft ²)	1.00/3.000	MBT (lbm/bbl)			
Gels 10 s/m (lb/100ft ²)	1.000/1.000	LCM (lbm/bbl)			
API/HTHP WL (cc/30min)	25.0/	ECD (ppg)	9.500	R600/300 (°)	
FC/HTHP FC (32nd")	2.0/	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	NATIONAL OILWE	TK76			A233200	7x11	4,877.00	9,202.00	-----

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)
8,604.00	38.0/38.0	20	640.0	3,500.00	849.16	24.26	317.02	4.00	314.00	78.5	31.00	3,727.00	120.2
8,795.00	38.0/38.0	20	640.0	3,500.00	849.16	24.26	317.02	3.00	191.00	63.7	34.00	3,918.00	115.2
8,958.00	40.0/40.0	20	647.0	3,700.00	867.83	23.45	327.53	2.50	163.00	65.2	36.50	4,081.00	111.8
9,202.00	40.0/40.0	20	647.0	3,700.00	867.83	23.45	327.53	5.50	244.00	44.4	42.00	4,325.00	103.0

Drillstring Components

Item description	# Jts	Length (ft)	OD (in)	Max OD (in)	ID (in)	Connection Name	Weight (ppf)	Grade	Serial no.
5" DRILL PIPE	266	8,350.77	5.000		4.276	4 1/2 IF			RIG
HWDP	12	365.53	5.000			4 1/2 IF			RIG
4.5" XO	1	3.45				4 1/2 IF			RIG
4.5" DC	12	365.31	6.500			4-1/2 XH			RIG
SCREEN SUB	1	2.45	6.750		3.250	4-1/2 XH			DR23256
STABLIIZER	1	6.70	8.500		2.810	4-1/2 XH			SD604758
NMDC	1	29.90	6.375		2.875	4-1/2 XH			NESNM650839
STABILIZER	1	6.80	8.500		2.812	4-1/2 XH			SD604756
GAP SUB ASSY SEALED VELOCITY	1	3.53	6.500		2.875	4-1/2 XH			VG650012P TS
650 CENTRALIZER COLLAR ASSY VELOCITY	1	8.53	6.562		2.875	4-1/2 XH			VC650044
650 LANDING SUB ASSY VELOCITY	1	3.52	6.560		2.880	4 1/2 IF			VL650027
650 XO SUB PHX VELOCITY	1	1.60	6,375.000		2.875	4 1/2 IF			VX650011
NMPC	1	15.05	6.375		2.875	4-1/2 XH			PXGPC6501070
STABILIZER	1	5.51	8.500		2.812	4-1/2 XH			DR28753
CROSSOVER	1	2.03	6.125		2.750	4-1/2 XH			NESXO650192
6.75" CATHEDRAL MUD MOTOR 7/8 LOBE, STAGE 5.7 SET @	1	30.22	7.125			4 1/2 IF			C3171084
BIT #2 RUN #1 8.75" NOV TK76 (7X11's) SN: A233200	1	1.10	8.750	8.750		4 1/2 REG			A233200

EP WELLS DAILY OPERATIONS REPORT

Report 8

02/10/2017

Well UNIVERSITY 19 PW UNIT 1507H
Wellbore UNIVERSITY 19 PW UNIT 1507H

Drillstring Details							
Date/Time in		Date/Time out		BHA no.	BHA Length (ft)	Min. ID (in)	Purpose
02/08/2017 09:00		02/10/2017 22:00		2	851.23		DRILL 8.75" INTERMEDIATE 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)
8,604.00	277.0	222.00	246.00	31.00	12,000.0	10,000.0	314.00
8,795.00	277.0	222.00	246.00	31.00	12,000.0	10,000.0	191.00
8,958.00	277.0	222.00	246.00	31.00	12,000.0	10,000.0	163.00
9,202.00	277.0	222.00	246.00	31.00	12,000.0	10,000.0	244.00

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
3	8.750	ULTERRA	U716M			32803	7x11	9,202.00		-----

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	266	8,351.17	5.000		4.276	4 1/2 IF			RIG
HWDP	12	365.53	5.000			4 1/2 IF			RIG
4.5" XO	1	3.45				4 1/2 IF			RIG
4.5" DC	12	365.31	6.500			4-1/2 XH			RIG
SCREEN SUB	1	2.45	6.750		3.250	4-1/2 XH			DR23256
STABLIIZER	1	6.70	8.500		2.810	4-1/2 XH			SD604758
NMDC	1	29.90	6.375		2.875	4-1/2 XH			NESNM650839
STABILIZER	1	6.80	8.500		2.812	4-1/2 XH			SD604756
GAP SUB ASSY SEALED VELOCITY	1	3.53	6.500		2.875	4-1/2 XH			VG650012PTS
650 CENTRALIZER COLLAR ASSY VELOCITY	1	8.53	6.562		2.875	4-1/2 XH			VC650044
650 LANDING SUB ASSY VELOCITY	1	3.52	6.560		2.880	4 1/2 IF			VL650027
650 XO SUB PHX VELOCITY	1	1.60	6,375.000		2.875	4 1/2 IF			VX650011
NMPC	1	15.05	6.375		2.875	4-1/2 XH			PXGPC6501070
STABILIZER	1	5.51	8.500		2.812	4-1/2 XH			DR28753
CROSSOVER	1	2.03	6.125		2.750	4-1/2 XH			NESXO650192
6.75" CATHEDRAL MUD MOTOR 7/8 LOBE STAGE 5.7 SET @	1	29.95	7.125			4 1/2 IF			C3171097
BIT #3 RUN #1 8.75" ULTERRA U716M (7X11's) SN: 32803	1	0.97	8.750	8.750		4 1/2 REG			32803

Drillstring Details					
Date/Time in	Date/Time out	BHA no.	BHA Length (ft)	Min. ID (in)	Purpose
02/10/2017 22:00		3	1,702.06		DRILL 8.75" INTERMEDIATE SECTION

Remarks
DIESEL FUEL ON HAND 15686 GALLONS DIESEL FUEL USED 1498 GALLONS DIEESEL FUEL DELIVERED 7509 GALLONS CNG USED 0 GALLONS

EP WELLS DAILY OPERATIONS REPORT

Report 9

02/11/2017

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 19 PW UNIT 1507H
Wellbore	UNIVERSITY 19 PW UNIT 1507H
WBS No/API No	30257940 / 4230133144.00

Event Summary

Event Type	Drilling only	Event Start Date	01/22/2017	Days on Location	8.56
Objective	Drill - Wolfcamp B1 Shale HZ	Original Spud Date	01/22/2017	Days Since Spud	6.83
Est. Days	26.00	Contractor	PRECISION		
Work Unit	PRECISION 559	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	J. C PALMER, ASHLEY HRIVNAK	Measured Depth(ft)	10,652.00
Engineer	YERMEK TYNYSHBAYEV	TVD(ft)	10,627.98
Other Supervisor	D. H. JOHNSON	24 Hr Progress(ft)	1,450.00
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,769.50 / 2,743.50	Hole size(in)	8.750
THF Datum			
Daily NPT(hr/%)	8.50/35.42	Last Casing MD	9.625in@4,877.00ft
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	7.000in@11,650.00ft
		Current Fluid Density(ppg)	9.70
		LOT/FIT EMW(ppg)	
		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	122	TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	

Safety Comments:

NO ACCIDENTS NO INCIDENTS

HELD PRETOUR SAFETY MEETINGS WITH CREWS

MAN HOURS 265

HOLD WEEKLY SAFETY MEETINGS WITH CREWS BOW TIE REVIEW FOR DROPPED OBJECT FROM AIR HOIST INCIDENT.

HSE Drills

Drills/Tests	Date	Days Since Last	JSA's/Toolbox Talks Days Since Last Drill	9
Last Derrick Inspection	02/08/2017	3		
Last BOP function test	01/28/2017	14		
Last BOP Test	02/18/2017			

Operations Summary

24 Hour Summary
TIH TO 9202' DRILL FROM 9202 TO 9321'. INCREASE IN FLOW ATTEMPT TO GO THROUGH GAS BUSTER , UNSTOP GAS BUSTER AND REPLACE ROTATING HEAD RUBBER. CIRCULATE OUT GAS, DRILL FROM 9321' TO 9760, RIG SERVICE, DRILL FROM 9321' TO 10652'
Update Since Report Time
DRILL FROM 10652' TO 10970' . FINISH CIRCULATING OUT SWEEP, PUMP 20 BBL SLUG AND PUMP 27 BBLS OF KILL MUD DOWN ANNULUS. POOH PUMPING CALCULATED DISPLACEMENT
24 Hour Forecast
POOH TO P/U CURVE ASSY. TIH TO 10970' INDUCE FLOW, DRILL CURVE.

EP WELLS DAILY OPERATIONS REPORT

Report 9

02/11/2017

Well UNIVERSITY 19 PW UNIT 1507H
Wellbore UNIVERSITY 19 PW UNIT 1507H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Description
0:00	4.50	INT1	TIH		9,202.00	1	TIH FROM 2250' TO 9202' MONITOR WELL ON TRIP TANK GOING IN HOLE. FILL PIPE EVERY 30 STANDS
4:30	1.50	INT1	DRL		9,321.00	0	DRILL ROTATE FROM 9202' TO 9321' (119' AT 79.3 FT/HR) WOB 38K, SPP 3400 PSI, GPM 640, SURFACE RPM 60, MOTOR RPM 121, BIT RPM 181, TORQUE OFF BTM 8K, TORQUE ON BTM 15K, P/U WT 270K, S/O WT 240K. RPT WT 250K, MUD WT 9.6 PPG, GAS 750 UNITS NO FLARE.
6:00	4.00	INT1	DRL		9,321.00	1	NPT: FLOW INCREASE FROM 42% TO 89%. SHUT WELL IN AND ATTEMPT TO CIRCULATE THROUGH GAS BUSTER, GAS BUSTER STOPPED UP , UNSTOP GAS BUSTER, NEW ROTATING HEAD RUBBER LEAKING, CHANGE OUT ROTATING HEAD RUBBER USING THE ANNULAR. TO SHUT WELL IN.
10:00	1.50	INT1	DRL		9,321.00	0	CIRCULATE BOTTOMS UP USING THE CHOKE, AT 9236'. SPM 60, 247 GPM, GAS 1680 UNITS , FLARE 5-10 FT.
11:30	3.50	INT1	DRL		9,760.00	0	WASH FROM 9236' TO 9321' . DRILL ROTATE FROM 9321' TO 9760' (439' AT 125.4 FT/HR) WOB 38K, SPP 3800, GPM 643, SURFACE RPM 60, MOTOR RPM 124, BIT RPM 184, TORQUE OFF BTM 8K. TORQUE ON BOTTOM 16K, P/U WT 302K, S/O WT 228K, ROT WT 263K. FLARE 5-10 FT. GAS 1560' MUD WT 9.6 PPG.
15:00	0.50	INT1	SVC		9,760.00	0	RIG SERVICE
15:30	8.50	INT1	DRL		10,652.00	0	DRILL ROTATE FROM 9760' TO 10652' (892' AT 104.9 FT/HR) WOB 38, SPP 4050 PSI, GPM 643, SURFACE RPM 60 MOTOR RPM 122, BIT RPM 182, TORQUE OFF BTM 12K, TORQUE ON BTM 17K, GAS 1300 UNITS, MUD WT 9.7 PPG, FLARE 5FT. CONNECTION FLARE 10-15 FT. P/U WT 300K. S/O WT 240K, ROT WT 280K,
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
02/11/2017 06:00	SHELL	Well Control	9,321.00	DRL	N		4.00	4.00		OPEN
Description: FLOW INCREASE FROM 42% TO 89%. SHUT WELL IN AND ATTEMPT TO CIRCULATE THROUGH GAS BUSTER, GAS BUSTER STOPPED UP , UNSTOP GAS BUSTER, NEW ROTATING HEAD RUBBER LEAKING, CHANGE OUT ROTATING HEAD RUBBER USING THE ANNULAR. TO SHUT WELL IN						Title: WELL CONTROL				
Total							4.00	4.00		

Deepest 5 Surveys

MD (ft)	Inc. (°)	Azi. (°)	TVD (ft)	N/S (ft)	E/W (ft)	V.Sec (ft)	DLeg (°/100ft)	Tool
9,785.00	4.22	203.17	9,761.90	-93.98	-207.68	120.67	0.51	PTW MWD_2016
9,964.00	1.73	208.17	9,940.65	-102.41	-211.55	129.55	1.40	PTW MWD_2016
10,142.00	2.20	244.04	10,118.55	-106.28	-215.89	133.95	0.72	PTW MWD_2016
10,320.00	2.24	250.29	10,296.42	-108.95	-222.24	137.44	0.14	PTW MWD_2016
10,499.00	3.38	262.16	10,475.20	-110.85	-230.76	140.45	0.71	PTW MWD_2016

Fluid Details

Mud type	NaCl Brine	Oil/Water (%)	0.00/90.80	pH/Pm (cc)	7.00/0.00
MD (ft)	10,652.00	TS/HGS/LGS (%)	2.50//	Pf/Mf (cc)	0.00/0.20
Mud Density (ppg)	9.70	Sand (%)	0.10	Ca+ (ppm)	
Vis (s/qt)	28.00			Cl- (ppm)	117,500
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)	25.0/	ECD (ppg)	9.900	R600/300 (°)	
FC/HTHP FC (32nd")	2.0/	H2S (gas unit)		R200/100 (°)	
		KCl (%)		R6/3 (°)	
FL temp. (°F)		Ditch Magnet in Last 24hrs/Cum. (gm)			

EP WELLS DAILY OPERATIONS REPORT

Report 9

02/11/2017

Well UNIVERSITY 19 PW UNIT 1507H
Wellbore UNIVERSITY 19 PW UNIT 1507H

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
3	8.750	ULTERRA	U716M			32803	7x11	9,202.00		-----

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)
9,321.00	38.0/38.0	60	640.0	3,400.00	867.03	25.50	323.69	1.50	119.00	79.3	1.50	119.00	79.3
9,760.00	38.0/38.0	60	643.0	3,800.00	875.18	23.03	328.27	3.50	439.00	125.4	5.00	558.00	111.6
10,652.00	38.0/38.0	60	643.0	4,050.00	875.18	21.61	328.27	8.50	892.00	104.9	13.50	1,450.00	107.4

Drillstring Components

Item description	# Jts	Length (ft)	OD (in)	Max OD (in)	ID (in)	Connection Name	Weight (ppf)	Grade	Serial no.
5" DRILL PIPE	312	9,801.17	5.000		4.276	4 1/2 IF			RIG
HWDP	12	365.53	5.000			4 1/2 IF			RIG
4.5" XO	1	3.45				4 1/2 IF			RIG
4.5" DC	12	365.31	6.500			4-1/2 XH			RIG
SCREEN SUB	1	2.45	6.750		3.250	4-1/2 XH			DR23256
STABLIIZER	1	6.70	8.500		2.810	4-1/2 XH			SD604758
NMDC	1	29.90	6.375		2.875	4-1/2 XH			NESNM650839
STABILIZER	1	6.80	8.500		2.812	4-1/2 XH			SD604756
GAP SUB ASSY SEALED VELOCITY	1	3.53	6.500		2.875	4-1/2 XH			VG650012P TS
650 CENTRALIZER COLLAR ASSY VELOCITY	1	8.53	6.562		2.875	4-1/2 XH			VC650044
650 LANDING SUB ASSY VELOCITY	1	3.52	6.560		2.880	4 1/2 IF			VL650027
650 XO SUB PHX VELOCITY	1	1.60	6,375.000		2.875	4 1/2 IF			VX650011
NMPC	1	15.05	6.375		2.875	4-1/2 XH			PXGPC6501070
STABILIZER	1	5.51	8.500		2.812	4-1/2 XH			DR28753
CROSSOVER	1	2.03	6.125		2.750	4-1/2 XH			NESXO650192
6.75" CATHEDRAL MUD MOTOR 7/8 LOBE STAGE 5 7 SET @	1	29.95	7.125			4 1/2 IF			C3171097
BIT #3 RUN #1 8.75" ULTERRA U716M (7X11's) SN: 32803	1	0.97	8.750	8.750		4 1/2 REG			32803

Drillstring Details

Date/Time in		Date/Time out		BHA no.	BHA Length (ft)	Min. ID (in)	Purpose
02/10/2017 22:00				3	850.83		DRILL 8.75" INTERMEDIATE 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)
9,321.00	270.0	240.00	250.00	20.00	15,000.0	8,000.0	119.00
9,760.00	302.0	228.00	263.00	39.00	16,000.0	8,000.0	439.00
10,652.00	300.0	240.00	280.00	20.00	17,000.0	12,000.0	892.00

Remarks

DIESEL FUEL ON HAND 13761 GALLONS
DIESEL FUEL USED 1925 GALLONS
DIEESEL FUEL DELIVERED 0 GALLONS
CNG USED 0 GALLONS

EP WELLS DAILY OPERATIONS REPORT

Report 10

02/12/2017

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 19 PW UNIT 1507H
Wellbore	UNIVERSITY 19 PW UNIT 1507H
WBS No/API No	30257940 / 4230133144.00

Event Summary

Event Type	Drilling only	Event Start Date	01/22/2017	Days on Location	9.56
Objective	Drill - Wolfcamp B1 Shale HZ	Original Spud Date	01/22/2017	Days Since Spud	7.83
Est. Days	26.00	Contractor	PRECISION		
Work Unit	PRECISION 559	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	J. C PALMER, ASHLEY HRIVNAK	Measured Depth(ft)	11,004.00
Engineer	YERMEK TYNYSHBAYEV	TVD(ft)	10,988.66
Other Supervisor	D. H. JOHNSON	24 Hr Progress(ft)	352.00
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,769.50 / 2,743.50	Hole size(in)	8.750
THF Datum			
Daily NPT(hr/%)	0/0	Last Casing MD	9.625in@4,877.00ft
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	7.000in@11,650.00ft
		Current Fluid Density(ppg)	9.90
		LOT/FIT EMW(ppg)	
		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	123	TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	
Safety Comments: NO ACCIDENTS NO INCIDENTS HELD PRETOUR SAFETY MEETING WITH CREWS MAN HOURS 262							

HSE Drills

Drills/Tests	Date	Days Since Last	JSA's/Toolbox Talks Days Since Last Drill	10
Last Derrick Inspection	02/08/2017	4		
Last BOP function test	01/28/2017	15		
Last BOP Test	02/18/2017			
Next BOP Test				

Operations Summary

24 Hour Summary
DRILL FROM 10652' TO 10970' (KOP), KILL WELL ,POOH, CHANGE OUT BHA, TIH TO 10890, INDUCE FLOW, WASH TO 10970', SLIDE FROM 10970' TO 11004'
Update Since Report Time
SLIDE FROM 11004' TO 11340'
24 Hour Forecast
DRILL AND SLIDE FROM 11340' TO ESTIMATED 11755' 70 DEGRES. PUMP SWEEPS , KILL WELL POOH TO RUN 7 INCH CASING.

EP WELLS DAILY OPERATIONS REPORT

Report 10

02/12/2017

Well UNIVERSITY 19 PW UNIT 1507H
Wellbore UNIVERSITY 19 PW UNIT 1507H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Description
0:00	3.00	INT1	DRL		10,970.00	0	DRILL ROTATE FROM 10652' TO 10970' (318' AT 106 FT/HR) WOB 38, SPP 4000 PSI, GPM 640, SURFACE RPM 60 MOTOR RPM 121, BIT RPM 181, TORQUE OFF BTM 12K, TORQUE ON BTM 16K, GAS 1200 UNITS, MUD WT 9.7 PPG, FLARE 5FT. CONNECTION FLARE 10-15 FT. P/U WT 300K. S/O WT 240K, ROT WT 280K,
3:00	0.50	INT1	CDM		10,970.00	0	FINISH CIRCULATING OUT SWEEP THAT WAS IN THE WELL.
3:30	0.50	INT1	CDM		10,970.00	0	PUMP 20 BBL, 13.5 PPG SLUG AND BULLHEAD 27 BBLS OF 13.5 DOWN ANNULUS. INITIAL PRESSURE ON THE ANNULUS 127PSI WHEN SHUT IN.
4:00	7.00	INT1	TOH		10,970.00	0	POOH FROM 10970' TO 850'. FILL HOLE WITH CALCULATED FILL..
11:00	1.50	INT1	BHA		10,970.00	0	REMOVE ROTATING HEAD RUBBER. RACK BACK DRILL COLLARS AND L/D MUD MOTOR AND BIT NO 3 ULTERRA S/N 32803 TYPE U716M GRADE 2-2-CT-N-X-NO-BHA.
12:30	0.50	INT1	DRL		10,970.00	0	CLEAN RIG FLOOR
13:00	1.00	INT1	BHA		10,970.00	0	PICK UP CURVE ASSY . BIT NO 4 SECURITY S/N 12870074 TYPE MM64C JETS 6-12'S, MUD MOTOR PHOENIX , BENT HOUSING FIXED 2.38, REV/GAL 0.497,
14:00	6.50	INT1	TIH		10,970.00	0	TIH TO 10890' FILL PIPE EVERY 30 STANDS NO RETURNS INSTALL ROTATING HEAD RUBBER AT SHOE
20:30	2.00	INT1	TIH		10,970.00	0	INDUCE FLOW PUMP 250 BBLS OF FRESH WATER DOWN ANNULUS, PUMP 75 BBLS OF 9.7 MUD DOWN DRILL PIPE, OPEN WELL AND CIRCULATE BOTTOMS UP FLARE 5-10 FEET. WASH TO BTM AT 10970'
22:30	1.50	INT1	DRL		11,004.00	0	DRILL SLIDE FROM 10970' TO 11004'. (34' AT 22.6 FT/HR) WOB 10K, GPM 520, SPP 2300 PSI, BIT RPM 258. P/U 300K, S/O 230K, MUD WT 9.6 PPG, GAS 1030 UNITS, FLARE 5-10 FT.
Total	24.00						

Deepest 5 Surveys

MD (ft)	Inc. (°)	Azi. (°)	TVD (ft)	N/S (ft)	E/W (ft)	V.Sec (ft)	DLeg (°/100ft)	Tool
10,320.00	2.24	250.29	10,296.42	-108.95	-222.24	121.40	0.14	PTW MWD_2016
10,499.00	3.38	262.16	10,475.20	-110.85	-230.76	123.78	0.71	PTW MWD_2016
10,677.00	2.67	265.03	10,652.95	-111.92	-240.09	125.38	0.41	PTW MWD_2016
10,855.00	1.65	264.52	10,830.82	-112.53	-246.77	126.37	0.57	PTW MWD_2016
10,926.00	1.54	263.36	10,901.79	-112.73	-248.73	126.69	0.16	PTW MWD_2016

Fluid Details

Mud type	NaCl Brine	Oil/Water (%)	0.00/89.30	pH/Pm (cc)	7.00/0.00
MD (ft)	10,970.00	TS/HGS/LGS (%)	3.00//	Pf/Mf (cc)	0.00/0.20
Mud Density (ppg)	9.90	Sand (%)	0.10	Ca+ (ppm)	
Vis (s/qt)	28.00			Cl- (ppm)	135,000
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")	2.0/	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	MM64C			12870074	6x12	10,970.00		-----

Bit Operations

MD (ft)	WOB Min/Max (kip)	Current RPM (rpm)	Flow rate (gpm)	SPP (psi)	P bit (psi)	% @ Bit	HPH (hp)	Hours (hr)	Footage (ft)	ROP (ft/hr)	Hours cum (hr)	Footage cum. (ft)	ROP cum. (ft/hr)
11,004.00	10.0/10.0	0	520.0	2,300.00	561.42	24.41	170.30	1.50	34.00	22.7	1.50	34.00	22.7

EP WELLS DAILY OPERATIONS REPORT

Report 10

02/12/2017

Well UNIVERSITY 19 PW UNIT 1507H
Wellbore UNIVERSITY 19 PW UNIT 1507H

Drillstring Components

Item description	# Jts	Length (ft)	OD (in)	Max OD (in)	ID (in)	Connection Name	Weight (ppf)	Grade	Serial no.
5" DRILL PIPE	301	9,467.20	5.000		4.276	4 1/2 IF			RIG
HWDP	12	365.53	5.000		2.875	4 1/2 IF			RIG
5" DRILL PIPE	24	1,069.95	5.000		4.276	4 1/2 IF			RIG
4.5" XO	1	3.45	5.000		2.875	4 1/2 IF			RIG
FLOAT SUB	1	2.45	6.312		2.875	4-1/2 XH			FS165098
SCREEN SUB	1	3.18	6.750		3.250	4-1/2 XH			DR24568
NMDC	1	30.44	6.375		2.875	4-1/2 XH			FL165288
GAP SUB ASSY SEALED VELOCITY	1	3.53	6.500		2.875	4-1/2 XH			VG650012P TS
650 CENTRALIZER COLLAR ASSY VELOCITY	1	8.53	6.562		2.875	4-1/2 XH			VC650044
650 LANDING SUB ASSY VELOCITY	1	3.52	6.560		2.880	4 1/2 IF			VL650027
650 XO SUB PHX VELOCITY	1	1.60	6.375		2.875	4 1/2 IF			VX650011
NMPC	1	15.05	6.375		2.875	4-1/2 XH			PXGPC6501 070
6.75" PHX MUD MOTOR 4/5 LOBE. STAGE 7. SET @ 2.38°	1	28.73	7.125			4 1/2 IF			24XH-67554 5-PTS
BIT #4 RUN #1 8.75" HALLIBURTON MM64C 6X12'S	1	0.84	8.750	8.750		4 1/2 REG			12870074

Drillstring Details

Date/Time in	Date/Time out			BHA no.	BHA Length (ft)	Min. ID (in)	Purpose
02/12/2017 12:30				4	466.85		DRILL 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)
11,004.00	300.0	230.00	0.00	300.00	0.0	0.0	34.00

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
3	8.750	ULTERRA	U716M			32803	7x11	9,202.00	10,970.00	2-2-CT-N-X-I-NO-BHA

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)
10,970.00	38.0/38.0	60	640.0	4,000.00	884.91	22.12	330.37	3.00	318.00	106.0	16.50	1,768.00	107.2

Drillstring Components

Item description	# Jts	Length (ft)	OD (in)	Max OD (in)	ID (in)	Connection Name	Weight (ppf)	Grade	Serial no.
5" DRILL PIPE	322	10,119.17	5.000		4.276	4 1/2 IF			RIG
HWDP	12	365.53	5.000			4 1/2 IF			RIG
4.5" XO	1	3.45				4 1/2 IF			RIG
4.5" DC	12	365.31	6.500			4-1/2 XH			RIG
SCREEN SUB	1	2.45	6.750		3.250	4-1/2 XH			DR23256
STABLIIZER	1	6.70	8.500		2.810	4-1/2 XH			SD604758
NMDC	1	29.90	6.375		2.875	4-1/2 XH			NESNM6508 39
STABILIZER	1	6.80	8.500		2.812	4-1/2 XH			SD604756
GAP SUB ASSY SEALED VELOCITY	1	3.53	6.500		2.875	4-1/2 XH			VG650012P TS

EP WELLS DAILY OPERATIONS REPORT

Report 10

02/12/2017

Well UNIVERSITY 19 PW UNIT 1507H
Wellbore UNIVERSITY 19 PW UNIT 1507H

Drillstring Components

Item description	# Jts	Length (ft)	OD (in)	Max OD (in)	ID (in)	Connection Name	Weight (ppf)	Grade	Serial no.
650 CENTRALIZER COLLAR ASSY VELOCITY	1	8.53	6.562		2.875	4-1/2 XH			VC650044
650 LANDING SUB ASSY VELOCITY	1	3.52	6.560		2.880	4 1/2 IF			VL650027
650 XO SUB PHX VELOCITY	1	1.60	6.375		2.875	4 1/2 IF			VX650011
NMPC	1	15.05	6.375		2.875	4-1/2 XH			PXGPC6501070
STABILIZER	1	5.51	8.500		2.812	4-1/2 XH			DR28753
CROSSOVER	1	2.03	6.125		2.750	4-1/2 XH			NESXO650192
6.75" CATHEDRAL MUD MOTOR 7/8 LOBE. STAGE 5.7. SET @	1	29.95	7.125			4 1/2 IF			C3171097
BIT #3 RUN #1 8.75" ULTERRA U716M (7X11's) SN: 32803	1	0.97	8.750	8.750		4 1/2 REG			32803

Drillstring Details

Date/Time in		Date/Time out		BHA no.	BHA Length (ft)	Min. ID (in)	Purpose
02/10/2017 22:00		02/12/2017 12:30		3	1,317.68		DRILL 8.75" INTERMEDIATE 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)
10,970.00	300.0	240.00	280.00	20.00	16,000.0	12,000.0	318.00

Remarks

DIESEL FUEL ON HAND 12775 GALLONS
DIESEL FUEL USED 986 GALLONS
DIESEL FUEL DELIVERED 0 GALLONS
CNG USED 0 GALLONS

EP WELLS DAILY OPERATIONS REPORT

Report 11

02/13/2017

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 19 PW UNIT 1507H
Wellbore	UNIVERSITY 19 PW UNIT 1507H
WBS No/API No	30257940 / 4230133144.00

Event Summary

Event Type	Drilling only	Event Start Date	01/22/2017	Days on Location	10.56
Objective	Drill - Wolfcamp B1 Shale HZ	Original Spud Date	01/22/2017	Days Since Spud	8.83
Est. Days	26.00	Contractor	PRECISION		
Work Unit	PRECISION 559	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	J. C PALMER, ASHLEY HRIVNAK	Measured Depth(ft)	11,940.00
Engineer	YERMEK TYNYSHBAYEV	TVD(ft)	11,551.42
Other Supervisor	D. H. JOHNSON	24 Hr Progress(ft)	936.00
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,769.50 / 2,743.50	Hole size(in)	8.750
THF Datum			
Daily NPT(hr/%)	0/0	Last Casing MD	9.625in@4,877.00ft
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	7.000in@11,650.00ft
		Current Fluid Density(ppg)	
		LOT/FIT EMW(ppg)	
		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	124	TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	
Safety Comments: NO ACCIDENTS NO INCIDENTS HELD PRETOUR SAFETY MEETING WITH CREWS, REVIEW BOWTIE EVENT MAN HOURS 281							

HSE Drills

Drills/Tests	Date	Days Since Last	JSA's/Toolbox Talks Days Since Last Drill	11
Last Derrick Inspection	02/08/2017	5		
Last BOP function test	01/28/2017	16		
Last BOP Test	02/18/2017			
Next BOP Test				

Operations Summary

24 Hour Summary
DRILL AND SLIDE FROM 11004' TO 11940',PUMP TWO SWEEPS, KILL WELL, POOH FROM 11940' TO 102', L/D BHA. RETRIEVE WEAR BUSHING, HOLD PREJOB SAFETY MEETING TO RIG UP AND RUN 7 INCH CASING. RIG UP AND MAKE UP SHOE TRACK
Update Since Report Time
RUN 7 INCH CASING
24 Hour Forecast
RUN 7 INCH CASING TO 11925'. INDUCE FLOW, CIRCULATE AND CEMENT CASING.

EP WELLS DAILY OPERATIONS REPORT

Report 11

02/13/2017

Well UNIVERSITY 19 PW UNIT 1507H
Wellbore UNIVERSITY 19 PW UNIT 1507H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Description
0:00	2.50	INT1	DRL		11,159.00	0	DRILL SLIDE FROM 11004' TO 11159'. (155' AT 62 FT/HR) WOB 20K, GPM 550, SPP 2900 PSI, BIT RPM 273. P/U 300K, S/O 230K, MUD WT 9.6 PPG, GAS 850 UNITS, FLARE 3 FT.
2:30	0.50	INT1	DRL		11,159.00	0	DRILL ROTATE FROM 11159' TO 11199' (40 AT 80 FT/HR) WOB 30K, SPP 3200 PSI, GPM 600, SURFACE ROTARY 20, MUD MOTOR RPM 298, BIT RPM 318, TORQUE OFF BTM 12K, TORQUE ON BTM 16K, P/U WT 310K, S/O WT 240K, ROT WT 260K, GAS 600 UNITS, NO FLARE, MUD WT 9.65.
3:00	0.50	INT1	DRL		11,248.00	0	DRILL SLIDE FROM 11159' TO 11248'. (89' AT 178 FT/HR) WOB 30K, GPM 600, SPP 3100 PSI, BIT RPM 298. P/U 310K, S/O 240K, MUD WT 9.6 PPG, GAS 650 UNITS, FLARE NONE,
3:30	0.50	INT1	DRL		11,288.00	0	DRILL ROTATE FROM 11248' TO 11288' (40 AT 80 FT/HR) WOB 30K, SPP 3100 PSI, GPM 600, SURFACE ROTARY 20, MUD MOTOR RPM 298, BIT RPM 318, TORQUE OFF BTM 12K, TORQUE ON BTM 16K, P/U WT 315K, S/O WT 240K, ROT WT 260K, GAS 500 UNITS, NO FLARE, MUD WT 9.65.
4:00	1.00	INT1	DRL		11,337.00	0	DRILL SLIDE FROM 11288' TO 11337'. (49' AT 49 FT/HR) WOB 30K, GPM 600, SPP 3100 PSI, BIT RPM 298. P/U 315K, S/O 240K, MUD WT 9.6 PPG, GAS 600 UNITS, FLARE NONE,
5:00	1.00	INT1	DRL		11,381.00	0	DRILL ROTATE FROM 11337' TO 11381' (44 AT 44 FT/HR) WOB 30K, SPP 3100 PSI, GPM 600, SURFACE ROTARY 20, MUD MOTOR RPM 298, BIT RPM 318, TORQUE OFF BTM 8K, TORQUE ON BTM 16K, P/U WT 315K, S/O WT 240K, ROT WT 260K, GAS 1200 UNITS, FLARE 6 FT, MUD WT 9.65.
6:00	0.50	INT1	DRL		11,426.00	0	DRILL SLIDE FROM 11381' TO 11426'. (45' AT 90 FT/HR) WOB 47K, GPM 582, SPP 3200 PSI, BIT RPM 289. P/U 327K, S/O 243K, MUD WT 9.6 PPG, GAS 526 UNITS, FLARE 2 FT,
6:30	0.50	INT1	DRL		11,470.00	0	DRILL ROTATE FROM 11426' TO 11470' (44 AT 88 FT/HR) WOB 25K, SPP 3000 PSI, GPM 582, SURFACE ROTARY 20, MUD MOTOR RPM 289, BIT RPM 309, TORQUE OFF BTM 8K, TORQUE ON BTM 16K, P/U WT 327K, S/O WT 243K, ROT WT 253K, GAS 575 UNITS, FLARE 2 FT, MUD WT 9.65.
7:00	0.50	INT1	DRL		11,515.00	0	DRILL SLIDE FROM 11470' TO 11515'. (45' AT 90 FT/HR) WOB 30K, GPM 582, SPP 3250 PSI, BIT RPM 289. P/U 327K, S/O 243K, MUD WT 9.6 PPG, GAS 526 UNITS, FLARE 2 FT,
7:30	0.50	INT1	DRL		11,560.00	0	DRILL ROTATE FROM 11515' TO 11560' (45 AT 90 FT/HR) WOB 30K, SPP 2656 PSI, GPM 491, SURFACE ROTARY 20, MUD MOTOR RPM 244, BIT RPM 264, TORQUE OFF BTM 8K, TORQUE ON BTM 16K, P/U WT 327K, S/O WT 243K, ROT WT 253K, GAS 580 UNITS, FLARE 3 FT, MUD WT 9.65.
8:00	0.50	INT1	DRL		11,604.00	0	DRILL SLIDE FROM 11560' TO 11604'. (44' AT 88 FT/HR) WOB 34K, GPM 491, SPP 2600 PSI, BIT RPM 244 P/U 316K, S/O 238K, MUD WT 9.6 PPG, GAS 519 UNITS, FLARE 5 FT,
8:30	0.50	INT1	DRL		11,649.00	0	DRILL ROTATE FROM 11604' TO 11649' (45 AT 90 FT/HR) WOB 30K, SPP 2650 PSI, GPM 491, SURFACE ROTARY 20, MUD MOTOR RPM 244, BIT RPM 264, TORQUE OFF BTM 8K, TORQUE ON BTM 16K, P/U WT 316K, S/O WT 238K, ROT WT 263K, GAS 588 UNITS, FLARE 5 FT, MUD WT 9.7
9:00	0.50	INT1	DRL		11,693.00	0	DRILL SLIDE FROM 11649' TO 11693'. (44' AT 88 FT/HR) WOB 30K, GPM 491, SPP 2600 PSI, BIT RPM 244 P/U 303K, S/O 254K, MUD WT 9.7 PPG, GAS 601 UNITS, FLARE 4 FT,
9:30	0.50	INT1	DRL		11,738.00	0	DRILL ROTATE FROM 11693' TO 11738 (45 AT 90 FT/HR) WOB 30K, SPP 3200 PSI, GPM 581, SURFACE ROTARY 20, MUD MOTOR RPM 288, BIT RPM 308, TORQUE OFF BTM 8K, TORQUE ON BTM 16K, P/U WT 327K, S/O WT 243K, ROT WT 253K, GAS 575 UNITS, FLARE 4 FT, MUD WT 9.7
10:00	0.50	INT1	DRL		11,783.00	0	DRILL SLIDE FROM 11738' TO 11783'. (45' AT 90 FT/HR) WOB 25K, GPM 581, SPP 3100 PSI, BIT RPM 288 P/U 303K, S/O 254K, MUD WT 9.7 PPG, GAS 601 UNITS, FLARE 3 FT,
10:30	0.50	INT1	DRL		11,823.00	0	DRILL ROTATE FROM 11783' TO 11823' (40 AT 80 FT/HR) WOB 30K, SPP 3250 PSI, GPM 581, SURFACE ROTARY 20, MUD MOTOR RPM 288, BIT RPM 308, TORQUE OFF BTM 8K, TORQUE ON BTM 16K, P/U WT 315K, S/O WT 260K, ROT WT 280K, GAS 619 UNITS, FLARE 4 FT, MUD WT 9.7
11:00	0.50	INT1	DRL		11,910.00	0	DRILL SLIDE FROM 11823' TO 11910'. (87' AT 43.5 FT/HR) WOB 20K, GPM 581 , SPP 3175 PSI, BIT RPM 288 P/U 303K, S/O 254K, MUD WT 9.7 PPG, GAS 601 UNITS, FLARE 3 FT,
11:30	0.50	INT1	DRL		11,940.00	0	DRILL ROTATE FROM 11910' TO 11940' (30 AT 60 FT/HR) WOB 30K, SPP 3250 PSI, GPM 581, SURFACE ROTARY 20, MUD MOTOR RPM 288, BIT RPM 308, TORQUE OFF BTM 8K, TORQUE ON BTM 16K, P/U WT 315K, S/O WT 260K, ROT WT 280K, GAS 635 UNITS, FLARE 4 FT, MUD WT 9.7
12:00	2.00	INT1	CBU		11,940.00	0	AT CASING POINT. 11940' 88 DEGREES AT BIT. PUMP 2 - 25 BBL HIGH VIS SWEEPS.

EP WELLS DAILY OPERATIONS REPORT

Report 11

02/13/2017

Well UNIVERSITY 19 PW UNIT 1507H
Wellbore UNIVERSITY 19 PW UNIT 1507H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Description
14:00	6.50	INT1	TOH		11,940.00	0	PUMP 20 BBL 14 PPG SLUG. KILL WELL BY PUMPING 30 BBLS OF 14 PPG MUD DOWN ANNULUS.. POOH FROM 11940' TO 102' PUMPING CALCULATED DISPLACEMENT FOR FILL.
20:30	1.00	INT1	TOH		11,940.00	0	LAY DOWN BHA., BIT NO 4 SECURITY S/N 12870074- TYPE MM64C-GRADE 1-1 -NO-A-X-I-NO-TD
21:30	0.50	INT1	TOH		11,940.00	0	REMOVE WEAR BUSHING
22:00	1.50	INT1	RIC		11,940.00	0	HOLD PREJOB SAFETY MEETING TO RIG UP AND RUN 7 INCH CASING. RIG UP CASING EQUIPMENT. FUNCTION EMERGENCY KILL, AND SAFETY LATCH ON TONGS.
23:30	0.50	INT1	CLR		11,940.00	0	MAKE UP 7 INCH SHOE TRACK AND PUMP THROUGH.
Total	24.00						

Deepest 5 Surveys

MD (ft)	Inc. (°)	Azi. (°)	TVD (ft)	N/S (ft)	E/W (ft)	V.Sec (ft)	DLeg (°/100ft)	Tool
11,639.00	62.12	164.56	11,463.73	-483.58	-172.58	501.00	7.38	PTW MWD_2016
11,728.00	66.81	164.54	11,502.08	-560.97	-151.19	575.20	5.27	PTW MWD_2016
11,817.00	73.47	163.57	11,532.30	-641.40	-128.19	652.24	7.55	PTW MWD_2016
11,885.00	82.78	162.84	11,546.28	-705.04	-108.98	713.06	13.73	PTW MWD_2016
11,940.00	86.50	163.00	11,551.42	-757.37	-92.90	763.05	6.77	PTW MWD_2016

Fluid Details

Mud type	NaCl Brine	Oil/Water (%)	pH/Pm (cc) Pf/Mf (cc) Ca+ (ppm) Cl- (ppm)
MD (ft)		TS/HGS/LGS (%)	
Mud Density (ppg)		Sand (%)	
Vis (s/qt)		MBT (lbm/bbl)	
PV/YP (cp/lbf/100ft²)		LCM (lbm/bbl)	
Gels 10 s/m (lbf/100ft²)		ECD (ppg)	R600/300 (°)
API/HTHP WL (cc/30min)		H2S (gas unit)	R200/100 (°)
FC/HTHP FC (32nd")		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	MM64C			12870074	6x12	10,970.00	11,940.00	1-1-NO-A-X-I-NO-TD

EP WELLS DAILY OPERATIONS REPORT

Report 11

02/13/2017

Well UNIVERSITY 19 PW UNIT 1507H
Wellbore UNIVERSITY 19 PW UNIT 1507H

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)
11,159.00	20.0/20.0	0	550.0	2,900.00	609.03	21.00	195.40	2.50	155.00	62.0	4.00	189.00	47.2
11,199.00	30.0/30.0	20	600.0	3,200.00	728.57	22.77	255.00	0.50	40.00	80.0	5.00	318.00	63.6
11,248.00	30.0/30.0	0	600.0	3,100.00	724.80	23.38	253.68	0.50	89.00	178.0	5.00	318.00	63.6
11,288.00	30.0/30.0	20	600.0	3,100.00	728.57	23.50	255.00	0.50	40.00	80.0	5.50	358.00	65.1
11,337.00	30.0/30.0	0	600.0	3,100.00	724.80	23.38	253.68	1.00	49.00	49.0	6.50	407.00	62.6
11,381.00	30.0/30.0	20	600.0	3,100.00	728.57	23.50	255.00	1.00	44.00	44.0	7.50	451.00	60.1
11,426.00	47.0/47.0	0	582.0	3,200.00	681.96	21.31	231.53	0.50	45.00	90.0	8.00	496.00	62.0
11,470.00	25.0/25.0	20	582.0	3,000.00	685.51	22.85	232.73	0.50	44.00	88.0	8.50	540.00	63.5
11,515.00	30.0/30.0	0	582.0	3,250.00	681.96	20.98	231.53	0.50	45.00	90.0	9.00	585.00	65.0
11,560.00	30.0/30.0	20	491.0	2,656.00	487.90	18.37	139.74	0.50	45.00	90.0	9.50	630.00	66.3
11,604.00	34.0/34.0	0	491.0	2,650.00	485.37	18.32	139.02	0.50	44.00	88.0	10.00	674.00	67.4
11,649.00	30.0/30.0	20	491.0	2,650.00	490.43	18.51	140.47	0.50	45.00	90.0	10.50	719.00	68.5
11,693.00	30.0/30.0	0	491.0	2,600.00	490.43	18.86	140.47	0.50	44.00	88.0	11.00	763.00	69.4
11,738.00	30.0/30.0	20	581.0	3,200.00	686.70	21.46	232.73	0.50	45.00	90.0	11.50	808.00	70.3
11,783.00	25.0/25.0	0	581.0	3,100.00	686.70	22.15	232.73	0.50	45.00	90.0	12.00	853.00	71.1
11,823.00	30.0/30.0	20	581.0	3,250.00	686.70	21.13	232.73	0.50	40.00	80.0	12.50	893.00	71.4
11,910.00	20.0/20.0	0	581.0	3,175.00	686.70	21.63	232.73	0.50	87.00	174.0	13.00	980.00	75.4
11,940.00	30.0/30.0	20	581.0	3,250.00	686.70	21.13	232.73	0.50	30.00	60.0	13.50	1,010.00	74.8

Drillstring Components

Item description	# Jts	Length (ft)	OD (in)	Max OD (in)	ID (in)	Connection Name	Weight (ppf)	Grade	Serial no.
5" DRILL PIPE	301	10,403.20	5.000		4.276	4 1/2 IF			RIG
HWDP	12	365.53	5.000		2.875	4 1/2 IF			RIG
5" DRILL PIPE	24	1,069.95	5.000		4.276	4 1/2 IF			RIG
4.5" XO	1	3.45	5.000		2.875	4 1/2 IF			RIG
FLOAT SUB	1	2.45	6.312		2.875	4-1/2 XH			FS165098
SCREEN SUB	1	3.18	6.750		3.250	4-1/2 XH			DR24568
NMDC	1	30.44	6.375		2.875	4-1/2 XH			FL165288
GAP SUB ASSY SEALED VELOCITY	1	3.53	6.500		2.875	4-1/2 XH			VG650012P TS
650 CENTRALIZER COLLAR ASSY VELOCITY	1	8.53	6.562		2.875	4-1/2 XH			VC650044
650 LANDING SUB ASSY VELOCITY	1	3.52	6.560		2.880	4 1/2 IF			VL650027
650 XO SUB PHX VELOCITY	1	1.60	6.375		2.875	4 1/2 IF			VX650011
NMPC	1	15.05	6.375		2.875	4-1/2 XH			PXGPC6501 070
6.75" PHX MUD MOTOR 4/5 LOBE. STAGE 7. SET @ 2.38°	1	28.73	7.125			4 1/2 IF			24XH-67554 5-PTS
BIT #4 RUN #1 8.75" HALLIBURTON MM64C 6X12'S	1	0.84	8.750	8.750		4 1/2 REG			12870074

EP WELLS DAILY OPERATIONS REPORT

Report 11

02/13/2017

Well UNIVERSITY 19 PW UNIT 1507H
Wellbore UNIVERSITY 19 PW UNIT 1507H

Drillstring Details

Date/Time in		Date/Time out		BHA no.	BHA Length (ft)	Min. ID (in)	Purpose
02/12/2017 12:30		02/13/2017 21:30		4	466.85		DRILL 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)
11,159.00	300.0	230.00	0.00	300.00	0.0	0.0	155.00
11,199.00	310.0	240.00	260.00	50.00	16,000.0	12,000.0	40.00
11,248.00	310.0	240.00	0.00	310.00	0.0	0.0	49.00
11,288.00	315.0	240.00	260.00	55.00	16,000.0	12,000.0	40.00
11,337.00	315.0	240.00	0.00	315.00	0.0	0.0	49.00
11,381.00	315.0	240.00	260.00	55.00	16,000.0	8,000.0	44.00
11,426.00	327.0	243.00	0.00	327.00	0.0	0.0	45.00
11,470.00	327.0	243.00	253.00	74.00	16,000.0	8,000.0	44.00
11,515.00	327.0	243.00	0.00	327.00	0.0	0.0	45.00
11,560.00	327.0	243.00	253.00	74.00	16,000.0	8,000.0	45.00
11,604.00	316.0	238.00	0.00	316.00	0.0	0.0	44.00
11,649.00	316.0	238.00	263.00	53.00	16,000.0	8,000.0	45.00
11,693.00	303.0	254.00	0.00	303.00	0.0	0.0	44.00
11,738.00	327.0	243.00	253.00	74.00	16,000.0	8,000.0	45.00
11,783.00	303.0	254.00	0.00	303.00	0.0	0.0	45.00
11,823.00	315.0	260.00	280.00	35.00	16,000.0	8,000.0	40.00
11,910.00	303.0	254.00	0.00	303.00	0.0	0.0	87.00
11,940.00	315.0	260.00	280.00	35.00	16,000.0	8,000.0	30.00

Remarks

DIESEL FUEL ON HAND 12775 GALLONS
DIESEL FUEL USED 986 GALLONS
DIESEL FUEL DELIVERED 0 GALLONS
CNG USED 0 GALLONS

EP WELLS DAILY OPERATIONS REPORT

Report 12

02/14/2017

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 19 PW UNIT 1507H
Wellbore	UNIVERSITY 19 PW UNIT 1507H
WBS No/API No	30257940 / 4230133144.00

Event Summary

Event Type	Drilling only	Event Start Date	01/22/2017	Days on Location	11.56
Objective	Drill - Wolfcamp B1 Shale HZ	Original Spud Date	01/22/2017	Days Since Spud	9.83
Est. Days	26.00	Contractor	PRECISION		
Work Unit	PRECISION 559	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	J. C PALMER, ASHLEY HRIVNAK	Measured Depth(ft)	11,940.00
Engineer	YERMEK TYNYSHBAYEV	TVD(ft)	11,551.42
Other Supervisor	D. H. JOHNSON	24 Hr Progress(ft)	
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,769.50 / 2,743.50	Hole size(in)	8.750
THF Datum			
Daily NPT(hr/%)	0/0	Last Casing MD	9.625in@4,877.00ft
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	7.000in@11,650.00ft
		Current Fluid Density(ppg)	9.70
		LOT/FIT EMW(ppg)	
		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	125	TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	
Safety Comments: NO ACCIDENTS NO INCIDENTS HELD PRETOUR SAFETY MEETING WITH CREWS MAN HOURS 330							

HSE Drills

Drills/Tests	Date	Days Since Last	JSA's/Toolbox Talks Days Since Last Drill	12
Last Derrick Inspection	02/08/2017	6		
Last BOP function test	01/28/2017	17		
Last BOP Test	02/18/2017			
Next BOP Test				

Operations Summary

24 Hour Summary
RUN 7 INCH CASING TO 11925', INDUCE FLOW, CIRCULATE BOTTOMS UP, CEMENT CASING WITH FULL RETURNS, BUMP PLUG AND TEST CASING TO 2500 PSI FOR 30 MINUTES' RIG DOWN CEMENTERS
Update Since Report Time
INSTALL CAMERON PACK OFF AND TEST TO 10000 PSI , INSTALL BACK PRESSURE VALVE INSTALL BIT GUIDE. NIPPLE DOWN BOP'S
24 Hour Forecast
SKID RIG TO THE 1506H, NIPPLE UP, TEST BOPS WITH 4 INCH AND 5 INCH, P/U BHA , TIH TEST CASING TO 1500 PSI, DRILL OUT.

EP WELLS DAILY OPERATIONS REPORT

Report 12

02/14/2017

Well UNIVERSITY 19 PW UNIT 1507H
Wellbore UNIVERSITY 19 PW UNIT 1507H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Description
0:00	14.00	INT1	CLR		11,940.00	0	RUN 7 INCH CASING 29 # , P-110 LTC THREAD FROM 92 FT TO 8708 FT MAKE UP TORQUE 8800 FT LBS. RUN 7 INCH 29 LB/FT , P-110 TENARIS BLUE FROM 8708' BACK TO 1361' FILL CASING AND RUN CASING ,TENARIS BLUE TO SURFACE. TORQUE 11,000 FT/LBS. RUN CASING WITH NO RETURNS. TOTAL LENGTH OF CASING 11925' FLOAT COLLAR AT 11,830' LAND CASING HANGER..
14:00	4.50	INT1	RCC		11,940.00	0	RIG UP CEMENT HEAD.INDUCE FLOW , PUMP DOWN CASING TO FILL PIPE, PUMP 170 BBLs OF FRESH WATER DOWN ANNULUS, PUMP 120 BBLs OF 9.7 DOWN CASING , OPEN WELL AND CIRCULATE.BOTTOMS UP SHUT WELL IN WITH 250 PSI.
18:30	3.50	INT1	CEM		11,940.00	0	HOLD PREJOB SAFETY MEETING TO CEMENT 7 INCH CASING. TEST LINES TO 4500 PSI,CEMENT WHILE HOLDING BACK PRESSURE ON CHOKE, PUMP 50 BBL FRESH WATER SPACER, LEAD CEMENT 260 SKS PREMIUM CLASS C, WT 11 PPG, YIELD 3.67, 22.35 WATER GALLONS PER SACK, BBL SLURRY 170, TAIL CEMENT 465 SACKS PREMIUM CLASS H, 14.5 PPG, YIELD 1.20, 5.2 GALLONS PER SACK OF WATER, BBL SLURRY 99.7. DROP PLUG AND DISPLACE WITH 20 BBLs OF FRESH WATER 400 BBLs OF 9.7 MUD FOLLOW WITH 20 BBLs FRESH WATER PLUG BUMPED AT 21.16. WITH 500 PSI OVER BLEED BACK 2 BBLs ,FULL RETURNS DURING CEMENTING, TEST CASING TO 2500 PSI FOR 30 MINUTES. GOOD TEST.
22:00	1.00	INT1	LCH		11,940.00	0	WELL FLOWING DUE TO EXPANSION SHUT IN AND MONITOR PRESSURE BUILT TO 150 PSI. BLEED TO 0 , NO FLOW
23:00	1.00	INT1	LCH		11,940.00	0	RIG DOWN BAKER CEMENTERS.
Total	24.00						

Deepest 5 Surveys

MD (ft)	Inc. (°)	Azi. (°)	TVD (ft)	N/S (ft)	E/W (ft)	V.Sec (ft)	DLeg (°/100ft)	Tool
11,817.00	73.48	163.58	11,532.23	-640.18	-128.28	651.03	7.56	PTW MWD+HDGM_2016
11,817.00	73.47	163.57	11,532.30	-641.40	-128.19	652.24	7.55	PTW MWD_2016
11,885.00	82.78	162.84	11,546.20	-703.81	-109.07	711.86	13.72	PTW MWD+HDGM_2016
11,885.00	82.78	162.84	11,546.28	-705.04	-108.98	713.06	13.73	PTW MWD_2016
11,940.00	86.50	163.00	11,551.42	-757.37	-92.90	763.05	6.77	PTW MWD_2016

Fluid Details

Mud type	NaCl Brine	Oil/Water (%)	pH/Pm (cc)	7.00/0.00
MD (ft)	11,940.00	TS/HGS/LGS (%)	Pf/Mf (cc)	0.00/0.20
Mud Density (ppg)	9.70	Sand (%)	Ca+ (ppm)	
Vis (s/qt)	28.00		Cl- (ppm)	130,000
PV/YP (cp/lbf/100ft²)	1.00/3.000	MBT (lbm/bbl)		
Gels 10 s/m (lb/100ft²)	1.000/1.000	LCM (lbm/bbl)		
API/HTHP WL (cc/30min)	100.0/	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)		

Remarks

DIESEL FUEL ON HAND 10514 GALLONS
DIESEL FUEL USED 2261 GALLONS
DIESEL FUEL DELIVERED 0 GALLONS
CNG USED 0 GALLONS

EP WELLS DAILY OPERATIONS REPORT

Report 13

02/15/2017

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 19 PW UNIT 1507H
Wellbore	UNIVERSITY 19 PW UNIT 1507H
WBS No/API No	30257940 / 4230133144.00

Event Summary

Event Type	Drilling only	Event Start Date	01/22/2017	Days on Location	12.56
Objective	Drill - Wolfcamp B1 Shale HZ	Original Spud Date	01/22/2017	Days Since Spud	10.83
Est. Days	26.00	Contractor	PRECISION		
Work Unit	PRECISION 559	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	J. C PALMER, ASHLEY HRIVNAK	Measured Depth(ft)	11,940.00
Engineer	YERMEK TYNYSHBAYEV	TVD(ft)	11,551.42
Other Supervisor	D. H. JOHNSON	24 Hr Progress(ft)	
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,769.50 / 2,743.50	Hole size(in)	
THF Datum			
Daily NPT(hr/%)	0/0	Last Casing MD	9.625in@4,877.00ft
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	7.000in@11,650.00ft
Actual cost to date/AFE	885,742/3,106,955.00	Current Fluid Density(ppg)	
Actual divided by AFE	0.29	LOT/FIT EMW(ppg)	
Daily Cost	25,920	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	126	TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	
Safety Comments:	NO ACCIDENTS NO INCIDENTS						
	HELD PRETOUR SAFETY MEETING WITH BOTH CREWS						

HSE Drills

Drills/Tests	Date	Days Since Last		
Last Derrick Inspection			JSA's/Toolbox Talks	
Last BOP function test	02/08/2017	7	Days Since Last Drill	13
Last BOP Test	01/28/2017	18		
Next BOP Test	02/18/2017			

Operations Summary

24 Hour Summary
INSTALL PACK OFF, MAKE 50 K OVER PULL, TEST TO 10,000 PSI FOR 10 MINUTES, INSTALL BACK PRESSURE VALVE, INSTALL BIT GUIDE, NIPPLE DOWN BOP'S AND RELEASE RIG FROM 1507H TO THE 1506H, AT 0500 HOURS.
Update Since Report Time
24 Hour Forecast

EP WELLS DAILY OPERATIONS REPORT

Report 13

02/15/2017

Well UNIVERSITY 19 PW UNIT 1507H
Wellbore UNIVERSITY 19 PW UNIT 1507H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	1.50	INT1	WHD		11,940.00	0		INSTALL PACK OFF, MAKE 50K OVER PULL AND TEST TO 10,000 PSI FOR 15 MINUTES USING CHART RECORDER.
1:30	0.50	INT1	WHD		11,940.00	0		INSTALL BACK PRESSURE VALVE
2:00	3.00	INT1	RDP		11,940.00	0		NIPPLE DOWN BOP'S. RELEASE RIG FROM THE 1507H TO THE 1506H AT 0500 HOURS.
Total	5.00							

Deepest 5 Surveys

MD (ft)	Inc. (°)	Azi. (°)	TVD (ft)	N/S (ft)	E/W (ft)	V.Sec (ft)	DLeg (°/100ft)	Tool
11,817.00	73.48	163.58	11,532.23	-640.18	-128.28	651.03	7.56	PTW MWD+HDGM_2016
11,817.00	73.47	163.57	11,532.30	-641.40	-128.19	652.24	7.55	PTW MWD_2016
11,885.00	82.78	162.84	11,546.20	-703.81	-109.07	711.86	13.72	PTW MWD+HDGM_2016
11,885.00	82.78	162.84	11,546.28	-705.04	-108.98	713.06	13.73	PTW MWD_2016
11,940.00	86.50	163.00	11,551.42	-757.37	-92.90	763.05	6.77	PTW MWD_2016

Fluid Details

Mud type	NaCl Brine	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 14

03/13/2017

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 19 PW UNIT 1507H
Wellbore	UNIVERSITY 19 PW UNIT 1507H
WBS No/API No	30257940 / 4230133144.00

Event Summary

Event Type	Drilling only	Event Start Date	01/22/2017	Days on Location	13.56
Objective	Drill - Wolfcamp B1 Shale HZ	Original Spud Date	01/22/2017	Days Since Spud	10.89
Est. Days	26.00	Contractor	PRECISION		
Work Unit	PRECISION 559	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	J. C PALMER	Measured Depth(ft)	11,940.00
Engineer	YERMEK TYNYSHBAYEV	TVD(ft)	11,551.42
Other Supervisor	ASHLEY HRIVNAK	24 Hr Progress(ft)	
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,769.50 / 2,743.50	Hole size(in)	
THF Datum			
Daily NPT(hr/%)	5.00/24.39	Last Casing MD	9.625in@4,877.00ft
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	7.000in@11,650.00ft
Actual cost to date/AFE	940,915/3,106,955.00	Current Fluid Density(ppg)	13.50
Actual divided by AFE	0.30	LOT/FIT EMW(ppg)	
Daily Cost	27,912	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	152	TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	
Safety Comments:							
MAN HOURS : 298							

HSE Drills

Drills/Tests	Date	Days Since Last	JSA's/Toolbox Talks Days Since Last Drill	14
Last Derrick Inspection	02/08/2017	33		
Last BOP function test	01/28/2017	44		
Last BOP Test	02/18/2017			
Next BOP Test				

Operations Summary

24 Hour Summary
PREP TO WALK RIG. WALK RIG TO 1507H. C/O SPEED HEAD. N/U BOPE. ACCEPTED RIG @ 08:00. NPT: UNABLE TO PULL BPV THROUGH BIT GUIDE. PULL BIT GUIDE AND PULL BPV. REINSTALL BIT GUIDE. NPT: UNABLE TO CLOSE MANUAL TIW ON TOP DRIVE. C/O TIW & SAVER SUB. C/O SAVER SUB AND LOWER KELLY VALVE. CONDUCT DROPS INSPECTION FOR TRAVELING ASSEMBLY. P/U TEST PLUG. FILL BOPE. INSTALL NIPPLE AND HOSE.
Update Since Report Time
TESTING BOPE. CURRENTLY ON TEST 8 @04:00.
24 Hour Forecast
FINISH TESTING BOPE. M/U BHA. TIH. DISPLACE BRINE TO OBM. DRILL SHOETRACK AND DRILL NEW FORMATION.

EP WELLS DAILY OPERATIONS REPORT

Report 14

03/13/2017

Well UNIVERSITY 19 PW UNIT 1507H
Wellbore UNIVERSITY 19 PW UNIT 1507H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
3:30	2.50	MNH1	WLK		11,940.00	0		L/D V-DOOR. PREP TRANSER TANK TO WALK. INSTALL MATTING BOARDS FOR SOFT LOCATION. WAK AHEAD 20'.
6:00	1.00	MNH1	WLK		11,940.00	0		HOLD PJSM. WALK RIG F/ 1506 H T/ 1507 H
7:00	0.50	MNH1	RUP		11,940.00	0		C/O SPEED HEAD SEAL W/ CAMERON.
7:30	3.50	MNH1	RUP		11,940.00	0		N/U BOPS TO WELL HEAD. INSTALL SNUBBING LINES TO BOPS. L/D BOP HANDLER. H/U DERRICK ASSIST, KOOMEY LINES, AND GERONIMO LINE. PRESSURE KOOMEY UNIT AND FUNCTION TEST BOPS. RAISE V-DOOR. (ACCEPTED RIG @ 08:00)
11:00	1.00	MNH1	RUP		11,940.00	0		OPEN CASING VALVE AND ALLOW PRESSURE TO BLEED OFF.
12:00	2.50	MNH1	RUP		11,940.00	1		NPT: UNABLE TO PULL BPV THROUGH BIT GUIDE. PULL BIT GUIDE AND PULL BPV. REINSTALL BIT GUIDE.
14:30	1.00	MNH1	BOP		11,940.00	0		HOLD PJSM TO TEST BOPS.
15:30	2.50	MNH1	BOP		11,940.00	1		NPT: UNABLE TO CLOSE MANUAL TIW ON TOP DRIVE. C/O TIW & SAVER SUB.
18:00	4.50	MNH1	SSD		11,940.00	0		C/O SAVER SUB AND LOWER KELLY VALVE. CONDUCT DROPS INSPECTION FOR TRAVELING ASSEMBLY.
22:30	0.50	MNH1	BOP		11,940.00	0		PJSM W/ TESTERS.
23:00	1.00	MNH1	BOP		11,940.00	0		P/U SINGLE W/ TESTERS. INSTALL PULG AND TIGHTEN T/ 10,000. LAND IN STACK AND F/U BOPE. INSTALL NIPPLE AND HOSE.
Total	20.50							

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
03/13/2017 12:00	CAMERON INTERNATIONAL CORPORATION D	BOP & Pressure Control Equipment	11,940.00	RUP	EN	BOP Surface Controls Equipment	2.50	2.50		OPEN
Description: UNABLE TO PULL BPV THROUGH BIT GUIDE. PULL BIT GUIDE AND PULL BPV. REINSTALL BIT GUIDE.						Title: TROUBLESHOOT BIT GUIDE				
03/13/2017 15:30	PRECISION DRILLING COMPANY LP	Rig/Work Unit Misc	11,940.00	BOP	EN	Top Drive/Power Swivel	2.50	2.50		OPEN
Description: UNABLE TO CLOSE MANUAL TIW ON TOP DRIVE. C/O TIW & SAVER SUB						Title: C/O TIW & SAVER SUB				
Total							5.00	5.00		

Deepest 5 Surveys

MD (ft)	Inc. (°)	Azi. (°)	TVD (ft)	N/S (ft)	E/W (ft)	V.Sec (ft)	DLeg (°/100ft)	Tool
11,817.00	73.48	163.58	11,532.23	-640.18	-128.28	651.03	7.56	PTW MWD+HDGM_2016
11,885.00	82.78	162.84	11,546.20	-703.81	-109.07	711.86	13.72	PTW MWD+HDGM_2016
11,885.00	82.78	162.84	11,546.28	-705.04	-108.98	713.06	13.73	PTW MWD_2016
11,885.00	82.78	162.61	11,546.30	-703.10	-108.22	711.04	13.71	PTW MWD+HDGM+AXIAL_2016
11,940.00	86.50	163.00	11,551.42	-757.37	-92.90	763.05	6.77	PTW MWD_2016

EP WELLS DAILY OPERATIONS REPORT

Report 14

03/13/2017

Well UNIVERSITY 19 PW UNIT 1507H
Wellbore UNIVERSITY 19 PW UNIT 1507H

Fluid Details

Mud type	Invermul	Oil/Water (%)	55.00/17.50	POM (cc)	
MD (ft)	11,940.00	TS/HGS/LGS (%)	26.10//	CaCl2 (%)	
Mud Density (ppg)	13.50	Sand (%)	0.10	Caom/Clom (ppm)	
Vis (s/qt)	78.00	Oil/Water Ratio (%)	75.90/24.10	ACT	
PV/YP (cp/lbf/100ft ²)	24.00/12.000	LCM (lbm/bbl)		XS Lime(lbm/bbl)	0.00
Gels 10 s/m (lbf/100ft ²)	10.000/21.000	ECD (ppg)	13.500	ES (Volts)	0.0
API/HTHP WL (cc/30min)	0.0/	H2S (gas unit)		R600/300 (°)	
FC/HTHP FC (32nd")	4.0/	KCl (%)		R200/100 (°)	
WPS (ppm)	203,695			R6/3 (°)	
FL temp. (°F)		Ditch Magnet in Last 24hrs/Cum. (gm)			

Remarks

DIESEL FUEL ON HAND 9,939 GALLONS
DIESEL FUEL USED 472 GALLONS
DIESEL FULE DELIVERED 0 GALLONS
CNG USED 0 GALLONS

EP WELLS DAILY OPERATIONS REPORT

Report 15

03/14/2017

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 19 PW UNIT 1507H
Wellbore	UNIVERSITY 19 PW UNIT 1507H
WBS No/API No	30257940 / 4230133144.00

Event Summary

Event Type	Drilling only	Event Start Date	01/22/2017	Days on Location	14.56
Objective	Drill - Wolfcamp B1 Shale HZ	Original Spud Date	01/22/2017	Days Since Spud	11.89
Est. Days	26.00	Contractor	PRECISION		
Work Unit	PRECISION 559	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	DENNIS MORGAN/TREY HARGETT	Measured Depth(ft)	12,067.00
Engineer	YERMEK TYNYSHBAYEV	TVD(ft)	11,559.75
Other Supervisor	ASHLEY HRIVNAK	24 Hr Progress(ft)	127.00
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,769.50 / 2,743.50	Hole size(in)	6.125
THF Datum			
Daily NPT(hr/%)	0.50/2.08	Last Casing MD	7.000in@11,940.00ft
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	4.500in@21,992.00ft
Actual cost to date/AFE	1,020,697/3,106,955.00	Current Fluid Density(ppg)	13.50
Actual divided by AFE	0.33	LOT/FIT EMW(ppg)	
Daily Cost	79,132	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	153	TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	
Safety Comments:							
MAN HOURS: 303							

HSE Drills

Drills/Tests	Date	Days Since Last	JSA's/Toolbox Talks Days Since Last Drill	15
Last Derrick Inspection	03/14/2017	0		
Last BOP function test	03/14/2017	0		
Last BOP Test	04/04/2017			
Next BOP Test				

Operations Summary

24 Hour Summary
TESTED BOP. P/U AND M/U BHA. NPT: WAITED ON CLARIFICATION FOR BIT SELECTION. TIH T/ 4,706'. SLIP AND CUT DRILL LINE. TIH T/ 10,700'. TAG CEMENT @ 10,700'. DISPLACED HOLE W/ OBM WHILE DRILLING THE FLOAT COLLAR AND CEMENT. HARD CEMENT - YES. TAKE SPR AND FILL GAS BUSTER W/ OBM. DRILLED F/ 11,916' T/ 12,067'.
Update Since Report Time
NPT: TROUBLE SHOOT MWD. NPT: HYDRAULIC LEAK ON TOP DRIVE. TOOH T/ SHOE TO REPAIR SHOT PIN.
24 Hour Forecast
FINISH FIXING TOP DRIVE. TRIP BACK TO BOTTOM. DRILL AHEAD.

EP WELLS DAILY OPERATIONS REPORT

Report 15

03/14/2017

Well UNIVERSITY 19 PW UNIT 1507H
Wellbore UNIVERSITY 19 PW UNIT 1507H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	0.50	MNH1	BOP		11,940.00	0		BOP TEST #1. LEAK BY ANNULAR. DIAL PRESSURE F/ 700 PSI T/ 850 PSI.
0:30	2.50	MNH1	BOP		11,940.00	0		TEST #1 - F/ 12:40 T/ 12:55 TEST #2 - F/ 12:57 T/ 1:10 TEST #3 - F/ 1:20 T/ 1:31 TEST #4 - F/ 1:35 T/ 1:50 TEST #5 - F/ 1:55 T/ 2:10 TEST #6 - F/ 2:15 T/ 2:38 TEST #7 - F/ 2:45 T/ 3:02
3:00	1.00	MNH1	BOP		11,940.00	0		REMOVE TESTERS HOSE AND FITTING. PULL TEST PLUG. REMOVE TIW W/ TESTER TOOL COMBO. INSTALL PLUG AND SET.
4:00	0.50	MNH1	BOP		11,940.00	0		TEST #8 F/ 4:00 T/ 4:20.
4:30	0.50	MNH1	BOP		11,940.00	0		REMOVE TEST PLUG. R/U TESTER COMBO.
5:00	0.50	MNH1	BOP		11,940.00	0		TEST #9 F/ 4:56 T/ 5:18.
5:30	0.50	MNH1	BOP		11,940.00	0		R/D TESTER.
6:00	1.50	MNH1	BOP		11,940.00	0		CLOSE CASING VALVE. LINE UP CHOKE AND SHAKER SCREENS.
7:30	1.50	MNH1	BHA		11,940.00	0		HOLD PJSM. P/U AND M/U DIRECTIONAL TOOLS. OD AND ID ELEVATORS AND LIFT NIPPLE.
9:00	0.50	MNH1	BHA		11,940.00	1		NPT: WAIT ON CLARIFICATION FOR BIT SELECTION.
9:30	2.50	MNH1	TIH		11,940.00	0		TIH F/ 95' T/ 4,706'. INSTALLED DOG LEG REAMER, AGITATOR, AND SHOCK SUB IN TO STRING.
12:00	2.50	MNH1	CUT		11,940.00	0		HOLD PJSM AND CUT OFF 100' DRILLING LINE.
14:30	3.50	MNH1	TIH		11,940.00	0		TIH W/ DP F/ 4,706 T/ 10,700'.
18:00	1.00	MNH1	DCM		11,940.00	0		TAG CEMENT @ 10,700'. FILL PIPE AND WASH F/ 10,700' 0 11,811' (FLOAT @ 11,811').
19:00	2.00	MNH1	DCM		11,940.00	0		DISPLACE HOLE W/ OBM WHILE DRILLING THE FLOAT COLLAR AND CEMENT.
21:00	0.50	MNH1	DCM		11,940.00	0		DRILLING CEMENT AND SHOE (SHOE @ 11,906'). HARD CEMENT - YES.
21:30	0.50	MNH1	DRL		11,940.00	0		DRILLING 10' OF HOLE. SPR AND FILL GAS BUSTER W/ OBM. SPR @11,916' W/ 13.6 PPG MW. #1 @30 = 1000 @40 = 1240 @50 = 1525 #2 @30 = 952 @40 = 1221 @50 = 1505
22:00	1.00	MNH1	DRL		11,992.00	0		ROTATE DRILLING F/11,940' T/11,992' (52' @ 76 FT/HR) WOB: 25-30K RPM: SURFACE 85 MOTOR 240 BIT 325 PRESSURE AND FLOW: SPP 5410, GPM 300 TORQUE: ON BOTTOM 6-12 OFF BOTTOM 3-5 STRING WEIGHT: UP 200K DOWN 160K ROTATING 185K MW: 13.6 PPG MOTOR REVS/GAL 0.8 GAS: 1487 UNITS FLARE: NONE
23:00	0.50	MNH1	DRL		12,003.00	0		SLIDE DRILLING F/ 11,992' T/ 12,003' (11' @22 FT/HR) WOB: 10-15K RPM: SURFACE 0 MOTOR 244 BIT 244 PRESSURE AND FLOW: SPP 5371, GPM 305 STRING WEIGHT: UP 200K DOWN 160K ROTATING 0K MW: 13.6 PPG MOTOR REVS/GAL .8

EP WELLS DAILY OPERATIONS REPORT

Report 15

03/14/2017

Well UNIVERSITY 19 PW UNIT 1507H
Wellbore UNIVERSITY 19 PW UNIT 1507H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								GAS: 303 UNITS FLARE: XXX
23:30	0.50	MNH1	DRL		12,067.00	0		ROTATE DRILLING F/12,003' T/12,067' (64' @ 128 FT/HR) WOB: 25-30K RPM: SURFACE 85 MOTOR 240 BIT 325 PRESSURE AND FLOW: SPP 5410, GPM 300 TORQUE: ON BOTTOM 6-12 OFF BOTTOM 3-5 STRING WEIGHT: UP 200K DOWN 160K ROTATING 185K MW: 13.6 PPG MOTOR REVS/GAL 0.8 GAS: 1487 UNITS FLARE: NONE
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
03/14/2017 09:00	SHELL	Wait On Decision	11,940.00	BHA	N		0.50	0.50		OPEN
Description: WAIT ON CLARIFICATION FOR BIT SELECTION.						Title: WAIT ON CLARIFICATION FOR BIT SELECTION.				
Total							0.50	0.50		

Deepest 5 Surveys

MD (ft)	Inc. (°)	Azi. (°)	TVD (ft)	N/S (ft)	E/W (ft)	V.Sec (ft)	DLeg (°/100ft)	Tool
11,885.00	82.78	162.84	11,546.20	-703.81	-109.07	704.06	13.72	PTW MWD+HDGM_2016
11,885.00	82.78	162.84	11,546.28	-705.04	-108.98	705.28	13.73	PTW MWD_2016
11,885.00	82.78	162.61	11,546.30	-703.10	-108.22	703.34	13.71	PTW MWD+HDGM+AXIAL_2016
11,940.00	86.50	163.00	11,551.42	-757.37	-92.90	757.58	6.77	PTW MWD_2016
12,050.00	86.00	163.00	11,558.61	-862.34	-60.81	862.47	0.45	PTW MWD_2016

Fluid Details

Mud type	Invermul	Oil/Water (%)	55.00/17.50	POM (cc)	
MD (ft)	11,940.00	TS/HGS/LGS (%)	26.10//	CaCl2 (%)	
Mud Density (ppg)	13.50	Sand (%)	0.10	Caom/Clom (ppm)	
Vis (s/qt)	78.00	Oil/Water Ratio (%)	75.90/24.10	ACT	
PV/YP (cp/lbf/100ft²)	24.00/12.000			XS Lime(lbm/bbl)	0.00
Gels 10 s/m (lbf/100ft²)	10.000/21.000	LCM (lbm/bbl)		ES (Volts)	0.0
API/HTHP WL (cc/30min)	0.0/	ECD (ppg)	13.500	R600/300 (°)	
FC/HTHP FC (32nd")	4.0/	H2S (gas unit)		R200/100 (°)	
WPS (ppm)	203,695	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
5	6.125	HALLIBURTON	SFD55C			12887973	5x16	11,940.00		-----

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)
11,992.00	25.0/30.0	85	300.0	5,410.00	116.10	2.15	20.32	1.00	52.00	52.0	1.00	52.00	52.0
12,003.00	10.0/15.0	0	305.0	5,371.00	120.00	2.23	21.35	0.50	11.00	22.0	1.50	63.00	42.0
12,067.00	25.0/30.0	85	300.0	5,410.00	116.10	2.15	20.32	0.50	64.00	128.0	2.00	127.00	63.5

EP WELLS DAILY OPERATIONS REPORT

Report 15

03/14/2017

Well UNIVERSITY 19 PW UNIT 1507H
Wellbore UNIVERSITY 19 PW UNIT 1507H

Drillstring Components

Item description	# Jts	Length (ft)	OD (in)	Max OD (in)	ID (in)	Connection Name	Weight (ppf)	Grade	Serial no.
4" DRILL PIPE	237	7,449.45	4.000		3.340	XT-39			RIG
5" SHOCK SUB	1	11.15	5.010			XT-39			W1885763
4" DRILL PIPE	64	2,871.92	4.000		3.340	XT-39			RIG
5" AGITATOR SHOCK SUB COMBO	1	23.22	5.020		2.000	XT-39			ASA500014
4" DRILL PIPE	34	1,522.34	4.000		3.340	XT-39			RIG
6" DOGLEG REAMER	1	4.30	5.700			XT-39			B1/A204231
4" DRILL PIPE	2	89.59	4.000		3.340	XT-39			RIG
X-O SUB	1	2.06	5.070		2.500	XT-39			DR14249
FLOAT SUB	1	2.12	4.510		1.800	3 1/2 IF			FS47552
SCREEN SUB	1	3.70	4.810		4.250	3 1/2 IF			DR31950
NMDC	1	29.03	4.530		2.625	3 1/2 IF			NESNM475559
475 GAP SUB ASSY DBL SEAL PHX VELOCITY	1	3.78	5.200		2.880	3 1/2 IF			VG475081PTS
475 CENTRALIZER COLLAR VELOCITY	1	8.35	5.200		3.630	4.3 ACME			VC475055
475 LANDING SUB ASSY VELOCITY	1	3.42	5.050		3.140	4.3 ACME			VL475035
475 X-O SUB VELOCITY	1	1.66	4.750		2.660	3 1/2 IF			VX475052
NON MAG PONY COLLAR	1	14.40	4.700		2.625	3 1/2 IF			NESPC475436
MUD MOTOR 500 NOV 513 FBH LOBE 6/7. STAGE 6.4. SET @	1	25.56	5.370			3 1/2 IF			24XH-513001-PTS
BIT# 5 RUN# 1 6.125" HALLIBURTON SFD55C (5X16's)	1	0.95	6.125	6.125		3 1/2 REG			12887973

Drillstring Details

Date/Time in		Date/Time out		BHA no.	BHA Length (ft)	Min. ID (in)	Purpose
03/14/2017 09:00				5	133.70		DRILL 6.125" PRODUCTION 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)
11,992.00	200.0	160.00	185.00	15.00	12,000.0	5,000.0	52.00
12,003.00	200.0	160.00	0.00	200.00	0.0	0.0	11.00
12,067.00	200.0	160.00	185.00	15.00	12,000.0	5,000.0	64.00

Remarks

DIESEL FUEL ON HAND 17,433 GALLONS
DIESEL FUEL USED 1092 GALLONS
DIESEL FUEL DELIVERED 6999 GALLONS
CNG USED 3.86 GALLONS

EP WELLS DAILY OPERATIONS REPORT

Report 17

03/16/2017

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 19 PW UNIT 1507H
Wellbore	UNIVERSITY 19 PW UNIT 1507H
WBS No/API No	30257940 / 4230133144.00

Event Summary

Event Type	Drilling only	Event Start Date	01/22/2017	Days on Location	16.56
Objective	Drill - Wolfcamp B1 Shale HZ	Original Spud Date	01/22/2017	Days Since Spud	13.89
Est. Days	26.00	Contractor	PRECISION		
Work Unit	PRECISION 559	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	DENNIS MORGAN/TREY HARGETT	Measured Depth(ft)	13,753.00
Engineer	YERMEK TYNYSHBAYEV	TVD(ft)	11,580.43
Other Supervisor	TANNER MANUEL/DALY	24 Hr Progress(ft)	689.00
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,769.50 / 2,743.50	Hole size(in)	6.125
THF Datum			
Daily NPT(hr/%)	12.00/50.00	Last Casing MD	7.000in@11,940.00ft
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	4.500in@21,992.00ft
Actual cost to date/AFE	1,122,630/3,106,955.00	Current Fluid Density(ppg)	13.40
Actual divided by AFE	0.36	LOT/FIT EMW(ppg)	
Daily Cost	59,079	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	155	TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	
Safety Comments:							
MAN HOURS - 327							

HSE Drills

Drills/Tests	Date	Days Since Last	JSA's/Toolbox Talks Days Since Last Drill	17
Last Derrick Inspection	03/14/2017	2		
Last BOP function test	03/14/2017	2		
Next BOP Test	04/04/2017			

Operations Summary

24 Hour Summary
ROTATE & DRILL F/ 13064' - T/ 13753'. CIRCULATE & POOH FOR LACK OF ROP. L/D MWD, MOTOR, & BIT. P/U & TIH W/ NEW BIT, MOTOR, & MWD.
Update Since Report Time
TIH @ 8000'
24 Hour Forecast
CONTINUE DRILLING 6-1/8" PRODUCTION SECTION

EP WELLS DAILY OPERATIONS REPORT

Report 17

03/16/2017

Well UNIVERSITY 19 PW UNIT 1507H
Wellbore UNIVERSITY 19 PW UNIT 1507H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	1.00	MNH1	DRL		13,100.00	0		SLIDE DRILL F/13064' T/13,100 (36' @ 36 FT/HR) WOB: 20-26K RPM: SURFACE MOTOR 248 BIT 248 PRESSURE AND FLOW: SPP 5400, GPM 310 TORQUE: ON BOTTOM 8-12 OFF BOTTOM 3-5 STRING WEIGHT: UP 191K DOWN 130K ROTATING 164K MW: 13.4 PPG MOTOR REVS/GAL 0.8 GAS: 300-1200 UNITS FLARE: NONE
1:00	2.50	MNH1	DRL		13,244.00	0		ROTATE DRILL F/13,100' T/13,244' (144' @ 57.6 FT/HR) WOB: 30-35K RPM: SURFACE 100 MOTOR 248 BIT 348 PRESSURE AND FLOW: SPP 5425, GPM 310 TORQUE: ON BOTTOM 8-12 OFF BOTTOM 3-5 STRING WEIGHT: UP 191K DOWN 130K ROT 164K MW: 13.4 PPG MOTOR REVS/GAL 0.8 GAS: 300-1200 UNITS FLARE: NONE
3:30	1.00	MNH1	DRL		13,270.00	0		SLIDE DRILL F/13244' T/13,270 (26' @ 26 FT/HR) WOB: 20-26K RPM: SURFACE MOTOR 248 BIT 248 PRESSURE AND FLOW: SPP 5400, GPM 310 TORQUE: ON BOTTOM 8-12 OFF BOTTOM 3-5 STRING WEIGHT: UP 191K DOWN 130K ROTATING 164K MW: 13.4 PPG MOTOR REVS/GAL 0.8 GAS: 300-1200 UNITS FLARE: NONE
4:30	1.00	MNH1	DRL		13,333.00	0		ROTATE DRILL F/13,270' T/13,333' (63' @ 63 FT/HR) WOB: 30-35K RPM: SURFACE 100 MOTOR 248 BIT 348 PRESSURE AND FLOW: SPP 5400, GPM 310 TORQUE: ON BOTTOM 8-12 OFF BOTTOM 3-5 STRING WEIGHT: UP 191K DOWN 130K ROT 164K MW: 13.4 PPG MOTOR REVS/GAL 0.8 GAS: 300-1200 UNITS FLARE: NONE
5:30	0.50	MNH1	DRL		13,357.00	0		SLIDE DRILL F/13,333' T/13,357 (24' @ 48 FT/HR) WOB: 20-26K RPM: SURFACE MOTOR 248 BIT 248 PRESSURE AND FLOW: SPP 5400, GPM 310 TORQUE: ON BOTTOM 8-12 OFF BOTTOM 3-5 STRING WEIGHT: UP 191K DOWN 130K ROTATING 164K MW: 13.4 PPG MOTOR REVS/GAL 0.8 GAS: 300-1200 UNITS FLARE: NONE
6:00	6.00	MNH1	DRL		13,753.00	0		ROTATE DRILL F/13,357' T/13,753' (396' @ 66 FT/HR) WOB: 30-35K RPM: SURFACE 100 MOTOR 248 BIT 348 PRESSURE AND FLOW: SPP 5460, GPM 310 TORQUE: ON BOTTOM 8-13 OFF BOTTOM 3-7 STRING WEIGHT: UP 191K DOWN 130K ROT 164K MW: 13.4 PPG MOTOR REVS/GAL 0.8 GAS: 300-1200 UNITS FLARE: NONE
12:00	1.00	MNH1	CDM		13,753.00	1		NPT-CIRCULATE & PREPARE TO TOOH DUE TO LACK OF ROP. FLOW CHECK. NO FLOW.
13:00	5.00	MNH1	TOH		13,753.00	1		NPT-PULL 5 STDS PUMP SLUG & POOH F/13753 T/5245.
18:00	1.00	MNH1	TOH		13,753.00	1		NPT-POOH F/5245' T/4484. PULL ROTATING HEAD. L/D AGITATOR.

EP WELLS DAILY OPERATIONS REPORT

Report 17

03/16/2017

Well UNIVERSITY 19 PW UNIT 1507H
Wellbore UNIVERSITY 19 PW UNIT 1507H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
19:00	3.00	MNH1	BHA		13,753.00	1		NPT-POOH F/4484' T/ BHA. L/D MWD, MUD MOTOR, & BIT. BIT# 5 RUN# 1 6.125" HALLIBURTON SFD55C (5X16's) SN: 12887973 (BIT GRADE:4-8-RO-S-X-I-CT-PR)
22:00	0.50	MNH1	BHA		13,753.00	1		NPT-CLEAN RIG FLOOR & PREPARE TO TIH.
22:30	1.50	MNH1	BHA		13,753.00	1		NPT-M/U NEW BIT, MUD MOTOR, & MWD. TIH.
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
03/16/2017 12:00	HALLIBURTON ENERGY SERVICES INC	Drill Bits, Under-reamers & SWRD	13,753.00	CDM	EN	Bits	0.00	0.00		OPEN
Description: TRIP OUT OF HOLE TO CHANGE BHA DUE TO LOW ROP						Title: TOOHO DUE TO LOW ROP				
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
13,183.00	85.54	160.18	11,569.64	-1,930.38	313.78	1,954.87	1.34	PTW MWD_2016
13,272.00	87.79	158.44	11,574.82	-2,013.49	345.17	2,042.42	3.19	PTW MWD_2016
13,452.00	90.50	162.65	11,577.50	-2,183.14	405.10	2,220.35	2.78	PTW MWD_2016
13,541.00	89.24	164.15	11,577.70	-2,268.42	430.52	2,308.91	2.20	PTW MWD_2016
13,631.00	89.27	165.36	11,578.88	-2,355.25	454.18	2,398.64	1.34	PTW MWD_2016

Fluid Details

Mud type	Invermul	Oil/Water (%)	56.00/16.00	POM (cc)	
MD (ft)	13,753.00	TS/HGS/LGS (%)	26.40//	CaCl2 (%)	
Mud Density (ppg)	13.40	Sand (%)	0.00	Caom/Clom (ppm)	
Vis (s/qt)	51.00	Oil/Water Ratio (%)	77.80/22.20	ACT	
PV/YP (cp/lbf/100ft²)	22.00/12.000	LCM (lbm/bbl)		XS Lime(lbm/bbl)	3.37
Gels 10 s/m (lb/100ft²)	7.000/12.000	ECD (ppg)	13.460	ES (Volts)	442.0
API/HTHP WL (cc/30min)	0.0/	H2S (gas unit)		R600/300 (°)	
FC/HTHP FC (32nd")	0.0/4.0	KCl (%)		R200/100 (°)	
WPS (ppm)	232,568			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
5	6.125	HALLIBURTON	SFD55C			12887973	5x16	11,940.00	13,753.00	4-8-RO-S-X-I-CT-PR

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)
13,100.00	20.0/26.0	0	310.0	5,400.00	123.05	2.28	22.25	1.00	36.00	36.0	17.50	1,160.00	66.3
13,244.00	30.0/35.0	100	310.0	5,425.00	123.05	2.27	22.25	2.50	144.00	57.6	20.00	1,304.00	65.2
13,270.00	20.0/26.0	0	310.0	5,400.00	123.05	2.28	22.25	1.00	26.00	26.0	21.00	1,330.00	63.3
13,333.00	30.0/35.0	100	310.0	5,400.00	123.05	2.28	22.25	1.00	63.00	63.0	22.00	1,393.00	63.3
13,357.00	20.0/26.0	0	310.0	5,400.00	123.05	2.28	22.25	0.50	24.00	48.0	22.50	1,417.00	63.0
13,753.00	30.0/35.0	100	310.0	5,460.00	123.05	2.25	22.25	6.00	396.00	66.0	28.50	1,813.00	63.6

EP WELLS DAILY OPERATIONS REPORT

Report 17

03/16/2017

Well UNIVERSITY 19 PW UNIT 1507H
Wellbore UNIVERSITY 19 PW UNIT 1507H

Drillstring Components									
Item description	# Jts	Length (ft)	OD (in)	Max OD (in)	ID (in)	Connection Name	Weight (ppf)	Grade	Serial no.
4" DRILL PIPE	269	9,135.45	4.000		3.340	XT-39			RIG
5" SHOCK SUB	1	11.15	5.010			XT-39			W1885763
4" DRILL PIPE	64	2,871.92	4.000		3.340	XT-39			RIG
5" AGITATOR SHOCK SUB COMBO	1	23.22	5.020		2.000	XT-39			ASA500014
4" DRILL PIPE	34	1,522.34	4.000		3.340	XT-39			RIG
6" DOGLEG REAMER	1	4.30	5.700			XT-39			B1/A204231
4" DRILL PIPE	2	89.59	4.000		3.340	XT-39			RIG
X-O SUB	1	2.06	5.070		2.500	XT-39			DR14249
FLOAT SUB	1	2.12	4.510		1.800	3 1/2 IF			FS47552
SCREEN SUB	1	3.70	4.810		4.250	3 1/2 IF			DR31950
NMDC	1	29.03	4.530		2.625	3 1/2 IF			NESNM475559
475 GAP SUB ASSY DBL SEAL PHX VELOCITY	1	3.78	5.200		2.880	3 1/2 IF			VG475081PTS
475 CENTRALIZER COLLAR VELOCITY	1	8.35	5.200		3.630	4.3 ACME			VC475055
475 LANDING SUB ASSY VELOCITY	1	3.42	5.050		3.140	4.3 ACME			VL475035
475 X-O SUB VELOCITY	1	1.66	4.750		2.660	3 1/2 IF			VX475052
NON MAG PONY COLLAR	1	14.40	4.700		2.625	3 1/2 IF			NESPC475436
MUD MOTOR 500 NOV 513 FBH LOBE 6/7. STAGE 6.4. SET @	1	25.56	5.370			3 1/2 IF			24XH-513001-PTS
BIT# 5 RUN# 1 6.125" HALLIBURTON SFD55C (5X16's)	1	0.95	6.125	6.125		3 1/2 REG			12887973

Drillstring Details							
Date/Time in		Date/Time out		BHA no.	BHA Length (ft)	Min. ID (in)	Purpose
03/14/2017 09:00		03/16/2017 22:00		5	133.70		DRILL 6.125" PRODUCTION 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)
13,100.00	191.0	130.00	0.00	191.00	0.0	0.0	36.00
13,244.00	191.0	130.00	164.00	27.00	12,000.0	5,000.0	144.00
13,270.00	191.0	130.00	0.00	191.00	0.0	0.0	26.00
13,333.00	191.0	130.00	164.00	27.00	12,000.0	5,000.0	63.00
13,357.00	191.0	130.00	0.00	191.00	0.0	0.0	24.00
13,753.00	191.0	130.00	164.00	27.00	13,000.0	7,000.0	396.00

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
6	6.125	BAKER HUGHES	TD405FX			7161725	5x16	13,753.00		-----

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.
4" DRILL PIPE	290	9,045.63	4.000		3.340	XT-39			RIG

EP WELLS DAILY OPERATIONS REPORT

Report 17

03/16/2017

Well UNIVERSITY 19 PW UNIT 1507H
Wellbore UNIVERSITY 19 PW UNIT 1507H

Drillstring Components									
Item description	# Jts	Length (ft)	OD (in)	Max OD (in)	ID (in)	Connection Name	Weight (ppf)	Grade	Serial no.
5" SHOCK SUB	1	11.15	5.010			XT-39			W1885763
4" DRILL PIPE	64	2,871.92	4.000		3.340	XT-39			RIG
5" AGITATOR SHOCK SUB COMBO	1	23.22	5.020		2.000	XT-39			ASA500014
4" DRILL PIPE	36	1,612.11	4.000		3.340	XT-39			RIG
6" DOGLEG REAMER	1	4.30	5.700			XT-39			B1/A204231
4" DRILL PIPE	2	89.59	4.000		3.340	XT-39			RIG
X-O SUB	1	2.06	5.070		2.500	XT-39			DR14249
FLOAT SUB	1	2.12	4.510		1.800	3 1/2 IF			FS47552
SCREEN SUB	1	3.70	4.810		4.250	3 1/2 IF			DR31950
NMDC	1	29.03	4.530		2.625	3 1/2 IF			NESNM475559
475 GAP SUB ASSY DBL SEAL PHX VELOCITY	1	3.77	5.200		2.880	3 1/2 IF			VG475099PTS
475 CENTRALIZER COLLAR VELOCITY	1	8.35	5.200		3.630	4.3 ACME			VC475029
475 LANDING SUB ASSY VELOCITY	1	3.42	5.050		3.140	4.3 ACME			VL475046
475 X-O SUB VELOCITY	1	1.18	4.750		2.660	3 1/2 IF			VX475030
NON MAG PONY COLLAR	1	14.40	4.700		2.625	3 1/2 IF			NESPC475436
MUD MOTOR 500 NOV 513 FBH LOBE 6/7. STAGE 6.4. SET @	1	25.88	5.370			3 1/2 IF			24XH-513031-PTS
BIT# 6 RUN# 1 6.125" BAKER TD405FX (5X16's) SN: 7161725	1	1.17	6.125	6.125		3 1/2 REG			7161725
Drillstring Details									
Date/Time in	Date/Time out		BHA no.	BHA Length (ft)		Min. ID (in)	Purpose		
03/16/2017 22:00			6	267.45			DRILL 6.125" PRODUCTION SECTION		
Remarks									
DIESEL FUEL ON HAND 10305 GALLONS DIESEL FUEL USED 2670 GALLONS DIESEL FUEL DELIVERED 0 GALLONS CNG USED GALLONS									

EP WELLS DAILY OPERATIONS REPORT

Report 19

03/18/2017

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 19 PW UNIT 1507H
Wellbore	UNIVERSITY 19 PW UNIT 1507H
WBS No/API No	30257940 / 4230133144.00

Event Summary

Event Type	Drilling only	Event Start Date	01/22/2017	Days on Location	18.56
Objective	Drill - Wolfcamp B1 Shale HZ	Original Spud Date	01/22/2017	Days Since Spud	15.89
Est. Days	26.00	Contractor	PRECISION		
Work Unit	PRECISION 559	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	DENNIS MORGAN/TREY HARGETT	Measured Depth(ft)	16,940.00
Engineer	YERMEK TYNYSHBAYEV	TVD(ft)	11,575.95
Other Supervisor	TANNER MANUEL/DALY	24 Hr Progress(ft)	1,912.00
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,769.50 / 2,743.50	Hole size(in)	6.125
THF Datum			
Daily NPT(hr/%)	0/0	Last Casing MD	7.000in@11,940.00ft
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	4.500in@21,992.00ft
Actual cost to date/AFE	1,235,055/3,106,955.00	Current Fluid Density(ppg)	13.50
Actual divided by AFE	0.40	LOT/FIT EMW(ppg)	
Daily Cost	57,452	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	157	TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	
Safety Comments:							
MAN HRS: 237							

HSE Drills

Drills/Tests	Date	Days Since Last	JSA's/Toolbox Talks Days Since Last Drill	19
Last Derrick Inspection	03/14/2017	4		
Last BOP function test	03/14/2017	4		
Last BOP Test	04/04/2017			

Operations Summary

24 Hour Summary
ROTATE & SLIDE DRILL F/15,028' - T/16,940' (1,912' @ 79.7'/HR)
Update Since Report Time
DRILLING LATERAL @ 17,200'.
24 Hour Forecast
CONTINUE DRILLING 6.125" LATERAL SECTION.

EP WELLS DAILY OPERATIONS REPORT

Report 19

03/18/2017

Well UNIVERSITY 19 PW UNIT 1507H
Wellbore UNIVERSITY 19 PW UNIT 1507H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	5.50	MNH1	DRL		15,566.00	0		ROTATE DRILL F/15,028' T/15,566' (538' @ 97.8 FT/HR) WOB: 28 - 35K RPM: SURFACE 100 MOTOR 252 BIT 352 PRESSURE AND FLOW: SPP 5785, GPM 315 TORQUE: ON BOTTOM 8-13 OFF BOTTOM 3-7 STRING WEIGHT: UP 210K DOWN 130K ROT 165K MW: 13.5 PPG MOTOR REVS/GAL 0.8 GAS: 300-1200 UNITS FLARE: NONE
5:30	0.50	MNH1	SVC		15,566.00	0		RIG SERVICE: TOP DRIVE
6:00	2.50	MNH1	DRL		15,761.00	0		ROTATE DRILL F/15,566' T/15,761' (195' @ 78 FT/HR) WOB: 28 - 35K RPM: SURFACE 100 MOTOR 252 BIT 352 PRESSURE AND FLOW: SPP 6075, GPM 315 TORQUE: ON BOTTOM 13 OFF BOTTOM 8 STRING WEIGHT: UP 210K DOWN 130K ROT 170K MW: 13.5 PPG MOTOR REVS/GAL 0.8 GAS: 300-2000 UNITS FLARE: NONE
8:30	1.00	MNH1	DRL		15,805.00	0		SLIDE DRILL F/15,761' T/15,805' (44' @ 44 FT/HR) WOB: 30K RPM: SURFACE MOTOR 252 BIT 252 PRESSURE AND FLOW: SPP 6075, GPM 315 TORQUE: ON BOTTOM 13 OFF BOTTOM 8 STRING WEIGHT: UP 210K DOWN 130K ROT 170K MW: 13.5 PPG MOTOR REVS/GAL 0.8 GAS: 300-2000 UNITS FLARE: NONE
9:30	2.50	MNH1	DRL		16,034.00	0		ROTATE DRILL F/15,805' T/16,034' (229' @ 91.6 FT/HR) WOB: 28 - 35K RPM: SURFACE 100 MOTOR 244 BIT 344 PRESSURE AND FLOW: SPP 5760, GPM 305 TORQUE: ON BOTTOM 13 OFF BOTTOM 8 STRING WEIGHT: UP 220K DOWN 120K ROT 170K MW: 13.5 PPG MOTOR REVS/GAL 0.8 GAS: 300-2000 UNITS FLARE: NONE
12:00	1.50	MNH1	DRL		16,075.00	0		SLIDE DRILL F/16,034' T/16,075' (41' @ 27.3 FT/HR) WOB: 30K RPM: SURFACE MOTOR 244 BIT 244 PRESSURE AND FLOW: SPP 5760, GPM 305 TORQUE: ON BOTTOM 13 OFF BOTTOM 8 STRING WEIGHT: UP 220K DOWN 120K ROT 170K MW: 13.5 PPG MOTOR REVS/GAL 0.8 GAS: 300-2000 UNITS FLARE: NONE
13:30	3.00	MNH1	DRL		16,390.00	0		ROTATE DRILL F/16,075' T/16,390' (315' @ 105 FT/HR) WOB: 28 - 35K RPM: SURFACE 100 MOTOR 244 BIT 344 PRESSURE AND FLOW: SPP 5760, GPM 305 TORQUE: ON BOTTOM 13 OFF BOTTOM 8 STRING WEIGHT: UP 220K DOWN 120K ROT 170K MW: 13.5 PPG MOTOR REVS/GAL 0.8 GAS: 300-2000 UNITS FLARE: NONE
16:30	1.00	MNH1	DRL		16,420.00	0		SLIDE DRILL F/16,390' T/16,420' (30' @ 30 FT/HR) WOB: 30K RPM: SURFACE MOTOR 244 BIT 244 PRESSURE AND FLOW: SPP 5760, GPM 305

EP WELLS DAILY OPERATIONS REPORT

Report 19

03/18/2017

Well UNIVERSITY 19 PW UNIT 1507H
Wellbore UNIVERSITY 19 PW UNIT 1507H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								TORQUE: ON BOTTOM 13 OFF BOTTOM 8 STRING WEIGHT: UP 220K DOWN 120K ROT 170K MW: 13.5 PPG MOTOR REVS/GAL 0.8 GAS: 300-2000 UNITS FLARE: NONE
17:30	1.50	MNH1	DRL		16,569.00	0		ROTATE DRILL F/16,420' T/16,569' (149' @ 93.3 FT/HR) WOB: 28 - 35K RPM: SURFACE 95 MOTOR 244 BIT 339 PRESSURE AND FLOW: SPP 5650, GPM 305 TORQUE: ON BOTTOM 13 OFF BOTTOM 8 STRING WEIGHT: UP 220K DOWN 120K ROT 170K MW: 13.5 PPG MOTOR REVS/GAL 0.8 GAS: 300-2000 UNITS FLARE: NONE
19:00	0.50	MNH1	SVC		16,569.00	0		SERVICE RIG: TOP DRIVE & DRAWWORKS
19:30	1.50	MNH1	DRL		16,615.00	0		SLIDE DRILL F/16,569' T/16,615' (46' @ 30.7 FT/HR) WOB: 30K RPM: SURFACE MOTOR 244 BIT 244 PRESSURE AND FLOW: SPP 5760, GPM 305 TORQUE: ON BOTTOM 13 OFF BOTTOM 8 STRING WEIGHT: UP 220K DOWN 120K ROT 170K MW: 13.5 PPG MOTOR REVS/GAL 0.8 GAS: 300-2000 UNITS FLARE: NONE
21:00	2.50	MNH1	DRL		16,928.00	0		ROTATE DRILL F/16,615' T/16,928' (313' @ 125.2 FT/HR) WOB: 30 - 35K RPM: SURFACE 95 MOTOR 244 BIT 339 PRESSURE AND FLOW: SPP 5650, GPM 305 TORQUE: ON BOTTOM 13 OFF BOTTOM 8 STRING WEIGHT: UP 220K DOWN 120K ROT 170K MW: 13.5 PPG MOTOR REVS/GAL 0.8 GAS: 300-2000 UNITS FLARE: NONE
23:30	0.50	MNH1	DRL		16,940.00	0		SLIDE DRILL F/16,928' T/16,940' (12' @ 24 FT/HR) WOB: 30K RPM: SURFACE MOTOR 244 BIT 244 PRESSURE AND FLOW: SPP 5760, GPM 305 TORQUE: ON BOTTOM 13 OFF BOTTOM 8 STRING WEIGHT: UP 220K DOWN 120K ROT 170K MW: 13.5 PPG MOTOR REVS/GAL 0.8 GAS: 300-2000 UNITS FLARE: NONE
Total	24.00							

Deepest 5 Surveys

MD (ft)	Inc. (°)	Azi. (°)	TVD (ft)	N/S (ft)	E/W (ft)	V.Sec (ft)	DLeg (°/100ft)	Tool
16,502.00	88.65	168.64	11,574.63	-5,125.35	1,190.25	5,261.15	5.12	PTW MWD_2016
16,592.00	90.52	176.41	11,575.29	-5,214.51	1,201.95	5,350.77	8.88	PTW MWD_2016
16,681.00	90.36	173.88	11,574.60	-5,303.18	1,209.48	5,439.02	2.85	PTW MWD_2016
16,771.00	90.14	171.33	11,574.21	-5,392.43	1,221.06	5,528.70	2.84	PTW MWD_2016
16,861.00	88.77	169.29	11,575.07	-5,481.13	1,236.21	5,618.60	2.73	PTW MWD_2016

EP WELLS DAILY OPERATIONS REPORT

Report 19

03/18/2017

Well UNIVERSITY 19 PW UNIT 1507H
Wellbore UNIVERSITY 19 PW UNIT 1507H

Fluid Details

Mud type	Invermul	Oil/Water (%)	55.00/16.00	POM (cc)	3.24 404.0	
MD (ft)	15,873.00	TS/HGS/LGS (%)	27.30//	CaCl2 (%)		
Mud Density (ppg)	13.50	Sand (%)	0.00	Caom/Clom (ppm)		
Vis (s/qt)	60.00	Oil/Water Ratio (%)	77.60/22.40	ACT		
PV/YP (cp/lbf/100ft²)	24.00/11.000	LCM (lbm/bbl)	13.560	XS Lime(lbm/bbl)		
Gels 10 s/m (lbf/100ft²)	8.000/13.000	ECD (ppg)		ES (Volts)		
API/HTHP WL (cc/30min)	0.0/	H2S (gas unit)		R600/300 (°)		
FC/HTHP FC (32nd")	0.0/4.0	KCl (%)		R200/100 (°)		
WPS (ppm)	205,815	Ditch Magnet in Last 24hrs/Cum. (gm)		R6/3 (°)		
FL temp. (°F)						

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
6	6.125	BAKER HUGHES	TD405FX			7161725	5x16	13,753.00		-----

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)
15,566.00	28.0/35.0	100	315.0	5,785.00	128.00	2.21	23.52	5.50	538.00	97.8	20.50	1,813.00	88.4
15,761.00	28.0/35.0	100	315.0	6,075.00	128.00	2.11	23.52	2.50	195.00	78.0	23.00	2,008.00	87.3
15,805.00	30.0/30.0	0	315.0	6,075.00	128.00	2.11	23.52	1.00	44.00	44.0	24.00	2,052.00	85.5
16,034.00	28.0/35.0	100	305.0	5,760.00	120.00	2.08	21.35	2.50	229.00	91.6	26.50	2,281.00	86.1
16,075.00	30.0/30.0	0	305.0	5,760.00	120.00	2.08	21.35	1.50	41.00	27.3	28.00	2,322.00	82.9
16,390.00	28.0/35.0	100	305.0	5,760.00	120.00	2.08	21.35	3.00	315.00	105.0	31.00	2,637.00	85.1
16,420.00	30.0/30.0	0	305.0	5,760.00	120.00	2.08	21.35	1.00	30.00	30.0	32.00	2,667.00	83.3
16,569.00	28.0/35.0	95	305.0	5,650.00	120.00	2.12	21.35	1.50	149.00	99.3	33.50	2,816.00	84.1
16,615.00	30.0/30.0	0	305.0	5,760.00	120.00	2.08	21.35	1.50	46.00	30.7	35.00	2,862.00	81.8
16,928.00	30.0/35.0	95	305.0	5,650.00	120.00	2.12	21.35	2.50	313.00	125.2	37.50	3,175.00	84.7
16,940.00	30.0/30.0	0	305.0	5,760.00	120.00	2.08	21.35	0.50	12.00	24.0	38.00	3,187.00	83.9

Drillstring Components

Item description	# Jts	Length (ft)	OD (in)	Max OD (in)	ID (in)	Connection Name	Weight (ppf)	Grade	Serial no.
4" DRILL PIPE	389	12,232.63	4.000		3.340	XT-39			RIG
5" SHOCK SUB	1	11.15	5.010			XT-39			W1885763
4" DRILL PIPE	64	2,871.92	4.000		3.340	XT-39			RIG
5" AGITATOR SHOCK SUB COMBO	1	23.22	5.020		2.000	XT-39			ASA500014
4" DRILL PIPE	36	1,612.11	4.000		3.340	XT-39			RIG
6" DOGLEG REAMER	1	4.30	5.700			XT-39			B1/A204231
4" DRILL PIPE	2	89.59	4.000		3.340	XT-39			RIG
X-O SUB	1	2.06	5.070		2.500	XT-39			DR14249
FLOAT SUB	1	2.12	4.510		1.800	3 1/2 IF			FS47552
SCREEN SUB	1	3.70	4.810		4.250	3 1/2 IF			DR31950
NMDC	1	29.03	4.530		2.625	3 1/2 IF			NESNM475559
475 GAP SUB ASSY DBL SEAL PHX VELOCITY	1	3.77	5.200		2.880	3 1/2 IF			VG475099PTS
475 CENTRALIZER COLLAR VELOCITY	1	8.35	5.200		3.630	4.3 ACME			VC475029
475 LANDING SUB ASSY VELOCITY	1	3.42	5.050		3.140	4.3 ACME			VL475046
475 X-O SUB VELOCITY	1	1.18	4.750		2.660	3 1/2 IF			VX475030
NON MAG PONY COLLAR	1	14.40	4.700		2.625	3 1/2 IF			NESPC475436

EP WELLS DAILY OPERATIONS REPORT

Report 19

03/18/2017

Well UNIVERSITY 19 PW UNIT 1507H
Wellbore UNIVERSITY 19 PW UNIT 1507H

Drillstring Components

Item description	# Jts	Length (ft)	OD (in)	Max OD (in)	ID (in)	Connection Name	Weight (ppf)	Grade	Serial no.
MUD MOTOR 500 NOV 513 FBH LOBE 6/7. STAGE 6.4. SET @	1	25.88	5.370			3 1/2 IF			24XH-51303 1-PTS
BIT# 6 RUN# 1 6.125" BAKER TD405FX (5X16's) SN: 7161725	1	1.17	6.125	6.125		3 1/2 REG			7161725

Drillstring Details

Date/Time in		Date/Time out		BHA no.	BHA Length (ft)	Min. ID (in)	Purpose
03/16/2017 22:00				6	133.75		DRILL 6.125" PRODUCTION 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)
15,566.00	210.0	130.00	165.00	45.00	13,000.0	7,000.0	538.00
15,761.00	210.0	130.00	170.00	40.00	13,000.0	8,000.0	195.00
15,805.00	210.0	130.00	0.00	210.00	0.0	0.0	44.00
16,034.00	220.0	120.00	170.00	50.00	13,000.0	8,000.0	229.00
16,075.00	220.0	120.00	0.00	220.00	0.0	0.0	41.00
16,390.00	220.0	120.00	170.00	50.00	13,000.0	8,000.0	315.00
16,420.00	220.0	120.00	0.00	220.00	0.0	0.0	30.00
16,569.00	220.0	120.00	170.00	50.00	13,000.0	8,000.0	149.00
16,615.00	220.0	120.00	0.00	220.00	0.0	0.0	46.00
16,928.00	220.0	120.00	170.00	50.00	13,000.0	8,000.0	313.00
16,940.00	220.0	120.00	0.00	220.00	0.0	0.0	12.00

Remarks

DIESEL FUEL ON HAND 9464 GALLONS
DIESEL FUEL USED 4987 GALLONS
DIESEL FUEL DELIVERED 7497 GALLONS
CNG USED GALLONS

EP WELLS DAILY OPERATIONS REPORT

Report 20

03/19/2017

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 19 PW UNIT 1507H
Wellbore	UNIVERSITY 19 PW UNIT 1507H
WBS No/API No	30257940 / 4230133144.00

Event Summary

Event Type	Drilling only	Event Start Date	01/22/2017	Days on Location	19.56
Objective	Drill - Wolfcamp B1 Shale HZ	Original Spud Date	01/22/2017	Days Since Spud	16.89
Est. Days	26.00	Contractor	PRECISION		
Work Unit	PRECISION 559	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	DENNIS MORGAN/TREY HARGETT	Measured Depth(ft)	18,560.00
Engineer	YERMEK TYNYSHBAYEV	TVD(ft)	11,597.35
Other Supervisor	TANNER MANUEL/DALY	24 Hr Progress(ft)	1,620.00
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,769.50 / 2,743.50	Hole size(in)	6.125
THF Datum			
Daily NPT(hr/%)	1.50/6.25	Last Casing MD	7.000in@11,940.00ft
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	4.500in@21,992.00ft
Actual cost to date/AFE	1,291,608/3,106,955.00	Current Fluid Density(ppg)	
Actual divided by AFE	0.42	LOT/FIT EMW(ppg)	
Daily Cost	56,553	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	158	TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	
Safety Comments:							
MAN HRS: 312							

HSE Drills

Drills/Tests	Date	Days Since Last	JSA's/Toolbox Talks Days Since Last Drill	20
Last Derrick Inspection	03/14/2017	5		
Last BOP function test	03/14/2017	5		
Last BOP Test	04/04/2017			
Next BOP Test				

Operations Summary

24 Hour Summary
ROTATE & SLIDE DRILL F/16,940' - T/18,560 (1,620' @ 75.3 FT/HR) 1.5 HRS DOWNTIME DUE TO TROUBLESHOOT HOOK LOAD SENSOR
Update Since Report Time
DRILLING @ 18918'
24 Hour Forecast
CONTINUE DRILLING LATERAL SECTION

EP WELLS DAILY OPERATIONS REPORT

Report 20

03/19/2017

Well UNIVERSITY 19 PW UNIT 1507H
Wellbore UNIVERSITY 19 PW UNIT 1507H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	1.00	MNH1	DRL		16,978.00	0		SLIDE DRILL F/16,940' T/16,978' (38' @ 38 FT/HR) WOB: 30-35K RPM: SURFACE MOTOR 244 BIT 244 PRESSURE AND FLOW: SPP 5650, GPM 305 TORQUE: ON BOTTOM 13 OFF BOTTOM 8 STRING WEIGHT: UP 215K DOWN 125K ROT 170K MW: 13.5 PPG MOTOR REVS/GAL 0.8 GAS: 300-1200 UNITS FLARE: NONE
1:00	3.50	MNH1	DRL		17,466.00	0		ROTATE DRILL F/16,978' T/17,466' (488' @ 139.4 FT/HR) WOB: 30-35K RPM: SURFACE 95 MOTOR 244 BIT 339 PRESSURE AND FLOW: SPP 5650, GPM 305 TORQUE: ON BOTTOM 13 OFF BOTTOM 8 STRING WEIGHT: UP 215K DOWN 125K ROT 170K MW: 13.5 PPG MOTOR REVS/GAL 0.8 GAS: 300-1200 UNITS FLARE: NONE
4:30	1.50	MNH1	DRL		17,507.00	0		SLIDE DRILL F/17,466' T/17,507' (41' @ 27.3 FT/HR) WOB: 30-35K RPM: SURFACE MOTOR 244 BIT 244 PRESSURE AND FLOW: SPP 5650, GPM 305 TORQUE: ON BOTTOM 13 OFF BOTTOM 8 STRING WEIGHT: UP 215K DOWN 125K ROT 170K MW: 13.5 PPG MOTOR REVS/GAL 0.8 GAS: 300-1200 UNITS FLARE: NONE
6:00	2.00	MNH1	DRL		17,678.00	0		ROTATE DRILL F/17,507' T/17,678' (171' @ 85.5 FT/HR) WOB: 25-35K RPM: SURFACE 95 MOTOR 240 BIT 335 PRESSURE AND FLOW: SPP 5650, GPM 300 TORQUE: ON BOTTOM 13 OFF BOTTOM 8 STRING WEIGHT: UP 215K DOWN 125K ROT 170K MW: 13.5 PPG MOTOR REVS/GAL 0.8 GAS: 300-1200 UNITS FLARE: NONE
8:00	1.00	MNH1	DRL		17,698.00	0		SLIDE DRILL F/17,678' T/17,698' (20' @ 20 FT/HR) WOB: 35K RPM: SURFACE MOTOR 240 BIT 240 PRESSURE AND FLOW: SPP 5650, GPM 300 TORQUE: ON BOTTOM 13 OFF BOTTOM 8 STRING WEIGHT: UP 215K DOWN 125K ROT 170K MW: 13.5 PPG MOTOR REVS/GAL 0.8 GAS: 300-1200 UNITS FLARE: NONE
9:00	3.50	MNH1	DRL		18,000.00	0		ROTATE DRILL F/17,698' T/18,000' (302' @ 86.3 FT/HR) WOB: 25-35K RPM: SURFACE 95 MOTOR 240 BIT 335 PRESSURE AND FLOW: SPP 5900, GPM 300 TORQUE: ON BOTTOM 13 OFF BOTTOM 8 STRING WEIGHT: UP 215K DOWN 125K ROT 170K MW: 13.5 PPG MOTOR REVS/GAL 0.8 GAS: 300-1200 UNITS FLARE: NONE
12:30	1.50	MNH1	DRL		18,043.00	0		SLIDE DRILL F/18,000' T/18,043' (43' @ 28.7 FT/HR) WOB: 35K RPM: SURFACE MOTOR 240 BIT 240 PRESSURE AND FLOW: SPP 5650, GPM 300 TORQUE: ON BOTTOM 13 OFF BOTTOM 8 STRING WEIGHT: UP 215K DOWN 125K ROT 170K

EP WELLS DAILY OPERATIONS REPORT

Report 20

03/19/2017

Well UNIVERSITY 19 PW UNIT 1507H
Wellbore UNIVERSITY 19 PW UNIT 1507H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								MW: 13.5 PPG MOTOR REVS/GAL 0.8 GAS: 300-1200 UNITS FLARE: NONE
14:00	1.00	MNH1	DRL		18,114.00	0		ROTATE DRILL F/18,043' T/18,114' (71' @ 71 FT/HR) WOB: 25-35K RPM: SURFACE 95 MOTOR 240 BIT 335 PRESSURE AND FLOW: SPP 5900, GPM 300 TORQUE: ON BOTTOM 15 OFF BOTTOM 8 STRING WEIGHT: UP 215K DOWN 125K ROT 170K MW: 13.5 PPG MOTOR REVS/GAL 0.8 GAS: 300-1200 UNITS FLARE: NONE
15:00	1.50	MNH1	DRL		18,143.00	0		SLIDE DRILL F/18,114' T/18,143' (29' @ 19.3 FT/HR) WOB: 35K RPM: SURFACE MOTOR 240 BIT 240 PRESSURE AND FLOW: SPP 5650, GPM 300 TORQUE: ON BOTTOM 13 OFF BOTTOM 8 STRING WEIGHT: UP 215K DOWN 125K ROT 170K MW: 13.5 PPG MOTOR REVS/GAL 0.8 GAS: 300-1200 UNITS FLARE: NONE
16:30	0.50	MNH1	DRL		18,170.00	0		ROTATE DRILL F/18,143' T/18,170' (27' @ 54 FT/HR) WOB: 25-35K RPM: SURFACE 95 MOTOR 240 BIT 335 PRESSURE AND FLOW: SPP 5900, GPM 300 TORQUE: ON BOTTOM 15 OFF BOTTOM 8 STRING WEIGHT: UP 215K DOWN 125K ROT 170K MW: 13.5 PPG MOTOR REVS/GAL 0.8 GAS: 300-1200 UNITS FLARE: NONE
17:00	0.50	MNH1	SVC		18,170.00	0		RIG SERVICE: TOP DRIVE
17:30	3.00	MNH1	DRL		18,485.00	0		ROTATE DRILL F/18,170' T/18,485' (315' @ 105 FT/HR) WOB: 25-35K RPM: SURFACE 95 MOTOR 240 BIT 335 PRESSURE AND FLOW: SPP 5900, GPM 300 TORQUE: ON BOTTOM 15 OFF BOTTOM 8 STRING WEIGHT: UP 215K DOWN 125K ROT 170K MW: 13.5 PPG MOTOR REVS/GAL 0.8 GAS: 300-1200 UNITS FLARE: NONE
20:30	0.50	MNH1	SVC		18,485.00	0		RIG SERVICE
21:00	1.50	MNH1	DRL		18,485.00	1		NPT: DOWNTIME: TROUBLESHOOT HOOK LOAD SENSOR & CHANGE OUT SENSOR CABLE/PLUG
22:30	0.50	MNH1	DRL		18,545.00	0		ROTATE DRILL F/18,485' T/18,545' (60' @ 120 FT/HR) WOB: 25-35K RPM: SURFACE 95 MOTOR 240 BIT 335 PRESSURE AND FLOW: SPP 5900, GPM 300 TORQUE: ON BOTTOM 15 OFF BOTTOM 8 STRING WEIGHT: UP 215K DOWN 125K ROT 170K MW: 13.5 PPG MOTOR REVS/GAL 0.8 GAS: 300-1200 UNITS FLARE: NONE
23:00	1.00	MNH1	DRL		18,560.00	0		SLIDE DRILL F/18,545' T/18,560' (15' @ 15 FT/HR) WOB: 35K RPM: SURFACE MOTOR 240 BIT 240 PRESSURE AND FLOW: SPP 5650, GPM 300 TORQUE: ON BOTTOM 13 OFF BOTTOM 8 STRING WEIGHT: UP 215K DOWN 125K ROT 170K MW: 13.5 PPG

EP WELLS DAILY OPERATIONS REPORT

Report 20

03/19/2017

Well UNIVERSITY 19 PW UNIT 1507H
Wellbore UNIVERSITY 19 PW UNIT 1507H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								MOTOR REVS/GAL 0.8 GAS: 300-1200 UNITS FLARE: NONE
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
03/19/2017 21:00	PRECISION DRILLING COMPANY LP	Rig/Work Unit Misc	18,485.00	DRL	EN	Drill Console/Instrumentation	1.50	1.50		OPEN
Description: TROUBLESHOOT HOOK LOAD SENSOR & CHANGE OUT SENSOR CABLE/PLUG						Title: TROUBLESHOOT HOOK LOAD SENSOR & CHANGE OUT SENSOR CABLE/PLUG				
Total							1.50	1.50		

Deepest 5 Surveys

MD (ft)	Inc. (°)	Azi. (°)	TVD (ft)	N/S (ft)	E/W (ft)	V.Sec (ft)	DLeg (°/100ft)	Tool
18,118.00	87.77	166.53	11,594.82	-6,721.45	1,429.86	6,871.76	1.36	PTW MWD_2016
18,208.00	89.34	166.22	11,597.09	-6,808.88	1,451.05	6,961.71	1.78	PTW MWD_2016
18,298.00	89.63	165.92	11,597.90	-6,896.23	1,472.71	7,051.67	0.46	PTW MWD_2016
18,388.00	90.14	166.20	11,598.08	-6,983.58	1,494.40	7,141.63	0.65	PTW MWD_2016
18,477.00	90.55	166.85	11,597.54	-7,070.13	1,515.13	7,230.61	0.86	PTW MWD_2016

Fluid Details

Mud type	Invermul	Oil/Water (%)	POM (cc)
MD (ft)		TS/HGS/LGS (%)	CaCl2 (%)
Mud Density (ppg)		Sand (%)	Caom/Clom (ppm)
Vis (s/qt)		Oil/Water Ratio (%)	ACT
PV/YP (cp/lbf/100ft²)			XS Lime(lbm/bbl)
Gels 10 s/m (lbf/100ft²)		LCM (lbm/bbl)	ES (Volts)
API/HTHP WL (cc/30min)		ECD (ppg)	R600/300 (°)
FC/HTHP FC (32nd")		H2S (gas unit)	R200/100 (°)
WPS (ppm)		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
6	6.125	BAKER HUGHES	TD405FX			7161725	5x16	13,753.00		-----

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.
4" DRILL PIPE	389	12,232.63	4.000		3.340	XT-39			RIG
5" SHOCK SUB	1	11.15	5.010			XT-39			W1885763
4" DRILL PIPE	64	2,871.92	4.000		3.340	XT-39			RIG
5" AGITATOR SHOCK SUB COMBO	1	23.22	5.020		2.000	XT-39			ASA500014
4" DRILL PIPE	36	1,612.11	4.000		3.340	XT-39			RIG

EP WELLS DAILY OPERATIONS REPORT

Report 20

03/19/2017

Well UNIVERSITY 19 PW UNIT 1507H
Wellbore UNIVERSITY 19 PW UNIT 1507H

Drillstring Components

Item description	# Jts	Length (ft)	OD (in)	Max OD (in)	ID (in)	Connection Name	Weight (ppf)	Grade	Serial no.
6" DOGLEG REAMER	1	4.30	5.700			XT-39			B1/A204231
4" DRILL PIPE	2	89.59	4.000		3.340	XT-39			RIG
X-O SUB	1	2.06	5.070		2.500	XT-39			DR14249
FLOAT SUB	1	2.12	4.510		1.800	3 1/2 IF			FS47552
SCREEN SUB	1	3.70	4.810		4.250	3 1/2 IF			DR31950
NMDC	1	29.03	4.530		2.625	3 1/2 IF			NESNM475559
475 GAP SUB ASSY DBL SEAL PHX VELOCITY	1	3.77	5.200		2.880	3 1/2 IF			VG475099PTS
475 CENTRALIZER COLLAR VELOCITY	1	8.35	5.200		3.630	4.3 ACME			VC475029
475 LANDING SUB ASSY VELOCITY	1	3.42	5.050		3.140	4.3 ACME			VL475046
475 X-O SUB VELOCITY	1	1.18	4.750		2.660	3 1/2 IF			VX475030
NON MAG PONY COLLAR	1	14.40	4.700		2.625	3 1/2 IF			NESPC475436
MUD MOTOR 500 NOV 513 FBH LOBE 6/7. STAGE 6.4. SET @	1	25.88	5.370			3 1/2 IF			24XH-513031-PTS
BIT# 6 RUN# 1 6.125" BAKER TD405FX (5X16's) SN: 7161725	1	1.17	6.125	6.125		3 1/2 REG			7161725

Drillstring Details

Date/Time in	Date/Time out	BHA no.	BHA Length (ft)	Min. ID (in)	Purpose
03/16/2017 22:00		6	133.75		DRILL 6.125" PRODUCTION SECTION

Remarks

DIESEL FUEL ON HAND 12975 GALLONS
DIESEL FUEL USED 3493 GALLONS
DIESEL FUEL DELIVERED 7004 GALLONS
CNG USED GALLONS

EP WELLS DAILY OPERATIONS REPORT

Report 21

03/20/2017

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 19 PW UNIT 1507H
Wellbore	UNIVERSITY 19 PW UNIT 1507H
WBS No/API No	30257940 / 4230133144.00

Event Summary

Event Type	Drilling only	Event Start Date	01/22/2017	Days on Location	20.56
Objective	Drill - Wolfcamp B1 Shale HZ	Original Spud Date	01/22/2017	Days Since Spud	17.89
Est. Days	26.00	Contractor	PRECISION		
Work Unit	PRECISION 559	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	DENNIS MORGAN/TREY HARGETT	Measured Depth(ft)	20,236.00
Engineer	YERMEK TYNYSHBAYEV	TVD(ft)	11,576.55
Other Supervisor	TANNER MANUEL/DALY	24 Hr Progress(ft)	1,676.00
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,769.50 / 2,743.50	Hole size(in)	6.125
THF Datum			
Daily NPT(hr/%)	0/0	Last Casing MD	7.000in@11,940.00ft
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	4.500in@22,250.00ft
Actual cost to date/AFE	1,368,582/3,106,955.00	Current Fluid Density(ppg)	
Actual divided by AFE	0.44	LOT/FIT EMW(ppg)	
Daily Cost	53,546	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	159	TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	
Safety Comments:							
MAN HRS: 379							
BOP DRILL @ 05:22							

HSE Drills

Drills/Tests	Date	Days Since Last	JSA's/Toolbox Talks Days Since Last Drill	21
Last Derrick Inspection	03/14/2017	6		
Last BOP function test	03/14/2017	6		
Last BOP Test	04/04/2017			
Next BOP Test				

Operations Summary

24 Hour Summary
ROTATE & SLIDE DRILL F/ 18,560' - T/20,236' (1676' @ 69.83 FT/HR).
Update Since Report Time
DRILLING @ 20,402'
24 Hour Forecast
CONTINUE DRILLING LATERAL SECTION TO TD (22,250')

EP WELLS DAILY OPERATIONS REPORT

Report 21

03/20/2017

Well UNIVERSITY 19 PW UNIT 1507H
Wellbore UNIVERSITY 19 PW UNIT 1507H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	1.50	MNH1	DRL		18,584.00	0		SLIDE DRILL F/18,560' T/18,584' (24' @ 18 FT/HR) WOB: 40-50 K RPM: SURFACE MOTOR 233 BIT 233 PRESSURE AND FLOW: SPP 5650, GPM 291 TORQUE: ON BOTTOM 13 OFF BOTTOM 8 STRING WEIGHT: UP 215K DOWN 125K ROT 170K MW: 13.5 PPG MOTOR REVS/GAL 0.8 GAS: 300-1200 UNITS FLARE: NONE
1:30	5.00	MNH1	DRL		19,116.00	0		ROTATE DRILL F/18,584' T/19,116' (532' @ 106.4 FT/HR) WOB: 25-35 K RPM: SURFACE 100 MOTOR 241 BIT 341 PRESSURE AND FLOW: SPP 5650, GPM 301 TORQUE: ON BOTTOM 15 OFF BOTTOM 8 STRING WEIGHT: UP 250K DOWN 125K ROT 165K MW: 13.5 PPG MOTOR REVS/GAL 0.8 GAS: 300-1200 UNITS FLARE: NONE
6:30	2.00	MNH1	DRL		19,150.00	0		SLIDE DRILL F/19,116' T/19,150' (34' @ 17 FT/HR) WOB: 36 K RPM: SURFACE MOTOR 241 BIT 241 PRESSURE AND FLOW: SPP 5650, GPM 301 TORQUE: ON BOTTOM 13 OFF BOTTOM 8 STRING WEIGHT: UP 250K DOWN 125K ROT 165K MW: 13.5 PPG MOTOR REVS/GAL 0.8 GAS: 300-1200 UNITS FLARE: NONE
8:30	8.00	MNH1	DRL		19,886.00	0		ROTATE DRILL F/19,150' T/19,886' (736' @ 92 FT/HR) WOB: 25-35 K RPM: SURFACE 100 MOTOR 241 BIT 341 PRESSURE AND FLOW: SPP 5650, GPM 301 TORQUE: ON BOTTOM 15 OFF BOTTOM 8 STRING WEIGHT: UP 250K DOWN 125K ROT 165K MW: 13.5 PPG MOTOR REVS/GAL 0.8 GAS: 300-1200 UNITS FLARE: NONE
16:30	2.00	MNH1	DRL		19,938.00	0		SLIDE DRILL F/19,886' T/19,938' (52' @ 26 FT/HR) WOB: 40-60 K RPM: SURFACE MOTOR 220 BIT 220 PRESSURE AND FLOW: SPP 5650, GPM 275 TORQUE: ON BOTTOM 13 OFF BOTTOM 8 STRING WEIGHT: UP 250K DOWN 125K ROT 165K MW: 13.5 PPG MOTOR REVS/GAL 0.8 GAS: 300-1200 UNITS FLARE: NONE
18:30	2.50	MNH1	DRL		20,156.00	0		ROTATE DRILL F/19,938' T/20,156' (218' @ 87.2 FT/HR) WOB: 30-35 K RPM: SURFACE 100 MOTOR 220 BIT 320 PRESSURE AND FLOW: SPP 5650, GPM 275 TORQUE: ON BOTTOM 15 OFF BOTTOM 8 STRING WEIGHT: UP 250K DOWN 125K ROT 165K MW: 13.5 PPG MOTOR REVS/GAL 0.8 GAS: 300-1200 UNITS FLARE: NONE
21:00	2.50	MNH1	DRL		20,210.00	0		SLIDE DRILL F/20,156' T/20,210' (54' @ 21.6 FT/HR) WOB: 40-60 K RPM: SURFACE MOTOR 220 BIT 220 PRESSURE AND FLOW: SPP 5650, GPM 275 TORQUE: ON BOTTOM 13 OFF BOTTOM 8 STRING WEIGHT: UP 250K DOWN 125K ROT 165K

EP WELLS DAILY OPERATIONS REPORT

Report 21

03/20/2017

Well UNIVERSITY 19 PW UNIT 1507H
Wellbore UNIVERSITY 19 PW UNIT 1507H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								MW: 13.5 PPG MOTOR REVS/GAL 0.8 GAS: 300-1200 UNITS FLARE: NONE
23:30	0.50	MNH1	DRL		20,236.00	0		ROTATE DRILL F/20,210' T/20,236' (26' @ 52 FT/HR) WOB: 30-35 K RPM: SURFACE 100 MOTOR 220 BIT 320 PRESSURE AND FLOW: SPP 5650, GPM 275 TORQUE: ON BOTTOM 15 OFF BOTTOM 8 STRING WEIGHT: UP 250K DOWN 125K ROT 165K MW: 13.5 PPG MOTOR REVS/GAL 0.8 GAS: 300-1200 UNITS FLARE: NONE
Total	24.00							

Deepest 5 Surveys

MD (ft)	Inc. (°)	Azi. (°)	TVD (ft)	N/S (ft)	E/W (ft)	V.Sec (ft)	DLeg (°/100ft)	Tool
19,824.00	89.92	168.12	11,574.33	-8,352.50	1,923.49	8,571.08	4.40	PTW MWD_2016
19,914.00	89.31	163.17	11,574.94	-8,439.67	1,945.79	8,661.03	5.54	PTW MWD_2016
20,004.00	89.68	160.87	11,575.73	-8,525.26	1,973.57	8,750.70	2.59	PTW MWD_2016
20,094.00	89.85	163.76	11,576.10	-8,611.00	2,000.91	8,840.41	3.22	PTW MWD_2016
20,184.00	89.79	162.58	11,576.38	-8,697.14	2,026.97	8,930.22	1.31	PTW MWD_2016

Fluid Details

Mud type	Invermul	Oil/Water (%)	POM (cc)
MD (ft)		TS/HGS/LGS (%)	CaCl2 (%)
Mud Density (ppg)		Sand (%)	Caom/Clom (ppm)
Vis (s/qt)		Oil/Water Ratio (%)	ACT
PV/YP (cp/lbf/100ft²)		LCM (lbm/bbl)	XS Lime(lbm/bbl)
Gels 10 s/m (lbf/100ft²)		ECD (ppg)	ES (Volts)
API/HTHP WL (cc/30min)		H2S (gas unit)	R600/300 (°)
FC/HTHP FC (32nd")		KCl (%)	R200/100 (°)
WPS (ppm)			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
6	6.125	BAKER HUGHES	TD405FX			7161725	5x16	13,753.00		-----

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.
4" DRILL PIPE	493	15,528.63	4.000		3.340	XT-39			RIG
5" SHOCK SUB	1	11.15	5.010			XT-39			W1885763
4" DRILL PIPE	64	2,871.92	4.000		3.340	XT-39			RIG
5" AGITATOR SHOCK SUB COMBO	1	23.22	5.020		2.000	XT-39			ASA500014
4" DRILL PIPE	36	1,612.11	4.000		3.340	XT-39			RIG
6" DOGLEG REAMER	1	4.30	5.700			XT-39			B1/A204231

EP WELLS DAILY OPERATIONS REPORT

Report 21

03/20/2017

Well UNIVERSITY 19 PW UNIT 1507H
Wellbore UNIVERSITY 19 PW UNIT 1507H

Drillstring Components

Item description	# Jts	Length (ft)	OD (in)	Max OD (in)	ID (in)	Connection Name	Weight (ppf)	Grade	Serial no.
4" DRILL PIPE	2	89.59	4.000		3.340	XT-39			RIG
X-O SUB	1	2.06	5.070		2.500	XT-39			DR14249
FLOAT SUB	1	2.12	4.510		1.800	3 1/2 IF			FS47552
SCREEN SUB	1	3.70	4.810		4.250	3 1/2 IF			DR31950
NMDC	1	29.03	4.530		2.625	3 1/2 IF			NESNM475559
475 GAP SUB ASSY DBL SEAL PHX VELOCITY	1	3.77	5.200		2.880	3 1/2 IF			VG475099PTS
475 CENTRALIZER COLLAR VELOCITY	1	8.35	5.200		3.630	4.3 ACME			VC475029
475 LANDING SUB ASSY VELOCITY	1	3.42	5.050		3.140	4.3 ACME			VL475046
475 X-O SUB VELOCITY	1	1.18	4.750		2.660	3 1/2 IF			VX475030
NON MAG PONY COLLAR	1	14.40	4.700		2.625	3 1/2 IF			NESPC475436
MUD MOTOR 500 NOV 513 FBH LOBE 6/7. STAGE 6.4. SET @	1	25.88	5.370			3 1/2 IF			24XH-513031-PTS
BIT# 6 RUN# 1 6.125" BAKER TD405FX (5X16's) SN: 7161725	1	1.17	6.125	6.125		3 1/2 REG			7161725

Drillstring Details

Date/Time in	Date/Time out	BHA no.	BHA Length (ft)	Min. ID (in)	Purpose
03/16/2017 22:00		6	133.75		DRILL 6.125" PRODUCTION SECTION

Remarks

DIESEL FUEL ON HAND 8833 GALLONS
DIESEL FUEL USED 4142 GALLONS
DIESEL FUEL DELIVERED GALLONS
CNG USED GALLONS

EP WELLS DAILY OPERATIONS REPORT

Report 22

03/21/2017

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 19 PW UNIT 1507H
Wellbore	UNIVERSITY 19 PW UNIT 1507H
WBS No/API No	30257940 / 4230133144.00

Event Summary

Event Type	Drilling only	Event Start Date	01/22/2017	Days on Location	21.56
Objective	Drill - Wolfcamp B1 Shale HZ	Original Spud Date	01/22/2017	Days Since Spud	18.89
Est. Days	26.00	Contractor	PRECISION		
Work Unit	PRECISION 559	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	DENNIS JOHNSON/TREY HARGETT	Measured Depth(ft)	21,149.00
Engineer	YERMEK TYNYSHBAYEV	TVD(ft)	11,580.22
Other Supervisor	TANNER MANUEL/DALY MOSBROKER/YU LIU	24 Hr Progress(ft)	913.00
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,769.50 / 2,743.50	Hole size(in)	6.125
THF Datum			
Daily NPT(hr/%)	0/0	Last Casing MD	7.000in@11,940.00ft
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	4.500in@22,250.00ft
Actual cost to date/AFE	1,444,221/3,106,955.00	Current Fluid Density(ppg)	13.40
Actual divided by AFE	0.46	LOT/FIT EMW(ppg)	
Daily Cost	60,646	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	160	TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	
Safety Comments:							
MAN HRS: 312							

HSE Drills

Drills/Tests	Date	Days Since Last	JSA's/Toolbox Talks Days Since Last Drill	22
Last Derrick Inspection Last BOP function test Last BOP Test Next BOP Test	03/21/2017 03/14/2017 04/04/2017	0 7		

Operations Summary

24 Hour Summary
ROTATE & SLIDE DRILL F/ 20,236' - T/ 21,149' (913'). FUNCTION BOPS.
Update Since Report Time
SLIDE DRILLING @ 21,160'
24 Hour Forecast
CONTINUE DRILLING LATERAL SECTION TO TD (22,250'). RAISE MW T/13.6 500' F/TD. PUMP WEIGHTED SWEEP 100' F/TD. PUMP 2 WEIGHTED SWEEPS @ TD. POOH T/ RUN 4.5" LINER. DROP RABBIT @ SHOE.

EP WELLS DAILY OPERATIONS REPORT

Report 22

03/21/2017

Well UNIVERSITY 19 PW UNIT 1507H
Wellbore UNIVERSITY 19 PW UNIT 1507H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	1.00	MNH1	DRL		20,341.00	0		ROTATE DRILL F/20,236' T/20,341' (105' @ 105 FT/HR) WOB: 30-35 K RPM: SURFACE 100 MOTOR 220 BIT 320 PRESSURE AND FLOW: SPP 5600, GPM 275 TORQUE: ON BOTTOM 15 OFF BOTTOM 8 STRING WEIGHT: UP 250K DOWN 125K ROT 165K MW: 13.5 PPG MOTOR REVS/GAL 0.8 GAS: 300-1200 UNITS FLARE: NONE
1:00	4.50	MNH1	DRL		20,406.00	0		SLIDE DRILL F/20,341' T/20,406' (65' @ 14.4 FT/HR) WOB: 40-60 K RPM: SURFACE MOTOR 220 BIT 220 PRESSURE AND FLOW: SPP 5600, GPM 275 TORQUE: ON BOTTOM 14-18 OFF BOTTOM 8 STRING WEIGHT: UP 250K DOWN 125K ROT 165K MW: 13.5 PPG MOTOR REVS/GAL 0.8 GAS: 300-1200 UNITS FLARE: NONE
5:30	0.50	MNH1	DRL		20,425.00	0		ROTATE DRILL F/20,406' T/20,425' (19' @ 38 FT/HR) WOB: 30-35 K RPM: SURFACE 40 MOTOR 220 BIT 260 PRESSURE AND FLOW: SPP 5600, GPM 275 TORQUE: ON BOTTOM 14-18 OFF BOTTOM 8 STRING WEIGHT: UP 250K DOWN 125K ROT 165K MW: 13.5 PPG MOTOR REVS/GAL 0.8 GAS: 300-1200 UNITS FLARE: NONE
6:00	2.50	MNH1	DRL		20,490.00	0		SLIDE DRILL F/20,425' T/20,490' (65' @ 26 FT/HR) WOB: 50 K RPM: SURFACE MOTOR 222 BIT 222 PRESSURE AND FLOW: SPP 5600, GPM 277 TORQUE: ON BOTTOM 14-18 OFF BOTTOM 12 STRING WEIGHT: UP 250K DOWN 130K ROT 165K MW: 13.5 PPG MOTOR REVS/GAL 0.8 GAS: 300-1200 UNITS FLARE: NONE
8:30	3.50	MNH1	DRL		20,785.00	0		ROTATE DRILL F/20,490' T/20,785' (295' @ 84.3 FT/HR) WOB: 30 K RPM: SURFACE 100 MOTOR 222 BIT 322 PRESSURE AND FLOW: SPP 5600, GPM 277 TORQUE: ON BOTTOM 14-18 OFF BOTTOM 12 STRING WEIGHT: UP 250K DOWN 130K ROT 165K MW: 13.5 PPG MOTOR REVS/GAL 0.8 GAS: 300-1200 UNITS FLARE: NONE
12:00	3.00	MNH1	DRL		20,845.00	0		SLIDE DRILL F/20,785' T/20,845' (65' @ 21.7 FT/HR) WOB: 50 K RPM: SURFACE MOTOR 222 BIT 222 PRESSURE AND FLOW: SPP 5600, GPM 277 TORQUE: ON BOTTOM 14-18 OFF BOTTOM 12 STRING WEIGHT: UP 250K DOWN 130K ROT 165K MW: 13.5 PPG MOTOR REVS/GAL 0.8 GAS: 300-1200 UNITS FLARE: NONE
15:00	0.50	MNH1	DRL		20,865.00	0		ROTATE DRILL F/20,845' T/20,865' (20' @ 40 FT/HR) WOB: 30 K RPM: SURFACE 100 MOTOR 222 BIT 322 PRESSURE AND FLOW: SPP 5600, GPM 277 TORQUE: ON BOTTOM 14-18 OFF BOTTOM 12 STRING WEIGHT: UP 250K DOWN 130K ROT 165K

EP WELLS DAILY OPERATIONS REPORT

Report 22

03/21/2017

Well UNIVERSITY 19 PW UNIT 1507H
Wellbore UNIVERSITY 19 PW UNIT 1507H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								MW: 13.5 PPG MOTOR REVS/GAL 0.8 GAS: 300-1200 UNITS FLARE: NONE
15:30	0.50	MNH1	SVC		20,865.00	0		RIG SERVICE: GREASE BLOCKS, TOP DRIVE, & DRAWWORKS
16:00	1.50	MNH1	DRL		20,964.00	0		ROTATE DRILL F/20,865' T/20,964' (99' @ 66 FT/HR) WOB: 30 K RPM: SURFACE 100 MOTOR 222 BIT 322 PRESSURE AND FLOW: SPP 5600, GPM 277 TORQUE: ON BOTTOM 14-18 OFF BOTTOM 12 STRING WEIGHT: UP 250K DOWN 130K ROT 165K MW: 13.5 PPG MOTOR REVS/GAL 0.8 GAS: 300-1200 UNITS FLARE: NONE
17:30	3.50	MNH1	DRL		21,044.00	0		SLIDE DRILL F/20,964' T/21,044' (80' @ 22.8 FT/HR) WOB: 50 K RPM: SURFACE MOTOR 222 BIT 222 PRESSURE AND FLOW: SPP 5675, GPM 277 TORQUE: ON BOTTOM 14-18 OFF BOTTOM 12 STRING WEIGHT: UP 250K DOWN 130K ROT 165K MW: 13.5 PPG MOTOR REVS/GAL 0.8 GAS: 300-1200 UNITS FLARE: NONE
21:00	0.50	MNH1	SVC		21,044.00	0		RIG SERVICE: GREASE TOP DRIVE & BLOCK
21:30	0.50	MNH1	DRL		21,089.00	0		ROTATE DRILL F/21,044' T/21,089' (45' @ 90 FT/HR) WOB: 25-35 K RPM: SURFACE 50 MOTOR 222 BIT 272 PRESSURE AND FLOW: SPP 5675, GPM 277 TORQUE: ON BOTTOM 14-18 OFF BOTTOM 12 STRING WEIGHT: UP 250K DOWN 130K ROT 165K MW: 13.5 PPG MOTOR REVS/GAL 0.8 GAS: 300-1200 UNITS FLARE: NONE
22:00	2.00	MNH1	DRL		21,149.00	0		SLIDE DRILL F/21,089' T/21,149' (60' @ 30 FT/HR) WOB: 50 K RPM: SURFACE MOTOR 222 BIT 222 PRESSURE AND FLOW: SPP 5675, GPM 277 TORQUE: ON BOTTOM 14-18 OFF BOTTOM 12 STRING WEIGHT: UP 250K DOWN 130K ROT 165K MW: 13.5 PPG MOTOR REVS/GAL 0.8 GAS: 300-1200 UNITS FLARE: NONE
								FUNCTION BOPS & ORBIT VALVE
Total	24.00							

Deepest 5 Surveys

MD (ft)	Inc. (°)	Azi. (°)	TVD (ft)	N/S (ft)	E/W (ft)	V.Sec (ft)	DLeg (°/100ft)	Tool
20,723.00	89.27	163.19	11,580.72	-9,205.95	2,202.53	9,465.73	5.04	PTW MWD_2016
20,812.00	90.03	162.69	11,581.26	-9,291.03	2,228.64	9,554.56	1.02	PTW MWD_2016
20,902.00	89.82	163.10	11,581.38	-9,377.05	2,255.11	9,644.40	0.51	PTW MWD_2016
20,992.00	90.00	162.46	11,581.52	-9,463.02	2,281.75	9,734.22	0.74	PTW MWD_2016
21,081.00	90.66	158.69	11,581.01	-9,546.93	2,311.35	9,822.74	4.30	PTW MWD_2016

EP WELLS DAILY OPERATIONS REPORT

Report 22

03/21/2017

Well UNIVERSITY 19 PW UNIT 1507H
Wellbore UNIVERSITY 19 PW UNIT 1507H

Fluid Details

Mud type	Invermul	Oil/Water (%)	57.50/16.00	POM (cc)	5.18 404.0
MD (ft)	20,786.00	TS/HGS/LGS (%)	24.60//	CaCl2 (%)	
Mud Density (ppg)	13.40	Sand (%)	0.00	Caom/Clom (ppm)	
Vis (s/qt)	61.00	Oil/Water Ratio (%)	78.20/21.80	ACT	
PV/YP (cp/lbf/100ft²)	26.00/11.000	LCM (lbm/bbl) ECD (ppg) H2S (gas unit) KCl (%)	13.430	XS Lime(lbm/bbl)	
Gels 10 s/m (lbf/100ft²)	9.000/12.000			ES (Volts)	
API/HTHP WL (cc/30min)	0.0/			R600/300 (°)	
FC/HTHP FC (32nd")	0.0/4.0			R200/100 (°)	
WPS (ppm)	274,726			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
6	6.125	BAKER HUGHES	TD405FX			7161725	5x16	13,753.00		-----

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)
20,341.00	30.0/35.0	100	275.0	5,600.00	96.83	1.73	15.53	1.00	105.00	105.0	84.50	6,588.00	78.0
20,406.00	40.0/60.0	0	275.0	5,600.00	96.83	1.73	15.53	4.50	65.00	14.4	89.00	6,653.00	74.8
20,425.00	30.0/35.0	40	275.0	5,600.00	96.83	1.73	15.53	0.50	19.00	38.0	89.50	6,672.00	74.5
20,490.00	50.0/50.0	0	277.0	5,600.00	98.25	1.75	15.87	2.50	65.00	26.0	92.00	6,737.00	73.2
20,785.00	30.0/30.0	100	277.0	5,600.00	98.25	1.75	15.87	3.50	295.00	84.3	95.50	7,032.00	73.6
20,845.00	50.0/50.0	0	277.0	5,600.00	98.25	1.75	15.87	3.00	65.00	21.7	98.50	7,097.00	72.1
20,865.00	30.0/30.0	100	277.0	5,600.00	98.25	1.75	15.87	0.50	20.00	40.0	99.00	7,117.00	71.9
20,964.00	30.0/30.0	100	277.0	5,600.00	98.25	1.75	15.87	1.50	99.00	66.0	100.50	7,216.00	71.8
21,044.00	50.0/50.0	0	277.0	5,675.00	98.25	1.73	15.87	3.50	80.00	22.9	104.00	7,296.00	70.2
21,089.00	25.0/35.0	50	277.0	5,675.00	98.25	1.73	15.87	0.50	45.00	90.0	104.50	7,341.00	70.2
21,149.00	50.0/50.0	0	277.0	5,675.00	98.25	1.73	15.87	2.00	60.00	30.0	106.50	7,401.00	69.5

Drillstring Components

Item description	# Jts	Length (ft)	OD (in)	Max OD (in)	ID (in)	Connection Name	Weight (ppf)	Grade	Serial no.
4" DRILL PIPE	522	16,441.63	4.000		3.340	XT-39			RIG
5" SHOCK SUB	1	11.15	5.010			XT-39			W1885763
4" DRILL PIPE	64	2,871.92	4.000		3.340	XT-39			RIG
5" AGITATOR SHOCK SUB COMBO	1	23.22	5.020		2.000	XT-39			ASA500014
4" DRILL PIPE	36	1,612.11	4.000		3.340	XT-39			RIG
6" DOGLEG REAMER	1	4.30	5.700			XT-39			B1/A204231
4" DRILL PIPE	2	89.59	4.000		3.340	XT-39			RIG
X-O SUB	1	2.06	5.070		2.500	XT-39			DR14249
FLOAT SUB	1	2.12	4.510		1.800	3 1/2 IF			FS47552
SCREEN SUB	1	3.70	4.810		4.250	3 1/2 IF			DR31950
NMDC	1	29.03	4.530		2.625	3 1/2 IF			NESNM475559
475 GAP SUB ASSY DBL SEAL PHX VELOCITY	1	3.77	5.200		2.880	3 1/2 IF			VG475099PTS
475 CENTRALIZER COLLAR VELOCITY	1	8.35	5.200		3.630	4.3 ACME			VC475029
475 LANDING SUB ASSY VELOCITY	1	3.42	5.050		3.140	4.3 ACME			VL475046
475 X-O SUB VELOCITY	1	1.18	4.750		2.660	3 1/2 IF			VX475030
NON MAG PONY COLLAR	1	14.40	4.700		2.625	3 1/2 IF			NESPC475436

EP WELLS DAILY OPERATIONS REPORT

Report 22

03/21/2017

Well UNIVERSITY 19 PW UNIT 1507H
Wellbore UNIVERSITY 19 PW UNIT 1507H

Drillstring Components

Item description	# Jts	Length (ft)	OD (in)	Max OD (in)	ID (in)	Connection Name	Weight (ppf)	Grade	Serial no.
MUD MOTOR 500 NOV 513 FBH LOBE 6/7. STAGE 6.4. SET @	1	25.88	5.370			3 1/2 IF			24XH-51303 1-PTS
BIT# 6 RUN# 1 6.125" BAKER TD405FX (5X16's) SN: 7161725	1	1.17	6.125	6.125		3 1/2 REG			7161725

Drillstring Details

Date/Time in		Date/Time out		BHA no.	BHA Length (ft)	Min. ID (in)	Purpose
03/16/2017 22:00				6	133.75		DRILL 6.125" PRODUCTION 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)
20,341.00	250.0	125.00	165.00	85.00	15,000.0	8,000.0	105.00
20,406.00	250.0	125.00	0.00	250.00	0.0	0.0	65.00
20,425.00	250.0	125.00	165.00	85.00	18,000.0	8,000.0	19.00
20,490.00	250.0	130.00	0.00	250.00	0.0	0.0	65.00
20,785.00	250.0	130.00	165.00	85.00	18,000.0	12,000.0	295.00
20,845.00	250.0	130.00	0.00	250.00	0.0	0.0	60.00
20,865.00	250.0	130.00	165.00	85.00	18,000.0	12,000.0	20.00
20,964.00	250.0	130.00	165.00	85.00	18,000.0	12,000.0	99.00
21,044.00	250.0	130.00	0.00	250.00	0.0	0.0	80.00
21,089.00	250.0	130.00	165.00	85.00	18,000.0	12,000.0	45.00
21,149.00	250.0	130.00	0.00	250.00	0.0	0.0	60.00

Remarks

DIESEL FUEL ON HAND 12975 GALLONS
DIESEL FUEL USED 2978 GALLONS
DIESEL FUEL DELIVERED 7120 GALLONS
CNG USED 187.62 GALLONS

EP WELLS DAILY OPERATIONS REPORT

Report 24

03/23/2017

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 19 PW UNIT 1507H
Wellbore	UNIVERSITY 19 PW UNIT 1507H
WBS No/API No	30257940 / 4230133144.00

Event Summary

Event Type	Drilling only	Event Start Date	01/22/2017	Days on Location	23.56
Objective	Drill - Wolfcamp B1 Shale HZ	Original Spud Date	01/22/2017	Days Since Spud	20.89
Est. Days	26.00	Contractor	PRECISION		
Work Unit	PRECISION 559	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	DENNIS JOHNSON/TREY HARGETT	Measured Depth(ft)	22,250.00
Engineer	YERMEK TYNYSHBAYEV	TVD(ft)	11,584.17
Other Supervisor	TANNER MANUEL/DALY MOSBROKER/YU LIU	24 Hr Progress(ft)	
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,769.50 / 2,743.50	Hole size(in)	6.125
THF Datum			
Daily NPT(hr/%)	10.50/43.75	Last Casing MD	7.000in@11,940.00ft
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	4.500in@22,250.00ft
Actual cost to date/AFE	1,609,674/3,106,955.00	Current Fluid Density(ppg)	13.80
Actual divided by AFE	0.52	LOT/FIT EMW(ppg)	
Daily Cost	43,852	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	162	TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	
Safety Comments:							
MAN HRS: 322							

HSE Drills

Drills/Tests	Date	Days Since Last	JSA's/Toolbox Talks Days Since Last Drill	24
Last Derrick Inspection	03/21/2017	2		
Last BOP function test	03/14/2017	9		
Last BOP Test	04/04/2017			
Next BOP Test				

Operations Summary

24 Hour Summary
POOH F/ 18228' - T/ 18000'. WASH & REAM F/ 18000' - 14,344'. CIRCULATE BTM UP. POOH F/ 14,344' - T/ 12,337'. CIRCULATE BTMS UP. POOH F/ 12,337' - T/ 10,888'. SHORT TRIP T/ 16,100' (WORKING THROUGH TIGHT SPOTS AS NEEDED). POOH F/ 16,100' - T/ 4694'.
Update Since Report Time
L/D BHA.
24 Hour Forecast
RUN 4.5" LINER & CEMENT SAME.

EP WELLS DAILY OPERATIONS REPORT

Report 24

03/23/2017

Well UNIVERSITY 19 PW UNIT 1507H
Wellbore UNIVERSITY 19 PW UNIT 1507H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	0.50	MNH1	TOH		22,250.00	0		POOH F/18228' - T/18000'.
0:30	5.50	MNH1	TOH		22,250.00	0		WASHING & BACK REAMING OUT OF HOLE WORKING THROUGH TIGHT SPOTS AS NEEDED F/18,000' - T/14,344'. PU 245 SO 130 RPM 65 SPM 110
6:00	1.00	MNH1	CBU		22,250.00	0		CIRCULATE HOLE CLEAN. GPM 282 PRESSURE 5750. NO FLARE
7:00	3.50	MNH1	TOH		22,250.00	0		POOH F/ 14344' - T/ 12337'. MAX PULL 300. PU 250.
10:30	0.50	MNH1	CBU		22,250.00	0		CIRCULATE B/U TO CLEAN HOLE. NO FLARE.
11:00	0.50	MNH1	TOH		22,250.00	0		POOH F/ 12337' - T/ 11888'. MAX PULL 210
11:30	0.50	MNH1	SVC		22,250.00	0		SERVICE RIG: GREASE TOP DRIVE, BLOCKS, & DRAWWORKS.
12:00	2.50	MNH1	TIH		22,250.00	1		NPT: TIH F/ 12337' - T/ 14550'
14:30	1.00	MNH1	HOP		22,250.00	1		NPT: WASH & REAM F/ 14550' - T/15100'. GPM 282 TORQUE 4-10K.
15:30	1.50	MNH1	TIH		22,250.00	1		NPT: TIH F/ 15100' - T/ 16100'.
17:00	1.50	MNH1	CDM		22,250.00	1		NPT: CIRCULATE HOLE CLEAN. GPM 282 P/U 170 SO 130 RPM 75 PRESSURE 5200 NO FLARE
18:30	2.00	MNH1	TOH		22,250.00	1		NPT: POOH F/ 16100' - T/ 11888. P/U 240 DROP DRIFT @ SHOE
20:30	1.50	MNH1	TOH		22,250.00	1		POOH F/ 11888' - T/ 8897'. P/U 210
22:00	0.50	MNH1	TOH		22,250.00	1		NPT: WAIT ON WIND.
22:30	1.50	MNH1	TOH		22,250.00	0		POOH F/ 8897' - T/ 4694'. LAY DOWN AGITATOR.
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
03/23/2017 12:00	SHELL	BH Mechanical Borehole Issues	22,250.00	TIH	N		8.50	8.50		OPEN
Description: SHORT TRIP.						Title: SHORT TRIP.				
03/23/2017 22:00	SHELL	Wait On Weather	22,250.00	TOH	N		0.50	0.50		OPEN
Description: WAIT ON WIND.						Title: WAIT ON WEATHER.				
Total							9.00	9.00		

Deepest 5 Surveys

MD (ft)	Inc. (°)	Azi. (°)	TVD (ft)	N/S (ft)	E/W (ft)	V.Sec (ft)	DLeg (°/100ft)	Tool
21,980.00	90.31	158.08	11,583.36	-10,337.67	2,732.99	10,692.76	0.84	PTW MWD+HDGM_2016
22,159.00	89.59	156.17	11,583.52	-10,502.54	2,802.69	10,870.06	1.14	PTW MWD_2016
22,159.00	89.59	155.94	11,583.67	-10,494.36	2,828.64	10,868.88	1.08	PTW MWD+HDGM+AXIAL_2016
22,198.00	90.11	156.12	11,583.77	-10,530.00	2,844.48	10,907.41	1.41	PTW MWD+HDGM+AXIAL_2016
22,250.00	89.59	156.17	11,584.17	-10,585.78	2,839.45	10,959.99	0.00	PTW MWD_2016

EP WELLS DAILY OPERATIONS REPORT

Report 24

03/23/2017

Well UNIVERSITY 19 PW UNIT 1507H
Wellbore UNIVERSITY 19 PW UNIT 1507H

Fluid Details

Mud type	Invermul	Oil/Water (%)	55.50/16.00	POM (cc)	348.0
MD (ft)	22,250.00	TS/HGS/LGS (%)	26.90/18.30/8.60	CaCl2 (%)	
Mud Density (ppg)	13.80	Sand (%)		Caom/Clom (ppm)	
Vis (s/qt)	66.00	Oil/Water Ratio (%)	77.60/22.40	ACT	
PV/YP (cp/lbf/100ft ²)	30.00/13.000	LCM (lbm/bbl)		XS Lime(lbm/bbl)	
Gels 10 s/m (lbf/100ft ²)	8.000/14.000	ECD (ppg)		ES (Volts)	
API/HTHP WL (cc/30min)	/10.0	H2S (gas unit)		R600/300 (°)	
FC/HTHP FC (32nd")	/4.0	KCl (%)		R200/100 (°)	
WPS (ppm)	252,563	Ditch Magnet in Last 24hrs/Cum. (gm)		R6/3 (°)	
FL temp. (°F)					

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
6	6.125	BAKER HUGHES	TD405FX			7161725	5x16	13,753.00		-----

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.
4" DRILL PIPE	522	17,542.63	4.000		3.340	XT-39			RIG
5" SHOCK SUB	1	11.15	5.010			XT-39			W1885763
4" DRILL PIPE	64	2,871.92	4.000		3.340	XT-39			RIG
5" AGITATOR SHOCK SUB COMBO	1	23.22	5.020		2.000	XT-39			ASA500014
4" DRILL PIPE	36	1,612.11	4.000		3.340	XT-39			RIG
6" DOGLEG REAMER	1	4.30	5.700			XT-39			B1/A204231
4" DRILL PIPE	2	89.59	4.000		3.340	XT-39			RIG
X-O SUB	1	2.06	5.070		2.500	XT-39			DR14249
FLOAT SUB	1	2.12	4.510		1.800	3 1/2 IF			FS47552
SCREEN SUB	1	3.70	4.810		4.250	3 1/2 IF			DR31950
NMDC	1	29.03	4.530		2.625	3 1/2 IF			NESNM475559
475 GAP SUB ASSY DBL SEAL PHX VELOCITY	1	3.77	5.200		2.880	3 1/2 IF			VG475099P TS
475 CENTRALIZER COLLAR VELOCITY	1	8.35	5.200		3.630	4.3 ACME			VC475029
475 LANDING SUB ASSY VELOCITY	1	3.42	5.050		3.140	4.3 ACME			VL475046
475 X-O SUB VELOCITY	1	1.18	4.750		2.660	3 1/2 IF			VX475030
NON MAG PONY COLLAR	1	14.40	4.700		2.625	3 1/2 IF			NESPC475436
MUD MOTOR 500 NOV 513 FBH LOBE 6/7. STAGE 6.4. SET @	1	25.88	5.370			3 1/2 IF			24XH-513031-PTS
BIT# 6 RUN# 1 6.125" BAKER TD405FX (5X16's) SN: 7161725	1	1.17	6.125	6.125		3 1/2 REG			7161725

Drillstring Details

Date/Time in	Date/Time out	BHA no.	BHA Length (ft)	Min. ID (in)	Purpose
03/16/2017 22:00		6	133.75		DRILL 6.125" PRODUCTION SECTION

EP WELLS DAILY OPERATIONS REPORT

Report 24 03/23/2017

Well UNIVERSITY 19 PW UNIT 1507H
Wellbore UNIVERSITY 19 PW UNIT 1507H

Remarks

DIESEL FUEL ON HAND 8203 GALLONS
DIESEL FUEL USED 1261 GALLONS
DIESEL FUEL DELIVERED GALLONS
CNG USED 529.69 GALLONS

EP WELLS DAILY OPERATIONS REPORT

Report 25

03/24/2017

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 19 PW UNIT 1507H
Wellbore	UNIVERSITY 19 PW UNIT 1507H
WBS No/API No	30257940 / 4230133144.00

Event Summary

Event Type	Drilling only	Event Start Date	01/22/2017	Days on Location	24.56
Objective	Drill - Wolfcamp B1 Shale HZ	Original Spud Date	01/22/2017	Days Since Spud	21.89
Est. Days	26.00	Contractor	PRECISION		
Work Unit	PRECISION 559	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	DENNIS JOHNSON/TREY HARGETT	Measured Depth(ft)	22,250.00
Engineer	YERMEK TYNYSHBAYEV	TVD(ft)	11,584.17
Other Supervisor	TANNER MANUEL/DALY MOSBROKER/YU LIU	24 Hr Progress(ft)	
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,769.50 / 2,743.50	Hole size(in)	6.125
THF Datum			
Daily NPT(hr/%)	0/0	Last Casing MD	7.000in@11,940.00ft
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	4.500in@22,250.00ft
Actual cost to date/AFE	1,883,335/3,106,955.00	Current Fluid Density(ppg)	13.90
Actual divided by AFE	0.61	LOT/FIT EMW(ppg)	
Daily Cost	201,661	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	163	TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	
Safety Comments:							
MAN HRS: 547							

HSE Drills

Drills/Tests	Date	Days Since Last	JSA's/Toolbox Talks Days Since Last Drill	25
Last Derrick Inspection	03/21/2017	3		
Last BOP function test	03/14/2017	10		
Last BOP Test	04/04/2017			
Next BOP Test				

Operations Summary

24 Hour Summary
POOH F/ 4694' - T/ BHA. L/D BHA. RUN 4.5" CASING. (174 JTS P-110 13.5# DQX, X-OVER, 94 JTS P-110 13.5# H563). M/U CASING HANGER. TIH W/ 4" DP F/ 11371' - T/ 16223'. WASH & REAM F/ 16223' - T/ 16451'.
Update Since Report Time
WASH & REAM T/ 16850'. TIH W/ 4" DP F/ 16850' - T/ 19750.
24 Hour Forecast
CONTINUE TO TIH W/ 4" DP. CEMENT & DISPLACE.

EP WELLS DAILY OPERATIONS REPORT

Report 25

03/24/2017

Well UNIVERSITY 19 PW UNIT 1507H
Wellbore UNIVERSITY 19 PW UNIT 1507H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	2.00	MNH1	TOH		22,250.00	0		POOH F/ 4694' - T/ BHA'.
2:00	2.00	MNH1	TOH		22,250.00	0		L/D BHA. (BIT# 6 RUN# 1 6.125" BAKER TD405FX (5X16's) SN: 7161725 (1-2-WT-N-X-1/16-X-TD)
4:00	0.50	MNH1	SVC		22,250.00	0		RIG SERVICE: SERVICE TOP DRIVE
4:30	0.50	MNH1	TOH		22,250.00	0		CLEAN RIG FLOOR TO RUN LINER
5:00	1.00	MNH1	RIC		22,250.00	0		RIG UP CASING TOOLS
6:00	1.00	MNH1	CLR		22,250.00	0		M/U SHOE TRACK T/ 134'
7:00	6.00	MNH1	CLR		22,250.00	0		RUN 4.5" LINER F/ 134' - T/ 7431'. (174 JTS OF 4.5" P-110, 13.5#, DQX) FILL EVERY 20 JTS.
13:00	3.00	MNH1	CLR		22,250.00	0		M/U X-OVER. (DQX PIN TO H563 BOX). CONTINUE RUNNING 4.5" LINER F/7431' - T/ 11283'. (85 JTS OF 4.5" P-110, 13.5#, H563) (TOTAL JTS =259) FILL EVERY 20 JTS.
16:00	2.00	MNH1	CLR		22,250.00	0		P/U & M/U CASING HANGER & RUN IN WITH SINGLE (4" DP).
18:00	0.50	MNH1	SVC		22,250.00	0		SERVICE RIG: TOP DRIVE.
18:30	0.50	MNH1	CLR		22,250.00	0		R/D CASING TOOLS & CLEAR FLOOR TO RUN 4" DP.
19:00	3.50	MNH1	CLR		22,250.00	0		TIH 4" DP F/ 11371' - T/ 16223'.
22:30	1.50	MNH1	CLR		22,250.00	0		WASH & REAM F/ 16256' T/ 16451'. 20 RPM, 32 STKS, MAX WOB 10 K, GPM 73, SPP 1034.
Total	24.00							

Deepest 5 Surveys

MD (ft)	Inc. (°)	Azi. (°)	TVD (ft)	N/S (ft)	E/W (ft)	V.Sec (ft)	DLeg (°/100ft)	Tool
21,980.00	90.31	158.08	11,583.36	-10,337.67	2,732.99	10,692.76	0.84	PTW MWD+HDGM_2016
22,159.00	89.59	156.17	11,583.52	-10,502.54	2,802.69	10,870.06	1.14	PTW MWD_2016
22,159.00	89.59	155.94	11,583.67	-10,494.36	2,828.64	10,868.88	1.08	PTW MWD+HDGM+AXIAL_2016
22,198.00	90.11	156.12	11,583.77	-10,530.00	2,844.48	10,907.41	1.41	PTW MWD+HDGM+AXIAL_2016
22,250.00	89.59	156.17	11,584.17	-10,585.78	2,839.45	10,959.99	0.00	PTW MWD_2016

Fluid Details

Mud type	Invermul	Oil/Water (%)	56.00/15.50	POM (cc)	
MD (ft)	22,250.00	TS/HGS/LGS (%)	26.80/19.10/7.70	CaCl2 (%)	
Mud Density (ppg)	13.90	Sand (%)		Caom/Clom (ppm)	
Vis (s/qt)	79.00	Oil/Water Ratio (%)	78.30/21.70	ACT	
PV/YP (cp/lbf/100ft²)	31.00/11.000			XS Lime(lbm/bbl)	3.37
Gels 10 s/m (lbf/100ft²)	8.000/11.000	LCM (lbm/bbl)		ES (Volts)	320.0
API/HTHP WL (cc/30min)	/10.0	ECD (ppg)		R600/300 (°)	
FC/HTHP FC (32nd")	/4.0	H2S (gas unit)		R200/100 (°)	
WPS (ppm)	263	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
6	6.125	BAKER HUGHES	TD405FX			7161725	5x16	13,753.00		-----

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)

EP WELLS DAILY OPERATIONS REPORT

Report 25

03/24/2017

Well UNIVERSITY 19 PW UNIT 1507H
Wellbore UNIVERSITY 19 PW UNIT 1507H

Drillstring Components

Item description	# Jts	Length (ft)	OD (in)	Max OD (in)	ID (in)	Connection Name	Weight (ppf)	Grade	Serial no.
4" DRILL PIPE	522	17,542.63	4.000		3.340	XT-39			RIG
5" SHOCK SUB	1	11.15	5.010			XT-39			W1885763
4" DRILL PIPE	64	2,871.92	4.000		3.340	XT-39			RIG
5" AGITATOR SHOCK SUB COMBO	1	23.22	5.020		2.000	XT-39			ASA500014
4" DRILL PIPE	36	1,612.11	4.000		3.340	XT-39			RIG
6" DOGLEG REAMER	1	4.30	5.700			XT-39			B1/A204231
4" DRILL PIPE	2	89.59	4.000		3.340	XT-39			RIG
X-O SUB	1	2.06	5.070		2.500	XT-39			DR14249
FLOAT SUB	1	2.12	4.510		1.800	3 1/2 IF			FS47552
SCREEN SUB	1	3.70	4.810		4.250	3 1/2 IF			DR31950
NMDC	1	29.03	4.530		2.625	3 1/2 IF			NESNM475559
475 GAP SUB ASSY DBL SEAL PHX VELOCITY	1	3.77	5.200		2.880	3 1/2 IF			VG475099PTS
475 CENTRALIZER COLLAR VELOCITY	1	8.35	5.200		3.630	4.3 ACME			VC475029
475 LANDING SUB ASSY VELOCITY	1	3.42	5.050		3.140	4.3 ACME			VL475046
475 X-O SUB VELOCITY	1	1.18	4.750		2.660	3 1/2 IF			VX475030
NON MAG PONY COLLAR	1	14.40	4.700		2.625	3 1/2 IF			NESPC475436
MUD MOTOR 500 NOV 513 FBH LOBE 6/7. STAGE 6.4. SET @	1	25.88	5.370			3 1/2 IF			24XH-513031-PTS
BIT# 6 RUN# 1 6.125" BAKER TD405FX (5X16's) SN: 7161725	1	1.17	6.125	6.125		3 1/2 REG			7161725

Drillstring Details

Date/Time in	Date/Time out	BHA no.	BHA Length (ft)	Min. ID (in)	Purpose
03/16/2017 22:00		6	133.75		DRILL 6.125" PRODUCTION SECTION

Remarks

DIESEL FUEL ON HAND 7368 GALLONS
DIESEL FUEL USED 1135 GALLONS
DIESEL FUEL DELIVERED GALLONS
CNG USED 47.95 GALLONS

EP WELLS DAILY OPERATIONS REPORT

Report 26

03/25/2017

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 19 PW UNIT 1507H
Wellbore	UNIVERSITY 19 PW UNIT 1507H
WBS No/API No	30257940 / 4230133144.00

Event Summary

Event Type	Drilling only	Event Start Date	01/22/2017	Days on Location	25.56
Objective	Drill - Wolfcamp B1 Shale HZ	Original Spud Date	01/22/2017	Days Since Spud	22.89
Est. Days	26.00	Contractor	PRECISION		
Work Unit	PRECISION 559	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	DENNIS JOHNSON/TREY HARGETT	Measured Depth(ft)	22,250.00
Engineer	YERMEK TYNYSHBAYEV	TVD(ft)	11,584.17
Other Supervisor	TANNER MANUEL/DALY MOSBROKER/YU LIU	24 Hr Progress(ft)	
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,769.50 / 2,743.50	Hole size(in)	6.125
THF Datum			
Daily NPT(hr/%)	0/0	Last Casing MD	7.000in@11,940.00ft
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	4.500in@22,250.00ft
Actual cost to date/AFE	1,940,642/3,106,955.00	Current Fluid Density(ppg)	13.80
Actual divided by AFE	0.62	LOT/FIT EMW(ppg)	
Daily Cost	57,307	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	164	TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	
Safety Comments:							
MAN HRS: 374							

HSE Drills

Drills/Tests	Date	Days Since Last	JSA's/Toolbox Talks Days Since Last Drill	26
Last Derrick Inspection	03/21/2017	4		
Last BOP function test	03/14/2017	11		
Last BOP Test	04/04/2017			

Operations Summary

24 Hour Summary
WASH & REAM F/ 16451' - T/ 16851'. TIH W/ 4" DP F/ 16851' - T/ 20980'. WASH & REAM F/ 20980' - T/ 22250'. P/U & M/U CEMENT HEAD. HAD TO APPLY LEFT HAND TORQUE TO RELEASE FROM HANGER.
Update Since Report Time
PUMPING DISPLACEMENT.
24 Hour Forecast
CONTINUE DISPLACEMENT. POOH. SKID RIG T/ 1508 WELL. PULL WEAR BUSHING. INSTALL BPV. TEST BOPS.

EP WELLS DAILY OPERATIONS REPORT

Report 26

03/25/2017

Well UNIVERSITY 19 PW UNIT 1507H
Wellbore UNIVERSITY 19 PW UNIT 1507H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	2.00	MNH1	CLR		22,250.00	0		WASH & REAM F/ 16451' T/ 16851'. 20 RPM, 32 STKS, MAX WOB 10 K, GPM 73, SPP 1034.
2:00	2.50	MNH1	CLR		22,250.00	0		TRIP LINER IN HOLE W/ 4" DP F/ 16851' - T/ 19993
4:30	1.50	MNH1	CLR		22,250.00	0		WASH & REAM F/ 19993' - T/ 20,980'. 20 RPM, 32 STKS, MAX WOB 10 K, GPM 73, SPP 1034.
6:00	12.00	MNH1	CLR		22,250.00	0		WASH & REAM F/ 20980' - T/ 22250.. GPM 70, PRESSURE 1300 PSI, RPM 30.
18:00	0.50	MNH1	RCC		22,250.00	0		P/U & M/U CEMENT HEAD.
18:30	5.00	MNH1	CEM		22,250.00	0		DROP 1.25" BALL & SET FLEX LOCK HANGER @ 10,911'. BALL EXTRUDED @ 3800 PSI. DROP 2ND BALL WAIT 30 MIN FOR BALL TO FALL. HANGER DID NOT RELEASE. FOLLOW LINER RELEASE CONTINGENCY. HANGER RELEASED USING LEFT HAND TORQUE METHOD.
23:30	0.50	MNH1	LCH		22,250.00	0		R/U CEMENT LINES T/ CEMENT HEAD. TEST CEMENT LINES.
Total	24.00							

Deepest 5 Surveys

MD (ft)	Inc. (°)	Azi. (°)	TVD (ft)	N/S (ft)	E/W (ft)	V.Sec (ft)	DLeg (°/100ft)	Tool
21,980.00	90.31	158.08	11,583.36	-10,337.67	2,732.99	10,692.76	0.84	PTW MWD+HDGM_2016
22,159.00	89.59	156.17	11,583.52	-10,502.54	2,802.69	10,870.06	1.14	PTW MWD_2016
22,159.00	89.59	155.94	11,583.67	-10,494.36	2,828.64	10,868.88	1.08	PTW MWD+HDGM+AXIAL_2016
22,198.00	90.11	156.12	11,583.77	-10,530.00	2,844.48	10,907.41	1.41	PTW MWD+HDGM+AXIAL_2016
22,250.00	89.59	156.17	11,584.17	-10,585.78	2,839.45	10,959.99	0.00	PTW MWD_2016

Fluid Details

Mud type	Invermul	Oil/Water (%)	57.00/16.00	POM (cc)	
MD (ft)	22,250.00	TS/HGS/LGS (%)	25.20/20.10/5.10	CaCl2 (%)	
Mud Density (ppg)	13.80	Sand (%)		Caom/Clom (ppm)	
Vis (s/qt)	87.00	Oil/Water Ratio (%)	78.10/21.90	ACT	
PV/YP (cp/lbf/100ft²)	31.00/12.000	LCM (lbm/bbl)		XS Lime(lbm/bbl)	3.37
Gels 10 s/m (lbf/100ft²)	8.000/11.000	ECD (ppg)		ES (Volts)	331.0
API/HTHP WL (cc/30min)	/10.0	H2S (gas unit)		R600/300 (°)	
FC/HTHP FC (32nd")	/4.0	KCl (%)		R200/100 (°)	
WPS (ppm)	269,460			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
6	6.125	BAKER HUGHES	TD405FX			7161725	5x16	13,753.00		-----

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.
4" DRILL PIPE	522	17,542.63	4.000		3.340	XT-39			RIG
5" SHOCK SUB	1	11.15	5.010			XT-39			W1885763
4" DRILL PIPE	64	2,871.92	4.000		3.340	XT-39			RIG

EP WELLS DAILY OPERATIONS REPORT

Report 26

03/25/2017

Well UNIVERSITY 19 PW UNIT 1507H
Wellbore UNIVERSITY 19 PW UNIT 1507H

Drillstring Components

Item description	# Jts	Length (ft)	OD (in)	Max OD (in)	ID (in)	Connection Name	Weight (ppf)	Grade	Serial no.
5" AGITATOR SHOCK SUB COMBO	1	23.22	5.020		2.000	XT-39			ASA500014
4" DRILL PIPE	36	1,612.11	4.000		3.340	XT-39			RIG
6" DOGLEG REAMER	1	4.30	5.700			XT-39			B1/A204231
4" DRILL PIPE	2	89.59	4.000		3.340	XT-39			RIG
X-O SUB	1	2.06	5.070		2.500	XT-39			DR14249
FLOAT SUB	1	2.12	4.510		1.800	3 1/2 IF			FS47552
SCREEN SUB	1	3.70	4.810		4.250	3 1/2 IF			DR31950
NMDC	1	29.03	4.530		2.625	3 1/2 IF			NESNM475559
475 GAP SUB ASSY DBL SEAL PHX VELOCITY	1	3.77	5.200		2.880	3 1/2 IF			VG475099PTS
475 CENTRALIZER COLLAR VELOCITY	1	8.35	5.200		3.630	4.3 ACME			VC475029
475 LANDING SUB ASSY VELOCITY	1	3.42	5.050		3.140	4.3 ACME			VL475046
475 X-O SUB VELOCITY	1	1.18	4.750		2.660	3 1/2 IF			VX475030
NON MAG PONY COLLAR	1	14.40	4.700		2.625	3 1/2 IF			NESPC475436
MUD MOTOR 500 NOV 513 FBH LOBE 6/7. STAGE 6.4. SET @	1	25.88	5.370			3 1/2 IF			24XH-513031-PTS
BIT# 6 RUN# 1 6.125" BAKER TD405FX (5X16's) SN: 7161725	1	1.17	6.125	6.125		3 1/2 REG			7161725

Drillstring Details

Date/Time in	Date/Time out	BHA no.	BHA Length (ft)	Min. ID (in)	Purpose
03/16/2017 22:00		6	133.75		DRILL 6.125" PRODUCTION SECTION

Remarks

DIESEL FUEL ON HAND 12169 GALLONS
DIESEL FUEL USED 2026 GALLONS
DIESEL FUEL DELIVERED 6827 GALLONS
CNG USED GALLONS

EP WELLS DAILY OPERATIONS REPORT

Report 27

03/26/2017

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 19 PW UNIT 1507H
Wellbore	UNIVERSITY 19 PW UNIT 1507H
WBS No/API No	30257940 / 4230133144.00

Event Summary

Event Type	Drilling only	Event Start Date	01/22/2017	Days on Location	26.56
Objective	Drill - Wolfcamp B1 Shale HZ	Original Spud Date	01/22/2017	Days Since Spud	23.89
Est. Days	26.00	Contractor	PRECISION		
Work Unit	PRECISION 559	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	DENNIS JOHNSON/TREY HARGETT	Measured Depth(ft)	22,250.00
Engineer	YERMEK TYNYSHBAYEV	TVD(ft)	11,584.17
Other Supervisor	TANNER MANUEL/DALY MOSBROKER/YU LIU	24 Hr Progress(ft)	0.00
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,769.50 / 2,743.50	Hole size(in)	6.125
THF Datum			
Daily NPT(hr/%)	0/0	Last Casing MD	7.000in@11,940.00ft
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	4.500in@22,250.00ft
Actual cost to date/AFE	2,110,447/3,106,955.00	Current Fluid Density(ppg)	13.75
Actual divided by AFE	0.68	LOT/FIT EMW(ppg)	
Daily Cost	169,805	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	165	TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	
Safety Comments:							
MAN HRS: 418							

HSE Drills

Drills/Tests	Date	Days Since Last	JSA's/Toolbox Talks Days Since Last Drill	27
Last Derrick Inspection Last BOP function test Last BOP Test Next BOP Test	03/21/2017 03/14/2017 04/04/2017	5 12		

Operations Summary

24 Hour Summary
1507H: CEMENT LINER. 30 BBL OF CEMENT BACK TO SURFACE. TEST LINER TOP TO 2500 PSI. DISPLACE W/ 9.4 BRINE WHILE HOLDING CONSTANT BHP THROUGH CHOKES. POOH F/ 11727 T/ BAKER SETTING TOOL & L/D SETTING TOOL. REMOVE BIT GUIDE INSTALL BPV. N/D BOPS. RELEASE F/ UNIVERSITY 19 UNIT1507H @ 1400 HRS. TO 1508H
Update Since Report Time
24 Hour Forecast

EP WELLS DAILY OPERATIONS REPORT

Report 27

03/26/2017

Well UNIVERSITY 19 PW UNIT 1507H
Wellbore UNIVERSITY 19 PW UNIT 1507H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	3.00	MNH1	CEM		22,250.00	0		CEMENT 4.5 LINER WITH 60 BBL OF 14 PPG ULTRA FLUSH SPACER, PUMP 1035 SKS OF 14.5 PPG CLASS H PREMIUM CEMENT SLURRY YIELD 1.205, BBLs 222.1. DROP PLUG. DISPLACE W/ 20 BBLs OF FW, 130 BBLs OF 9.4 PPG BRINE AND 115 OBM. BUMP PLUG WITH 500 OVER AND HOLD -FLOATS NOT HOLDING. SET PACKER. TEST CASING T/ 2500# HELD FOR 5MIN. GOOD TEST.
3:00	1.50	MNH1	SLP		22,250.00	0		DISPLACE WELL WITH OBM. 30 BBLs OF CEMENT BACK TO SURFACE. R/D CEMENTERS.
4:30	1.50	MNH1	SLP		22,250.00	0		DISPLACE WELL W/ BRINE. HOLDING BHP THROUGH CHOKES.
6:00	5.50	MNH1	TOH		22,250.00	0		POOH F/ 11727' - T/ SURFACE.
11:30	0.50	MNH1	TOH		22,250.00	0		L/D BAKER RELEASE TOOL.
12:00	0.50	MNH1	TOH		22,250.00	0		M/U CAMERON BIT GUIDE RETRIEVING TOOL. REMOVE BIT GUIDE.
12:30	0.50	MNH1	TOH		22,250.00	0		INSTALL BPV.
13:00	1.00	MNH1	RDP		22,250.00	0		N/D BOPS. RELEASE FROM UNIVERSITY 1507H @ 1400 HRS.
Total	14.00							

Deepest 5 Surveys

MD (ft)	Inc. (°)	Azi. (°)	TVD (ft)	N/S (ft)	E/W (ft)	V.Sec (ft)	DLeg (°/100ft)	Tool
21,980.00	90.31	158.08	11,583.36	-10,337.67	2,732.99	10,692.76	0.84	PTW MWD+HDGM_2016
22,159.00	89.59	156.17	11,583.52	-10,502.54	2,802.69	10,870.06	1.14	PTW MWD_2016
22,159.00	89.59	155.94	11,583.67	-10,494.36	2,828.64	10,868.88	1.08	PTW MWD+HDGM+AXIAL_2016
22,198.00	90.11	156.12	11,583.77	-10,530.00	2,844.48	10,907.41	1.41	PTW MWD+HDGM+AXIAL_2016
22,250.00	89.59	156.17	11,584.17	-10,585.78	2,839.45	10,959.99	0.00	PTW MWD_2016

Fluid Details

Mud type	Invermul	Oil/Water (%)	56.50/16.00	POM (cc)	
MD (ft)	22,250.00	TS/HGS/LGS (%)	25.70/19.10/6.60	CaCl2 (%)	
Mud Density (ppg)	13.75	Sand (%)		Caom/Clom (ppm)	
Vis (s/qt)	87.00	Oil/Water Ratio (%)	77.90/22.10	ACT	
PV/YP (cp/lbf/100ft²)	26.00/12.000	LCM (lbm/bbl)		XS Lime(lbm/bbl)	
Gels 10 s/m (lbf/100ft²)	7.000/9.000	ECD (ppg)		ES (Volts)	
API/HTHP WL (cc/30min)	/10.8	H2S (gas unit)		R600/300 (°)	
FC/HTHP FC (32nd")	/4.0	KCl (%)		R200/100 (°)	
WPS (ppm)	264,423			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
6	6.125	BAKER HUGHES	TD405FX			7161725	5x16	13,753.00		-----

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.
4" DRILL PIPE	522	17,542.63	4.000		3.340	XT-39			RIG

EP WELLS DAILY OPERATIONS REPORT

Report 27

03/26/2017

Well UNIVERSITY 19 PW UNIT 1507H
Wellbore UNIVERSITY 19 PW UNIT 1507H

Drillstring Components

Item description	# Jts	Length (ft)	OD (in)	Max OD (in)	ID (in)	Connection Name	Weight (ppf)	Grade	Serial no.
5" SHOCK SUB	1	11.15	5.010			XT-39			W1885763
4" DRILL PIPE	64	2,871.92	4.000		3.340	XT-39			RIG
5" AGITATOR SHOCK SUB COMBO	1	23.22	5.020		2.000	XT-39			ASA500014
4" DRILL PIPE	36	1,612.11	4.000		3.340	XT-39			RIG
6" DOGLEG REAMER	1	4.30	5.700			XT-39			B1/A204231
4" DRILL PIPE	2	89.59	4.000		3.340	XT-39			RIG
X-O SUB	1	2.06	5.070		2.500	XT-39			DR14249
FLOAT SUB	1	2.12	4.510		1.800	3 1/2 IF			FS47552
SCREEN SUB	1	3.70	4.810		4.250	3 1/2 IF			DR31950
NMDC	1	29.03	4.530		2.625	3 1/2 IF			NESNM475559
475 GAP SUB ASSY DBL SEAL PHX VELOCITY	1	3.77	5.200		2.880	3 1/2 IF			VG475099PTS
475 CENTRALIZER COLLAR VELOCITY	1	8.35	5.200		3.630	4.3 ACME			VC475029
475 LANDING SUB ASSY VELOCITY	1	3.42	5.050		3.140	4.3 ACME			VL475046
475 X-O SUB VELOCITY	1	1.18	4.750		2.660	3 1/2 IF			VX475030
NON MAG PONY COLLAR	1	14.40	4.700		2.625	3 1/2 IF			NESPC475436
MUD MOTOR 500 NOV 513 FBH LOBE 6/7. STAGE 6.4. SET @	1	25.88	5.370			3 1/2 IF			24XH-513031-PTS
BIT# 6 RUN# 1 6.125" BAKER TD405FX (5X16's) SN: 7161725	1	1.17	6.125	6.125		3 1/2 REG			7161725

Drillstring Details

Date/Time in	Date/Time out	BHA no.	BHA Length (ft)	Min. ID (in)	Purpose
03/16/2017 22:00		6	133.75		DRILL 6.125" PRODUCTION SECTION

Remarks

DIESEL FUEL ON HAND 12169 GALLONS
DIESEL FUEL USED GALLONS
DIESEL FUEL DELIVERED 5500 GALLONS
CNG USED 47.95 GALLONS