

EP WELLS DAILY OPERATIONS REPORT

Report 10

06/27/2017

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 19 J 0910H
Wellbore	UNIVERSITY 19 J 0910H
WBS No/API No	30265148 / 4230133232.00

Event Summary

Event Type	Drilling only	Event Start Date	06/08/2017	Days on Location	9.46
Objective	Drill - Wolfcamp Beta	Original Spud Date	06/14/2017	Days Since Spud	3.80
Est. Days	21.00	Contractor	ENSIGN		
Work Unit	ENSIGN 775	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	STEVE SLOOP	Measured Depth(ft)	4,923.00
Engineer	BRANDON FOOTE	TVD(ft)	4,889.57
Other Supervisor	JOHNNIE BRASSELL	24 Hr Progress(ft)	
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,800.90 / 2,772.90	Hole size(in)	
THF Datum			
Daily NPT(hr/%)	0/0	Last Casing MD	20.000in@148.00ft
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	9.625in@4,923.00ft
Actual cost to date/AFE	823,761/2,565,881.00	Current MW / BH EMW(ppg)	/
Actual divided by AFE	0.32	LOT/FIT EMW(ppg)	
Daily Cost	31,724	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	09/29/2015	637	TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	0 12 16
Safety Comments:	DROPS & RIG UP INSPECTION DONE.						

HSE Drills

Drills/Tests	Date	Days Since Last		
Last Derrick Inspection Last BOP function test Last BOP Test Next BOP Test			JSA's/Toolbox Talks Days Since Last Drill	16 9

Operations Summary

24 Hour Summary
WALK RIG T/ UNIVERSITY 19 J 0910H, R/D CONDUCTOR & FLOW LINE, N/U 13.5/8s BOPS
Update Since Report Time
TESTING BOPS
24 Hour Forecast
COMPLETE BOP TEST, TEST CSG 1500PSI, M/U BHA, TIH, DRLG DVT, TIH DRLG ST, DRLG 8.3/4 VERT SEC TO KOP @ +/- 11000'

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Well UNIVERSITY 19 J 0910H
Wellbore UNIVERSITY 19 J 0910H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
9:00	3.50	INT1	WLK		4,923.00	0		WALK RIG T/ UNIVERSITY 19 J 0910H
12:30	1.50	INT1	RDP		4,923.00	0		R/D CONDUCTOR & FLOW LINE
14:00	10.00	INT1	RUP		4,923.00	0		N/U 13.5/8s BOPS
Total	15.00							

Deepest 5 Surveys

MD (ft)	Inc. (°)	Azi. (°)	TVD (ft)	N/S (ft)	E/W (ft)	V.Sec (ft)	DLeg (°/100ft)	Tool
4,615.90	6.49	130.09	4,584.68	-387.41	331.78	-463.71	0.19	PTW MWD+HDGM+AXIAL_2016
4,615.90	6.49	130.09	4,584.68	-387.36	331.88	-463.68	0.19	PTW MWD+HDGM_2016
4,794.90	7.04	125.37	4,762.43	-400.28	348.46	-480.66	0.44	PTW MWD+HDGM+AXIAL_2016
4,794.90	7.04	125.37	4,762.43	-400.22	348.56	-480.64	0.44	PTW MWD+HDGM_2016
4,844.90	7.01	126.35	4,812.06	-403.86	353.42	-485.47	0.25	PTW MWD+HDGM+AXIAL_2016

Fluid Details

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

PUMP/HYDRAULIC DATA

Pump No.	Type	Make/Model	Stroke (in)	Liner size (in)	Efficiency (%)	Pressure (psi)	SPM (spm)	Output (gpm)	Kill SPM/Pressure/Depth (spm/psi/ft)
1		GARDENER-DENVER / PZ-11-1600	11.00						
2		GARDENER-DENVER / PZ-11-1600	11.00						

Remarks

FUEL ON LOCATION 16112 GAL
FUEL DELIVERED: 0 GAL
FUEL USED: 530.3 GAL
MOTOR HRS 15 EA

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06/28/2017

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 19 J 0910H
Wellbore	UNIVERSITY 19 J 0910H
WBS No/API No	30265148 / 4230133232.00

Event Summary

Event Type	Drilling only	Event Start Date	06/08/2017	Days on Location	10.46
Objective	Drill - Wolfcamp Beta	Original Spud Date	06/14/2017	Days Since Spud	4.80
Est. Days	21.00	Contractor	ENSIGN		
Work Unit	ENSIGN 775	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	STEVE SLOOP	Measured Depth(ft)	4,923.00
Engineer	BRANDON FOOTE	TVD(ft)	4,889.59
Other Supervisor	JOHNNIE BRASSELL	24 Hr Progress(ft)	
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,800.90 / 2,772.90	Hole size(in)	
THF Datum			
Daily NPT(hr/%)	0/0	Last Casing MD	20.000in@148.00ft
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	9.625in@4,923.00ft
Actual cost to date/AFE	861,603/2,565,881.00	Current MW / BH EMW(ppg)	/
Actual divided by AFE	0.34	LOT/FIT EMW(ppg)	
Daily Cost	43,491	Lithology	
		Formation/MD Top	

HSE Summary

Last Incident	Date	Days	Last Incident	Date	Days	KPI's	
LWC RWC MTC FAC Last casing pressure test	06/28/2017		PSI NII HPI GOAL ZERO DAYS PS BARRIER EVENT PS barrier bowtie review	09/29/2015	638	TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	0 10 16 1500
Safety Comments:	REVIEW LINE OF FIRE & HEAT STRESS ILLNESS						

HSE Drills

Drills/Tests	Date	Days Since Last		
Last Derrick Inspection	06/28/2017	0	JSA's/Toolbox Talks	16
Last BOP function test	06/28/2017	0	Days Since Last Drill	10
Last BOP Test	07/19/2017			
Next BOP Test				

Operations Summary

24 Hour Summary
N/U 13.5/8s BOPS, TEST BOPS, AS PER SPECS 250/10000PSI KOOMEY DRAW DOWN, CONT R/U FLOW LINE FLARE LINES ROT-HEAD SET WEAR BUSHING ETC, RIG SERVICE, M/U BHA # 2, TIH T/ 1204', TEST CSG T/ 1500PSI
Update Since Report Time
DRLG SHOE TRACK @ 4895
24 Hour Forecast
DRLG 8.3/4 VERT SEC TO KOP @ +/- 11000'

EP WELLS DAILY OPERATIONS REPORT

Report 11

06/28/2017

Well UNIVERSITY 19 J 0910H
Wellbore UNIVERSITY 19 J 0910H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	1.00	INT1	RUP		4,923.00	0		N/U 13.5/8s BOPS
1:00	12.00	INT1	BOP		4,923.00	0		TEST BOPS, AS PER SPECS 250/10000PSI, KOOMEY DRAW DOWN
13:00	7.50	INT1	RUP		4,923.00	0		CONT R/U FLOW LINE, FLARE LINES, ROT-HEAD, WEAR BUSHING ETC.
20:30	0.50	INT1	RUP		4,923.00	0		RIG SERVICE
21:00	1.50	INT1	BHA		4,923.00	0		M/U BHA # 2
22:30	1.00	INT1	TIH		4,923.00	0		TIH T/ 1204'
23:30	0.50	INT1	BOP		4,923.00	0		TEST CSG T/ 1500PSI
Total	24.00							

Deepest 5 Surveys

MD (ft)	Inc. (°)	Azi. (°)	TVD (ft)	N/S (ft)	E/W (ft)	V.Sec (ft)	DLeg (°/100ft)	Tool
4,615.90	6.49	130.09	4,584.68	-387.41	331.78	-463.71	0.19	PTW MWD+HDGM+AXIAL_2016
4,615.90	6.49	130.09	4,584.68	-387.36	331.88	-463.68	0.19	PTW MWD+HDGM_2016
4,794.90	7.04	125.37	4,762.43	-400.28	348.46	-480.66	0.44	PTW MWD+HDGM+AXIAL_2016
4,794.90	7.04	125.37	4,762.43	-400.22	348.56	-480.64	0.44	PTW MWD+HDGM_2016
4,844.90	7.01	126.35	4,812.06	-403.86	353.42	-485.47	0.25	PTW MWD+HDGM+AXIAL_2016

Fluid Details

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

Pump No.	Type	Make/Model	Stroke (in)	Liner size (in)	Efficiency (%)	Pressure (psi)	SPM (spm)	Output (gpm)	Kill SPM/Pressure/Depth (spm/psi/ft)
1		GARDENER-DENVER / PZ-11-1600	11.00						
2		GARDENER-DENVER / PZ-11-1600	11.00						

Remarks

FUEL ON LOCATION 16112 GAL
FUEL DELIVERED: 0 GAL
FUEL USED 848 GALS

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Well	UNIVERSITY 19 J 0910H
Wellbore	UNIVERSITY 19 J 0910H
WBS No/API No	30265148 / 4230133232.00

Event Summary

Event Type	Drilling only	Event Start Date	06/08/2017	Days on Location	11.46
Objective	Drill - Wolfcamp Beta	Original Spud Date	06/14/2017	Days Since Spud	5.80
Est. Days	21.00	Contractor	ENSIGN		
Work Unit	ENSIGN 775	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	STEVE SLOOP	Measured Depth(ft)	7,687.00
Engineer	BRANDON FOOTE	TVD(ft)	7,643.76
Other Supervisor	JOHNNIE BRASSELL	24 Hr Progress(ft)	2,764.00
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,800.90 / 2,772.90	Hole size(in)	8.750
THF Datum			
Daily NPT(hr/%)	0/0	Last Casing MD	9.662in@4,922.43ft
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	7.000in@12,221.90ft
Actual cost to date/AFE	911,193/2,565,881.00	Current MW / BH EMW(ppg)	9.40/
Actual divided by AFE	0.36	LOT/FIT EMW(ppg)	
Daily Cost	46,680	Lithology	
		Formation/MD Top	

HSE Summary

Last Incident	Date	Days	Last Incident	Date	Days	KPI's	
LWC RWC MTC FAC Last casing pressure test	06/28/2017		PSI NII HPI GOAL ZERO DAYS PS BARRIER EVENT PS barrier bowtie review	09/29/2015	639	TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	0 10 16 1500
Safety Comments:	REVEIWED HEAT ILLNESS , WITH CREW CHANGE CREW.						

HSE Drills

Drills/Tests	Date	Days Since Last		
Last Derrick Inspection	06/28/2017	1	JSA's/Toolbox Talks	16
Last BOP function test	06/28/2017	1	Days Since Last Drill	11
Last BOP Test	07/19/2017			
Next BOP Test				

Operations Summary

24 Hour Summary
TEST CSG T/ 1500PSI, DRLG DV-TOOL @ 1204', TIH T/ 4599', C/O GASKET ON ROT-HEAD BOWL, TIH T/ 4802' TAG UP, DRLG ST F/ 4802' T/ 4923', DRLG & SLIDE F/ 4923' T/ 7011', RIG SERVICE, DRLG F/ 7011' T/ 7687'
Update Since Report Time
DRLG @ 8133'
24 Hour Forecast
DRLG 8.3/4 VERT SEC TO KOP @ +/- 11000'

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06/29/2017

Well UNIVERSITY 19 J 0910H
Wellbore UNIVERSITY 19 J 0910H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	1.00	INT1	TIH		4,923.00	0		TEST CSG T/ 1500PSI
1:00	0.50	INT1	DCM		4,923.00	0		DRLG DV-TOOL @ 1204'
1:30	1.50	INT1	TIH		4,923.00	0		TIH T/ 4599'
3:00	0.50	INT1	TIH		4,923.00	0		C/O GASKET ON ROT-HEAD BOWL
3:30	0.50	INT1	TIH		4,923.00	0		TIH T/ 4802' TAG UP
4:00	1.50	INT1	DCM		4,923.00	0		DRLG ST F/ 4802' T/ 4923'
5:30	3.00	INT1	DRL		5,244.00	0		DRLG F/ 4923' T/ 5244' (321' @ 107 FPH) WOB: 40K RPM: SURF 80 MOTOR 210 BIT 300 PSI & FLOW: SPP 2800 GPM 750 DIFF 600- 800 STRING WT: P/U 210, S/O 185, ROT 195 TORQUE: ON BTM 12-14 OFF BTM 3-4 MW: 9.3+ PPG MOTOR: .28 REV/GAL GAS: BG 0 CG 0
8:30	0.50	INT1	DRL		5,264.00	0		SLIDE F/ 5244' T/ 5264' (20' @ 40 FPH) WOB: 20K RPM: SURF 0 MOTOR 210 BIT 210 PSI & FLOW: SPP 2800 GPM 750 DIFF 250-350 STRING WT: P/U 210, S/O 185, ROT 0 TORQUE: ON BTM 0 OFF BTM 0 MW: 9.3+ PPG MOTOR: .28 REV/GAL GAS: BG 0 CG 0
9:00	0.50	INT1	DRL		5,492.00	0		DRLG F/ 5264' T/ 5492' (228' @ 456 FPH) WOB: 40K RPM: SURF 80 MOTOR 210 BIT 300 PSI & FLOW: SPP 2800 GPM 750 DIFF 600- 800 STRING WT: P/U 210, S/O 185, ROT 195 TORQUE: ON BTM 12-14 OFF BTM 3-4 MW: 9.3+ PPG MOTOR: .28 REV/GAL GAS: BG 0 CG 0
9:30	0.50	INT1	DRL		5,537.00	0		SLIDE F/ 5492' T/ 5537' (45' @ 90 FPH) WOB: 20K RPM: SURF 0 MOTOR 210 BIT 210 PSI & FLOW: SPP 2800 GPM 750 DIFF 250-350 STRING WT: P/U 210, S/O 185, ROT 0 TORQUE: ON BTM 0 OFF BTM 0 MW: 9.3+ PPG MOTOR: .28 REV/GAL GAS: BG 0 CG 0
10:00	1.50	INT1	DRL		5,850.00	0		DRLG F/ 5537' T/ 5850' (313' @ 208 FPH) WOB: 40K RPM: SURF 80 MOTOR 210 BIT 300 PSI & FLOW: SPP 2800 GPM 750 DIFF 600- 800 STRING WT: P/U 210, S/O 185, ROT 195 TORQUE: ON BTM 12-14 OFF BTM 3-4 MW: 9.3+ PPG MOTOR: .28 REV/GAL GAS: BG 0 CG 0
11:30	0.50	INT1	DRL		5,885.00	0		SLIDE F/ 5850' T/ 5885' (35' @ 70 FPH) WOB: 20K RPM: SURF 0 MOTOR 210 BIT 210 PSI & FLOW: SPP 2800 GPM 750 DIFF 250-350 STRING WT: P/U 210, S/O 185, ROT 0 TORQUE: ON BTM 0 OFF BTM 0 MW: 9.3+ PPG MOTOR: .28 REV/GAL GAS: BG 0 CG 0

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06/29/2017

Well UNIVERSITY 19 J 0910H
Wellbore UNIVERSITY 19 J 0910H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
12:00	3.00	INT1	DRL		6,564.00	0		DRLG F/ 5885' T/ 6564' (679' @ 226 FPH) WOB: 40K RPM: SURF 80 MOTOR 210 BIT 300 PSI & FLOW: SPP 2800 GPM 750 DIFF 600- 800 STRING WT: P/U 275 S/O 210 ROT 225 TORQUE: ON BTM 12-14 OFF BTM 3-4 MW: 9.3+ PPG MOTOR: .28 REV/GAL GAS: BG 0 CG 0
15:00	0.50	INT1	DRL		6,609.00	0		SLIDE F/ 6564' T/ 6609' (45' @ 90 FPH) WOB: 20K RPM: SURF 0 MOTOR 210 BIT 210 PSI & FLOW: SPP 2800 GPM 750 DIFF 250-350 STRING WT: P/U 270, S/O 210, ROT 0 TORQUE: ON BTM 0 OFF BTM 0 MW: 9.3+ PPG MOTOR: .28 REV/GAL GAS: BG 0 CG 0
15:30	1.00	INT1	DRL		6,832.00	0		DRLG F/ 6609' T/ 6832' (223' @ 223 FPH) WOB: 40K RPM: SURF 80 MOTOR 210 BIT 300 PSI & FLOW: SPP 2800 GPM 750 DIFF 600- 800 STRING WT: P/U 275 S/O 210 ROT 225 TORQUE: ON BTM 12-14 OFF BTM 3-4 MW: 9.3+ PPG MOTOR: .28 REV/GAL GAS: BG 0 CG 0
16:30	0.50	INT1	DRL		6,877.00	0		SLIDE F/ 6832' T/ 6877' (45' @ 90 FPH) WOB: 20K RPM: SURF 0 MOTOR 210 BIT 210 PSI & FLOW: SPP 2800 GPM 750 DIFF 250-350 STRING WT: P/U 270, S/O 210, ROT 0 TORQUE: ON BTM 0 OFF BTM 0 MW: 9.3+ PPG MOTOR: .28 REV/GAL GAS: BG 0 CG 0
17:00	0.50	INT1	DRL		7,011.00	0		DRLG F/ 6877' T/ 7011' (134' @ 268 FPH) WOB: 40K RPM: SURF 80 MOTOR 210 BIT 300 PSI & FLOW: SPP 2800 GPM 750 DIFF 600- 800 STRING WT: P/U 275 S/O 210 ROT 225 TORQUE: ON BTM 12-14 OFF BTM 3-4 MW: 9.3+ PPG MOTOR: .28 REV/GAL GAS: BG 0 CG 0
17:30	0.50	INT1	SVC		7,011.00	0		RIG SERVICE
18:00	0.50	INT1	DRL		7,101.00	0		DRLG F/ 7011' T/ 7101' (134' @ 268 FPH) WOB: 40K RPM: SURF 80 MOTOR 210 BIT 300 PSI & FLOW: SPP 2800 GPM 750 DIFF 600- 800 STRING WT: P/U 275 S/O 210 ROT 225 TORQUE: ON BTM 14-16 OFF BTM 3-4 MW: 9.3+ PPG MOTOR: .28 REV/GAL GAS: BG 0 CG 0
18:30	5.50	INT1	DRL		7,687.00	0		DRLG F/ 7101' T/ 7687' (586' @ 106 FPH) WOB: 40K RPM: SURF 20 MOTOR 166 BIT 186 PSI & FLOW: SPP 2800 GPM 595 DIFF 400-600 STRING WT: P/U 275 S/O 210 ROT 225 TORQUE: ON BTM 12-14 OFF BTM 3-4 MW: 9.3+ PPG MOTOR: .28 REV/GAL GAS: BG 0 CG 0
Total	24.00							

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06/29/2017

Well UNIVERSITY 19 J 0910H
Wellbore UNIVERSITY 19 J 0910H

Deepest 5 Surveys

MD (ft)	Inc. (°)	Azi. (°)	TVD (ft)	N/S (ft)	E/W (ft)	V.Sec (ft)	DLeg (°/100ft)	Tool
6,833.90	1.81	177.33	6,791.19	-550.04	468.59	-657.68	1.17	PTW MWD+HDGM_2016
7,012.90	2.15	235.58	6,970.10	-554.76	465.95	-661.50	1.09	PTW MWD+HDGM_2016
7,190.90	2.38	238.28	7,147.96	-558.59	460.06	-663.56	0.14	PTW MWD+HDGM_2016
7,369.90	2.00	238.00	7,326.83	-562.20	454.25	-665.43	0.21	PTW MWD+HDGM_2016
7,547.90	1.87	245.86	7,504.73	-565.03	448.96	-666.70	0.17	PTW MWD+HDGM_2016

Fluid Details

Mud type	NaCl Brine	Oil/Water (%)	pH/Pm (cc)	10.50/0.20
MD (ft)	5,936.00	TS/HGS/LGS (%)	Pf/Mf (cc)	0.10/0.15
Mud Density (ppg)	9.40	Sand (%)	Ca+ (ppm)	
Vis (s/qt)	28.00		Cl- (ppm)	109,000
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)	9.710	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	BAKER HUGHES	T607FX			7164142	7x16	4,923.00		-----

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)
5,244.00	40.0/40.0	80	750.0	2,800.00	255.03	9.11	111.58	3.00	321.00	107.0	3.00	321.00	107.0
5,264.00	20.0/20.0	0	750.0	2,800.00	255.03	9.11	111.58	0.50	20.00	40.0	3.50	341.00	97.4
5,492.00	40.0/40.0	80	750.0	2,800.00	255.03	9.11	111.58	0.50	228.00	456.0	4.00	569.00	142.2
5,537.00	20.0/20.0	0	750.0	2,800.00	255.03	9.11	111.58	0.50	45.00	90.0	4.50	614.00	136.4
5,850.00	40.0/40.0	80	750.0	2,800.00	255.03	9.11	111.58	1.50	313.00	208.7	6.00	927.00	154.5
5,885.00	20.0/20.0	0	750.0	2,800.00	255.03	9.11	111.58	0.50	35.00	70.0	6.50	962.00	148.0
6,564.00	40.0/40.0	80	750.0	2,800.00	255.03	9.11	111.58	3.00	679.00	226.3	9.50	1,641.00	172.7
6,609.00	20.0/20.0	0	750.0	2,800.00	255.03	9.11	111.58	0.50	45.00	90.0	10.00	1,686.00	168.6
6,832.00	40.0/40.0	80	750.0	2,800.00	255.03	9.11	111.58	1.00	223.00	223.0	11.00	1,909.00	173.5
6,877.00	20.0/20.0	0	750.0	2,800.00	255.03	9.11	111.58	0.50	45.00	90.0	11.50	1,954.00	169.9
7,011.00	40.0/40.0	80	750.0	2,800.00	255.03	9.11	111.58	0.50	134.00	268.0	12.00	2,088.00	174.0
7,101.00	40.0/40.0	80	750.0	2,800.00	255.03	9.11	111.58	0.50	134.00	268.0	13.00	2,356.00	181.2
7,687.00	40.0/40.0	20	595.0	2,800.00	162.24	5.79	56.31	505.00	586.00	1.2	517.50	2,808.00	5.4

Drillstring Components

Item description	# Jts	Length (ft)	OD (in)	Max OD (in)	ID (in)	Connection Name	Weight (ppf)	Grade	Serial no.
5" DP	127	6,750.37	5.000		4.276				RIG
12 JTS 6.5" HWDP	12	360.68	6.500		3.250	4-1/2 IF			RIG
CROSSOVER SUB	1	2.34	6.700		2.810	4-1/2 XH			NESXO6755 48
15 JTS DRILL COLLARS	15	445.77	6.500		2.500	4-1/2 XH			RIG
FILTER SUB	1	3.16	6.500		3.250	4-1/2 XH			DR27053
8.5" NM SPIRAL STABILIZER	1	5.91	8.500		2.870	4-1/2 XH			DR34214
NM SLICK COLLAR	1	30.79	6.750		2.875	4-1/2 XH			NESNM6756 37
8.5" NM SPIRAL STABILIZER	1	5.90	8.500		2.870	4-1/2 XH			DR34216

EP WELLS DAILY OPERATIONS REPORT

Report 12

06/29/2017

Well UNIVERSITY 19 J 0910H
Wellbore UNIVERSITY 19 J 0910H

Drillstring Components

Item description	# Jts	Length (ft)	OD (in)	Max OD (in)	ID (in)	Connection Name	Weight (ppf)	Grade	Serial no.
GAP SUB	1	3.59	6.500		6.625	4-1/2 XH			VG650134P TS
CENTRALIZER SUB	1	8.54	6.625		4.490	4 1/2 IF			VC650021
LANDING SUB	1	3.55	6.625		3.780	4-1/2 XH			VL650121
CROSSOVER SUB	1	1.56	6.500		2.750	4-1/2 XH			VX650075
PONY SLICK COLLAR	1	15.23	6.500		2.275	4-1/2 XH			PXGPC6501 068
8.5" NM SPIRAL STABILIZER	1	5.92	8.500		2.870	4-1/2 XH			DR34217
CROSSOVER	1	2.09	6.560		3.250	4-1/2 XH			DR26769
7" SCIENTIFIC MUD MOTOR, 7/8 LOBE, 9.4 STG, 1.5° ADJ. RPG	1	40.60	8.500			5-1/2 FH			SDI70004
BIT #2 RUN #1 BAKER T607FX, 7X16's, SN: 7164142	1	1.00	8.750	8.750					7164142

Drillstring Details

Date/Time in		Date/Time out		BHA no.	BHA Length (ft)	Min. ID (in)	Purpose
06/28/2017 21:00				2	936.63		DRILL 8.75" INTERMEDIATE HOLE SECTION
MD (ft)	SW Up (kip)	SW Down (kip)	SW Rotn (kip)	Drag (kip)	Tq On Btm (ft-lbf)	Tq Off Btm (ft-lbf)	Footage (ft)
5,244.00	210.0	185.00	195.00	15.00	14,000.0	4,000.0	321.00
5,264.00	210.0	185.00	0.00	210.00	0.0	0.0	20.00
5,492.00	210.0	185.00	195.00	15.00	14,000.0	4,000.0	228.00
5,537.00	210.0	185.00	0.00	210.00	0.0	0.0	45.00
5,850.00	210.0	185.00	195.00	15.00	14,000.0	4,000.0	313.00
5,885.00	210.0	185.00	0.00	210.00	0.0	0.0	35.00
6,564.00	275.0	210.00	225.00	50.00	14,000.0	4,000.0	679.00
6,609.00	270.0	210.00	0.00	270.00	0.0	0.0	45.00
6,832.00	275.0	210.00	225.00	50.00	14,000.0	4,000.0	223.00
6,877.00	270.0	210.00	0.00	270.00	0.0	0.0	45.00
7,011.00	275.0	210.00	225.00	50.00	14,000.0	4,000.0	134.00
7,101.00	275.0	210.00	225.00	50.00	16,000.0	4,000.0	90.00
7,687.00	275.0	210.00	225.00	50.00	14,000.0	4,000.0	586.00

PUMP/HYDRAULIC DATA

Pump No.	Type	Make/Model	Stroke (in)	Liner size (in)	Efficiency (%)	Pressure (psi)	SPM (spm)	Output (gpm)	Kill SPM/Pressure/Depth (spm/psi/ft)
1		GARDENER-DENVER / PZ-11-1600	11.00						
2		GARDENER-DENVER / PZ-11-1600	11.00						

Remarks

FUEL ON LOCATION 19716 GAL
FUEL DELIVERED: 7015 GAL
FUEL USED 2563 GALS

EP WELLS DAILY OPERATIONS REPORT

Report 13

06/30/2017

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 19 J 0910H
Wellbore	UNIVERSITY 19 J 0910H
WBS No/API No	30265148 / 4230133232.00

Event Summary

Event Type	Drilling only	Event Start Date	06/08/2017	Days on Location	12.46
Objective	Drill - Wolfcamp Beta	Original Spud Date	06/14/2017	Days Since Spud	6.80
Est. Days	21.00	Contractor	ENSIGN		
Work Unit	ENSIGN 775	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	STEVE SLOOP	Measured Depth(ft)	9,689.00
Engineer	BRANDON FOOTE	TVD(ft)	9,644.30
Other Supervisor	JOHNNIE BRASSELL	24 Hr Progress(ft)	2,002.00
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,800.90 / 2,772.90	Hole size(in)	8.750
THF Datum			
Daily NPT(hr/%)	0/0	Last Casing MD	9.662in@4,922.43ft
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	7.000in@12,221.90ft
Actual cost to date/AFE	953,173/2,565,881.00	Current MW / BH EMW(ppg)	9.35/
Actual divided by AFE	0.37	LOT/FIT EMW(ppg)	
Daily Cost	38,052	Lithology	
		Formation/MD Top	

HSE Summary

Last Incident	Date	Days	Last Incident	Date	Days	KPI's	
LWC RWC MTC FAC Last casing pressure test	06/28/2017		PSI NII HPI GOAL ZERO DAYS PS BARRIER EVENT PS barrier bowtie review	09/29/2015	640	TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	1 9 16 1500
Safety Comments:	WORKING ON CLOSE OUT OF HIT LIST, HAZ-HUNT						

HSE Drills

Drills/Tests	Date	Days Since Last	JSA's/Toolbox Talks Days Since Last Drill	17 12
Last Derrick Inspection	06/28/2017	2		
Last BOP function test	06/28/2017	2		
Last BOP Test	07/19/2017			
Next BOP Test				

Operations Summary

24 Hour Summary
DRLG F/ 7687' T/ 9689', CIRC & COND PUMP SWEEP DUE TO EXCESSIVE TORQ
Update Since Report Time
DRLG @ 10144'
24 Hour Forecast
DRLG 8.3/4 VERT SEC TO KOP @ +/- 11000', TOH L/D VERT ASSM, P/U CURVE ASSM

EP WELLS DAILY OPERATIONS REPORT

Report 13

06/30/2017

Well UNIVERSITY 19 J 0910H
Wellbore UNIVERSITY 19 J 0910H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	6.00	INT1	DRL		8,217.00	0		DRLG F/ 7687' T/ 8217' (530' @ 89 FPH) WOB: 40K RPM: SURF 20 MOTOR 166 BIT 186 PSI & FLOW: SPP 2000 GPM 595 DIFF 400-600 STRING WT: P/U 300 S/O 240 ROT 260 TORQUE: ON BTM 12-14 OFF BTM 3-4 MW: 9.3+ PPG MOTOR: .28 REV/GAL GAS: BG 0 CG 0
6:00	12.00	INT1	DRL		9,245.00	0		DRLG F/ 8217' T/ 9245' (1028' @ 85 FPH) WOB: 40K RPM: SURF 20 MOTOR 166 BIT 186 PSI & FLOW: SPP 2000 GPM 595 DIFF 350-450 STRING WT: P/U 300 S/O 240 ROT 260 TORQUE: ON BTM 12-14 OFF BTM 4-8 MW: 9.3+ PPG MOTOR: .28 REV/GAL GAS: BG 0 CG 0
18:00	3.50	INT1	DRL		9,513.00	0		DRLG F/ 9245' T/ 9513' (268' @ 77 FPH) WOB: 40K RPM: SURF 20 MOTOR 166 BIT 186 PSI & FLOW: SPP 2175 GPM 595 DIFF 350-450 STRING WT: P/U 320 S/O 260 ROT 285 TORQUE: ON BTM 12-14 OFF BTM 4-8 MW: 9.3+ PPG MOTOR: .28 REV/GAL GAS: BG 0 CG 0
21:30	2.00	INT1	DRL		9,689.00	0		DRLG F/ 9513' T/ 9689' (176' @ 88 FPH) WOB: 40K RPM: SURF 70 MOTOR 192 BIT 262 PSI & FLOW: SPP 2800 GPM 685 DIFF 350-450 STRING WT: P/U 320 S/O 260 ROT 285 TORQUE: ON BTM 14-19 OFF BTM 10-12 MW: 9.3+ PPG MOTOR: .28 REV/GAL GAS: BG 0 CG 0
23:30	0.50	INT1	CDM		9,689.00	0		CIRC & COND PUMP SWEEP DUE TO EXCESSIVE TORQ
Total	24.00							

Deepest 5 Surveys

MD (ft)	Inc. (°)	Azi. (°)	TVD (ft)	N/S (ft)	E/W (ft)	V.Sec (ft)	DLeg (°/100ft)	Tool
8,798.90	1.56	261.25	8,755.26	-571.17	415.50	-663.40	0.10	PTW MWD+HDGM_2016
8,977.90	2.58	249.92	8,934.14	-572.92	409.31	-663.39	0.61	PTW MWD+HDGM_2016
9,156.90	2.94	256.51	9,112.93	-575.38	401.06	-663.48	0.27	PTW MWD+HDGM_2016
9,335.90	3.20	266.78	9,291.68	-576.73	391.61	-662.18	0.34	PTW MWD+HDGM_2016
9,513.90	2.72	260.32	9,469.44	-577.72	382.49	-660.62	0.33	PTW MWD+HDGM_2016

Fluid Details

Mud type	NaCl Brine	Oil/Water (%)	pH/Pm (cc)	9.50/0.30
MD (ft)	8,885.00	TS/HGS/LGS (%)	Pf/Mf (cc)	0.10/0.25
Mud Density (ppg)	9.35	Sand (%)	Ca+ (ppm)	
Vis (s/qt)	29.00		Cl- (ppm)	109,000
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)	9.560	R600/300 (°)
FC/HTHP FC (32nd")	3.0/	H2S (gas unit)		R200/100 (°)
		KCl (%)		R6/3 (°)
FL temp. (°F)		Ditch Magnet in Last 24hrs/Cum. (gm)		

EP WELLS DAILY OPERATIONS REPORT

Report 13

06/30/2017

Well UNIVERSITY 19 J 0910H
Wellbore UNIVERSITY 19 J 0910H

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	BAKER HUGHES	T607FX			7164142	7x16	4,923.00		-----

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)
8,217.00	40.0/40.0	20	595.0	2,000.00	160.51	8.03	55.71	6.00	530.00	88.3	523.50	3,294.00	6.3
9,245.00	40.0/40.0	20	595.0	2,000.00	160.51	8.03	55.71	12.00	1,028.00	85.7	535.50	4,322.00	8.1
9,513.00	40.0/40.0	20	595.0	2,175.00	160.51	7.38	55.71	3.50	268.00	76.6	542.50	4,858.00	9.0
9,689.00	40.0/40.0	70	685.0	2,800.00	213.89	7.64	85.47	2.00	176.00	88.0	541.00	4,766.00	8.8

Drillstring Components

Item description	# Jts	Length (ft)	OD (in)	Max OD (in)	ID (in)	Connection Name	Weight (ppf)	Grade	Serial no.
5" DP	214	8,752.37	5.000		4.276				RIG
12 JTS 6.5" HWDP	12	360.68	6.500		3.250	4-1/2 IF			RIG
CROSSOVER SUB	1	2.34	6.700		2.810	4-1/2 XH			NESXO675548
15 JTS DRILL COLLARS	15	445.77	6.500		2.500	4-1/2 XH			RIG
FILTER SUB	1	3.16	6.500		3.250	4-1/2 XH			DR27053
8.5" NM SPIRAL STABILIZER	1	5.91	8.500		2.870	4-1/2 XH			DR34214
NM SLICK COLLAR	1	30.79	6.750		2.875	4-1/2 XH			NESNM675637
8.5" NM SPIRAL STABILIZER	1	5.90	8.500		2.870	4-1/2 XH			DR34216
GAP SUB	1	3.59	6.500		6.625	4-1/2 XH			VG650134P TS
CENTRALIZER SUB	1	8.54	6.625		4.490	4 1/2 IF			VC650021
LANDING SUB	1	3.55	6.625		3.780	4-1/2 XH			VL650121
CROSSOVER SUB	1	1.56	6.500		2.750	4-1/2 XH			VX650075
PONY SLICK COLLAR	1	15.23	6.500		2.275	4-1/2 XH			PXGPC6501068
8.5" NM SPIRAL STABILIZER	1	5.92	8.500		2.870	4-1/2 XH			DR34217
CROSSOVER	1	2.09	6.560		3.250	4-1/2 XH			DR26769
7" SCIENTIFIC MUD MOTOR, 7/8 LOBE .94 STG. 1.5° ADJ. RPG	1	40.60	8.500			5-1/2 FH			SDI70004
BIT #2 RUN #1 BAKER T607FX, 7X16's. SN: 7164142	1	1.00	8.750	8.750					7164142

Drillstring Details

Date/Time in		Date/Time out		BHA no.	BHA Length (ft)	Min. ID (in)	Purpose
06/28/2017 21:00				2	936.63		DRILL 8.75" INTERMEDIATE HOLE SECTION
MD (ft)	SW Up (kip)	SW Down (kip)	SW Rotn (kip)	Drag (kip)	Tq On Btm (ft-lbf)	Tq Off Btm (ft-lbf)	Footage (ft)
8,217.00	300.0	240.00	60.00	240.00	14,000.0	4,000.0	530.00
9,245.00	300.0	240.00	60.00	240.00	14,000.0	8,000.0	1,028.00
9,513.00	300.0	260.00	285.00	15.00	14,000.0	8,000.0	268.00
9,689.00	320.0	260.00	285.00	35.00	19,000.0	12,000.0	176.00

EP WELLS DAILY OPERATIONS REPORT

Report 13 06/30/2017

Well UNIVERSITY 19 J 0910H
Wellbore UNIVERSITY 19 J 0910H

PUMP/HYDRAULIC DATA

Pump No.	Type	Make/Model	Stroke (in)	Liner size (in)	Efficiency (%)	Pressure (psi)	SPM (spm)	Output (gpm)	Kill SPM/Pressure/Depth (spm/psi/ft)
1		GARDENER-DENVER / PZ-11-1600	11.00						
2		GARDENER-DENVER / PZ-11-1600	11.00						

Remarks

FUEL ON LOCATION 17384 GAL
FUEL DELIVERED: 0 GAL
FUEL USED 2332 GALS

EP WELLS DAILY OPERATIONS REPORT

Report 14

07/01/2017

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 19 J 0910H
Wellbore	UNIVERSITY 19 J 0910H
WBS No/API No	30265148 / 4230133232.00

Event Summary

Event Type	Drilling only	Event Start Date	06/08/2017	Days on Location	13.46
Objective	Drill - Wolfcamp Beta	Original Spud Date	06/14/2017	Days Since Spud	7.80
Est. Days	21.00	Contractor	ENSIGN		
Work Unit	ENSIGN 775	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	STEVE SLOOP	Measured Depth(ft)	11,045.00
Engineer	BRANDON FOOTE	TVD(ft)	10,998.60
Other Supervisor	JOHNNIE BRASSELL	24 Hr Progress(ft)	1,356.00
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,800.90 / 2,772.90	Hole size(in)	8.750
THF Datum			
Daily NPT(hr/%)	0/0	Last Casing MD	9.662in@4,922.43ft
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	7.000in@12,221.90ft
Actual cost to date/AFE	992,387/2,565,881.00	Current MW / BH EMW(ppg)	/
Actual divided by AFE	0.39	LOT/FIT EMW(ppg)	
Daily Cost	40,827	Lithology	
		Formation/MD Top	

HSE Summary

Last Incident	Date	Days	Last Incident	Date	Days	KPI's	
LWC RWC MTC FAC Last casing pressure test	06/28/2017		PSI NII HPI GOAL ZERO DAYS PS BARRIER EVENT PS barrier bowtie review	09/29/2015	641	TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	10 16 1500
Safety Comments:							

HSE Drills

Drills/Tests	Date	Days Since Last		
Last Derrick Inspection	06/28/2017	3	JSA's/Toolbox Talks	20
Last BOP function test	06/28/2017	3	Days Since Last Drill	13
Last BOP Test	07/19/2017			
Next BOP Test				

Operations Summary

24 Hour Summary
DRLG F/ 9689' T/ 11045', TOH T/ 573', TOH W/ BHA L/D EMTOOL MOTOR & BIT(GRADE 2-2-CT-S-X-I-CT-BHA) M/U NEW MOTOR RACK BACK, M/U CURVE ASSM BHA #3
Update Since Report Time
TIH @ 7526'
24 Hour Forecast
COMPLETE TRIP, DRLG CURVE AS PER PLAN

EP WELLS DAILY OPERATIONS REPORT

Report 14

07/01/2017

Well UNIVERSITY 19 J 0910H
Wellbore UNIVERSITY 19 J 0910H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	6.00	INT1	DRL		10,195.00	0		DRLG F/ 9689' T/ 10195' (506' @ 85 FPH) WOB: 40K RPM: SURF 70 MOTOR 192 BIT 262 PSI & FLOW: SPP 2800 GPM 685 DIFF 350-450 STRING WT: P/U 320 S/O 260 ROT 285 TORQUE: ON BTM 14-19 OFF BTM 10-12 MW: 9.3+ PPG MOTOR: .28 REV/GAL GAS: BG 0 CG 0
6:00	9.00	INT1	DRL		11,045.00	0		DRLG F/ 10195' T/ 11045' (850' @ 94 FPH) WOB: 40K RPM: SURF 70 MOTOR 204 BIT 274 PSI & FLOW: SPP 3450 GPM 730 DIFF 450-650 STRING WT: P/U 350 S/O 275 ROT 300 TORQUE: ON BTM 14-19 OFF BTM 10-12 MW: 9.3+ PPG MOTOR: .28 REV/GAL GAS: BG 0 CG 0
15:00	6.50	INT1	TOH		11,045.00	0		TOH T/ 573'
21:30	2.00	INT1	TOH		11,045.00	0		TOH W/ BHA L/D EMTOL MOTOR & BIT(GRADE 2-2-CT-S-X-I-CT-BHA) M/U NEW MOTOR RACK BACK
23:30	0.50	INT1	BHA		11,045.00	0		M/U CURVE ASSM BHA #3
Total	24.00							

Deepest 5 Surveys

MD (ft)	Inc. (°)	Azi. (°)	TVD (ft)	N/S (ft)	E/W (ft)	V.Sec (ft)	DLeg (°/100ft)	Tool
10,407.90	2.61	268.31	10,362.12	-582.15	334.56	-651.71	0.07	PTW MWD+HDGM_2016
10,586.90	2.29	259.41	10,540.96	-582.93	326.98	-650.37	0.28	PTW MWD+HDGM_2016
10,764.90	2.54	246.26	10,718.80	-585.17	319.87	-650.57	0.34	PTW MWD+HDGM_2016
10,943.90	2.77	250.24	10,897.61	-588.23	312.17	-651.39	0.16	PTW MWD+HDGM_2016
11,030.90	2.60	250.00	10,984.51	-589.62	308.33	-651.67	0.20	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)	

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	BAKER HUGHES	T607FX			7164142	7x16	4,923.00	11,045.00	2-2-CT-S-X-I-CT-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)

EP WELLS DAILY OPERATIONS REPORT

Report 14

07/01/2017

Well UNIVERSITY 19 J 0910H
Wellbore UNIVERSITY 19 J 0910H

Drillstring Components

Item description	# Jts	Length (ft)	OD (in)	Max OD (in)	ID (in)	Connection Name	Weight (ppf)	Grade	Serial no.
5" DP	278	10,108.37	5.000		4.276				RIG
12 JTS 6.5" HWDP	12	360.68	6.500		3.250	4-1/2 IF			RIG
CROSSOVER SUB	1	2.34	6.700		2.810	4-1/2 XH			NESXO675548
15 JTS DRILL COLLARS	15	445.77	6.500		2.500	4-1/2 XH			RIG
FILTER SUB	1	3.16	6.500		3.250	4-1/2 XH			DR27053
8.5" NM SPIRAL STABILIZER	1	5.91	8.500		2.870	4-1/2 XH			DR34214
NM SLICK COLLAR	1	30.79	6.750		2.875	4-1/2 XH			NESNM675637
8.5" NM SPIRAL STABILIZER	1	5.90	8.500		2.870	4-1/2 XH			DR34216
GAP SUB	1	3.59	6.500		6.625	4-1/2 XH			VG650134PTS
CENTRALIZER SUB	1	8.54	6.625		4.490	4 1/2 IF			VC650021
LANDING SUB	1	3.55	6.625		3.780	4-1/2 XH			VL650121
CROSSOVER SUB	1	1.56	6.500		2.750	4-1/2 XH			VX650075
PONY SLICK COLLAR	1	15.23	6.500		2.275	4-1/2 XH			PXGPC6501068
8.5" NM SPIRAL STABILIZER	1	5.92	8.500		2.870	4-1/2 XH			DR34217
CROSSOVER	1	2.09	6.560		3.250	4-1/2 XH			DR26769
7" SCIENTIFIC MUD MOTOR, 7/8 LOBE 9.4 STG 1.5° ADJ. RPG	1	40.60	8.500			5-1/2 FH			SDI70004
BIT #2 RUN #1 BAKER T607FX, 7X16's. SN: 7164142 BIT	1	1.00	8.750	8.750					7164142

Drillstring Details

Date/Time in	Date/Time out	BHA no.	BHA Length (ft)	Min. ID (in)	Purpose
06/28/2017 21:00	07/01/2017 23:30	2	936.63		DRILL 8.75" INTERMEDIATE HOLE SECTION

PUMP/HYDRAULIC DATA

Pump No.	Type	Make/Model	Stroke (in)	Liner size (in)	Efficiency (%)	Pressure (psi)	SPM (spm)	Output (gpm)	Kill SPM/Pressure/Depth (spm/psi/ft)
1		GARDENER-DENVER / PZ-11-1600	11.00						
2		GARDENER-DENVER / PZ-11-1600	11.00						

Remarks

FUEL ON LOCATION 14840 GAL
FUEL DELIVERED: 2544 GAL
FUEL USED 2332 GALS

EP WELLS DAILY OPERATIONS REPORT

Report 15

07/02/2017

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 19 J 0910H
Wellbore	UNIVERSITY 19 J 0910H
WBS No/API No	30265148 / 4230133232.00

Event Summary

Event Type	Drilling only	Event Start Date	06/08/2017	Days on Location	14.46
Objective	Drill - Wolfcamp Beta	Original Spud Date	06/14/2017	Days Since Spud	8.80
Est. Days	21.00	Contractor	ENSIGN		
Work Unit	ENSIGN 775	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	STEVE SLOOP	Measured Depth(ft)	11,600.00
Engineer	BRANDON FOOTE	TVD(ft)	11,477.75
Other Supervisor	JOHNNIE BRASSELL	24 Hr Progress(ft)	555.00
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,800.90 / 2,772.90	Hole size(in)	8.750
THF Datum			
Daily NPT(hr/%)	0/0	Last Casing MD	9.662in@4,922.43ft
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	7.000in@12,221.90ft
Actual cost to date/AFE	1,065,088/2,565,881.00	Current MW / BH EMW(ppg)	9.40/
Actual divided by AFE	0.42	LOT/FIT EMW(ppg)	
Daily Cost	55,999	Lithology	
		Formation/MD Top	

HSE Summary

Last Incident	Date	Days	Last Incident	Date	Days	KPI's	
LWC RWC MTC FAC Last casing pressure test	06/28/2017		PSI NII HPI GOAL ZERO DAYS PS BARRIER EVENT PS barrier bowtie review	09/29/2015	642	TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	1 9 16 1500
Safety Comments:							

HSE Drills

Drills/Tests	Date	Days Since Last		
Last Derrick Inspection	06/28/2017	4	JSA's/Toolbox Talks	15
Last BOP function test	06/28/2017	4	Days Since Last Drill	14
Last BOP Test	07/19/2017			
Next BOP Test				

Operations Summary

24 Hour Summary
M/U CURVE ASSM BHA #3, CLEAN & CLEAR FLOOR, TIH T/ 1800', P/U AGITATOR CHECK PRESSURE DROPS, TIH T/ 11045', SLIDE F/ 11045' T/ 11600', C/BU PUT MWD IN SLEEP MODE TOH DUE TO BUILD RATES, TOH T/ 7280'
Update Since Report Time
TIH @ 1800'
24 Hour Forecast
TIH T/ SHOE S/C DRLG LINE, TIH T/ 11600', COMPLETE CURVE, TOH R/U & RUN 7"

EP WELLS DAILY OPERATIONS REPORT

Report 15

07/02/2017

Well UNIVERSITY 19 J 0910H
Wellbore UNIVERSITY 19 J 0910H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	0.50	INT1	BHA		11,045.00	0		M/U CURVE ASSM BHA #3
0:30	0.50	INT1	BHA		11,045.00	0		CLEAN & CLEAR FLOOR
1:00	0.50	INT1	TIH		11,045.00	0		TIH T/ 1800'
1:30	0.50	INT1	TIH		11,045.00	0		P/U AGITATOR CHECK PRESSURE DROPS
2:00	5.00	INT1	TIH		11,045.00	0		TIH T/ 11045'
7:00	14.00	INT1	DRL		11,045.00	0		SLIDE F/ 11045' T/ 11600' (555' @ 39 FPH) WOB: 20K RPM: SURF 0 MOTOR 285 BIT 285 PSI & FLOW: SPP 2500 GPM 575 DIFF 250-350 STRING WT: P/U 345, S/O 260, ROT 0 TORQUE: ON BTM 0 OFF BTM 0 MW: 9.3+ PPG MOTOR: .497 REV/GAL GAS: BG 0 CG 0
21:00	1.00	INT1	CBU		11,045.00	0		C/BU, PUT MWD IN SLEEP MODE. TOH DUE TO BUILD RATES.
22:00	2.00	INT1	TOH		11,045.00	0		TOH T/ 7280'
Total	24.00							

Deepest 5 Surveys

MD (ft)	Inc. (°)	Azi. (°)	TVD (ft)	N/S (ft)	E/W (ft)	V.Sec (ft)	DLeg (°/100ft)	Tool
11,315.90	25.81	2.84	11,259.37	-524.80	309.13	-589.57	7.58	PTW MWD+HDGM_2016
11,405.90	34.52	2.73	11,337.11	-479.67	311.32	-546.79	9.68	PTW MWD+HDGM_2016
11,494.90	42.36	1.91	11,406.77	-424.43	313.52	-494.28	8.83	PTW MWD+HDGM_2016
11,535.90	46.29	0.33	11,436.09	-395.80	314.07	-466.90	9.96	PTW MWD+HDGM_2016
11,585.90	51.00	359.00	11,469.12	-358.28	313.83	-430.76	9.63	PTW MWD+HDGM_2016

Fluid Details

Mud type	NaCl Brine	Oil/Water (%)	pH/Pm (cc)	10.00/0.30
MD (ft)	11,217.00	TS/HGS/LGS (%)	Pf/Mf (cc)	0.10/0.25
Mud Density (ppg)	9.40	Sand (%)	Ca+ (ppm)	
Vis (s/qt)	28.00		Cl- (ppm)	109,000
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)	9.550	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
3	8.750	BAKER HUGHES	TD406FX			7163426	3x18, 3x16	11,045.00	11,045.00	0-0-NO-A-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)
11,600.00	20.0/20.0	0	275.0	2,500.00	36.76	1.47	5.90	14.00	555.00	39.6	14.00	555.00	39.6

Drillstring Components

Item description	# Jts	Length (ft)	OD (in)	Max OD (in)	ID (in)	Connection Name	Weight (ppf)	Grade	Serial no.
5" DP	293	9,226.51	5.000		4.276	4 1/2 IF			RIG

EP WELLS DAILY OPERATIONS REPORT

Report 15

07/02/2017

Well UNIVERSITY 19 J 0910H
Wellbore UNIVERSITY 19 J 0910H

Drillstring Components

Item description	# Jts	Length (ft)	OD (in)	Max OD (in)	ID (in)	Connection Name	Weight (ppf)	Grade	Serial no.
AGITATOR	1	23.80	6.750			4 1/2 IF			W1892385
12 JTS HWDP	12	360.68	6.500		3.250	4 1/2 IF			RIG
30 JTS DRILL PIPE	30	1,339.76	6.625		3.500	4 1/2 IF			RIG
CROSSOVER SUB	1	2.34	6.700		2.810	4 1/2 XH			NESXO675548
FLOAT SUB	1	2.50	6.750		2.870	4 1/2 XH			NESFS675486
SCREEN SUB	1	3.50	6.500		3.250	4 1/2 XH			DR30026
NON-MAG FLEX COLLAR	1	29.67	6.500		2.875	4 1/2 XH			PXGFC6501113
GAP SUB	1	3.58	6.660		2.750	4 1/2 XH			VG650104
CENTRALIZER COLAR	1	8.53	6.660		2.750	4 1/2 IF			VC650042
LANDING SUB	1	3.52	6.660		2.750	4 1/2 IF			VL650122
CROSSOVER SUB	1	1.65	6.660		2.750	4 1/2 XH			VX650077
SLICK PONY COLLAR	1	9.47	6.500		2.870	4 1/2 XH			DR22324
PHOENIX 24X MUD MOTOR, 4/5 LOBES. STG. 7. SET @ 2.38°.	1	28.49	7.500			4 1/2 XH			24XH-675540-PTS
RUN #1 BIT #3 BAKER TD406FX (3X18's & 3X16's) SN: 7163426	1	1.00	8.750	8.750					7163426

Drillstring Details

Date/Time in		Date/Time out		BHA no.	BHA Length (ft)	Min. ID (in)	Purpose
07/01/2017 23:30				3	478.73		DRILL 8.75" CURVE SECTION
MD (ft)	SW Up (kip)	SW Down (kip)	SW Rotn (kip)	Drag (kip)	Tq On Btm (ft-lbf)	Tq Off Btm (ft-lbf)	Footage (ft)
11,600.00	345.0	260.00	0.00	345.00	0.0	0.0	555.00

PUMP/HYDRAULIC DATA

Pump No.	Type	Make/Model	Stroke (in)	Liner size (in)	Efficiency (%)	Pressure (psi)	SPM (spm)	Output (gpm)	Kill SPM/Pressure/Depth (spm/psi/ft)
1		GARDENER-DENVER / PZ-11-1600	11.00						
2		GARDENER-DENVER / PZ-11-1600	11.00						

Remarks

FUEL ON LOCATION 13144 GAL
FUEL DELIVERED: 0 GAL
FUEL USED 1696 GALS

EP WELLS DAILY OPERATIONS REPORT

Report 16

07/03/2017

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 19 J 0910H
Wellbore	UNIVERSITY 19 J 0910H
WBS No/API No	30265148 / 4230133232.00

Event Summary

Event Type	Drilling only	Event Start Date	06/08/2017	Days on Location	15.46
Objective	Drill - Wolfcamp Beta	Original Spud Date	06/14/2017	Days Since Spud	9.80
Est. Days	21.00	Contractor	ENSIGN		
Work Unit	ENSIGN 775	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	STEVE SLOOP	Measured Depth(ft)	11,847.00
Engineer	BRANDON FOOTE	TVD(ft)	11,562.31
Other Supervisor	JOHNNIE BRASSELL	24 Hr Progress(ft)	247.00
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,800.90 / 2,772.90	Hole size(in)	8.750
THF Datum			
Daily NPT(hr/%)	0/0	Last Casing MD	9.662in@4,922.43ft
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	7.000in@12,221.90ft
Actual cost to date/AFE	1,096,853/2,565,881.00	Current MW / BH EMW(ppg)	/
Actual divided by AFE	0.43	LOT/FIT EMW(ppg)	
Daily Cost	50,867	Lithology	
		Formation/MD Top	

HSE Summary

Last Incident	Date	Days	Last Incident	Date	Days	KPI's	
LWC RWC MTC FAC Last casing pressure test	06/28/2017		PSI NII HPI GOAL ZERO DAYS PS BARRIER EVENT PS barrier bowtie review	09/29/2015	643	TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	0 10 16 1500
Safety Comments:							

HSE Drills

Drills/Tests	Date	Days Since Last	JSA's/Toolbox Talks Days Since Last Drill	19 15
Last Derrick Inspection	06/28/2017	5		
Last BOP function test	06/28/2017	5		
Last BOP Test	07/19/2017			
Next BOP Test				

Operations Summary

24 Hour Summary
TOH T/ 94', L/D 2.38 MOTOR & BIT (0-0-NO-A-X-I-NO-BHA) P/U 2.77 MOTOR & TRI-CONE BIT, TIH T/ 1792', TEST MWD & WAKE EM TOOL, TIH T/ 4854', CUT & SLIP 112' D/L, INST ROT HEAD TIH T/ 11600', FILL PIPE OBTAIN SURVEY & TOOL FACE, SLIDE F/ 11600' T/ 11847'
Update Since Report Time
TIH @ 5900'
24 Hour Forecast
COMP TOH L/D CURVE ASSM, PULL WEAR BUSHING, R/U & RUN 7" CSG & CMT AS PER PLAN.

EP WELLS DAILY OPERATIONS REPORT

Report 16

07/03/2017

Well UNIVERSITY 19 J 0910H
Wellbore UNIVERSITY 19 J 0910H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	3.00	INT1	TOH		11,600.00	0		NPT-TOH T/ 94'
3:00	1.00	INT1	BHA		11,600.00	0		NPT-L/D 2.38 MOTOR & BIT (0-0-NO-A-X-I-NO-BHA) P/U 2.77 MOTOR & TRI-CONE BIT
4:00	1.00	INT1	TIH		11,600.00	0		NPT-TIH T/ 1792'
5:00	0.50	INT1	CDM		11,600.00	0		NPT-TEST MWD & WAKE EM TOOL
5:30	2.00	INT1	TIH		11,600.00	0		NPT-TIH T/ 4854'
7:30	1.00	INT1	CUT		11,600.00	0		NPT-CUT & SLIP 112' D/L
8:30	3.00	INT1	TIH		11,600.00	0		NPT-INST ROT HEAD TIH T/ 11600'
11:30	0.50	INT1	CDM		11,600.00	0		NPT-FILL PIPE OBTAIN SURVEY & TOOL FACE
12:00	12.00	INT1	DRL		11,847.00	0		SLIDE F/ 11600' T/ 11847' (247' @ 20.5 FPH) WOB: 30K RPM: SURF 0 MOTOR 158 BIT 185 PSI & FLOW: SPP 2400 GPM 550 DIFF 250-350 STRING WT: P/U 350, S/O 260, ROT 0 TORQUE: ON BTM 0 OFF BTM 0 MW: 9.3+ PPG MOTOR: .288 REV/GAL GAS: BG 2100 CG 0
Total	24.00							

Deepest 5 Surveys

MD (ft)	Inc. (°)	Azi. (°)	TVD (ft)	N/S (ft)	E/W (ft)	V.Sec (ft)	DLeg (°/100ft)	Tool
11,583.90	46.30	359.47	11,470.42	-362.27	314.22	-434.70	4.82	PTW MWD+HDGM_2016
11,673.90	61.01	356.54	11,523.62	-290.04	311.53	-364.52	16.55	PTW MWD+HDGM_2016
11,762.90	77.48	354.25	11,555.06	-207.38	304.78	-283.19	18.66	PTW MWD+HDGM_2016
11,785.90	81.65	353.48	11,559.22	-184.90	302.36	-260.91	18.43	PTW MWD+HDGM_2016
11,832.90	90.50	351.00	11,562.44	-138.49	296.03	-214.55	19.55	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)	

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	SMITH INTERNA				RJ1748		11,600.00		-----

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 16

07/03/2017

Well UNIVERSITY 19 J 0910H
Wellbore UNIVERSITY 19 J 0910H

Drillstring Components

Item description	# Jts	Length (ft)	OD (in)	Max OD (in)	ID (in)	Connection Name	Weight (ppf)	Grade	Serial no.
5" DP	318	10,030.67	5.000		4.276	4 1/2 IF			RIG
AGITATOR	1	23.80	6.750			4 1/2 IF			W1892385
12 JTS HWDP	12	360.68	6.500		3.250	4 1/2 IF			RIG
30 JTS DRILL PIPE	30	1,339.76	6.625		3.500	4 1/2 IF			RIG
CROSSOVER SUB	1	2.34	6.700		2.810	4 1/2 XH			NESXO6755 48
FLOAT SUB	1	2.50	6.750		2.870	4 1/2 XH			NESFS6754 86
SCREEN SUB	1	3.50	6.500		3.250	4 1/2 XH			DR30026
NON-MAG FLEX COLLAR	1	29.67	6.500		2.875	4 1/2 XH			PXGFC6501 113
GAP SUB	1	3.58	6.660		2.750	4 1/2 XH			VG650104
CENTRALIZER COLAR	1	8.53	6.660		2.750	4 1/2 IF			VC650042
LANDING SUB	1	3.52	6.660		2.750	4 1/2 IF			VL650122
CROSSOVER SUB	1	1.65	6.660		2.750	4 1/2 XH			VX650077
SLICK PONY COLLAR	1	9.47	6.500		2.870	4 1/2 XH			DR22324
PHOENIX 24 X MUD MOTOR, LOBES: 7/8. STG: 5. 2.77° ADJ.	1	26.33	7.625			4 1/2 XH			24XH-67548 7-PTS
RUN #1 BIT #4 SMITH SN: RJ1748	1	1.00	8.750	8.750					RJ1748

Drillstring Details

Date/Time in	Date/Time out	BHA no.	BHA Length (ft)	Min. ID (in)	Purpose
07/03/2017 04:00		4	476.57		DRILL 8.75" CURVE SECTION

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	BAKER HUGHES	TD406FX			7163426	3x18, 3x16	11,045.00	11,600.00	0-0-NO-A-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)

Drillstring Components

Item description	# Jts	Length (ft)	OD (in)	Max OD (in)	ID (in)	Connection Name	Weight (ppf)	Grade	Serial no.
5" DP	310	9,781.51	5.000		4.276	4 1/2 IF			RIG
AGITATOR	1	23.80	6.750			4 1/2 IF			W1892385
12 JTS HWDP	12	360.68	6.500		3.250	4 1/2 IF			RIG
30 JTS DRILL PIPE	30	1,339.76	6.625		3.500	4 1/2 IF			RIG
CROSSOVER SUB	1	2.34	6.700		2.810	4 1/2 XH			NESXO6755 48
FLOAT SUB	1	2.50	6.750		2.870	4 1/2 XH			NESFS6754 86
SCREEN SUB	1	3.50	6.500		3.250	4 1/2 XH			DR30026
NON-MAG FLEX COLLAR	1	29.67	6.500		2.875	4 1/2 XH			PXGFC6501 113
GAP SUB	1	3.58	6.660		2.750	4 1/2 XH			VG650104

EP WELLS DAILY OPERATIONS REPORT

Report 16

07/03/2017

Well UNIVERSITY 19 J 0910H
Wellbore UNIVERSITY 19 J 0910H

Drillstring Components

Item description	# Jts	Length (ft)	OD (in)	Max OD (in)	ID (in)	Connection Name	Weight (ppf)	Grade	Serial no.
CENTRALIZER COLAR	1	8.53	6.660		2.750	4 1/2 IF			VC650042
LANDING SUB	1	3.52	6.660		2.750	4 1/2 IF			VL650122
CROSSOVER SUB	1	1.65	6.660		2.750	4 1/2 XH			VX650077
SLICK PONY COLLAR	1	9.47	6.500		2.870	4 1/2 XH			DR22324
PHOENIX 24X MUD MOTOR, 4/5 LOBES. STG. 7. SET @ 2.38°.	1	28.49	7.500			4 1/2 XH			24XH-67554 0-PTS
RUN #1 BIT #3 BAKER TD406FX (3X18's & 3X16's) SN: 7163426	1	1.00	8.750	8.750					7163426

Drillstring Details

Date/Time in	Date/Time out	BHA no.	BHA Length (ft)	Min. ID (in)	Purpose
07/01/2017 23:30	07/03/2017 04:00	3	955.30		DRILL 8.75" CURVE SECTION

PUMP/HYDRAULIC DATA

Pump No.	Type	Make/Model	Stroke (in)	Liner size (in)	Efficiency (%)	Pressure (psi)	SPM (spm)	Output (gpm)	Kill SPM/Pressure/Depth (spm/psi/ft)
1		GARDENER-DENVER / PZ-11-1600	11.00						
2		GARDENER-DENVER / PZ-11-1600	11.00						

Remarks

FUEL ON LOCATION 18444 GAL
FUEL DELIVERED: 7100 GAL
FUEL USED 1800 GALS

EP WELLS DAILY OPERATIONS REPORT

Report 17

07/04/2017

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 19 J 0910H
Wellbore	UNIVERSITY 19 J 0910H
WBS No/API No	30265148 / 4230133232.00

Event Summary

Event Type	Drilling only	Event Start Date	06/08/2017	Days on Location	16.46
Objective	Drill - Wolfcamp Beta	Original Spud Date	06/14/2017	Days Since Spud	10.80
Est. Days	21.00	Contractor	ENSIGN		
Work Unit	ENSIGN 775	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	TRAMPUS STEWART	Measured Depth(ft)	11,847.00
Engineer	BRANDON FOOTE	TVD(ft)	11,562.31
Other Supervisor	JOHNNIE BRASSELL	24 Hr Progress(ft)	0.00
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,800.90 / 2,772.90	Hole size(in)	8.750
THF Datum			
Daily NPT(hr/%)	1.50/6.25	Last Casing MD	7.000in@11,837.00ft
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	4.500in@19,336.00ft
Actual cost to date/AFE	1,450,603/2,565,881.00	Current MW / BH EMW(ppg)	9.35/
Actual divided by AFE	0.57	LOT/FIT EMW(ppg)	
Daily Cost	346,289	Lithology	
		Formation/MD Top	

HSE Summary

Last Incident	Date	Days	Last Incident	Date	Days	KPI's	
LWC RWC MTC FAC Last casing pressure test	06/28/2017		PSI NII HPI GOAL ZERO DAYS PS BARRIER EVENT PS barrier bowtie review	09/29/2015	644	TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	1 9 16 1500
Safety Comments:							

HSE Drills

Drills/Tests	Date	Days Since Last		
Last Derrick Inspection	06/28/2017	6	JSA's/Toolbox Talks	15
Last BOP function test	06/28/2017	6	Days Since Last Drill	16
Last BOP Test	07/19/2017			
Next BOP Test				

Operations Summary

24 Hour Summary
CIRC & COND, TOH T/ 94', L/D BHA #4 CURVE ASSM, PULL WEAR BUSHING, PAUSE & R/U CSG EQUIP, RUN 7" CSG T/ 10925', WAIT ON WEATHER, CONT RUNNING CSG T/ 11837'
Update Since Report Time
DISPLACING CMT, (TALKED W/ TRRC ON 7/4/17 @ 7AM OPER#5 DEE, ON OUR CSG & CMT INTENTIONS)
24 Hour Forecast
COMPLETE CMT JOB & R/D CMT CREW, B/O LANDING JT, INSTALL PACKOFF BPV & TEST, B/O SPEED ADT, READY RIG TO WALK, WALK TO UNIVERSITY 19 PW 1404H

EP WELLS DAILY OPERATIONS REPORT

Report 17

07/04/2017

Well UNIVERSITY 19 J 0910H
Wellbore UNIVERSITY 19 J 0910H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	2.00	INT1	CBU		11,847.00	0		CIRC & COND, PUMPS SWEEPS AROUND TILL CLEAN
2:00	5.50	INT1	TOH		11,847.00	0		TOH T/ 94'
7:30	1.00	INT1	BHA		11,847.00	0		L/D BHA #4 CURVE ASSM & BIT GRADE:(1-2-CT-T-E-I-CT-TD)
8:30	0.50	INT1	WHD		11,847.00	0		PULL WEAR BUSHING
9:00	1.00	INT1	RIC		11,847.00	0		PAUSE & R/U CSG EQUIP
10:00	11.50	INT1	CLR		11,847.00	0		RUN 7" CSG T/ 10925'
21:30	1.50	INT1	NOA		11,847.00	1		NPT: WAIT ON WEATHER.
23:00	1.00	INT1	CLR		11,847.00	0		RUN 7" CSG T/ 11837'
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
07/04/2017 21:30	SHELL	Wait On Weather	11,847.00	NOA	N		1.50	1.50		OPEN
Description: WAIT ON WEATHER						Title: WAIT ON WEATHER				
							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
11,583.90	46.30	359.47	11,470.42	-362.27	314.22	-434.70	4.82	PTW MWD+HDGM_2016
11,673.90	61.01	356.54	11,523.62	-290.04	311.53	-364.52	16.55	PTW MWD+HDGM_2016
11,762.90	77.48	354.25	11,555.06	-207.38	304.78	-283.19	18.66	PTW MWD+HDGM_2016
11,785.90	81.65	353.48	11,559.22	-184.90	302.36	-260.91	18.43	PTW MWD+HDGM_2016
11,832.90	90.50	351.00	11,562.44	-138.49	296.03	-214.55	19.55	PTW MWD+HDGM_2016

Fluid Details

Mud type	NaCl Brine	Oil/Water (%)	0.00/93.50	pH/Pm (cc)	9.50/0.40
MD (ft)	11,847.00	TS/HGS/LGS (%)	0.60/0.10/0.50	Pf/Mf (cc)	0.20/0.35
Mud Density (ppg)	9.35	Sand (%)	0.15	Ca+ (ppm)	
Vis (s/qt)	28.00			Cl- (ppm)	103,000
PV/YP (cp/lbf/100ft²)	1.00/3.000	MBT (lbm/bbl)			
Gels 10 s/m (lbf/100ft²)	1.000/2.000	LCM (lbm/bbl)			
API/HTHP WL (cc/30min)	100.0/	ECD (ppg)		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	SMITH INTERNA	F27Y			RJ1748	3x22	11,600.00	11,847.00	1-2-CT-T-E-I-CT-TD

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 17

07/04/2017

Well UNIVERSITY 19 J 0910H
Wellbore UNIVERSITY 19 J 0910H

Drillstring Components

Item description	# Jts	Length (ft)	OD (in)	Max OD (in)	ID (in)	Connection Name	Weight (ppf)	Grade	Serial no.
5" DP	318	10,030.67	5.000		4.276				RIG
AGITATOR	1	23.80	6.750			4 1/2 IF			W1892385
12 JTS HWDP	12	360.68	6.500		3.250	4 1/2 IF			RIG
30 JTS DRILL PIPE	30	1,339.76	6.625		3.500	4 1/2 IF			RIG
CROSSOVER SUB	1	2.34	6.700		2.810	4 1/2 XH			NESXO675548
FLOAT SUB	1	2.50	6.750		2.870	4 1/2 XH			NESFS675486
SCREEN SUB	1	3.50	6.500		3.250	4 1/2 XH			DR30026
NON-MAG FLEX COLLAR	1	29.67	6.500		2.875	4 1/2 XH			PXGFC6501113
GAP SUB	1	3.58	6.660		2.750	4 1/2 XH			VG650104
CENTRALIZER COLLAR	1	8.53	6.660		2.750	4 1/2 IF			VC650042
LANDING SUB	1	3.52	6.660		2.750	4 1/2 IF			VL650122
CROSSOVER SUB	1	1.65	6.660		2.750	4 1/2 XH			VX650077
SLICK PONY COLLAR	1	9.47	6.500		2.870	4 1/2 XH			DR22324
PHOENIX 24 X MUD MOTOR, LOBES: 7/8. STG: 5. ADJ @	1	26.33	7.625			4 1/2 XH			24XH-675487-PTS
BIT #4 RUN #1 SMITH F27Y, 3X22's. SN: RJ1748	1	1.00	8.750	8.750					RJ1748

Drillstring Details

Date/Time in	Date/Time out	BHA no.	BHA Length (ft)	Min. ID (in)	Purpose
07/03/2017 04:00	07/04/2017 08:30	4	476.57		DRILL 8.75" CURVE SECTION

PUMP/HYDRAULIC DATA

Pump No.	Type	Make/Model	Stroke (in)	Liner size (in)	Efficiency (%)	Pressure (psi)	SPM (spm)	Output (gpm)	Kill SPM/Pressure/Depth (spm/psi/ft)
1		GARDENER-DENVER / PZ-11-1600	11.00						
2		GARDENER-DENVER / PZ-11-1600	11.00						

Remarks

FUEL ON LOCATION 17172 GAL
FUEL DELIVERED: 0 GAL
FUEL USED 1272 GALS

EP WELLS DAILY OPERATIONS REPORT

Report 18

07/05/2017

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 19 J 0910H
Wellbore	UNIVERSITY 19 J 0910H
WBS No/API No	30265148 / 4230133232.00

Event Summary

Event Type	Drilling only	Event Start Date	06/08/2017	Days on Location	16.90
Objective	Drill - Wolfcamp Beta	Original Spud Date	06/14/2017	Days Since Spud	11.24
Est. Days	21.00	Contractor	ENSIGN		
Work Unit	ENSIGN 775	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	TRAMPUS STEWART	Measured Depth(ft)	11,847.00
Engineer	BRANDON FOOTE	TVD(ft)	11,562.31
Other Supervisor	JOHNNIE BRASSELL	24 Hr Progress(ft)	0.00
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,800.90 / 2,772.90	Hole size(in)	8.750
THF Datum			
Daily NPT(hr/%)	0/0	Last Casing MD	7.000in@11,837.00ft
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	4.500in@19,336.00ft
Actual cost to date/AFE	1,484,465/2,565,881.00	Current MW / BH EMW(ppg)	/
Actual divided by AFE	0.58	LOT/FIT EMW(ppg)	
Daily Cost	42,278	Lithology	
		Formation/MD Top	

HSE Summary

Last Incident	Date	Days	Last Incident	Date	Days	KPI's	
LWC RWC MTC FAC Last casing pressure test	07/05/2017		PSI NII HPI GOAL ZERO DAYS PS BARRIER EVENT PS barrier bowtie review	09/29/2015	645	TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	9 1 16 2500
Safety Comments:							

HSE Drills

Drills/Tests	Date	Days Since Last	JSA's/Toolbox Talks Days Since Last Drill	6 17
Last Derrick Inspection	07/05/2017	0		
Last BOP function test	06/28/2017	7		
Last BOP Test	07/19/2017			
Next BOP Test				

Operations Summary

24 Hour Summary
RUN 7" CSG T/ 11837", CIRC & COND 1.5 CSG CAP, CMT 7" AS PER PLAN, BULLHEAD 30BBLS FOR BARRIER, R/D CMT EQUIP, L/D LANDING JT, INST PACKOFF & JP2 BPV TEST T/ 10K, B/O SPEED ADP LIFT STACK INST DUST CAP RELEASED F/ UNIVERSITY 19 J 0910H @ 10:30 7/5/17, WALK TO UNIVERSITY 19 PW 1404H
Update Since Report Time
24 Hour Forecast

EP WELLS DAILY OPERATIONS REPORT

Report 18

07/05/2017

Well UNIVERSITY 19 J 0910H
Wellbore UNIVERSITY 19 J 0910H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	0.50	INT1	CLR		11,847.00	0		RUN 7" CSG T/ 11837'
0:30	2.50	INT1	RCC		11,847.00	0		CIRC & COND 1.5 CSG CAP.
3:00	3.50	INT1	CEM		11,847.00	0		PAUSE R/U CMT EQUIP TEST LINES, MIX & PUMP 500BBLs H2O SPACER 174 BBLs LEAD CMT @ 11.0PPG 100BBLs TAIL CMT @ 14.5PPG DISP 436BBLSW/ 9.4 BRINE FULL RETURNS, PLUG BUMPED 500PSI IVER, BLEED BACK 2BBLs, FLOAT HELD, TEST CSG T/ 2500PSI
6:30	0.50	INT1	LCH		11,847.00	0		BULLHEAD 30BBLs FOR BARRIER
7:00	0.50	INT1	LCH		11,847.00	0		R/D CMT EQUIP
7:30	2.00	INT1	LCH		11,847.00	0		L/D LANDING JT, INST PACKOFF & JP2 BPV TEST T/ 10K
9:30	1.00	INT1	WHD		11,847.00	0		B/O SPEED ADP LIFT STACK, INST DUST CAP, RELEASED F/ UNIVERSITY 19 J 0910H @ 10:30 7/5/17
Total	10.50							

Deepest 5 Surveys

MD (ft)	Inc. (°)	Azi. (°)	TVD (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Tool
11,583.90	46.30	359.47	11,470.42	-362.27	314.22	-434.70	4.82	PTW MWD+HDGM_2016
11,673.90	61.01	356.54	11,523.62	-290.04	311.53	-364.52	16.55	PTW MWD+HDGM_2016
11,762.90	77.48	354.25	11,555.06	-207.38	304.78	-283.19	18.66	PTW MWD+HDGM_2016
11,785.90	81.65	353.48	11,559.22	-184.90	302.36	-260.91	18.43	PTW MWD+HDGM_2016
11,832.90	90.50	351.00	11,562.44	-138.49	296.03	-214.55	19.55	PTW MWD+HDGM_2016

Fluid Details

Mud type	NaCl Brine	Oil/Water (%)	pH/Pm (cc)
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)	

PUMP/HYDRAULIC DATA

Pump No.	Type	Make/Model	Stroke (in)	Liner size (in)	Efficiency (%)	Pressure (psi)	SPM (spm)	Output (gpm)	Kill SPM/Pressure/Depth (spm/psi/ft)
1		GARDENER-DENVER / PZ-11-1600	11.00						
2		GARDENER-DENVER / PZ-11-1600	11.00						

Remarks

FUEL ON LOCATION 17172 GAL
FUEL DELIVERED: 0 GAL
FUEL USED 0 GALS

EP WELLS DAILY OPERATIONS REPORT

Report 19

07/30/2017

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 19 J 0910H
Wellbore	UNIVERSITY 19 J 0910H
WBS No/API No	30265148 / 4230133232.00

Event Summary

Event Type	Drilling only	Event Start Date	06/08/2017	Days on Location	17.33
Objective	Drill - Wolfcamp Beta	Original Spud Date	06/14/2017	Days Since Spud	11.68
Est. Days	21.00	Contractor	ENSIGN		
Work Unit	ENSIGN 775	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	STEVE SLOOP	Measured Depth(ft)	11,847.00
Engineer	BRANDON FOOTE	TVD(ft)	11,562.31
Other Supervisor	JOHNNIE BRASSELL	24 Hr Progress(ft)	0.00
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,800.90 / 2,772.90	Hole size(in)	8.750
THF Datum			
Daily NPT(hr/%)	0/0	Last Casing MD	7.000in@11,837.00ft
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	4.500in@18,350.00ft
Actual cost to date/AFE	1,569,435/2,565,881.00	Current MW / BH EMW(ppg)	13.70/
Actual divided by AFE	0.61	LOT/FIT EMW(ppg)	
Daily Cost	15,128	Lithology	
		Formation/MD Top	

HSE Summary

Last Incident	Date	Days	Last Incident	Date	Days	KPI's	
LWC RWC MTC FAC Last casing pressure test	07/05/2017		PSI NII HPI GOAL ZERO DAYS PS BARRIER EVENT PS barrier bowtie review	09/29/2015	670	TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	3 7 16 2500
Safety Comments:	STOP THE JOB, RE-FOCUS 7 STEPS!						

HSE Drills

Drills/Tests	Date	Days Since Last	JSA's/Toolbox Talks Days Since Last Drill	24 18
Last Derrick Inspection	07/30/2017	0		
Last BOP function test	07/18/2017	12		
Last BOP Test	08/08/2017			
Next BOP Test				

Operations Summary

24 Hour Summary
PAUSE WALK RIG T/ UNIVERSITY 19 J 0910H, N/U BOPS ON WELLHEAD SPEED FLANGE TEST SEALS N/U FLOW LINE, FILL UP LINE CHECK VALVE, R/U BACK YARD PVC FLARE LINE OPEN TOP TANKS, CAT WALK, TRANSFER OBM TO TANKS, C/O SAVER SUB ON TDS, FLOW TEST MUD LINES, R/U KATCH KAN
Update Since Report Time
P/U BHA
24 Hour Forecast
COMP P/U BHA, TIH P/U 4" DP, CUT DRILL LINE, DISP BRINE W/ OBM, DRILL SHOE TRACK, LATERAL SECTION AS PER PLAN EST TD @ +/- 18350'

EP WELLS DAILY OPERATIONS REPORT

Report 19

07/30/2017

Well UNIVERSITY 19 J 0910H
Wellbore UNIVERSITY 19 J 0910H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
13:30	2.50	MNH1	WLK		11,847.00	0		PAUSE WALK RIG T/ UNIVERSITY 19 J 0910H
16:00	8.00	MNH1	RUP		11,847.00	0		N/U BOPS ON WELLHEAD SPEED FLANGE TEST SEALS N/U FLOW LINE, FILL UP LINE CHECK VALVE, R/U BACK YARD PVC FLARE LINE OPEN TOP TANKS, CAT WALK, TRANFER OBM TO TANKS, C/O SAVER SUB ON TDS, FLOW TEST MUD LINES, R/U KATCH KAN
Total	10.50							

Deepest 5 Surveys

MD (ft)	Inc. (°)	Azi. (°)	TVD (ft)	N/S (ft)	E/W (ft)	V.Sec (ft)	DLeg (°/100ft)	Tool
11,762.90	77.48	353.91	11,555.07	-207.77	303.99	-283.35	18.67	PTW MWD+HDGM+AXIAL_2016
11,762.90	77.48	354.25	11,555.06	-207.38	304.78	-283.19	18.66	PTW MWD+HDGM_2016
11,785.90	81.65	353.48	11,559.24	-185.29	301.51	-261.06	18.22	PTW MWD+HDGM+AXIAL_2016
11,785.90	81.65	353.48	11,559.22	-184.90	302.36	-260.91	18.43	PTW MWD+HDGM_2016
11,832.90	90.50	351.00	11,562.44	-138.49	296.03	-214.55	19.55	PTW MWD+HDGM_2016

Fluid Details

Mud type	Invermul	Oil/Water (%)	54.00/18.00	POM (cc)	
MD (ft)	11,847.00	TS/HGS/LGS (%)	26.00/18.10/7.90	CaCl2 (%)	
Mud Density (ppg)	13.70	Sand (%)	0.00	Caom/Clom (ppm)	
Vis (s/qt)		Oil/Water Ratio (%)	75.00/25.00	ACT	
PV/YP (cp/lbf/100ft²)	40.00/9.000	LCM (lbm/bbl)		XS Lime(lbm/bbl)	
Gels 10 s/m (lbf/100ft²)	13.000/16.000	ECD (ppg)		ES (Volts)	
API/HTHP WL (cc/30min)	/12.0	H2S (gas unit)		R600/300 (°)	
FC/HTHP FC (32nd")	/5.0	KCl (%)		R200/100 (°)	
WPS (ppm)	249,561			R6/3 (°)	
FL temp. (°F)		Ditch Magnet in Last 24hrs/Cum. (gm)			

PUMP/HYDRAULIC DATA

Pump No.	Type	Make/Model	Stroke (in)	Liner size (in)	Efficiency (%)	Pressure (psi)	SPM (spm)	Output (gpm)	Kill SPM/Pressure/Depth (spm/psi/ft)
1		GARDENER-DENVER / PZ-11-1600	11.00						
2		GARDENER-DENVER / PZ-11-1600	11.00						

Remarks

FUEL ON LOCATION 16536 GAL
FUEL DELIVERED: 636 GAL
FUEL USED 0 GALS

EP WELLS DAILY OPERATIONS REPORT

Report 1

06/08/2017

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 19 J 0910H
Wellbore	UNIVERSITY 19 J 0910H
WBS No/API No	30265148 / 4230133232.00

Event Summary

Event Type	Drilling only	Event Start Date	06/08/2017	Days on Location	0.65
Objective	Drill - Wolfcamp Beta	Original Spud Date		Days Since Spud	0.00
Est. Days	21.00	Contractor	ENSIGN		
Work Unit	ENSIGN 775	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	TRAMPUS STEWART	Measured Depth(ft)	148.00
Engineer	BRANDON FOOTE	TVD(ft)	148.00
Other Supervisor	TREVOR KELLEY	24 Hr Progress(ft)	148.00
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,800.90 / 2,772.90	Hole size(in)	30.000
THF Datum			
Daily NPT(hr/%)	0/0	Last Casing MD	
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	20.000in@148.00ft
Actual cost to date/AFE	7,321/2,565,881.00	Current MW / BH EMW(ppg)	/
Actual divided by AFE	0.00	LOT/FIT EMW(ppg)	
Daily Cost	7,321	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	09/29/2015	618	TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	
Safety Comments:							

Operations Summary

24 Hour Summary
20% R/D 10% MOVED 0% R/U
Update Since Report Time
CONT RIG MOVE
24 Hour Forecast
CONT RIG MOVE OPERATIONS

EP WELLS DAILY OPERATIONS REPORT

Report 1

06/08/2017

Well UNIVERSITY 19 J 0910H
Wellbore UNIVERSITY 19 J 0910H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
15:30	8.50	RIGM	RIT		148.00	0		20% R/D 10% MOVED 0% R/U CLEANING PITS & PRESSURE WASH RIG LOAD OUT CATWALK & BOPS LOAD OUT MISC LOADS
Total	8.50							

PUMP/HYDRAULIC DATA

Pump No.	Type	Make/Model	Stroke (in)	Liner size (in)	Efficiency (%)	Pressure (psi)	SPM (spm)	Output (gpm)	Kill SPM/Pressure/Depth (spm/psi/ft)
1		GARDENER-DENVER / PZ-11-1600	11.00						
2		GARDENER-DENVER / PZ-11-1600	11.00						

EP WELLS DAILY OPERATIONS REPORT

Report 20

07/31/2017

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 19 J 0910H
Wellbore	UNIVERSITY 19 J 0910H
WBS No/API No	30265148 / 4230133232.00

Event Summary

Event Type	Drilling only	Event Start Date	06/08/2017	Days on Location	18.33
Objective	Drill - Wolfcamp Beta	Original Spud Date	06/14/2017	Days Since Spud	12.68
Est. Days	21.00	Contractor	ENSIGN		
Work Unit	ENSIGN 775	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	STEVE SLOOP	Measured Depth(ft)	11,847.00
Engineer	BRANDON FOOTE	TVD(ft)	11,562.31
Other Supervisor	JOHNNIE BRASSELL	24 Hr Progress(ft)	0.00
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,800.90 / 2,772.90	Hole size(in)	6.125
THF Datum			
Daily NPT(hr/%)	0/0	Last Casing MD	7.000in@11,837.00ft
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	4.500in@18,350.00ft
Actual cost to date/AFE	1,630,645/2,565,881.00	Current MW / BH EMW(ppg)	/
Actual divided by AFE	0.64	LOT/FIT EMW(ppg)	
Daily Cost	61,210	Lithology	
		Formation/MD Top	

HSE Summary

Last Incident	Date	Days	Last Incident	Date	Days	KPI's	
LWC RWC MTC FAC Last casing pressure test	07/05/2017		PSI NII HPI GOAL ZERO DAYS PS BARRIER EVENT PS barrier bowtie review	09/29/2015	671	TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	3 7 16 2500
Safety Comments:							

HSE Drills

Drills/Tests	Date	Days Since Last		
Last Derrick Inspection	07/30/2017	1	JSA's/Toolbox Talks	22
Last BOP function test	07/18/2017	13	Days Since Last Drill	19
Last BOP Test	08/08/2017			
Next BOP Test				

Operations Summary

24 Hour Summary
CONT R/U ACCEPT RIG @ 04:30, PAUSE P/U M/U BHA #5 LATERAL ASSM, TIH P/U 4" DP T/ 1765', P/U AGITATOR CHECK PRESSURE DROP, TIH P/U 4" DP T/ 5263', P/U SHOCK SUB & FILL PIPE, TIH P/U 4" DP T/ 11533', REMOVE TRIP NIP INST ROT-HEAD, CUT & SLIP 90' DRILL LINE, SERVICE RIG, WASH F/ 11533' T/ 11594', DISP 9.4PPG BRINE W/ 13.2PPG OBM
Update Since Report Time
DRLG @ 11905'
24 Hour Forecast
DRLG LATERAL SECTION AS PER PLAN EST TD @ +/- 18350'

EP WELLS DAILY OPERATIONS REPORT

Report 20

07/31/2017

Well UNIVERSITY 19 J 0910H
Wellbore UNIVERSITY 19 J 0910H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	4.50	MNH1	RUP		11,847.00	0		N/U BOPS ON WELLHEAD SPEED FLANGE TEST SEALS N/U FLOW LINE, FILL UP LINE CHECK VALVE, R/U BACK YARD PVC FLARE LINE OPEN TOP TANKS, CAT WALK, TRANFER OBM TO TANKS, C/O SAVER SUB ON TDS, FLOW TEST MUD LINES, R/U KATCH KAN, ACCEPT RIG @ 04:30
4:30	1.50	MNH1	BHA		11,847.00	0		PAUSE P/U M/U BHA #5 LATERAL ASSM
6:00	2.00	MNH1	PUP		11,847.00	0		TIH P/U 4" DP T/ 1765'
8:00	0.50	MNH1	BHA		11,847.00	0		P/U AGITATOR CHECK PRESSURE DROP
8:30	3.00	MNH1	PUP		11,847.00	0		TIH P/U 4" DP T/ 5263'
11:30	0.50	MNH1	BHA		11,847.00	0		P/U SHOCK SUB & FILL PIPE
12:00	7.50	MNH1	PUP		11,847.00	0		TIH P/U 4" DP T/ 11533'
19:30	0.50	MNH1	BOP		11,847.00	0		REMOVE TRIP NIP INST ROT-HEAD
20:00	1.00	MNH1	CUT		11,847.00	0		CUT & SLIP 90' DRILL LINE
21:00	0.50	MNH1	SVC		11,847.00	0		SERVICE RIG
21:30	1.00	MNH1	TIH		11,847.00	0		WASH F/ 11533' T/ 11594'
22:30	1.50	MNH1	CBU		11,847.00	0		DISP 9.4PPG BRINE W/ 13.2PPG OBM
Total	24.00							

Deepest 5 Surveys

MD (ft)	Inc. (°)	Azi. (°)	TVD (ft)	N/S (ft)	E/W (ft)	V.Sec (ft)	DLeg (°/100ft)	Tool
11,762.90	77.48	353.91	11,555.07	-207.77	303.99	-283.35	18.67	PTW MWD+HDGM+AXIAL_2016
11,762.90	77.48	354.25	11,555.06	-207.38	304.78	-283.19	18.66	PTW MWD+HDGM_2016
11,785.90	81.65	353.48	11,559.24	-185.29	301.51	-261.06	18.22	PTW MWD+HDGM+AXIAL_2016
11,785.90	81.65	353.48	11,559.22	-184.90	302.36	-260.91	18.43	PTW MWD+HDGM_2016
11,832.90	90.50	351.00	11,562.44	-138.49	296.03	-214.55	19.55	PTW MWD+HDGM_2016

Fluid Details

Mud type	Invermud	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)	

Gas Concentrations and Fluid Losses

Avg Connection Gas (gas unit)	Avg. trip gas (gas unit)	Losses Last 24 Hours/Cumulative...	
Max. connection gas (gas unit)	Max. trip gas (gas unit)	Surface Losses (bbl)	/0.00
Avg. background gas (gas unit)	Avg H2S Gas (gas unit)	Sub Surface Losses (bbl)	/0.00
Max. background gas (gas unit)	Max H2S Gas (gas unit)	Total Losses	0.00/0.00
		End vol. (bbl)	0.00

EP WELLS DAILY OPERATIONS REPORT

Report 20

07/31/2017

Well UNIVERSITY 19 J 0910H
Wellbore UNIVERSITY 19 J 0910H

Bulks Summary

Product	Quantity Onboard	Units	Daily Usage
Diesel	-346.00		346.00

PUMP/HYDRAULIC DATA

Pump No.	Type	Make/Model	Stroke (in)	Liner size (in)	Efficiency (%)	Pressure (psi)	SPM (spm)	Output (gpm)	Kill SPM/Pressure/Depth (spm/psi/ft)
1		GARDENER-DENVER / PZ-11-1600	11.00						
2		GARDENER-DENVER / PZ-11-1600	11.00						

Remarks

FUEL ON LOCATION 19716 GAL
FUEL DELIVERED: 7713 GAL
FUEL USED RIG 827 GALS
FUEL USED MUD 346 GALS
FUEL ON HAND F/ MUD 3360 GALS

EP WELLS DAILY OPERATIONS REPORT

Report 21

08/01/2017

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 19 J 0910H
Wellbore	UNIVERSITY 19 J 0910H
WBS No/API No	30265148 / 4230133232.00

Event Summary

Event Type	Drilling only	Event Start Date	06/08/2017	Days on Location	19.33
Objective	Drill - Wolfcamp Beta	Original Spud Date	06/14/2017	Days Since Spud	13.68
Est. Days	21.00	Contractor	ENSIGN		
Work Unit	ENSIGN 775	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	TRAMPUS STEWART	Measured Depth(ft)	13,008.00
Engineer	BRANDON FOOTE	TVD(ft)	11,532.41
Other Supervisor	JOHNNIE BRASSELL	24 Hr Progress(ft)	1,161.00
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,800.90 / 2,772.90	Hole size(in)	6.125
THF Datum			
Daily NPT(hr/%)	0/0	Last Casing MD	7.000in@11,837.00ft
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	4.500in@18,350.00ft
Actual cost to date/AFE	1,669,312/2,565,881.00	Current MW / BH EMW(ppg)	/
Actual divided by AFE	0.65	LOT/FIT EMW(ppg)	
Daily Cost	35,837	Lithology	
		Formation/MD Top	

HSE Summary

Last Incident	Date	Days	Last Incident	Date	Days	KPI's	
LWC RWC MTC FAC Last casing pressure test	07/05/2017		PSI NII HPI GOAL ZERO DAYS PS BARRIER EVENT PS barrier bowtie review	09/29/2015	672	TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	2 8 13 2500
Safety Comments:	SHORT CHANGE FOCUS & CREW CHANGE						

HSE Drills

Drills/Tests	Date	Days Since Last		
Last Derrick Inspection	07/30/2017	2	JSA's/Toolbox Talks	17
Last BOP function test	07/18/2017	14	Days Since Last Drill	20
Last BOP Test	08/08/2017			
Next BOP Test				

Operations Summary

24 Hour Summary
DRLG SHOE TRACK F/ 11533' T/ 11837' WASH T/ 11847', DRLG & SLIDE F/ 11847' T/ 13008'
Update Since Report Time
DRLG @ 13444'
24 Hour Forecast
DRLG LATERAL SECTION AS PER PLAN EST TD @ +/- 18350'

EP WELLS DAILY OPERATIONS REPORT

Report 21

08/01/2017

Well UNIVERSITY 19 J 0910H
Wellbore UNIVERSITY 19 J 0910H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	3.50	MNH1	DCM		11,847.00	0		DRLG SHOE TRACK F/ 11533' T/ 11837' WASH T/ 11847'
3:30	2.50	MNH1	DRL		11,968.00	0		DRLG F/ 11847' T/ 11968' (121' @ 48 FPH) WOB: 20-25K RPM: SURF 20 MOTOR 217 BIT 237 PSI & FLOW: SPP 4400 GPM 272 DIFF 650-750 STRING WT: P/U 230 S/O 180 ROT 180 TORQUE: ON BTM 7-9 OFF BTM 3-4 MW: 13.3+ PPG MOTOR: .8 REV/GAL GAS: BG 0 CG 0
6:00	4.00	MNH1	DRL		12,020.00	0		SLIDE F/ 11968' T/ 12020' (52' @ 13 FPH) WOB: 20K RPM: SURF 0 MOTOR 217 BIT 217 PSI & FLOW: SPP 4400 GPM 275 DIFF 200-375 STRING WT: P/U 230 S/O 180 ROT 0 TORQUE: ON BTM 0 OFF BTM 0 MW: 13.3+ PPG MOTOR: .8 REV/GAL GAS: BG 550 CG 1500
10:00	1.00	MNH1	DRL		12,063.00	0		DRLG F/ 12020' T/ 12063' (43' @ 43 FPH) WOB: 20-25K RPM: SURF 40 MOTOR 217 BIT 257 PSI & FLOW: SPP 4400 GPM 272 DIFF 650-750 STRING WT: P/U 230 S/O 180 ROT 185 TORQUE: ON BTM 7-9 OFF BTM 3-4 MW: 13.3+ PPG MOTOR: .8 REV/GAL GAS: BG 0 CG 0
11:00	1.00	MNH1	DRL		12,105.00	0		SLIDE F/ 12063' T/ 12105' (42' @ 42 FPH) WOB: 20K RPM: SURF 0 MOTOR 217 BIT 217 PSI & FLOW: SPP 4400 GPM 275 DIFF 200-375 STRING WT: P/U 230 S/O 180 ROT 0 TORQUE: ON BTM 0 OFF BTM 0 MW: 13.3+ PPG MOTOR: .8 REV/GAL GAS: BG 550 CG 1500
12:00	3.00	MNH1	DRL		12,345.00	0		DRLG F/ 12105' T/ 12345' (240' @ 80 FPH) WOB: 30-33K RPM: SURF 80 MOTOR 217 BIT 297 PSI & FLOW: SPP 4450 GPM 272 DIFF 750-900 STRING WT: P/U 235 S/O 180 ROT 185 TORQUE: ON BTM 8-10 OFF BTM 4-5 MW: 13.3+ PPG MOTOR: .8 REV/GAL GAS: BG 500 CG 1500
15:00	1.50	MNH1	DRL		12,383.00	0		SLIDE F/ 12345' T/ 12383' (38' @ 25 FPH) WOB: 15-25K RPM: SURF 0 MOTOR 217 BIT 217 PSI & FLOW: SPP 4400 GPM 275 DIFF 200-375 STRING WT: P/U 230 S/O 180 ROT 0 TORQUE: ON BTM 0 OFF BTM 0 MW: 13.3+ PPG MOTOR: .8 REV/GAL GAS: BG 550 CG 1500
16:30	3.00	MNH1	DRL		12,637.00	0		DRLG F/ 12383' T/ 12637' (254' @ 84 FPH) WOB: 30-33K RPM: SURF 80 MOTOR 217 BIT 297 PSI & FLOW: SPP 4450 GPM 272 DIFF 750-900 STRING WT: P/U 235 S/O 180 ROT 185 TORQUE: ON BTM 8-10 OFF BTM 4-5 MW: 13.3+ PPG MOTOR: .8 REV/GAL GAS: BG 500 CG 1500
19:30	1.00	MNH1	DRL		12,657.00	0		SLIDE F/ 12637' T/ 12657' (20' @ 20 FPH)

EP WELLS DAILY OPERATIONS REPORT

Report 21

08/01/2017

Well UNIVERSITY 19 J 0910H
Wellbore UNIVERSITY 19 J 0910H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								WOB: 15-25K RPM: SURF 0 MOTOR 217 BIT 217 PSI & FLOW: SPP 4400 GPM 275 DIFF 200-375 STRING WT: P/U 230 S/O 180 ROT 0 TORQUE: ON BTM 0 OFF BTM 0 MW: 13.3+ PPG MOTOR: .8 REV/GAL GAS: BG 550 CG 1500
20:30	3.50	MNH1	DRL		13,008.00	0		DRLG F/ 12657' T/ 13008' (351' @ 100 FPH) WOB: 30-33K RPM: SURF 80 MOTOR 217 BIT 297 PSI & FLOW: SPP 4450 GPM 272 DIFF 750-900 STRING WT: P/U 235 S/O 180 ROT 185 TORQUE: ON BTM 8-10 OFF BTM 4-5 MW: 13.3+ PPG MOTOR: .8 REV/GAL GAS: BG 500 CG 1500
Total	24.00							

Deepest 5 Surveys

MD (ft)	Inc. (°)	Azi. (°)	TVD (ft)	N/S (ft)	E/W (ft)	V.Sec (ft)	DLeg (°/100ft)	Tool
12,552.90	88.82	339.82	11,545.57	561.02	141.19	500.58	1.36	PTW MWD+HDGM_2016
12,647.90	92.15	341.29	11,544.77	650.59	109.57	595.38	3.83	PTW MWD+HDGM_2016
12,742.90	91.53	340.62	11,541.72	740.34	78.58	690.20	0.96	PTW MWD+HDGM_2016
12,837.90	92.24	341.02	11,538.59	830.02	47.39	784.99	0.86	PTW MWD+HDGM_2016
12,932.90	92.53	340.97	11,534.64	919.76	16.48	879.78	0.31	PTW MWD+HDGM_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)	

PUMP/HYDRAULIC DATA

Pump No.	Type	Make/Model	Stroke (in)	Liner size (in)	Efficiency (%)	Pressure (psi)	SPM (spm)	Output (gpm)	Kill SPM/Pressure/Depth (spm/psi/ft)
1		GARDENER-DENVER / PZ-11-1600	11.00						
2		GARDENER-DENVER / PZ-11-1600	11.00						

Remarks

FUEL ON LOCATION 19716 GAL
FUEL DELIVERED: 0 GAL
FUEL USED RIG 0 GALS
FUEL USED MUD 0 GALS
FUEL ON HAND F/ MUD 3360 GALS

EP WELLS DAILY OPERATIONS REPORT

Report 22

08/02/2017

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 19 J 0910H
Wellbore	UNIVERSITY 19 J 0910H
WBS No/API No	30265148 / 4230133232.00

Event Summary

Event Type	Drilling only	Event Start Date	06/08/2017	Days on Location	20.33
Objective	Drill - Wolfcamp Beta	Original Spud Date	06/14/2017	Days Since Spud	14.68
Est. Days	21.00	Contractor	ENSIGN		
Work Unit	ENSIGN 775	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	TRAMPUS STEWART	Measured Depth(ft)	14,873.00
Engineer	BRANDON FOOTE	TVD(ft)	11,555.82
Other Supervisor	JOHNNIE BRASSELL	24 Hr Progress(ft)	1,865.00
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,800.90 / 2,772.90	Hole size(in)	6.125
THF Datum			
Daily NPT(hr/%)	0/0	Last Casing MD	7.000in@11,837.00ft
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	4.500in@18,350.00ft
Actual cost to date/AFE	1,738,355/2,565,881.00	Current MW / BH EMW(ppg)	/
Actual divided by AFE	0.68	LOT/FIT EMW(ppg)	
Daily Cost	62,533	Lithology	
		Formation/MD Top	

HSE Summary

Last Incident	Date	Days	Last Incident	Date	Days	KPI's	
LWC RWC MTC FAC Last casing pressure test	07/05/2017		PSI NII HPI GOAL ZERO DAYS PS BARRIER EVENT PS barrier bowtie review	09/29/2015	673	TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	5 5 13 2500
Safety Comments:							

HSE Drills

Drills/Tests	Date	Days Since Last		
Last Derrick Inspection	07/30/2017	3	JSA's/Toolbox Talks	12
Last BOP function test	07/18/2017	15	Days Since Last Drill	21
Last BOP Test	08/08/2017			
Next BOP Test				

Operations Summary

24 Hour Summary
SLIDE & DRLG F/ 13008' T/ 14873'
Update Since Report Time
SLIDE @ 15124'
24 Hour Forecast
DRLG LATERAL SECTION AS PER PLAN EST TD @ +/- 18350'

EP WELLS DAILY OPERATIONS REPORT

Report 22

08/02/2017

Well UNIVERSITY 19 J 0910H
Wellbore UNIVERSITY 19 J 0910H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	1.00	MNH1	DRL		13,038.00	0		SLIDE F/ 13008' T/ 13038' (30' @ 30 FPH) WOB: 28K RPM: SURF 0 MOTOR 217 BIT 217 PSI & FLOW: SPP 4480 GPM 275 DIFF 250-390 STRING WT: P/U 230 S/O 180 ROT 0 TORQUE: ON BTM 0 OFF BTM 0 MW: 13.3+ PPG MOTOR: .8 REV/GAL GAS: BG 550 CG 1500
1:00	2.00	MNH1	DRL		13,292.00	0		DRLG F/ 13038' T/ 13292' (254' @ 127 FPH) WOB: 30-33K RPM: SURF 80/95 MOTOR 217 BIT 297/312 PSI & FLOW: SPP 4480 GPM 272 DIFF 750-925 STRING WT: P/U 245 S/O 180 ROT 175 TORQUE: ON BTM 8-10 OFF BTM 4-5 MW: 13.3+ PPG MOTOR: .8 REV/GAL GAS: BG 500 CG 1500
3:00	1.00	MNH1	DRL		13,315.00	0		SLIDE F/ 13292' T/ 13315' (23' @ 23 FPH) WOB: 27K RPM: SURF 0 MOTOR 217 BIT 217 PSI & FLOW: SPP 4480 GPM 275 DIFF 250-390 STRING WT: P/U 245 S/O 180 ROT 0 TORQUE: ON BTM 0 OFF BTM 0 MW: 13.3+ PPG MOTOR: .8 REV/GAL GAS: BG 550 CG 1500
4:00	2.00	MNH1	DRL		13,481.00	0		DRLG F/ 13315' T/ 13481' (166' @ 83 FPH) WOB: 30-33K RPM: SURF 80/95 MOTOR 217 BIT 297/312 PSI & FLOW: SPP 4480 GPM 272 DIFF 750-925 STRING WT: P/U 245 S/O 180 ROT 175 TORQUE: ON BTM 8-10 OFF BTM 4-5 MW: 13.3+ PPG MOTOR: .8 REV/GAL GAS: BG 500 CG 1500
6:00	0.50	MNH1	DRL		13,500.00	0		SLIDE F/ 13481' T/ 13500' (19' @ 38 FPH) WOB: 20-25K RPM: SURF 0 MOTOR 217 BIT 217 PSI & FLOW: SPP 4480 GPM 275 DIFF 300-400 STRING WT: P/U 265 S/O 150 ROT 0 TORQUE: ON BTM 0 OFF BTM 0 MW: 13.3+ PPG MOTOR: .8 REV/GAL GAS: BG 550 CG 1500
6:30	1.50	MNH1	DRL		13,670.00	0		DRLG F/ 13500' T/ 13670' (170' @ 113 FPH) WOB: 30-33K RPM: SURF 80/105 MOTOR 217 BIT 297/322 PSI & FLOW: SPP 4480 GPM 272 DIFF 800-1000 STRING WT: P/U 265 S/O 180 ROT 175 TORQUE: ON BTM 8-10 OFF BTM 4-5 MW: 13.3+ PPG MOTOR: .8 REV/GAL GAS: BG 500 CG 1500
8:00	1.00	MNH1	DRL		13,716.00	0		SLIDE F/ 13670' T/ 13716' (46' @ 46 FPH) WOB: 8-12K RPM: SURF 0 MOTOR 234 BIT 234 PSI & FLOW: SPP 5300 GPM 293 DIFF 150-250 STRING WT: P/U 265 S/O 150 ROT 0 TORQUE: ON BTM 0 OFF BTM 0 MW: 13.3+ PPG MOTOR: .8 REV/GAL GAS: BG 550 CG 1500
9:00	0.50	MNH1	DRL		13,782.00	0		DRLG F/ 13716' T/ 13782' (66' @ 132 FPH) WOB: 30-33K RPM: SURF 110 MOTOR 243 BIT 353

EP WELLS DAILY OPERATIONS REPORT

Report 22

08/02/2017

Well UNIVERSITY 19 J 0910H
Wellbore UNIVERSITY 19 J 0910H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								PSI & FLOW: SPP 5500 GPM 304 DIFF 800-1000 STRING WT: P/U 265 S/O 180 ROT 175 TORQUE: ON BTM 10-12 OFF BTM 4-5 MW: 13.3+ PPG MOTOR: .8 REV/GAL GAS: BG 500 CG 1500
9:30	1.00	MNH1	DRL		13,817.00	0		SLIDE F/ 13782' T/ 13817' (35' @ 35 FPH) WOB: 15-20K RPM: SURF 0 MOTOR 243 BIT 243 PSI & FLOW: SPP 5500 GPM 304 DIFF 150-250 STRING WT: P/U 265 S/O 150 ROT 0 TORQUE: ON BTM 0 OFF BTM 0 MW: 13.3+ PPG MOTOR: .8 REV/GAL GAS: BG 550 CG 1500
10:30	3.00	MNH1	DRL		14,144.00	0		DRLG F/ 13817' T/ 14144' (327' @ 109 FPH) WOB: 30-33K RPM: SURF 80-115 MOTOR 243 BIT 323/358 PSI & FLOW: SPP 5575 GPM 304 DIFF 800-1000 STRING WT: P/U 265 S/O 180 ROT 175 TORQUE: ON BTM 10-12 OFF BTM 4-5 MW: 13.3+ PPG MOTOR: .8 REV/GAL GAS: BG 500 CG 1500
13:30	1.00	MNH1	DRL		14,169.00	0		SLIDE F/ 14144' T/ 14169' (25' @ 25 FPH) WOB: 15-20K RPM: SURF 0 MOTOR 243 BIT 243 PSI & FLOW: SPP 5500 GPM 304 DIFF 150-250 STRING WT: P/U 265 S/O 150 ROT 0 TORQUE: ON BTM 0 OFF BTM 0 MW: 13.3+ PPG MOTOR: .8 REV/GAL GAS: BG 550 CG 1500
14:30	2.50	MNH1	DRL		14,523.00	0		DRLG F/ 14169' T/ 14523' (354' @ 141 FPH) WOB: 30-33K RPM: SURF 80-115 MOTOR 243 BIT 323/358 PSI & FLOW: SPP 5575 GPM 304 DIFF 800-1000 STRING WT: P/U 265 S/O 150 ROT 175 TORQUE: ON BTM 10-12 OFF BTM 4-5 MW: 13.3+ PPG MOTOR: .8 REV/GAL GAS: BG 500 CG 1500
17:00	1.00	MNH1	DRL		14,556.00	0		SLIDE F/ 14523' T/ 14556' (33' @ 33 FPH) WOB: 15-20K RPM: SURF 0 MOTOR 243 BIT 243 PSI & FLOW: SPP 5500 GPM 304 DIFF 150-250 STRING WT: P/U 265 S/O 150 ROT 0 TORQUE: ON BTM 0 OFF BTM 0 MW: 13.3+ PPG MOTOR: .8 REV/GAL GAS: BG 550 CG 1500
18:00	0.50	MNH1	DRL		14,602.00	0		DRLG F/ 14556' T/ 14602' (46' @ 92 FPH) WOB: 30K RPM: SURF 80-100 MOTOR 243 BIT 323/343 PSI & FLOW: SPP 5575 GPM 304 DIFF 800-1000 STRING WT: P/U 265 S/O 150 ROT 175 TORQUE: ON BTM 10-12 OFF BTM 4-5 MW: 13.3+ PPG MOTOR: .8 REV/GAL GAS: BG 500 CG 1500
18:30	1.50	MNH1	DRL		14,712.00	0		DRLG F/ 14602' T/ 14712' (110' @ 73 FPH) WOB: 30K RPM: SURF 80-100 MOTOR 166 BIT 246/266 PSI & FLOW: SPP 4900 GPM 208 DIFF 750-800 STRING WT: P/U 265 S/O 150 ROT 175 TORQUE: ON BTM 10-12 OFF BTM 4-5 MW: 13.3+ PPG

EP WELLS DAILY OPERATIONS REPORT

Report 22

08/02/2017

Well UNIVERSITY 19 J 0910H
Wellbore UNIVERSITY 19 J 0910H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								MOTOR: .8 REV/GAL GAS: BG 500 CG 1500
20:00	2.00	MNH1	DRL		14,784.00	0		SLIDE F/ 14712' T/ 14784' (72' @ 36 FPH) WOB: 15-20K RPM: SURF 0 MOTOR 243 BIT 243 PSI & FLOW: SPP 5500 GPM 304 DIFF 150-250 STRING WT: P/U 265 S/O 150 ROT 0 TORQUE: ON BTM 0 OFF BTM 0 MW: 13.3+ PPG MOTOR: .8 REV/GAL GAS: BG 550 CG 1500
22:00	0.50	MNH1	DRL		14,806.00	0		DRLG F/ 14784' T/ 14806' (22' @ 44 FPH) WOB: 30K RPM: SURF 80-100 MOTOR 166 BIT 246/266 PSI & FLOW: SPP 4900 GPM 208 DIFF 750-800 STRING WT: P/U 265 S/O 150 ROT 175 TORQUE: ON BTM 10-12 OFF BTM 4-5 MW: 13.3+ PPG MOTOR: .8 REV/GAL GAS: BG 500 CG 1500
22:30	1.50	MNH1	DRL		14,873.00	0		SLIDE F/ 14806' T/ 14873' (67' @ 44 FPH) WOB: 15-20K RPM: SURF 0 MOTOR 243 BIT 243 PSI & FLOW: SPP 5500 GPM 304 DIFF 150-250 STRING WT: P/U 265 S/O 150 ROT 0 TORQUE: ON BTM 0 OFF BTM 0 MW: 13.3+ PPG MOTOR: .8 REV/GAL GAS: BG 550 CG 1500
Total	24.00							

Deepest 5 Surveys

MD (ft)	Inc. (°)	Azi. (°)	TVD (ft)	N/S (ft)	E/W (ft)	V.Sec (ft)	DLeg (°/100ft)	Tool
14,446.90	89.75	336.69	11,557.70	2,372.58	-402.27	2,391.74	3.18	PTW MWD+HDGM_2016
14,541.90	90.05	338.31	11,557.87	2,460.35	-438.63	2,486.12	1.73	PTW MWD+HDGM_2016
14,635.90	90.51	335.20	11,557.41	2,546.71	-475.72	2,579.35	3.34	PTW MWD+HDGM_2016
14,729.90	89.67	336.49	11,557.26	2,632.47	-514.18	2,672.39	1.64	PTW MWD+HDGM_2016
14,824.90	91.14	341.44	11,556.59	2,721.11	-548.27	2,766.98	5.44	PTW MWD+HDGM_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)	

Gas Concentrations and Fluid Losses

Avg Connection Gas (gas unit)	Avg. trip gas (gas unit)	Losses Last 24 Hours/Cumulative...	
Max. connection gas (gas unit)	Max. trip gas (gas unit)	Surface Losses (bbl)	/0.00
Avg. background gas (gas unit)	Avg H2S Gas (gas unit)	Sub Surface Losses (bbl)	/0.00
Max. background gas (gas unit)	Max H2S Gas (gas unit)	Total Losses	0.00/0.00
		End vol. (bbl)	0.00

EP WELLS DAILY OPERATIONS REPORT

Report 22

08/02/2017

Well UNIVERSITY 19 J 0910H
Wellbore UNIVERSITY 19 J 0910H

Bulks Summary

Product	Quantity Onboard	Units	Daily Usage
Diesel	-1,709.00		1,363.00

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
5	6.125	BAKER HUGHES	TD405FTX			7163896	5x16	11,847.00		-----

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" DP	305	9,609.17	4.000		3.340	XT-39			RIG
SHOCK SUB	1	11.18	5.125		2.750	XT-39			W1790523
110 JTS DRILL PIPE	110	3,465.00	5.000		2.750	XT-39			RIG
AGITATOR	1	22.15	5.125		2.750	XT-39			W1857344
50 JTS DRILL PIPE	50	1,575.00	5.000		2.750	XT-39			RIG
DOGLEG REAMER	1	4.28	5.250		2.750	XT-39			1234
3 JTS DRILL PIPE	3	94.60	5.000		2.750	XT-39			RIG
CROSSOVER SUB	1	1.95	5.250		2.750	XT-39			DR18060
FLOAT SUB	1	2.96	4.750		2.750	3-1/2 IF			NESFS4751 51
FILTER SUB	1	3.98	4.875		2.750	3-1/2 IF			DR39155
NON-MAG SLICK COLLAR	1	29.62	4.625		2.562	3-1/2 IF			NESNM4754 65
GAP SUB	1	3.58	5.000		2.750	3-1/2 IF			VG475056P TS
CENTRALIZER SUB	1	8.35	5.130		4.490	DS38			VC475024
LANDING SUB	1	3.42	5.000		3.780	DS38			VL475064
CROSSOVER SUB	1	1.64	5.000		2.750	DS38			VX475110
NON-MAG PONY COLLAR	1	9.63	5.250		2.375	DS38			PFC475002
4.75" PHOENIX 24X MUD MOTOR. LOBES: 6/7. STG: 6.4.	1	25.49	5.375			DS38			24XH51300 4
BIT #5 RUN #1 BAKER TD405FTX. 5X16's. SN: 7163896	1	1.00	6.125	6.125					7163896

Drillstring Details

Date/Time in	Date/Time out	BHA no.	BHA Length (ft)	Min. ID (in)	Purpose
07/31/2017 06:00		5	129.23		DRILL 6.125" PRODUCTION SECTION

PUMP/HYDRAULIC DATA

Pump No.	Type	Make/Model	Stroke (in)	Liner size (in)	Efficiency (%)	Pressure (psi)	SPM (spm)	Output (gpm)	Kill SPM/Pressure/Depth (spm/psi/ft)
1		GARDENER-DENVER / PZ-11-1600	11.00						
2		GARDENER-DENVER / PZ-11-1600	11.00						

EP WELLS DAILY OPERATIONS REPORT

Report 22 08/02/2017

Well UNIVERSITY 19 J 0910H
Wellbore UNIVERSITY 19 J 0910H

Remarks

FUEL ON LOCATION 19080 GAL
FUEL DELIVERED: 7615 GAL
FUEL USED RIG 3072 GALS
FUEL USED MUD 1363 GALS
FUEL ON HAND F/ MUD 2940 GALS

EP WELLS DAILY OPERATIONS REPORT

Report 23

08/03/2017

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 19 J 0910H
Wellbore	UNIVERSITY 19 J 0910H
WBS No/API No	30265148 / 4230133232.00

Event Summary

Event Type	Drilling only	Event Start Date	06/08/2017	Days on Location	21.33
Objective	Drill - Wolfcamp Beta	Original Spud Date	06/14/2017	Days Since Spud	15.68
Est. Days	21.00	Contractor	ENSIGN		
Work Unit	ENSIGN 775	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	TRAMPUS STEWART	Measured Depth(ft)	15,862.00
Engineer	BRANDON FOOTE	TVD(ft)	11,563.98
Other Supervisor	TREVOR KELLEY	24 Hr Progress(ft)	989.00
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,800.90 / 2,772.90	Hole size(in)	6.125
THF Datum			
Daily NPT(hr/%)	0/0	Last Casing MD	7.000in@11,837.00ft
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	4.500in@18,350.00ft
Actual cost to date/AFE	1,779,962/2,565,881.00	Current MW / BH EMW(ppg)	13.30/
Actual divided by AFE	0.69	LOT/FIT EMW(ppg)	
Daily Cost	44,295	Lithology	
		Formation/MD Top	

HSE Summary

Last Incident	Date	Days	Last Incident	Date	Days	KPI's	
LWC RWC MTC FAC Last casing pressure test	07/05/2017		PSI NII HPI GOAL ZERO DAYS PS BARRIER EVENT PS barrier bowtie review	09/29/2015	674	TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	2500
Safety Comments:							
284 MAN HOURS							

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	07/30/2017 07/18/2017 08/08/2017	4 16		

Operations Summary

24 Hour Summary
ROTARY & SLIDE DRILL F/14873' T/15862'
Update Since Report Time
DRILL T/15921'
24 Hour Forecast
CONT. DRILL LATERAL TOWARDS TD EST @ 18350'

EP WELLS DAILY OPERATIONS REPORT

Report 23

08/03/2017

Well UNIVERSITY 19 J 0910H
Wellbore UNIVERSITY 19 J 0910H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	2.00	MNH1	DRL		15,089.00	0		DRILL F/ 14873' T/15089' (216' @ 108 FPH) WOB: 31K RPM: SURF 100 MOTOR 224 BIT 324 PSI & FLOW: SPP 4875 GPM 280 DIFF 950-1000 STRING WT: P/U 265 S/O 150 ROT 175 TORQUE: ON BTM 12-13K OFF BTM 4-5K MW: 13.3+ PPG MOTOR: .8 REV/GAL GAS: BG 550 CG 1500
2:00	1.00	MNH1	CBU		15,089.00	0		PUMP 5 BBLs DIESEL, 20 BBLs WT SWEEP & PERFORM CLEAN UP CYCLE
3:00	0.50	MNH1	SVC		15,089.00	0		SERVICE RIG
3:30	1.50	MNH1	DRL		15,124.00	0		SLIDE F/ 15089' T/15124' (35' @ 23.3 FPH) WOB: 27K RPM: SURF MOTOR 224 BIT 224 PSI & FLOW: SPP 4904 GPM 280 DIFF 350 STRING WT: P/U 265 S/O 150 ROT TORQUE: ON BTM OFF BTM MW: 13.3+ PPG MOTOR: .8 REV/GAL GAS: BG 550 CG 1500
5:00	1.50	MNH1	DRL		15,278.00	0		DRILL F/ 15124' T/15278' (154' @ 102.7 FPH) WOB: 28-32K RPM: SURF 100 MOTOR 243 BIT 343 PSI & FLOW: SPP 5650 GPM 304 DIFF 800-1000 STRING WT: P/U 265 S/O 150 ROT 180 TORQUE: ON BTM 11-13K OFF BTM 5-6K MW: 13.3+ PPG MOTOR: .8 REV/GAL GAS: BG 550 CG 1500
6:30	2.00	MNH1	DRL		15,308.00	0		SLIDE F/ 15278' T/15308' (30' @ 15 FPH) WOB: 35-40K RPM: SURF MOTOR 243 BIT 243 PSI & FLOW: SPP 5650 GPM 304 DIFF 100-200 STRING WT: P/U 265 S/O 150 ROT TORQUE: ON BTM OFF BTM MW: 13.3+ PPG MOTOR: .8 REV/GAL GAS: BG 550 CG 1500
8:30	0.50	MNH1	DRL		15,373.00	0		DRILL F/ 15308' T/15373' (65' @ 130 FPH) WOB: 28-32K RPM: SURF 80 MOTOR 243 BIT 323 PSI & FLOW: SPP 5650 GPM 304 DIFF 800-1000 STRING WT: P/U 265 S/O 150 ROT 180 TORQUE: ON BTM 11-13K OFF BTM 5-6K MW: 13.3+ PPG MOTOR: .8 REV/GAL GAS: BG 550 CG 1500
9:00	2.00	MNH1	DRL		15,434.00	0		SLIDE F/ 15373' T/15434' (61' @ 30.5 FPH) WOB: 25-30K RPM: SURF MOTOR 220 BIT 220 PSI & FLOW: SPP 4730 GPM 275 DIFF 250-350 STRING WT: P/U 265 S/O 150 ROT TORQUE: ON BTM OFF BTM MW: 13.3+ PPG MOTOR: .8 REV/GAL GAS: BG 550 CG 1500
11:00	0.50	MNH1	DRL		15,467.00	0		DRILL F/ 15434' T/15467' (33' @ 66 FPH) WOB: 28-32K RPM: SURF 60 MOTOR 220 BIT 280 PSI & FLOW: SPP 4800 GPM 275 DIFF 800-1000 STRING WT: P/U 265 S/O 150 ROT 180 TORQUE: ON BTM 11-13K OFF BTM 5-6K MW: 13.4 PPG MOTOR: .8 REV/GAL

EP WELLS DAILY OPERATIONS REPORT

Report 23

08/03/2017

Well UNIVERSITY 19 J 0910H
Wellbore UNIVERSITY 19 J 0910H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								GAS: BG 550 CG 1500
11:30	5.00	MNH1	DRL		15,610.00	0		SLIDE F/ 15467' T/15610' (143' @ 28.6 FPH) WOB: 25-30K RPM: SURF MOTOR 220 BIT 220 PSI & FLOW: SPP 4850 GPM 275 DIFF 250-350 STRING WT: P/U 280 S/O 150 ROT TORQUE: ON BTM OFF BTM MW: 13.4 PPG MOTOR: .8 REV/GAL GAS: BG 1000 CG 5000
16:30	2.50	MNH1	DRL		15,750.00	0		DRILL F/ 15610' T/15750' (140' @ 56 FPH) WOB: 28-32K RPM: SURF 80 MOTOR 224 BIT 304 PSI & FLOW: SPP 4800 GPM 280 DIFF 800-1000 STRING WT: P/U 280 S/O 150 ROT 185 TORQUE: ON BTM 11-13K OFF BTM 5-6K MW: 13.4 PPG MOTOR: .8 REV/GAL GAS: BG 1000 CG 5000
19:00	5.00	MNH1	DRL		15,862.00	0		SLIDE F/ 15750' T/15862' (112' @ 22.4 FPH) WOB: 25-30K RPM: SURF MOTOR 220 BIT 220 PSI & FLOW: SPP 4950 GPM 275 DIFF 150-250 STRING WT: P/U 280 S/O 150 ROT TORQUE: ON BTM OFF BTM MW: 13.4 PPG MOTOR: .8 REV/GAL GAS: BG 1000 CG 5000
Total	24.00							

Deepest 5 Surveys

MD (ft)	Inc. (°)	Azi. (°)	TVD (ft)	N/S (ft)	E/W (ft)	V.Sec (ft)	DLeg (°/100ft)	Tool
15,391.90	89.47	358.17	11,558.59	3,271.74	-674.58	3,331.11	4.43	PTW MWD+HDGM_2016
15,485.90	88.85	354.48	11,559.97	3,365.52	-680.60	3,422.93	3.98	PTW MWD+HDGM_2016
15,580.90	89.44	346.44	11,561.39	3,459.12	-696.34	3,517.25	8.48	PTW MWD+HDGM_2016
15,674.90	90.60	354.51	11,561.36	3,551.74	-711.88	3,610.58	8.67	PTW MWD+HDGM_2016
15,768.90	89.04	359.73	11,561.65	3,645.59	-716.60	3,702.10	5.80	PTW MWD+HDGM_2016

Fluid Details

Mud type	Invermul	Oil/Water (%)	57.00/16.50	POM (cc)	
MD (ft)	15,682.00	TS/HGS/LGS (%)	24.70/16.90/7.80	CaCl2 (%)	
Mud Density (ppg)	13.30	Sand (%)	0.15	Caom/Clom (ppm)	
Vis (s/qt)	68.00	Oil/Water Ratio (%)	77.60/22.40	ACT	
PV/YP (cp/lbf/100ft ²)	27.00/10.000	LCM (lbm/bbl)		XS Lime(lbm/bbl)	2.33
Gels 10 s/m (lbf/100ft ²)	12.000/15.000	ECD (ppg)	14.830	ES (Volts)	404.0
API/HTHP WL (cc/30min)	/10.0	H2S (gas unit)		R600/300 (°)	
FC/HTHP FC (32nd")	/4.0	KCl (%)		R200/100 (°)	
WPS (ppm)	250,098			R6/3 (°)	
FL temp. (°F)		Ditch Magnet in Last 24hrs/Cum. (gm)			

Gas Concentrations and Fluid Losses

Avg Connection Gas (gas unit)	Avg. trip gas (gas unit)	Losses Last 24 Hours/Cumulative...	
Max. connection gas (gas unit)	Max. trip gas (gas unit)	Surface Losses (bbl)	/0.00
Avg. background gas (gas unit)	Avg H2S Gas (gas unit)	Sub Surface Losses (bbl)	/0.00
Max. background gas (gas unit)	Max H2S Gas (gas unit)	Total Losses	0.00/0.00
		End vol. (bbl)	0.00

EP WELLS DAILY OPERATIONS REPORT

Report 23

08/03/2017

Well UNIVERSITY 19 J 0910H
Wellbore UNIVERSITY 19 J 0910H

Bulks Summary

Product	Quantity Onboard	Units	Daily Usage
Diesel	-3,583.00		1,874.00

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
5	6.125	BAKER HUGHES	TD405FTX			7163896	5x16	11,847.00		-----

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)
15,089.00	31.0/31.0	100	280.0	4,875.00	99.64	2.04	16.27	2.00	216.00	108.0	46.50	3,266.00	70.2
15,124.00	27.0/27.0	0	280.0	4,904.00	99.64	2.03	16.27	1.50	35.00	23.3	48.00	3,301.00	68.8
15,278.00	28.0/32.0	100	304.0	5,650.00	117.45	2.08	20.83	1.50	154.00	102.7	49.50	3,455.00	69.8
15,308.00	35.0/40.0	0	304.0	5,650.00	117.45	2.08	20.83	2.00	30.00	15.0	51.50	3,485.00	67.7
15,373.00	28.0/32.0	80	304.0	5,650.00	117.45	2.08	20.83	0.50	65.00	130.0	52.00	3,550.00	68.3
15,434.00	25.0/30.0	0	275.0	4,730.00	96.11	2.03	15.42	2.00	61.00	30.5	54.00	3,611.00	66.9
15,467.00	28.0/32.0	60	275.0	4,800.00	96.83	2.02	15.53	0.50	33.00	66.0	54.50	3,644.00	66.9
15,610.00	25.0/30.0	0	275.0	4,850.00	96.83	2.00	15.53	5.00	143.00	28.6	59.50	3,787.00	63.6
15,750.00	28.0/32.0	80	280.0	4,800.00	100.39	2.09	16.40	2.50	140.00	56.0	62.00	3,927.00	63.3
15,862.00	25.0/30.0	0	275.0	4,950.00	96.83	1.96	15.53	5.00	112.00	22.4	67.00	4,039.00	60.3

Drillstring Components

Item description	# Jts	Length (ft)	OD (in)	Max OD (in)	ID (in)	Connection Name	Weight (ppf)	Grade	Serial no.
4" DP	336	10,598.17	4.000		3.340	XT-39			RIG
SHOCK SUB	1	11.18	5.125		2.750	XT-39			W1790523
110 JTS DRILL PIPE	110	3,465.00	5.000		2.750	XT-39			RIG
AGITATOR	1	22.15	5.125		2.750	XT-39			W1857344
50 JTS DRILL PIPE	50	1,575.00	5.000		2.750	XT-39			RIG
DOGLEG REAMER	1	4.28	5.250		2.750	XT-39			1234
3 JTS DRILL PIPE	3	94.60	5.000		2.750	XT-39			RIG
CROSSOVER SUB	1	1.95	5.250		2.750	XT-39			DR18060
FLOAT SUB	1	2.96	4.750		2.750	3-1/2 IF			NESFS4751 51
FILTER SUB	1	3.98	4.875		2.750	3-1/2 IF			DR39155
NON-MAG SLICK COLLAR	1	29.62	4.625		2.562	3-1/2 IF			NESNM4754 65
GAP SUB	1	3.58	5.000		2.750	3-1/2 IF			VG475056P TS
CENTRALIZER SUB	1	8.35	5.130		4.490	DS38			VC475024
LANDING SUB	1	3.42	5.000		3.780	DS38			VL475064
CROSSOVER SUB	1	1.64	5.000		2.750	DS38			VX475110
NON-MAG PONY COLLAR	1	9.63	5.250		2.375	DS38			PFC475002
4.75" PHOENIX 24X MUD MOTOR. LOBES: 6/7. STG: 6.4.	1	25.49	5.375			DS38			24XH51300 4
BIT #5 RUN #1 BAKER TD405FTX. 5X16's. SN: 7163896	1	1.00	6.125	6.125					7163896

EP WELLS DAILY OPERATIONS REPORT

Report 23

08/03/2017

Well UNIVERSITY 19 J 0910H
Wellbore UNIVERSITY 19 J 0910H

Drillstring Details

Date/Time in		Date/Time out		BHA no.	BHA Length (ft)	Min. ID (in)	Purpose
07/31/2017 06:00				5	129.23		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)
15,089.00	265.0	150.00	175.00	90.00	13,000.0	5,000.0	216.00
15,124.00	265.0	150.00	0.00	265.00	0.0	0.0	35.00
15,278.00	265.0	150.00	180.00	85.00	13,000.0	6,000.0	154.00
15,308.00	265.0	150.00	0.00	265.00	0.0	0.0	30.00
15,373.00	265.0	150.00	180.00	85.00	13,000.0	6,000.0	65.00
15,434.00	265.0	150.00	0.00	265.00	0.0	0.0	61.00
15,467.00	265.0	150.00	180.00	85.00	13,000.0	6,000.0	33.00
15,610.00	280.0	150.00	0.00	280.00	0.0	0.0	143.00
15,750.00	280.0	150.00	185.00	95.00	13,000.0	6,000.0	140.00
15,862.00	280.0	150.00	0.00	280.00	0.0	0.0	112.00

PUMP/HYDRAULIC DATA

Pump No.	Type	Make/Model	Stroke (in)	Liner size (in)	Efficiency (%)	Pressure (psi)	SPM (spm)	Output (gpm)	Kill SPM/Pressure/Depth (spm/psi/ft)
1		GARDENER-DENVER / PZ-11-1600	11.00						
2		GARDENER-DENVER / PZ-11-1600	11.00						

Remarks

FUEL ON LOCATION: 14628 GAL
FUEL USED (PITS): 1874 GAL
FUEL USED (RIG): 4452 GAL

EP WELLS DAILY OPERATIONS REPORT

Report 24

08/04/2017

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 19 J 0910H
Wellbore	UNIVERSITY 19 J 0910H
WBS No/API No	30265148 / 4230133232.00

Event Summary

Event Type	Drilling only	Event Start Date	06/08/2017	Days on Location	22.33
Objective	Drill - Wolfcamp Beta	Original Spud Date	06/14/2017	Days Since Spud	16.68
Est. Days	21.00	Contractor	ENSIGN		
Work Unit	ENSIGN 775	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	TRAMPUS STEWART	Measured Depth(ft)	16,609.00
Engineer	BRANDON FOOTE	TVD(ft)	11,548.89
Other Supervisor	TREVOR KELLEY	24 Hr Progress(ft)	747.00
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,800.90 / 2,772.90	Hole size(in)	6.125
THF Datum			
Daily NPT(hr/%)	1.50/6.25	Last Casing MD	7.000in@11,837.00ft
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	4.500in@18,350.00ft
Actual cost to date/AFE	1,836,185/2,565,881.00	Current MW / BH EMW(ppg)	/
Actual divided by AFE	0.72	LOT/FIT EMW(ppg)	
Daily Cost	56,223	Lithology	
		Formation/MD Top	

HSE Summary

Last Incident	Date	Days	Last Incident	Date	Days	KPI's	
LWC RWC MTC FAC Last casing pressure test	07/05/2017		PSI NII HPI GOAL ZERO DAYS PS BARRIER EVENT PS barrier bowtie review	09/29/2015	675	TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	5 5 2500
Safety Comments:							
258 MAN HOURS							

HSE Drills

Drills/Tests	Date	Days Since Last	JSA's/Toolbox Talks Days Since Last Drill	11 23
Last Derrick Inspection Last BOP function test Last BOP Test Next BOP Test	07/30/2017 07/18/2017 08/08/2017	5 17		

Operations Summary

24 Hour Summary
ROTATE & SLIDE DRILL F/15,862' T/16,609'
Update Since Report Time
DRILL T/16,671'
24 Hour Forecast
CONT. DRILL LATERAL TOWARDS TD EST @ 18350'

EP WELLS DAILY OPERATIONS REPORT

Report 24

08/04/2017

Well UNIVERSITY 19 J 0910H
Wellbore UNIVERSITY 19 J 0910H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	5.00	MNH1	DRL		15,921.00	0		SLIDE F/ 15862' T/15921' (59' @ 11.8 FPH) WOB: 25-30K RPM: SURF MOTOR 220 BIT 220 PSI & FLOW: SPP 4950 GPM 275 DIFF 150-250 STRING WT: P/U 280 S/O 150 ROT TORQUE: ON BTM OFF BTM MW: 13.4 PPG MOTOR: .8 REV/GAL GAS: BG 500 CG 5000
5:00	1.50	MNH1	NOA		15,921.00	1		NPT: C/O ENCODER ON TOP DRIVE & TEST
6:30	3.50	MNH1	DRL		16,002.00	0		SLIDE F/ 15921' T/16002' (81' @ 23.1 FPH) WOB: 25-35K RPM: SURF MOTOR 220 BIT 220 PSI & FLOW: SPP 4950 GPM 275 DIFF 150-250 STRING WT: P/U 280 S/O 150 ROT TORQUE: ON BTM OFF BTM MW: 13.4 PPG MOTOR: .8 REV/GAL GAS: BG 500 CG 5000
10:00	2.00	MNH1	DRL		16,127.00	0		DRILL F/ 16002' T/16127' (125' @ 62.5 FPH) WOB: 20-32K RPM: SURF 120 MOTOR 240 BIT 360 PSI & FLOW: SPP 5550 GPM 300 DIFF 550-600 STRING WT: P/U 290 S/O 150 ROT 185 TORQUE: ON BTM 10-12 OFF BTM 5-6 MW: 13.4 PPG MOTOR: .8 REV/GAL GAS: BG 500 CG 5000
12:00	2.50	MNH1	DRL		16,151.00	0		SLIDE F/ 16127' T/16151' (24' @ 9.6 FPH) WOB: 30-40K RPM: SURF MOTOR 226 BIT 226 PSI & FLOW: SPP 5000 GPM 283 DIFF 200-400 STRING WT: P/U 290 S/O 150 ROT TORQUE: ON BTM OFF BTM MW: 13.4 PPG MOTOR: .8 REV/GAL GAS: BG 500 CG 5000
14:30	1.50	MNH1	DRL		16,233.00	0		DRILL F/ 16151' T/16233' (82' @ 54.7 FPH) WOB: 20-32K RPM: SURF 120 MOTOR 226 BIT 346 PSI & FLOW: SPP 5000 GPM 283 DIFF 550-600 STRING WT: P/U 290 S/O 150 ROT 185 TORQUE: ON BTM 10-12 OFF BTM 5-6 MW: 13.4 PPG MOTOR: .8 REV/GAL GAS: BG 500 CG 5000
16:00	2.50	MNH1	DRL		16,276.00	0		SLIDE F/ 16233' T/16276' (43' @ 17.2 FPH) WOB: 25-27K RPM: SURF MOTOR 220 BIT 220 PSI & FLOW: SPP 4825 GPM 275 DIFF 300-350 STRING WT: P/U 290 S/O 150 ROT TORQUE: ON BTM OFF BTM MW: 13.4 PPG MOTOR: .8 REV/GAL GAS: BG 500 CG 5000
18:30	0.50	MNH1	DRL		16,302.00	0		DRILL F/ 16276' T/16302' (26' @ 52 FPH) WOB: 25-27K RPM: SURF 120 MOTOR 220 BIT 340 PSI & FLOW: SPP 4825 GPM 275 DIFF 450-600 STRING WT: P/U 290 S/O 150 ROT 185 TORQUE: ON BTM 9-10 OFF BTM 5-6 MW: 13.4 PPG MOTOR: .8 REV/GAL GAS: BG 500 CG 5000
19:00	4.00	MNH1	DRL		16,601.00	0		DRILL F/ 16302' T/16601' (299' @ 74.8 FPH)

EP WELLS DAILY OPERATIONS REPORT

Report 24

08/04/2017

Well UNIVERSITY 19 J 0910H
Wellbore UNIVERSITY 19 J 0910H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								WOB: 17-22K RPM: SURF 120 MOTOR 226 BIT 346 PSI & FLOW: SPP 5260 GPM 283 DIFF 450-600 STRING WT: P/U 290 S/O 150 ROT 185 TORQUE: ON BTM 9-10 OFF BTM 5-6 MW: 13.4 PPG MOTOR: .8 REV/GAL GAS: BG 500 CG 5000
23:00	1.00	MNH1	DRL		16,609.00	0		SLIDE F/ 16601' T/16609' (8' @ 8 FPH) WOB: 25-27K RPM: SURF MOTOR 220 BIT 220 PSI & FLOW: SPP 4825 GPM 275 DIFF 300-350 STRING WT: P/U 290 S/O 150 ROT TORQUE: ON BTM OFF BTM MW: 13.4 PPG MOTOR: .8 REV/GAL GAS: BG 500 CG 5000
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
08/04/2017 05:00	ENSIGN UNITED STATES DRILLING INC	Rig/Work Unit Misc	15,921.00	NOA	EN	Top Drive/Power Swivel	1.50	1.50		OPEN
Description: C/O ENCODER ON TOP DRIVE & TEST						Title: C/O ENCODER ON TOP DRIVE & TEST				
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
16,146.90	93.44	344.56	11,550.11	4,015.32	-784.61	4,076.29	1.38	PTW MWD+HDGM_2016
16,241.90	91.43	343.53	11,546.08	4,106.57	-810.71	4,171.20	2.38	PTW MWD+HDGM_2016
16,336.90	89.12	342.28	11,545.62	4,197.37	-838.63	4,266.17	2.76	PTW MWD+HDGM_2016
16,430.90	88.97	342.54	11,547.19	4,286.96	-867.03	4,360.12	0.32	PTW MWD+HDGM_2016
16,478.90	89.88	346.74	11,547.67	4,333.23	-879.74	4,408.10	8.95	PTW MWD+HDGM_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)	

Gas Concentrations and Fluid Losses

Avg Connection Gas (gas unit)	Avg. trip gas (gas unit)	Losses Last 24 Hours/Cumulative...	
Max. connection gas (gas unit)	Max. trip gas (gas unit)	Surface Losses (bbl)	/0.00
Avg. background gas (gas unit)	Avg H2S Gas (gas unit)	Sub Surface Losses (bbl)	/0.00
Max. background gas (gas unit)	Max H2S Gas (gas unit)	Total Losses	0.00/0.00
		End vol. (bbl)	0.00

EP WELLS DAILY OPERATIONS REPORT

Report 24

08/04/2017

Well UNIVERSITY 19 J 0910H
Wellbore UNIVERSITY 19 J 0910H

Bulks Summary

Product	Quantity Onboard	Units	Daily Usage
Diesel	-5,183.00		1,600.00

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
5	6.125	BAKER HUGHES	TD405FTX			7163896	5x16	11,847.00		-----

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" DP	360	11,345.17	4.000		3.340	XT-39			RIG
SHOCK SUB	1	11.18	5.125		2.750	XT-39			W1790523
110 JTS DRILL PIPE	110	3,465.00	5.000		2.750	XT-39			RIG
AGITATOR	1	22.15	5.125		2.750	XT-39			W1857344
50 JTS DRILL PIPE	50	1,575.00	5.000		2.750	XT-39			RIG
DOGLEG REAMER	1	4.28	5.250		2.750	XT-39			1234
3 JTS DRILL PIPE	3	94.60	5.000		2.750	XT-39			RIG
CROSSOVER SUB	1	1.95	5.250		2.750	XT-39			DR18060
FLOAT SUB	1	2.96	4.750		2.750	3-1/2 IF			NESFS4751 51
FILTER SUB	1	3.98	4.875		2.750	3-1/2 IF			DR39155
NON-MAG SLICK COLLAR	1	29.62	4.625		2.562	3-1/2 IF			NESNM4754 65
GAP SUB	1	3.58	5.000		2.750	3-1/2 IF			VG475056P TS
CENTRALIZER SUB	1	8.35	5.130		4.490	DS38			VC475024
LANDING SUB	1	3.42	5.000		3.780	DS38			VL475064
CROSSOVER SUB	1	1.64	5.000		2.750	DS38			VX475110
NON-MAG PONY COLLAR	1	9.63	5.250		2.375	DS38			PFC475002
4.75" PHOENIX 24X MUD MOTOR. LOBES: 6/7. STG: 6.4.	1	25.49	5.375			DS38			24XH51300 4
BIT #5 RUN #1 BAKER TD405FTX. 5X16's. SN: 7163896	1	1.00	6.125	6.125					7163896

Drillstring Details

Date/Time in	Date/Time out	BHA no.	BHA Length (ft)	Min. ID (in)	Purpose
07/31/2017 06:00		5	129.23		DRILL 6.125" PRODUCTION SECTION

PUMP/HYDRAULIC DATA

Pump No.	Type	Make/Model	Stroke (in)	Liner size (in)	Efficiency (%)	Pressure (psi)	SPM (spm)	Output (gpm)	Kill SPM/Pressure/Depth (spm/psi/ft)
1		GARDENER-DENVER / PZ-11-1600	11.00						
2		GARDENER-DENVER / PZ-11-1600	11.00						

EP WELLS DAILY OPERATIONS REPORT

Report 24 08/04/2017

Well UNIVERSITY 19 J 0910H
Wellbore UNIVERSITY 19 J 0910H

Remarks

FUEL ON LOCATION: 18020 GAL
FUEL USED (PITS): 1600 GAL
FUEL USED (RIG): 3180 GAL
FUEL DELIVERED: 7000 GAL

EP WELLS DAILY OPERATIONS REPORT

Report 25

08/05/2017

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 19 J 0910H
Wellbore	UNIVERSITY 19 J 0910H
WBS No/API No	30265148 / 4230133232.00

Event Summary

Event Type	Drilling only	Event Start Date	06/08/2017	Days on Location	23.33
Objective	Drill - Wolfcamp Beta	Original Spud Date	06/14/2017	Days Since Spud	17.68
Est. Days	21.00	Contractor	ENSIGN		
Work Unit	ENSIGN 775	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	TRAMPUS STEWART	Measured Depth(ft)	17,620.00
Engineer	BRANDON FOOTE	TVD(ft)	11,562.85
Other Supervisor	TREVOR KELLEY	24 Hr Progress(ft)	1,011.00
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,800.90 / 2,772.90	Hole size(in)	6.125
THF Datum			
Daily NPT(hr/%)	0/0	Last Casing MD	7.000in@11,837.00ft
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	4.500in@18,350.00ft
Actual cost to date/AFE	1,904,512/2,565,881.00	Current MW / BH EMW(ppg)	/
Actual divided by AFE	0.74	LOT/FIT EMW(ppg)	
Daily Cost	68,327	Lithology	
		Formation/MD Top	

HSE Summary

Last Incident	Date	Days	Last Incident	Date	Days	KPI's	
LWC RWC MTC FAC Last casing pressure test	07/05/2017		PSI NII HPI GOAL ZERO DAYS PS BARRIER EVENT PS barrier bowtie review	09/29/2015	676	TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	6 5 2500
Safety Comments:							
248 MAN HOURS							

HSE Drills

Drills/Tests	Date	Days Since Last	JSA's/Toolbox Talks Days Since Last Drill	13 24
Last Derrick Inspection	07/30/2017	6		
Last BOP function test	07/18/2017	18		
Last BOP Test	08/08/2017			
Next BOP Test				

Operations Summary

24 Hour Summary
ROTATE & SLIDE DRILL F/16,609' T/17,620'
Update Since Report Time
DRILL T/17,655'
24 Hour Forecast
DRILL TO TD @ 18590'. CIRC. POOH.

EP WELLS DAILY OPERATIONS REPORT

Report 25

08/05/2017

Well UNIVERSITY 19 J 0910H
Wellbore UNIVERSITY 19 J 0910H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	5.00	MNH1	DRL		16,725.00	0		SLIDE F/ 16609' T/16725' (116' @ 23.2 FPH) WOB: 25-27K RPM: SURF MOTOR 220 BIT 220 PSI & FLOW: SPP 4825 GPM 275 DIFF 300-350 STRING WT: P/U 290 S/O 150 ROT TORQUE: ON BTM OFF BTM MW: 13.4 PPG MOTOR: .8 REV/GAL GAS: BG 500 CG 5000
5:00	1.00	MNH1	DRL		16,774.00	0		ROTATE F/ 16725' T/16774' (49' @ 49 FPH) WOB: 17-18K RPM: SURF 120 MOTOR 226 BIT 246 PSI & FLOW: SPP 4825 GPM 283 DIFF 450-600 STRING WT: P/U 295 S/O 150 ROT 185 TORQUE: ON BTM 9-10K OFF BTM 5-6K MW: 13.4 PPG MOTOR: .8 REV/GAL GAS: BG 500 CG 5000
6:00	5.50	MNH1	DRL		16,841.00	0		SLIDE F/ 16774' T/16841' (67' @ 12.2 FPH) WOB: 25-35K RPM: SURF MOTOR 226 BIT 226 PSI & FLOW: SPP 5150 GPM 283 DIFF 200-400 STRING WT: P/U 295 S/O 150 ROT TORQUE: ON BTM OFF BTM MW: 13.4 PPG MOTOR: .8 REV/GAL GAS: BG 500 CG 5000
11:30	2.50	MNH1	DRL		16,964.00	0		ROTATE F/ 16841' T/16964' (123' @ 49.2 FPH) WOB: 22-25K RPM: SURF 120 MOTOR 226 BIT 246 PSI & FLOW: SPP 5280 GPM 283 DIFF 550-650 STRING WT: P/U 295 S/O 150 ROT 185 TORQUE: ON BTM 11-12K OFF BTM 5-6K MW: 13.4 PPG MOTOR: .8 REV/GAL GAS: BG 500 CG 5000
14:00	0.50	MNH1	SVC		16,964.00	0		LUBRICATE RIG
14:30	9.50	MNH1	DRL		17,620.00	0		ROTATE F/ 16964' T/17620' (656' @ 69.1 FPH) WOB: 17-22K RPM: SURF 120 MOTOR 226 BIT 246 PSI & FLOW: SPP 5280 GPM 283 DIFF 550-650 STRING WT: P/U 295 S/O 150 ROT 185 TORQUE: ON BTM 11-12K OFF BTM 5-6K MW: 13.4 PPG MOTOR: .8 REV/GAL GAS: BG 500 CG 5000
Total	24.00							

Deepest 5 Surveys

MD (ft)	Inc. (°)	Azi. (°)	TVD (ft)	N/S (ft)	E/W (ft)	V.Sec (ft)	DLeg (°/100ft)	Tool
17,186.90	89.20	339.14	11,563.65	4,999.90	-1,111.71	5,112.86	2.80	PTW MWD+HDGM_2016
17,234.90	90.47	340.40	11,563.79	5,044.94	-1,128.31	5,160.72	3.73	PTW MWD+HDGM_2016
17,374.90	90.56	342.37	11,562.53	5,177.60	-1,172.99	5,300.56	1.41	PTW MWD+HDGM_2016
17,469.90	89.70	344.72	11,562.31	5,268.70	-1,199.90	5,395.55	2.63	PTW MWD+HDGM_2016
17,563.90	89.82	347.29	11,562.71	5,359.90	-1,222.63	5,489.48	2.74	PTW MWD+HDGM_2016

EP WELLS DAILY OPERATIONS REPORT

Report 25

08/05/2017

Well UNIVERSITY 19 J 0910H
Wellbore UNIVERSITY 19 J 0910H

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/100ft ²)		LCM (lbm/bbl)	XS Lime(lbm/bbl)
Gels 10 s/m (lbf/100ft ²)		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)	

Gas Concentrations and Fluid Losses

Avg Connection Gas (gas unit)	Avg. trip gas (gas unit)	Losses Last 24 Hours/Cumulative...
Max. connection gas (gas unit)	Max. trip gas (gas unit)	Surface Losses (bbl) /0.00
Avg. background gas (gas unit)	Avg H2S Gas (gas unit)	Sub Surface Losses (bbl) /0.00
Max. background gas (gas unit)	Max H2S Gas (gas unit)	Total Losses 0.00/0.00
		End vol. (bbl) 0.00

Bulks Summary

Product	Quantity Onboard	Units	Daily Usage
Diesel	-6,683.00		1,500.00

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
5	6.125	BAKER HUGHES	TD405FTX			7163896	5x16	11,847.00		-----

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" DP	392	12,356.17	4.000		3.340	XT-39			RIG
SHOCK SUB	1	11.18	5.125		2.750	XT-39			W1790523
110 JTS DRILL PIPE	110	3,465.00	5.000		2.750	XT-39			RIG
AGITATOR	1	22.15	5.125		2.750	XT-39			W1857344
50 JTS DRILL PIPE	50	1,575.00	5.000		2.750	XT-39			RIG
DOGLEG REAMER	1	4.28	5.250		2.750	XT-39			1234
3 JTS DRILL PIPE	3	94.60	5.000		2.750	XT-39			RIG
CROSSOVER SUB	1	1.95	5.250		2.750	XT-39			DR18060
FLOAT SUB	1	2.96	4.750		2.750	3-1/2 IF			NESFS475151
FILTER SUB	1	3.98	4.875		2.750	3-1/2 IF			DR39155
NON-MAG SLICK COLLAR	1	29.62	4.625		2.562	3-1/2 IF			NESNM475465
GAP SUB	1	3.58	5.000		2.750	3-1/2 IF			VG475056P TS
CENTRALIZER SUB	1	8.35	5.130		4.490	DS38			VC475024

EP WELLS DAILY OPERATIONS REPORT

Report 25

08/05/2017

Well UNIVERSITY 19 J 0910H
Wellbore UNIVERSITY 19 J 0910H

Drillstring Components

Item description	# Jts	Length (ft)	OD (in)	Max OD (in)	ID (in)	Connection Name	Weight (ppf)	Grade	Serial no.
LANDING SUB	1	3.42	5.000		3.780	DS38			VL475064
CROSSOVER SUB	1	1.64	5.000		2.750	DS38			VX475110
NON-MAG PONY COLLAR	1	9.63	5.250		2.375	DS38			PFC475002
4.75" PHOENIX 24X MUD MOTOR. LOBES: 6/7. STG: 6.4.	1	25.49	5.375			DS38			24XH51300 4
BIT #5 RUN #1 BAKER TD405FTX. 5X16's. SN: 7163896	1	1.00	6.125	6.125					7163896

Drillstring Details

Date/Time in	Date/Time out	BHA no.	BHA Length (ft)	Min. ID (in)	Purpose
07/31/2017 06:00		5	129.23		DRILL 6.125" PRODUCTION SECTION

PUMP/HYDRAULIC DATA

Pump No.	Type	Make/Model	Stroke (in)	Liner size (in)	Efficiency (%)	Pressure (psi)	SPM (spm)	Output (gpm)	Kill SPM/Pressure/Depth (spm/psi/ft)
1		GARDENER-DENVER / PZ-11-1600	11.00						
2		GARDENER-DENVER / PZ-11-1600	11.00						

Remarks

FUEL ON LOCATION: 19080 GAL
FUEL USED (PITS): 1500 GAL
FUEL USED (RIG): 4452 GAL
FUEL DELIVERED: 7500 GAL

EP WELLS DAILY OPERATIONS REPORT

Report 27

08/07/2017

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 19 J 0910H
Wellbore	UNIVERSITY 19 J 0910H
WBS No/API No	30265148 / 4230133232.00

Event Summary

Event Type	Drilling only	Event Start Date	06/08/2017	Days on Location	25.33
Objective	Drill - Wolfcamp Beta	Original Spud Date	06/14/2017	Days Since Spud	19.68
Est. Days	21.00	Contractor	ENSIGN		
Work Unit	ENSIGN 775	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	TRAMPUS STEWART	Measured Depth(ft)	17,955.00
Engineer	BRANDON FOOTE	TVD(ft)	11,572.18
Other Supervisor	TREVOR KELLEY	24 Hr Progress(ft)	
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,800.90 / 2,772.90	Hole size(in)	6.125
THF Datum			
Daily NPT(hr/%)	24.00/100.00	Last Casing MD	7.000in@11,837.00ft
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	4.500in@18,350.00ft
Actual cost to date/AFE	2,006,130/2,565,881.00	Current MW / BH EMW(ppg)	/
Actual divided by AFE	0.78	LOT/FIT EMW(ppg)	
Daily Cost	43,653	Lithology	
		Formation/MD Top	

HSE Summary

Last Incident	Date	Days	Last Incident	Date	Days	KPI's	
LWC RWC MTC FAC Last casing pressure test	07/05/2017		PSI NII HPI GOAL ZERO DAYS PS BARRIER EVENT PS barrier bowtie review	09/29/2015	678	TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	5 6 2500
Safety Comments:							
240 MAN HOURS							

HSE Drills

Drills/Tests	Date	Days Since Last	JSA's/Toolbox Talks Days Since Last Drill	15 26
Last Derrick Inspection	08/08/2017	1		
Last BOP function test	08/08/2017	1		
Last BOP Test	08/08/2017			
Next BOP Test	08/29/2017			

Operations Summary

24 Hour Summary
POOH & L/D BHA. CSG PRESS @ 200 PSI. TIH T/ 11777'. CIRC B/U. POOH T/ 11113'. SPOT 90 BBL PILL. POOH. TEST BOPS. R/D TESTERS & CLEAN FLOOR.
Update Since Report Time
PJSM & P/U BHA. TIH T/1185'.
24 Hour Forecast
TIH. BEGIN DRILLING OPENHOLE SIDETRACK.

EP WELLS DAILY OPERATIONS REPORT

Report 27

08/07/2017

Well UNIVERSITY 19 J 0910H
Wellbore UNIVERSITY 19 J 0910H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	2.50	MNH1	TOH		17,955.00	1		POOH F/11750' T/5307'
2:30	0.50	MNH1	TOH		17,955.00	1		REMOVE ROT HEAD & INSTALL TRIP NIPPLE
3:00	2.00	MNH1	TOH		17,955.00	1		POOH F/5307' T/91'
5:00	1.50	MNH1	BHA		17,955.00	1		PJSM FOR DIR BHA L/D BHA
6:30	1.00	MNH1	BHA		17,955.00	1		CSG PRESS OBSERVED AT 200PSI M/U BIT, BIT SUB, X-O, SLICK COLLAR, FILTER & FLOAT SUB. REMOVE TRIP NIPPLE. PJSM W/ CREW & BLEED OF CSG PRESS
7:30	3.50	MNH1	TIH		17,955.00	1		TIH T/10165'. FILL EVERY 25 STDS. MONITOR WELL EVERY STD.
11:00	0.50	MNH1	TIH		17,955.00	1		INSTALL ROT HEAD
11:30	0.50	MNH1	TIH		17,955.00	1		TIH F/10165' T/11777'
12:00	1.00	MNH1	CDM		17,955.00	1		CIRC B/U THRU VENTLINE. NO FLARE.
13:00	0.50	MNH1	TOH		17,955.00	1		POOH F/11777' T/11113'
13:30	0.50	MNH1	TOH		17,955.00	1		SPOT 90 BBL PILL
14:00	1.00	MNH1	TOH		17,955.00	1		POOH F/11113' T/8555'
15:00	1.00	MNH1	CDM		17,955.00	1		CIRC B/U FLOW CHECK. PUMP SLUG
16:00	3.00	MNH1	TOH		17,955.00	1		POOH F/2627' T/BHA
19:00	1.00	MNH1	BHA		17,955.00	1		B/O BIT, L/D BHA
20:00	1.00	MNH1	RUP		17,955.00	1		PJSM W/ CAMERON & FRONTIER. R/U SAME.
21:00	2.00	MNH1	RUP		17,955.00	1		TEST BOPS TEST #1: TEST HYDRILL T/3500 PSI HIGH/250 LOW TEST #2 TOP PIPE RAMS K4, K3, C10, C7, C3, C5, S6 T/10000 PSI HIGH 250 PSI LOW TEST #3 TOP RAMS K2, C6, C4, C8, S7 T/10000 PSI HIGH 250 PSI LOW TEST #4 TOP RAMS C2, K1, S8, GV1 T/10000 PSI HIGH 250 PSI LOW TEST #5 BTM RAMS T/10000 PSI HIGH 250 PSI LOW TEST #6 BLIND RAM C1, K1, S9 T/10000 PSI HIGH 250 PSI LOW
23:00	1.00	MNH1	CDM		17,955.00	1		R/D BOP TESTERS & CLEAN FLOOR
Total	24.00							

Deepest 5 Surveys

MD (ft)	Inc. (°)	Azi. (°)	TVD (ft)	N/S (ft)	E/W (ft)	V.Sec (ft)	DLeg (°/100ft)	Tool
17,469.90	89.70	344.72	11,563.74	5,270.73	-1,194.96	5,396.14	2.63	PTW MWD+HDGM_2016
17,563.90	89.82	347.29	11,564.14	5,361.93	-1,217.69	5,490.08	2.74	PTW MWD+HDGM_2016
17,658.90	89.47	347.52	11,564.72	5,454.65	-1,238.40	5,584.91	0.44	PTW MWD+HDGM_2016
17,783.90	88.14	343.71	11,567.33	5,575.68	-1,269.45	5,709.81	3.23	PTW MWD+HDGM_2016
17,846.90	88.43	344.41	11,569.22	5,636.23	-1,286.74	5,772.78	1.20	PTW MWD+HDGM_2016

EP WELLS DAILY OPERATIONS REPORT

Report 27

08/07/2017

Well UNIVERSITY 19 J 0910H
Wellbore UNIVERSITY 19 J 0910H

Fluid Details

Mud type	Invermul	Oil/Water (%)	59.00/14.00	POM (cc)	2.59 456.0
MD (ft)	17,955.00	TS/HGS/LGS (%)	25.30/17.60/7.60	CaCl2 (%)	
Mud Density (ppg)		Sand (%)	0.15	Caom/Clom (ppm)	
Vis (s/qt)		Oil/Water Ratio (%)	80.80/19.20	ACT	
PV/YP (cp/lbf/100ft²)		LCM (lbm/bbl)		XS Lime(lbm/bbl)	
Gels 10 s/m (lbf/100ft²)	8.000/12.000	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)	278,076	Ditch Magnet in Last 24hrs/Cum. (gm)		R6/3 (°)	
FL temp. (°F)					

Gas Concentrations and Fluid Losses

Avg Connection Gas (gas unit)	Avg. trip gas (gas unit)	Losses Last 24 Hours/Cumulative...	
Max. connection gas (gas unit)	Max. trip gas (gas unit)	Surface Losses (bbl)	/0.00
Avg. background gas (gas unit)	Avg H2S Gas (gas unit)	Sub Surface Losses (bbl)	/0.00
Max. background gas (gas unit)	Max H2S Gas (gas unit)	Total Losses	0.00/0.00
		End vol. (bbl)	0.00

Bulks Summary

Product	Quantity Onboard	Units	Daily Usage
Diesel	-7,816.00		

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
	6.125	BAKER HUGHES	TD405FTX			5271885	5x16	17,955.00	17,955.00	-----

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" DP	403	12,691.17	4.000		3.340	XT-39			RIG
SHOCK SUB	1	11.18	5.125		2.750	XT-39			W1790523
110 JTS DRILL PIPE	110	3,465.00	5.000		2.750	XT-39			RIG
AGITATOR	1	22.15	5.125		2.750	XT-39			W1857344
50 JTS DRILL PIPE	50	1,575.00	5.000		2.750	XT-39			RIG
DOGLEG REAMER	1	4.28	5.250		2.750	XT-39			A196861
3 JTS DRILL PIPE	3	94.60	5.000		2.750	XT-39			RIG
CROSSOVER SUB	1	1.95	5.250		2.750	XT-39			DR18060
FLOAT SUB	1	2.96	4.750		2.750	3-1/2 IF			NESFS475151
FILTER SUB	1	3.98	4.875		2.750	3-1/2 IF			DR39155
NON-MAG SLICK COLLAR	1	29.62	4.625		2.562	3-1/2 IF			NESNM475465
GAP SUB	1	3.58	5.000		2.750	3-1/2 IF			VG475074PTS
CENTRALIZER SUB	1	8.35	5.130		4.490	DS38			VC475022

EP WELLS DAILY OPERATIONS REPORT

Report 27

08/07/2017

Well UNIVERSITY 19 J 0910H
Wellbore UNIVERSITY 19 J 0910H

Drillstring Components

Item description	# Jts	Length (ft)	OD (in)	Max OD (in)	ID (in)	Connection Name	Weight (ppf)	Grade	Serial no.
LANDING SUB	1	3.42	5.000		3.780	DS38			VL475063
CROSSOVER SUB	1	1.64	5.000		2.750	DS38			VX475115
NON-MAG PONY COLLAR	1	9.63	5.250		2.375	DS38			PFC475002
Mud Motor 500 NOV 513	1	25.49	5.375			DS38			24XH51300 4-PTS
BIT #6 RUN #1 BAKER DD405T 5X16's. SN: 5271885	1	1.00	6.125	6.125					5271885

Drillstring Details

Date/Time in	Date/Time out	BHA no.	BHA Length (ft)	Min. ID (in)	Purpose
08/07/2017 06:30	08/07/2017 20:00	6	129.23		DRILL 6.125" PRODUCTION HOLE

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	BAKER HUGHES	TD405FTX			7163896	5x16	11,847.00	17,955.00	-----

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" DP	403	12,691.17	4.000		3.340	XT-39			RIG
SHOCK SUB	1	11.18	5.125		2.750	XT-39			W1790523
110 JTS DRILL PIPE	110	3,465.00	5.000		2.750	XT-39			RIG
AGITATOR	1	22.15	5.125		2.750	XT-39			W1857344
50 JTS DRILL PIPE	50	1,575.00	5.000		2.750	XT-39			RIG
DOGLEG REAMER	1	4.28	5.250		2.750	XT-39			A196861
3 JTS DRILL PIPE	3	94.60	5.000		2.750	XT-39			RIG
CROSSOVER SUB	1	1.95	5.250		2.750	XT-39			DR18060
FLOAT SUB	1	2.96	4.750		2.750	3-1/2 IF			NESFS4751 51
FILTER SUB	1	3.98	4.875		2.750	3-1/2 IF			DR39155
NON-MAG SLICK COLLAR	1	29.62	4.625		2.562	3-1/2 IF			NESNM4754 65
GAP SUB	1	3.58	5.000		2.750	3-1/2 IF			VG475056P TS
CENTRALIZER SUB	1	8.35	5.130		4.490	DS38			VC475024
LANDING SUB	1	3.42	5.000		3.780	DS38			VL475064
CROSSOVER SUB	1	1.64	5.000		2.750	DS38			VX475110
NON-MAG PONY COLLAR	1	9.63	5.250		2.375	DS38			PFC475002
4.75" PHOENIX 24X MUD MOTOR. LOBES: 6/7. STG: 6.4.	1	25.49	5.375			DS38			24XH51300 4
BIT #5 RUN #1 BAKER TD405FTX. 5X16's. SN: 7163896	1	1.00	6.125	6.125					7163896

EP WELLS DAILY OPERATIONS REPORT

Report 27

08/07/2017

Well UNIVERSITY 19 J 0910H
Wellbore UNIVERSITY 19 J 0910H

Drillstring Details

Date/Time in	Date/Time out	BHA no.	BHA Length (ft)	Min. ID (in)	Purpose
07/31/2017 06:00	08/07/2017 06:30	5	258.46		DRILL 6.125" PRODUCTION SECTION

PUMP/HYDRAULIC DATA

Pump No.	Type	Make/Model	Stroke (in)	Liner size (in)	Efficiency (%)	Pressure (psi)	SPM (spm)	Output (gpm)	Kill SPM/Pressure/Depth (spm/psi/ft)
1		GARDENER-DENVER / PZ-11-1600	11.00						
2		GARDENER-DENVER / PZ-11-1600	11.00						

Remarks

FUEL ON LOCATION: 14416 GAL
FUEL USED (PITS): 25 GAL
FUEL USED (RIG): 1272 GAL

EP WELLS DAILY OPERATIONS REPORT

Report 28

08/08/2017

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 19 J 0910H
Wellbore	UNIVERSITY 19 J 0910H
WBS No/API No	30265148 / 4230133232.00

Event Summary

Event Type	Drilling only	Event Start Date	06/08/2017	Days on Location	26.33
Objective	Drill - Wolfcamp Beta	Original Spud Date	06/14/2017	Days Since Spud	20.68
Est. Days	21.00	Contractor	ENSIGN		
Work Unit	ENSIGN 775	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	TRAMPUS STEWART	Measured Depth(ft)	17,955.00
Engineer	BRANDON FOOTE	TVD(ft)	11,572.18
Other Supervisor	TREVOR KELLEY	24 Hr Progress(ft)	
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,800.90 / 2,772.90	Hole size(in)	6.125
THF Datum			
Daily NPT(hr/%)	24.00/100.00	Last Casing MD	7.000in@11,837.00ft
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	4.500in@18,350.00ft
Actual cost to date/AFE	2,223,295/2,565,881.00	Current MW / BH EMW(ppg)	/
Actual divided by AFE	0.87	LOT/FIT EMW(ppg)	
Daily Cost	50,469	Lithology	
		Formation/MD Top	

HSE Summary

Last Incident	Date	Days	Last Incident	Date	Days	KPI's	
LWC RWC MTC FAC Last casing pressure test	07/05/2017		PSI NII HPI GOAL ZERO DAYS PS BARRIER EVENT PS barrier bowtie review	09/29/2015	679	TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	6 2500
Safety Comments:							
275 MAN HOURS							

HSE Drills

Drills/Tests	Date	Days Since Last		
Last Derrick Inspection	08/08/2017	0	JSA's/Toolbox Talks	20
Last BOP function test	08/08/2017	0	Days Since Last Drill	27
Last BOP Test	08/08/2017			
Next BOP Test	08/29/2017			

Operations Summary

24 Hour Summary
P/U BHA. TIH. CIRC OUT PILL. WASH & REAM TIGHT SPOTS. CIRC HOLE CLEAN. BUILD TROUGH TO PREPARE FOR OPEN HOLE SIDETRACK.
Update Since Report Time
CONT. BUILDING TROUGH, HAVING TROUBLE HOLDING TOOLFACE. REAM HOLE. CONT. BUILDING TROUGH.
24 Hour Forecast
CONT. WITH OPENHOLE SIDETRACK.

EP WELLS DAILY OPERATIONS REPORT

Report 28

08/08/2017

Well UNIVERSITY 19 J 0910H
Wellbore UNIVERSITY 19 J 0910H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	1.00	MNH1	PUP		17,955.00	1		PJSM W/DRILLER & P/U TOOLS
1:00	1.00	MNH1	PUP		17,955.00	1		SHUT DOWN FOR WEATHER
2:00	0.50	MNH1	BHA		17,955.00	1		M/U BIT. SCRIBE MUD MOTOR.
2:30	1.00	MNH1	TIH		17,955.00	1		TIH T/1729'
3:30	0.50	MNH1	TIH		17,955.00	1		P/U AGITATOR TEST SAME W/250 GPM 1385 PSI BELOW, 1711 PSI ABOVE.
4:00	3.50	MNH1	TIH		17,955.00	1		TIH F/1781' T/10053'
7:30	0.50	MNH1	TIH		17,955.00	1		REMOVE TRIP NIPPLE. INSTALL ROT HEAD.
8:00	1.50	MNH1	CDM		17,955.00	1		CIRC OUT PILL
9:30	1.50	MNH1	TIH		17,955.00	1		TIH F/10053' T/12900'. FILL PIPE.
11:00	7.00	MNH1	HOP		17,955.00	1		WASH & REAM TIGHT SPOTS @12900' T/15822' W/300 GPM, 5575 PSI, 80 RPM
18:00	1.50	MNH1	TIH		17,955.00	1		PUMP SWEEP & CIRC HOLE CLEAN WHILE WORKING PIPE & ROTATING PIPE @ 80RPM
19:30	4.50	MNH1	TIH		17,955.00	1		BUILDING THE TROUGH TO BEGIN OPEN HOLE SIDETRACK. HAVING TROUBLE KEEPING TOOLFACE WHILE BUILDING TROUGH.
Total	24.00							

Deepest 5 Surveys

MD (ft)	Inc. (°)	Azi. (°)	TVD (ft)	N/S (ft)	E/W (ft)	V.Sec (ft)	DLeg (°/100ft)	Tool
17,469.90	89.70	344.72	11,563.74	5,270.73	-1,194.96	5,396.14	2.63	PTW MWD+HDGM_2016
17,563.90	89.82	347.29	11,564.14	5,361.93	-1,217.69	5,490.08	2.74	PTW MWD+HDGM_2016
17,658.90	89.47	347.52	11,564.72	5,454.65	-1,238.40	5,584.91	0.44	PTW MWD+HDGM_2016
17,783.90	88.14	343.71	11,567.33	5,575.68	-1,269.45	5,709.81	3.23	PTW MWD+HDGM_2016
17,846.90	88.43	344.41	11,569.22	5,636.23	-1,286.74	5,772.78	1.20	PTW MWD+HDGM_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)	

Gas Concentrations and Fluid Losses

Avg Connection Gas (gas unit)	Avg. trip gas (gas unit)	Losses Last 24 Hours/Cumulative...
Max. connection gas (gas unit)	Max. trip gas (gas unit)	Surface Losses (bbl) /0.00
Avg. background gas (gas unit)	Avg H2S Gas (gas unit)	Sub Surface Losses (bbl) /0.00
Max. background gas (gas unit)	Max H2S Gas (gas unit)	Total Losses 0.00/0.00
		End vol. (bbl) 0.00

EP WELLS DAILY OPERATIONS REPORT

Report 28

08/08/2017

Well UNIVERSITY 19 J 0910H
Wellbore UNIVERSITY 19 J 0910H

Bulks Summary

Product	Quantity Onboard	Units	Daily Usage
Diesel	-7,841.00		

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
	6.125	BAKER HUGHES	DD405T			5271885	5x16	17,955.00		-----

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" DP	403	12,688.00	4.000		3.340	XT-39			RIG
SHOCK SUB	1	11.18	5.125		2.750	XT-39			W1790523
110 JTS DRILL PIPE	110	3,469.93	5.000		2.750	XT-39			RIG
AGITATOR	1	22.15	5.125		2.750	XT-39			W1857344
50 JTS DRILL PIPE	50	1,572.83	5.000		2.750	XT-39			RIG
DOGLEG REAMER	1	4.28	6.000		2.750	XT-39			A196861
3 JTS DRILL PIPE	3	94.80	5.000		2.750	XT-39			RIG
CROSSOVER SUB	1	1.95	5.250		2.750	XT-39			DR18060
FLOAT SUB	1	2.96	4.750		2.750	3-1/2 IF			NESFS475151
SCREEN SUB	1	3.98	4.880		2.750	3-1/2 IF			DR39155
NON-MAG SLICK COLLAR	1	29.62	4.630		2.560	3-1/2 IF			NESNM475465
GAP SUB	1	3.78	5.000		2.750	3-1/2 IF			VG475074P TS
CENTRALIZER SUB	1	8.35	5.000		4.490	DS38			VC475022
LANDING SUB	1	3.42	5.000		3.780	DS38			VL475063
CROSSOVER SUB	1	1.65	5.000		2.750	DS38			VX475115
NON-MAG PONY FLEX COLLAR	1	9.63	5.250		2.380	DS38			PFC475002
PHOENIX 24X MUD MOTOR, LOBES: 6/7. STG: 6.4. FIXED @	1	25.49	5.375			DS38			24XH513004-PTS
BIT #6 RUN #1 BAKER DD405T 5X16's. SN: 5271885	1	1.00	6.125	6.125					5271885

Drillstring Details

Date/Time in	Date/Time out	BHA no.	BHA Length (ft)	Min. ID (in)	Purpose
08/08/2017 02:00		7	129.44		DRILL 6.125" PRODUCTION HOLE

PUMP/HYDRAULIC DATA

Pump No.	Type	Make/Model	Stroke (in)	Liner size (in)	Efficiency (%)	Pressure (psi)	SPM (spm)	Output (gpm)	Kill SPM/Pressure/Depth (spm/psi/ft)
1		GARDENER-DENVER / PZ-11-1600	11.00						
2		GARDENER-DENVER / PZ-11-1600	11.00						

EP WELLS DAILY OPERATIONS REPORT

Report 28 08/08/2017

Well UNIVERSITY 19 J 0910H
Wellbore UNIVERSITY 19 J 0910H

Remarks

FUEL ON LOCATION: 12084 GAL
FUEL USED: 2332 GAL

EP WELLS DAILY OPERATIONS REPORT

Report 29

08/09/2017

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 19 J 0910H
Wellbore	UNIVERSITY 19 J 0910H ST01
WBS No/API No	30265148 / 4230133232.01

Event Summary

Event Type	Drilling only	Event Start Date	06/08/2017	Days on Location	27.33
Objective	Drill - Wolfcamp Beta	Original Spud Date	06/14/2017	Days Since Spud	21.68
Est. Days	21.00	Contractor	ENSIGN		
Work Unit	ENSIGN 775	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	TRAMPUS STEWART	Measured Depth(ft)	15,926.00
Engineer	BRANDON FOOTE	TVD(ft)	15,926.00
Other Supervisor	TREVOR KELLEY	24 Hr Progress(ft)	-2,029.00
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,800.90 / 2,772.90	Hole size(in)	6.125
THF Datum			
Daily NPT(hr/%)	24.00/100.00	Last Casing MD	7.000in@11,837.00ft
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	4.500in@18,350.00ft
Actual cost to date/AFE	2,384,458/2,565,881.00	Current MW / BH EMW(ppg)	/
Actual divided by AFE	0.93	LOT/FIT EMW(ppg)	
Daily Cost	111,597	Lithology	
		Formation/MD Top	

HSE Summary

Last Incident	Date	Days	Last Incident	Date	Days	KPI's	
LWC RWC MTC FAC Last casing pressure test	07/05/2017		PSI NII HPI GOAL ZERO DAYS PS BARRIER EVENT PS barrier bowtie review	09/29/2015	680	TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	2500
Safety Comments:							
264 MAN HOURS							

HSE Drills

Drills/Tests	Date	Days Since Last		
Last Derrick Inspection	08/07/2017	2	JSA's/Toolbox Talks	28
Last BOP function test	08/07/2017	2	Days Since Last Drill	
Last BOP Test	08/28/2017			
Next BOP Test				

Operations Summary

24 Hour Summary
BUILD TROUGH F/15880' T/15910'. TIME DRILL F/15910' T/15926'
Update Since Report Time
TIME DRILL T/15931'. SLIDE DRILL T/15935'
24 Hour Forecast
CONT. DRILLING SIDETRACK.

EP WELLS DAILY OPERATIONS REPORT

Report 29

08/09/2017

Well UNIVERSITY 19 J 0910H
Wellbore UNIVERSITY 19 J 0910H ST01

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	1.50	MNH1	TTD		17,955.00	1		NPT: CONT T/ BUILD TROUGH F/15880' T/15910'
1:30	1.00	MNH1	TTD		17,955.00	1		NPT: CONT T/ REAM F/15850' T/15910'
2:30	5.50	MNH1	TTD		17,955.00	1		NPT: BUILD TROUGH F/15900' T/15910'
8:00	16.00	MNH1	TTD		15,926.00	1		NPT: TIME DRILL F/15910' T/15926' (16' @ 1 FPH) WOB: 5K BIT RPM: 245 FLOW RATE: 304 GPM PRESS: 5570 PSI MW: 13.7 PPG
Total	24.00							

Deepest 5 Surveys

MD (ft)	Inc. (°)	Azi. (°)	TVD (ft)	N/S (ft)	E/W (ft)	V.Sec (ft)	DLeg (°/100ft)	Tool
0.00	0.00	0.00	0.00	0.00	0.00	0.00		PTW MWD+HDGM_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)	

Gas Concentrations and Fluid Losses

Avg Connection Gas (gas unit)	Avg. trip gas (gas unit)	Losses Last 24 Hours/Cumulative...
Max. connection gas (gas unit)	Max. trip gas (gas unit)	Surface Losses (bbl) /0.00
Avg. background gas (gas unit)	Avg H2S Gas (gas unit)	Sub Surface Losses (bbl) /0.00
Max. background gas (gas unit)	Max H2S Gas (gas unit)	Total Losses 0.00/0.00
		End vol. (bbl) 0.00

Bulks Summary

Product	Quantity Onboard	Units	Daily Usage
Diesel	-7,841.00		

PUMP/HYDRAULIC DATA

Pump No.	Type	Make/Model	Stroke (in)	Liner size (in)	Efficiency (%)	Pressure (psi)	SPM (spm)	Output (gpm)	Kill SPM/Pressure/Depth (spm/psi/ft)
1		GARDENER-DENVER / PZ-11-1600	11.00						
2		GARDENER-DENVER / PZ-11-1600	11.00						

Remarks

FUEL ON LOCATION: 21664 GAL
FUEL USED (RIG): 1092 GAL
FUEL USED (PITS): 18 GAL
FUEL DELIVERED 13004 GAL

EP WELLS DAILY OPERATIONS REPORT

Report 30

08/10/2017

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 19 J 0910H
Wellbore	UNIVERSITY 19 J 0910H ST01
WBS No/API No	30265148 / 4230133232.01

Event Summary

Event Type	Drilling only	Event Start Date	06/08/2017	Days on Location	28.33
Objective	Drill - Wolfcamp Beta	Original Spud Date	06/14/2017	Days Since Spud	22.68
Est. Days	21.00	Contractor	ENSIGN		
Work Unit	ENSIGN 775	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	TRAMPUS STEWART	Measured Depth(ft)	16,721.00
Engineer	BRANDON FOOTE	TVD(ft)	11,585.18
Other Supervisor	TREVOR KELLEY	24 Hr Progress(ft)	795.00
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,800.90 / 2,772.90	Hole size(in)	6.125
THF Datum			
Daily NPT(hr/%)	24.00/100.00	Last Casing MD	7.000in@11,837.00ft
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	4.500in@18,350.00ft
Actual cost to date/AFE	2,460,504/2,565,881.00	Current MW / BH EMW(ppg)	/
Actual divided by AFE	0.96	LOT/FIT EMW(ppg)	
Daily Cost	76,046	Lithology	
		Formation/MD Top	

HSE Summary

Last Incident	Date	Days	Last Incident	Date	Days	KPI's	
LWC RWC MTC FAC Last casing pressure test	07/05/2017		PSI NII HPI GOAL ZERO DAYS PS BARRIER EVENT PS barrier bowtie review	09/29/2015	681	TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	2500
Safety Comments:							
262 MAN HOURS							

HSE Drills

Drills/Tests	Date	Days Since Last		
Last Derrick Inspection	08/07/2017	3	JSA's/Toolbox Talks	29
Last BOP function test	08/07/2017	3	Days Since Last Drill	
Last BOP Test	08/07/2017			
Next BOP Test	08/28/2017			

Operations Summary

24 Hour Summary
TIME DRILL T/15931'. ROTATE & SLIDE DRILL F/15931' T/16721'
Update Since Report Time
DRILL T/16929'
24 Hour Forecast
DRILL AHEAD TOWARDS TD @ ~18350'

EP WELLS DAILY OPERATIONS REPORT

Report 30

08/10/2017

Well UNIVERSITY 19 J 0910H
Wellbore UNIVERSITY 19 J 0910H ST01

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	0.50	MNH1	TTD		15,927.00	1		NPT: TIME DRILL F/15926' T/15927' (.5' @ 1 FPH) WOB: 5K BIT RPM: 245 FLOW RATE: 304 GPM PRESS: 5570 PSI MW: 13.7 PPG
0:30	2.50	MNH1	TTD		15,931.00	1		NPT: TIME DRILL F/15927' T/15931' (4' @ 2 FPH) WOB: 5K BIT RPM: 245 FLOW RATE: 304 GPM PRESS: 5570 PSI MW: 13.7 PPG
3:00	2.00	MNH1	DRL		15,950.00	1		NPT: SLIDE F/ 15931' T/15950' (19' @ 9.5 FPH) WOB: 15-20K RPM: SURF MOTOR 240 BIT 240 PSI & FLOW: SPP 5550 GPM 300 DIFF 50-100 STRING WT: P/U 200 S/O 155 ROT TORQUE: ON BTM OFF BTM MW: 13.7 PPG MOTOR: .8 REV/GAL GAS: BG 200 CG 1000
5:00	1.00	MNH1	DRL		15,974.00	1		NPT: ROTATE F/ 15950' T/15974' (24' @ 24 FPH) WOB: 20-30K RPM: SURF 60 MOTOR 240 BIT 300 PSI & FLOW: SPP 5550 GPM 300 DIFF 400-600 STRING WT: P/U 200 S/O 155 ROT 175 TORQUE: ON BTM 8-10 OFF BTM 4-5 MW: 13.7 PPG MOTOR: .8 REV/GAL GAS: BG 200 CG 1000
6:00	0.50	MNH1	DRL		15,980.00	1		NPT: SLIDE F/ 15974' T/15980' (6' @ 12 FPH) WOB: 15-20K RPM: SURF MOTOR 243 BIT 243 PSI & FLOW: SPP 5550 GPM 304 DIFF 100-150 STRING WT: P/U 200 S/O 155 ROT TORQUE: ON BTM OFF BTM MW: 13.7 PPG MOTOR: .8 REV/GAL GAS: BG 200 CG 1000
6:30	3.00	MNH1	SVC		15,980.00	1		NPT: TROUBLESHOOT TOP DRIVE & C/O ENCODER
9:30	1.50	MNH1	DRL		16,000.00	1		NPT: SLIDE F/ 15980' T/16000' (20' @ 13.3 FPH) WOB: 20-25K RPM: SURF MOTOR 243 BIT 243 PSI & FLOW: SPP 5550 GPM 304 DIFF 200-250 STRING WT: P/U 200 S/O 155 ROT TORQUE: ON BTM OFF BTM MW: 13.7 PPG MOTOR: .8 REV/GAL GAS: BG 200 CG 1000
11:00	1.00	MNH1	DRL		16,033.00	1		NPT: ROTATE F/16000' T/16033' (33' @ 33 FPH) WOB: 20-25K RPM: SURF 60 MOTOR 243 BIT 303 PSI & FLOW: SPP 5550 GPM 304 DIFF 550-600 STRING WT: P/U 210 S/O 155 ROT 185 TORQUE: ON BTM 8-10 OFF BTM 5-6 MW: 13.7 PPG MOTOR: .8 REV/GAL GAS: BG 200 CG 1000
12:00	1.50	MNH1	DRL		16,063.00	1		NPT: SLIDE F/ 16033' T/16063' (30' @ 20 FPH) WOB: 33K RPM: SURF MOTOR 243 BIT 243 PSI & FLOW: SPP 5550 GPM 304 DIFF 250 STRING WT: P/U 200 S/O 155 ROT TORQUE: ON BTM OFF BTM MW: 13.7 PPG MOTOR: .8 REV/GAL GAS: BG 500 CG 5000

EP WELLS DAILY OPERATIONS REPORT

Report 30

08/10/2017

Well UNIVERSITY 19 J 0910H
Wellbore UNIVERSITY 19 J 0910H ST01

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
13:30	1.00	MNH1	DRL		16,124.00	1		NPT: ROTATE F/16063' T/16124' (61' @ 61 FPH) WOB: 20-25K RPM: SURF 60 MOTOR 243 BIT 303 PSI & FLOW: SPP 5560 GPM 304 DIFF 550-600 STRING WT: P/U 210 S/O 155 ROT 185 TORQUE: ON BTM 9-10 OFF BTM 5-6 MW: 13.7 PPG MOTOR: .8 REV/GAL GAS: BG 500 CG 5000
14:30	1.00	MNH1	DRL		16,148.00	1		NPT: SLIDE F/ 16124' T/16148' (24' @ 24 FPH) WOB: 25K RPM: SURF MOTOR 243 BIT 243 PSI & FLOW: SPP 5550 GPM 304 DIFF 320 STRING WT: P/U 210 S/O 155 ROT TORQUE: ON BTM OFF BTM MW: 13.7 PPG MOTOR: .8 REV/GAL GAS: BG 500 CG 5000
15:30	2.50	MNH1	DRL		16,314.00	1		NPT: ROTATE F/16148' T/16314' (166' @ 66.4 FPH) WOB: 27K RPM: SURF 80 MOTOR 243 BIT 323 PSI & FLOW: SPP 5560 GPM 304 DIFF 700 STRING WT: P/U 210 S/O 155 ROT 185 TORQUE: ON BTM 9-10 OFF BTM 5-6 MW: 13.7 PPG MOTOR: .8 REV/GAL GAS: BG 500 CG 5000
18:00	0.50	MNH1	DRL		16,339.00	1		NPT: SLIDE F/ 16314' T/16339' (25' @ 50 FPH) WOB: 32K RPM: SURF MOTOR 243 BIT 243 PSI & FLOW: SPP 5550 GPM 304 DIFF 750 STRING WT: P/U 210 S/O 155 ROT TORQUE: ON BTM OFF BTM MW: 13.7 PPG MOTOR: .8 REV/GAL GAS: BG 500 CG 5000
18:30	1.50	MNH1	DRL		16,502.00	1		NPT: ROTATE F/16339' T/16502' (162' @ 108.7 FPH) WOB: 32K RPM: SURF 80 MOTOR 243 BIT 323 PSI & FLOW: SPP 5560 GPM 304 DIFF 700 STRING WT: P/U 210 S/O 155 ROT 185 TORQUE: ON BTM 9-10 OFF BTM 5-6 MW: 13.7 PPG MOTOR: .8 REV/GAL GAS: BG 500 CG 5000
20:00	1.50	MNH1	DRL		16,527.00	1		NPT: SLIDE F/ 16502' T/16527' (25' @ 16.7 FPH) WOB: 32K RPM: SURF MOTOR 243 BIT 243 PSI & FLOW: SPP 5550 GPM 304 DIFF 750 STRING WT: P/U 210 S/O 155 ROT TORQUE: ON BTM OFF BTM MW: 13.7 PPG MOTOR: .8 REV/GAL GAS: BG 500 CG 5000
21:30	2.50	MNH1	DRL		16,721.00	1		NPT: ROTATE F/16527' T/16721' (194' @ 77.6 FPH) WOB: 32K RPM: SURF 80 MOTOR 243 BIT 323 PSI & FLOW: SPP 5560 GPM 304 DIFF 700 STRING WT: P/U 210 S/O 155 ROT 185 TORQUE: ON BTM 9-10 OFF BTM 5-6 MW: 13.7 PPG MOTOR: .8 REV/GAL GAS: BG 500 CG 5000
Total	24.00							

EP WELLS DAILY OPERATIONS REPORT

Report 30

08/10/2017

Well UNIVERSITY 19 J 0910H
Wellbore UNIVERSITY 19 J 0910H ST01

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
08/10/2017 06:30	ENSIGN UNITED STATES DRILLING INC	Rig/Work Unit Misc	15,980.00	SVC	N		3.00	3.00		OPEN
Description: TROUBLESHOOT TOP DRIVE & ENCODER						Title: TROUBLESHOOT TOP DRIVE & ENCODER				
Total							3.00	3.00		

Deepest 5 Surveys

MD (ft)	Inc. (°)	Azi. (°)	TVD (ft)	N/S (ft)	E/W (ft)	V.Sec (ft)	DLeg (°/100ft)	Tool
16,252.00	89.55	345.87	11,600.05	4,106.53	-790.98	4,181.67	1.74	PTW MWD+HDGM_2016
16,346.00	90.95	343.75	11,599.64	4,197.24	-815.61	4,275.48	2.70	PTW MWD+HDGM_2016
16,441.00	89.45	339.18	11,599.30	4,287.29	-845.80	4,369.77	5.06	PTW MWD+HDGM_2016
16,535.00	93.64	343.18	11,596.77	4,376.19	-876.10	4,462.96	6.16	PTW MWD+HDGM_2016
16,629.00	93.92	343.48	11,590.57	4,466.04	-903.01	4,556.39	0.44	PTW MWD+HDGM_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
7	6.125	BAKER HUGHES	DD405T			5271885	5x16	17,955.00		-----

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" DP	403	11,458.65	4.000		3.340	XT-39			RIG
SHOCK SUB	1	11.15	5.000		3.000	XT-39			W18150321 A
110 JTS DRILL PIPE	110	3,469.93	5.000		2.750	XT-39			RIG
AGITATOR	1	22.31	5.000		3.000	XT-39			W1857359
53 JTS DRILL PIPE	53	1,667.63	5.000		2.750	XT-39			RIG
CROSSOVER SUB	1	1.95	5.250		2.750	XT-39			DR18060
FLOAT SUB	1	2.96	4.750		2.750	3-1/2 IF			NESFS4751 51
SCREEN SUB	1	3.98	4.880		2.750	3-1/2 IF			DR39155
NON-MAG SLICK COLLAR	1	29.12	4.500		2.562	3-1/2 IF			NESNM4754 45

EP WELLS DAILY OPERATIONS REPORT

Report 30

08/10/2017

Well UNIVERSITY 19 J 0910H
Wellbore UNIVERSITY 19 J 0910H ST01

Drillstring Components

Item description	# Jts	Length (ft)	OD (in)	Max OD (in)	ID (in)	Connection Name	Weight (ppf)	Grade	Serial no.
GAP SUB	1	3.78	5.000		2.750	3-1/2 IF			VG475074P TS
CENTRALIZER SUB	1	8.35	5.000		4.490	DS38			VC475022
LANDING SUB	1	3.42	5.000		3.780	DS38			VL475063
CROSSOVER SUB	1	1.65	5.000		2.750	DS38			VX475115
NON-MAG PONY FLEX COLLAR	1	9.63	5.250		2.380	DS38			PFC475002
PHOENIX 24X MUD MOTOR, LOBES: 6/7. STG: 6.4. FIXED @	1	25.49	5.375			DS38			24XH51300 4-PTS
BIT #6 RUN #2 BAKER DD405T 5X16's. SN: 5271885	1	1.00	6.125	6.125					5271885

Drillstring Details

Date/Time in	Date/Time out	BHA no.	BHA Length (ft)	Min. ID (in)	Purpose
08/09/2017 00:00		7	124.79		DRILL 6.25" OPEN HOLE SIDETRACK

PUMP/HYDRAULIC DATA

Pump No.	Type	Make/Model	Stroke (in)	Liner size (in)	Efficiency (%)	Pressure (psi)	SPM (spm)	Output (gpm)	Kill SPM/Pressure/Depth (spm/psi/ft)
1		GARDENER-DENVER / PZ-11-1600	11.00						
2		GARDENER-DENVER / PZ-11-1600	11.00						

Remarks

FUEL ON LOCATION: 15688 GAL
FUEL USED (RIG): 4240 GAL
FUEL USED (PITS): 1193 GAL

EP WELLS DAILY OPERATIONS REPORT

Report 2

06/09/2017

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 19 J 0910H
Wellbore	UNIVERSITY 19 J 0910H
WBS No/API No	30265148 / 4230133232.00

Event Summary

Event Type	Drilling only	Event Start Date	06/08/2017	Days on Location	1.65
Objective	Drill - Wolfcamp Beta	Original Spud Date		Days Since Spud	0.00
Est. Days	21.00	Contractor	ENSIGN		
Work Unit	ENSIGN 775	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	TRAMPUS STEWART	Measured Depth(ft)	148.00
Engineer	BRANDON FOOTE	TVD(ft)	148.00
Other Supervisor	TREVOR KELLEY	24 Hr Progress(ft)	
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,800.90 / 2,772.90	Hole size(in)	30.000
THF Datum			
Daily NPT(hr/%)	0/0	Last Casing MD	
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	20.000in@148.00ft
Actual cost to date/AFE	34,065/2,565,881.00	Current MW / BH EMW(ppg)	/
Actual divided by AFE	0.01	LOT/FIT EMW(ppg)	
Daily Cost	26,745	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	09/29/2015	619	TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	
Safety Comments:							
324 MAN HOURS							

HSE Drills

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

Operations Summary

24 Hour Summary
SQUAT RIG FLOOR & LOWER DERRICK. STRING DOWN BLOCK, PREP & UNPIN DERRICK. STRING UP SPOT TANKS, GENERATORS & PUMP HOUSE ON NEW LOCATION.
90% R/D, 50% MOVED & 25% R/U.
Update Since Report Time
LOAD EQUIPMENT ON TRUCKS FOR TRANSPORTATION. WASH RIG EQUIPMENT.
24 Hour Forecast
MOVE CAMPS & MISC. EQUIP. CONT. R/U ON NEW LOCATION.

EP WELLS DAILY OPERATIONS REPORT

Report 2

06/09/2017

Well UNIVERSITY 19 J 0910H
Wellbore UNIVERSITY 19 J 0910H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	6.00	RIGM	RIT		148.00	0		REMOVE BOP WINCHES, FLOWLINE & R/D DRILLERS CABIN. PULL WIRES FROM LER HOUSE TO RIG FLOOR. REMOVE STANDPIPE MANIFOLD & REMOVE MISC. STAIRS. PREPARE RIG FLOOR TO SQUAT.
6:00	1.50	RIGM	RIT		148.00	0		PERFORMED HAZARD HUNT & HELD SAFETY MEETING WITH DEEP WELL & RIG CREW. FINISH PREPARING RIG FLOOR TO SQUAT & PIN LOWERING CYLINDERS.
7:30	2.00	RIGM	RIT		148.00	0		R/D CAMPS FROM RIG POWER. SQUAT RIG FLOOR & LOWER DERRICK.
9:30	7.00	RIGM	RIT		148.00	0		HELD PAUSE FOR NEXT JOB. STRING DOWN BLOCKS & PREPARE DERRICK TO BE SPLIT & FOR TRANSPORTATION. STRINGER CREW WASHING DERRICK & MISC EQUIP.. REMOVE DRILLERS CABIN. LOAD & TRANSPORT PITS, MUD PUMPS & GENERATORS. ON NEW LOCATION: STRING LOCATION, SET & R/U GENERATOR PACKAGE, MUD PITS & MUD PUMP HOUSE.
16:30	7.50	RIGM	RIT		148.00	0		SPLIT DERRICK & UNPIN FROM RIG FLOOR, LOAD & SECURE ON TRUCKS. R/D HYDRAULIC HOUSE & REMOVE CENTER STEEL. SPLIT SUBS LOAD EQUIPMENT & SECURE ON TRUCKS FOR TRANSPOTATION. WASHING RIG EQUIPMENT. 19 LOADS HAULED TODAY WITH 13 HAUL TRUCKS. TOTAL LOADS TO DATE= 32 90% R/D, 50% MOVED & 25% R/U.
Total	24.00							

PUMP/HYDRAULIC DATA

Pump No.	Type	Make/Model	Stroke (in)	Liner size (in)	Efficiency (%)	Pressure (psi)	SPM (spm)	Output (gpm)	Kill SPM/Pressure/Depth (spm/psi/ft)
1		GARDENER-DENVER / PZ-11-1600	11.00						
2		GARDENER-DENVER / PZ-11-1600	11.00						

EP WELLS DAILY OPERATIONS REPORT

Report 31

08/11/2017

Company PERMIAN
 Well Type Development
 Well UNIVERSITY 19 J 0910H
 Wellbore UNIVERSITY 19 J 0910H ST01
 WBS No/API No 30265148 / 4230133232.01

Event Summary

Event Type	Drilling only	Event Start Date	06/08/2017	Days on Location	29.33
Objective	Drill - Wolfcamp Beta	Original Spud Date	06/14/2017	Days Since Spud	23.68
Est. Days	21.00	Contractor	ENSIGN		
Work Unit	ENSIGN 775	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	TRAMPUS STEWART	Measured Depth(ft)	17,991.00
Engineer	BRANDON FOOTE	TVD(ft)	11,598.24
Other Supervisor	TREVOR KELLEY	24 Hr Progress(ft)	1,270.00
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,800.90 / 2,772.90	Hole size(in)	6.125
THF Datum			
Daily NPT(hr/%)	23.00/95.83	Last Casing MD	7.000in@11,837.00ft
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	4.500in@18,350.00ft
Actual cost to date/AFE	2,614,796/2,565,881.00	Current MW / BH EMW(ppg)	/
Actual divided by AFE	1.02	LOT/FIT EMW(ppg)	
Daily Cost	57,897	Lithology	
		Formation/MD Top	

HSE Summary

Last Incident	Date	Days	Last Incident	Date	Days	KPI's	
LWC RWC MTC FAC Last casing pressure test	07/05/2017		PSI NII HPI GOAL ZERO DAYS PS BARRIER EVENT PS barrier bowtie review	09/29/2015	682	TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	2500
Safety Comments:							
268 MAN HOURS							

HSE Drills

Drills/Tests	Date	Days Since Last		
Last Derrick Inspection	08/07/2017	4	JSA's/Toolbox Talks Days Since Last Drill	30
Last BOP function test	08/07/2017	4		
Last BOP Test	08/28/2017			
Next BOP Test				

Operations Summary

24 Hour Summary
ROTATE & SLIDE DRILL F/16721' T/17991'.
Update Since Report Time
DRILL T/18274'
24 Hour Forecast
DRILL T/ TD @ 18610'. CIRC HOLE CLEAN. POOH. RUN 4.5" LINER.

EP WELLS DAILY OPERATIONS REPORT

Report 31

08/11/2017

Well UNIVERSITY 19 J 0910H
Wellbore UNIVERSITY 19 J 0910H ST01

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	2.00	MNH1	DRL		16,879.00	1		NPT: ROTATE F/16721' T/16879' (158' @ 79 FPH) WOB: 32K RPM: SURF 80 MOTOR 243 BIT 323 PSI & FLOW: SPP 5560 GPM 304 DIFF 700 STRING WT: P/U 210 S/O 155 ROT 185 TORQUE: ON BTM 9-10K OFF BTM 5-6K MW: 13.7 PPG MOTOR: .8 REV/GAL GAS: BG 500 CG 5000
2:00	2.00	MNH1	DRL		16,903.00	1		NPT: SLIDE F/16879' T/16903' (24' @ 12 FPH) WOB: 32K RPM: SURF MOTOR 243 BIT 243 PSI & FLOW: SPP 5560 GPM 304 DIFF 750 STRING WT: P/U 210 S/O 155 ROT TORQUE: ON BTM OFF BTM MW: 13.7 PPG MOTOR: .8 REV/GAL GAS: BG 500 CG 5000
4:00	5.00	MNH1	DRL		17,352.00	1		NPT: ROTATE F/16903' T/17352' (449' @ 89.8 FPH) WOB: 33K RPM: SURF 80 MOTOR 226 BIT 306 PSI & FLOW: SPP 5292 GPM 282 DIFF 900 STRING WT: P/U 210 S/O 155 ROT 185 TORQUE: ON BTM 13K OFF BTM 6K MW: 13.7 PPG MOTOR: .8 REV/GAL GAS: BG 500 CG 5000
9:00	1.50	MNH1	DRL		17,371.00	1		NPT: SLIDE F/17352' T/17371' (19' @ 12.7 FPH) WOB: 12-15K RPM: SURF MOTOR 226 BIT 226 PSI & FLOW: SPP 5290 GPM 282 DIFF 200 STRING WT: P/U 210 S/O 155 ROT TORQUE: ON BTM OFF BTM MW: 13.7 PPG MOTOR: .8 REV/GAL GAS: BG 500 CG 5000
10:30	3.50	MNH1	DRL		17,634.00	1		NPT: ROTATE F/17371' T/17634' (263' @ 75.1 FPH) WOB: 33K RPM: SURF 80 MOTOR 226 BIT 306 PSI & FLOW: SPP 5292 GPM 282 DIFF 900 STRING WT: P/U 210 S/O 155 ROT 185 TORQUE: ON BTM 13K OFF BTM 6K MW: 13.7 PPG MOTOR: .8 REV/GAL GAS: BG 500 CG 5000
14:00	1.50	MNH1	DRL		17,655.00	1		NPT: SLIDE F/17634' T/17655' (21' @ 14 FPH) WOB: 25K RPM: SURF MOTOR 245 BIT 245 PSI & FLOW: SPP 6195 GPM 306 DIFF 250-275 STRING WT: P/U 210 S/O 155 ROT TORQUE: ON BTM OFF BTM MW: 13.7 PPG MOTOR: .8 REV/GAL GAS: BG 500 CG 5000
15:30	2.50	MNH1	DRL		17,825.00	1		NPT: ROTATE F/17655' T/17825' (170' @ 68 FPH) WOB: 33K RPM: SURF 80 MOTOR 226 BIT 306 PSI & FLOW: SPP 5292 GPM 282 DIFF 900 STRING WT: P/U 210 S/O 155 ROT 185 TORQUE: ON BTM 13K OFF BTM 6K MW: 13.7 PPG MOTOR: .8 REV/GAL GAS: BG 500 CG 5000
18:00	2.00	MNH1	DRL		17,845.00	1		NPT: SLIDE F/17825' T/17845' (20' @ 10 FPH) WOB: 25K RPM: SURF MOTOR 245 BIT 245

EP WELLS DAILY OPERATIONS REPORT

Report 31

08/11/2017

Well UNIVERSITY 19 J 0910H
Wellbore UNIVERSITY 19 J 0910H ST01

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								PSI & FLOW: SPP 6195 GPM 306 DIFF 250-275 STRING WT: P/U 210 S/O 155 ROT TORQUE: ON BTM OFF BTM MW: 13.7 PPG MOTOR: .8 REV/GAL GAS: BG 500 CG 5000
20:00	2.00	MNH1	DRL		17,950.00	1		NPT: ROTATE F/17845' T/17950' (105' @ 52.5 FPH) WOB: 33K RPM: SURF 80 MOTOR 237 BIT 317 PSI & FLOW: SPP 5900 GPM 296 DIFF 900 STRING WT: P/U 225 S/O 155 ROT 180 TORQUE: ON BTM 13K OFF BTM 6K MW: 13.7 PPG MOTOR: .8 REV/GAL GAS: BG 500 CG 5000
22:00	1.00	MNH1	DRL		17,975.00	1		NPT: SLIDE F/17950' T/17975' (25' @ 25 FPH) WOB: 25K RPM: SURF MOTOR 245 BIT 245 PSI & FLOW: SPP 6195 GPM 306 DIFF 250-275 STRING WT: P/U 225 S/O 155 ROT TORQUE: ON BTM OFF BTM MW: 13.7 PPG MOTOR: .8 REV/GAL GAS: BG 500 CG 5000
23:00	0.50	MNH1	DRL		17,997.00	0		ROTATE F/17975' T/17997' (22' @ 44 FPH) WOB: 33K RPM: SURF 80 MOTOR 237 BIT 317 PSI & FLOW: SPP 5900 GPM 296 DIFF 900 STRING WT: P/U 225 S/O 155 ROT 180 TORQUE: ON BTM 13K OFF BTM 6K MW: 13.7 PPG MOTOR: .8 REV/GAL GAS: BG 500 CG 5000
23:30	0.50	MNH1	SVC		17,997.00	0		LUBRICATE RIG
Total	24.00							

Deepest 5 Surveys

MD (ft)	Inc. (°)	Azi. (°)	TVD (ft)	N/S (ft)	E/W (ft)	V.Sec (ft)	DLeg (°/100ft)	Tool
17,196.00	91.55	341.37	11,564.46	5,005.63	-1,074.90	5,119.58	0.93	PTW MWD+HDGM_2016
17,290.00	92.76	344.41	11,560.92	5,095.39	-1,102.54	5,213.21	3.48	PTW MWD+HDGM_2016
17,385.00	86.94	339.44	11,561.17	5,185.64	-1,131.99	5,307.70	8.05	PTW MWD+HDGM_2016
17,479.00	86.48	340.25	11,566.56	5,273.73	-1,164.33	5,400.72	0.99	PTW MWD+HDGM_2016
17,573.00	86.45	340.65	11,572.36	5,362.15	-1,195.72	5,493.85	0.43	PTW MWD+HDGM_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)	

EP WELLS DAILY OPERATIONS REPORT

Report 31

08/11/2017

Well
WellboreUNIVERSITY 19 J 0910H
UNIVERSITY 19 J 0910H ST01

Gas Concentrations and Fluid Losses

Avg Connection Gas (gas unit)	Avg. trip gas (gas unit)	Losses Last 24 Hours/Cumulative...
Max. connection gas (gas unit)	Max. trip gas (gas unit)	Surface Losses (bbl) /0.00
Avg. background gas (gas unit)	Avg H2S Gas (gas unit)	Sub Surface Losses (bbl) /0.00
Max. background gas (gas unit)	Max H2S Gas (gas unit)	Total Losses 0.00/0.00
		End vol. (bbl) 0.00

Bulks Summary

Product	Quantity Onboard	Units	Daily Usage
Diesel	-7,841.00		

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
7	6.125	BAKER HUGHES	DD405T			5271885	5x16	17,955.00		-----

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)
16,879.00	32.0/32.0	80	304.0	5,560.00	120.98	2.18	21.45	2.00	158.00	79.0	39.00	959.50	24.6
16,903.00	32.0/32.0	0	304.0	5,560.00	120.98	2.18	21.45	2.00	24.00	12.0	41.00	983.50	24.0
17,352.00	33.0/33.0	80	282.0	5,292.00	104.10	1.97	17.13	5.00	449.00	89.8	46.00	1,432.50	31.1
17,371.00	12.0/15.0	0	282.0	5,290.00	104.10	1.97	17.13	1.50	19.00	12.7	47.50	1,451.50	30.6
17,634.00	33.0/33.0	80	282.0	5,292.00	104.10	1.97	17.13	3.50	263.00	75.1	51.00	1,714.50	33.6
17,655.00	25.0/25.0	0	306.0	6,195.00	122.58	1.98	21.88	1.50	21.00	14.0	52.50	1,735.50	33.1
17,825.00	33.0/33.0	80	282.0	5,292.00	104.10	1.97	17.13	2.50	170.00	68.0	55.00	1,905.50	34.6
17,845.00	25.0/25.0	0	306.0	6,195.00	122.58	1.98	21.88	2.00	20.00	10.0	57.00	1,925.50	33.8
17,950.00	33.0/33.0	80	296.0	5,900.00	114.70	1.94	19.80	2.00	105.00	52.5	61.00	2,135.50	35.0
17,975.00	25.0/25.0	0	306.0	6,195.00	122.58	1.98	21.88	1.00	25.00	25.0	62.00	2,160.50	34.8
17,997.00	33.0/33.0	80	296.0	5,900.00	114.70	1.94	19.80	0.50	22.00	44.0	60.50	2,077.50	34.3

Drillstring Components

Item description	# Jts	Length (ft)	OD (in)	Max OD (in)	ID (in)	Connection Name	Weight (ppf)	Grade	Serial no.
4" DP	403	12,728.65	4.000		3.340	XT-39			RIG
SHOCK SUB	1	11.15	5.000		3.000	XT-39			W18150321 A
110 JTS DRILL PIPE	110	3,469.93	5.000		2.750	XT-39			RIG
AGITATOR	1	22.31	5.000		3.000	XT-39			W1857359
53 JTS DRILL PIPE	53	1,667.63	5.000		2.750	XT-39			RIG
CROSSOVER SUB	1	1.95	5.250		2.750	XT-39			DR18060
FLOAT SUB	1	2.96	4.750		2.750	3-1/2 IF			NESFS4751 51
SCREEN SUB	1	3.98	4.880		2.750	3-1/2 IF			DR39155
NON-MAG SLICK COLLAR	1	29.12	4.500		2.562	3-1/2 IF			NESNM4754 45
GAP SUB	1	3.78	5.000		2.750	3-1/2 IF			VG475074P TS
CENTRALIZER SUB	1	8.35	5.000		4.490	DS38			VC475022
LANDING SUB	1	3.42	5.000		3.780	DS38			VL475063
CROSSOVER SUB	1	1.65	5.000		2.750	DS38			VX475115

EP WELLS DAILY OPERATIONS REPORT

Report 31

08/11/2017

Well UNIVERSITY 19 J 0910H
Wellbore UNIVERSITY 19 J 0910H ST01

Drillstring Components

Item description	# Jts	Length (ft)	OD (in)	Max OD (in)	ID (in)	Connection Name	Weight (ppf)	Grade	Serial no.
NON-MAG PONY FLEX COLLAR	1	9.63	5.250		2.380	DS38			PFC475002
PHOENIX 24X MUD MOTOR, LOBES: 6/7. STG: 6.4. FIXED @	1	25.49	5.375			DS38			24XH51300 4-PTS
BIT #6 RUN #2 BAKER DD405T 5X16's. SN: 5271885	1	1.00	6.125	6.125					5271885

Drillstring Details

Date/Time in		Date/Time out		BHA no.	BHA Length (ft)	Min. ID (in)	Purpose
08/09/2017 00:00				7	124.79		DRILL 6.25" OPEN HOLE SIDETRACK
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)
16,879.00	210.0	155.00	185.00	25.00	10,000.0	6,000.0	158.00
16,903.00	210.0	155.00	0.00	210.00	0.0	0.0	24.00
17,352.00	210.0	155.00	185.00	25.00	13,000.0	6,000.0	449.00
17,371.00	210.0	155.00	0.00	210.00	0.0	0.0	19.00
17,634.00	210.0	155.00	185.00	25.00	13,000.0	6,000.0	263.00
17,655.00	210.0	155.00	0.00	210.00	0.0	0.0	21.00
17,825.00	210.0	155.00	185.00	25.00	13,000.0	6,000.0	170.00
17,845.00	210.0	155.00	0.00	210.00	0.0	0.0	20.00
17,950.00	225.0	155.00	185.00	40.00	13,000.0	6,000.0	105.00
17,975.00	225.0	155.00	0.00	225.00	0.0	0.0	25.00
17,997.00	225.0	155.00	185.00	40.00	13,000.0	6,000.0	22.00

PUMP/HYDRAULIC DATA

Pump No.	Type	Make/Model	Stroke (in)	Liner size (in)	Efficiency (%)	Pressure (psi)	SPM (spm)	Output (gpm)	Kill SPM/Pressure/Depth (spm/psi/ft)
1		GARDENER-DENVER / PZ-11-1600	11.00						
2		GARDENER-DENVER / PZ-11-1600	11.00						

Remarks

FUEL ON LOCATION: 16960 GAL
FUEL USED (RIG): 3392 GAL
FUEL USED (PITS): 473 GAL
FUEL DELIVERED: 5511 GAL

EP WELLS DAILY OPERATIONS REPORT

Report 32

08/12/2017

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 19 J 0910H
Wellbore	UNIVERSITY 19 J 0910H ST01
WBS No/API No	30265148 / 4230133232.01

Event Summary

Event Type	Drilling only	Event Start Date	06/08/2017	Days on Location	30.33
Objective	Drill - Wolfcamp Beta	Original Spud Date	06/14/2017	Days Since Spud	24.68
Est. Days	21.00	Contractor	ENSIGN		
Work Unit	ENSIGN 775	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	TRAMPUS STEWART	Measured Depth(ft)	18,610.00
Engineer	BRANDON FOOTE	TVD(ft)	11,574.10
Other Supervisor	TREVOR KELLEY	24 Hr Progress(ft)	619.00
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,800.90 / 2,772.90	Hole size(in)	6.125
THF Datum			
Daily NPT(hr/%)	14.00/58.33	Last Casing MD	7.000in@11,837.00ft
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	4.500in@18,350.00ft
Actual cost to date/AFE	2,674,209/2,565,881.00	Current MW / BH EMW(ppg)	/
Actual divided by AFE	1.04	LOT/FIT EMW(ppg)	
Daily Cost	59,413	Lithology	
		Formation/MD Top	

HSE Summary

Last Incident	Date	Days	Last Incident	Date	Days	KPI's	
LWC RWC MTC FAC Last casing pressure test	07/05/2017		PSI NII HPI GOAL ZERO DAYS PS BARRIER EVENT PS barrier bowtie review	09/29/2015	683	TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	2500
Safety Comments:							
284 MAN HOURS							

HSE Drills

Drills/Tests	Date	Days Since Last	JSA's/Toolbox Talks Days Since Last Drill	31
Last Derrick Inspection	08/07/2017	5		
Last BOP function test	08/07/2017	5		
Last BOP Test	08/07/2017			
Next BOP Test	08/28/2017			

Operations Summary

24 Hour Summary
DRILL F/17991' T/18461'. C/O SWIVEL PACKING AND SWIVEL PACKING ADAPTER. DRILL F/18461' T/18610'. CIRC HOLE CLEAN. FLOW CHECK & PUMP SLUG.
Update Since Report Time
POOH T/11649'
24 Hour Forecast
POOH & L/D BHA. RUN 4.5" LINER.

EP WELLS DAILY OPERATIONS REPORT

Report 32

08/12/2017

Well UNIVERSITY 19 J 0910H
Wellbore UNIVERSITY 19 J 0910H ST01

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	4.00	MNH1	DRL		18,376.00	0		ROTATE F/17997' T/18376' (379' @ 94.75 FPH) WOB: 33K RPM: SURF 80 MOTOR 237 BIT 317 PSI & FLOW: SPP 5900 GPM 296 DIFF 850-900 STRING WT: P/U 225 S/O 155 ROT 185 TORQUE: ON BTM 9-10K OFF BTM 5-6K MW: 13.7 PPG MOTOR: .8 REV/GAL GAS: BG 500 CG 5000
4:00	0.50	MNH1	SVC		18,376.00	1		NPT: C/O SWIVEL PACKING
4:30	0.50	MNH1	SVC		18,376.00	1		NPT: PRESSURE TEST SWIVEL PACKING & WASH F/18281' T/18376'
5:00	1.00	MNH1	DRL		18,461.00	0		ROTATE F/18376' T/18461' (85' @ 85 FPH) WOB: 33K RPM: SURF 80 MOTOR 237 BIT 317 PSI & FLOW: SPP 5900 GPM 296 DIFF 850-900 STRING WT: P/U 225 S/O 155 ROT 185 TORQUE: ON BTM 12-13K OFF BTM 5-6K MW: 13.7 PPG MOTOR: .8 REV/GAL GAS: BG 500 CG 5000
6:00	4.00	MNH1	DRL		18,461.00	1		NPT: C/O SWIVEL PACKING. NEW SWIVEL PACKING LEAKING. FOUND WASH ON FACE RING. INSTALL SWIVEL PACKING PRESSURE TEST PACKING T/2000 PSI, GOOD. BRING PUMP UP TO DRILLING RATE. SWIVEL PACKING STARTED LEAKING AT 6300 PSI
10:00	9.00	MNH1	DRL		18,461.00	1		NPT: PULL SWIVEL PACKING C/O ADAPTER FLANGE TO "S" PIPE, INSTALL SWIVEL PACKING & PRESSURE TEST TO DRILLING, TEST GOOD. WASH DOWN T/18461'
19:00	1.50	MNH1	DRL		18,610.00	0		ROTATE F/18461' T/18610' (149' @ 99.3 FPH) WOB: 33K RPM: SURF 80 MOTOR 237 BIT 317 PSI & FLOW: SPP 5900 GPM 296 DIFF 850-900 STRING WT: P/U 225 S/O 155 ROT 185 TORQUE: ON BTM 9-10K OFF BTM 5-6K MW: 13.9 PPG MOTOR: .8 REV/GAL GAS: BG 500 CG 5000
20:30	3.00	MNH1	DRL		18,610.00	0		CIRC HOLE CLEAN. PUMP 2 SWEEPS & 3 B/U.
23:30	0.50	MNH1	DRL		18,610.00	0		PUMP SURVEY. FLOW CHECK & PUMP SLUG.
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
08/12/2017 04:00	ENSIGN UNITED STATES DRILLING INC	Rig/Work Unit Misc	18,376.00	SVC	EN	Top Drive/Power Swivel	1.00	1.00		OPEN
Description: PRESSURE TEST SWIVEL PACKING & WASH F/18281' T/18376'						Title: C/O SWIVEL PACKING				
08/12/2017 06:00	ENSIGN UNITED STATES DRILLING INC	Rig/Work Unit Misc	18,461.00	DRL	EN	Top Drive/Power Swivel	13.00	13.00		OPEN
Description: C/O SWIVEL PACKING. NEW SWIVEL PACKING LEAKING. FOUND WASH ON FACE RING. INSTALL SWIVEL PACKING PRESSURE TEST PACKING T/2000 PSI, GOOD. BRING PUMP UP TO DRILLING RATE. SWIVEL PACKING STARTED LEAKING AT 6300 PSI. PULL SWIVEL PACKING C/O ADAPTER FLANGE TO "S" PIPE, INSTALL SWIVEL PACKING & PRESSURE TEST TO DRILLING, TEST GOOD. WASH DOWN T/18461'						Title: C/O SWIVEL PACKING				
Total							14.00	14.00		

EP WELLS DAILY OPERATIONS REPORT

Report 32

08/12/2017

Well UNIVERSITY 19 J 0910H
Wellbore UNIVERSITY 19 J 0910H ST01

Deepest 5 Surveys

MD (ft)	Inc. (°)	Azi. (°)	TVD (ft)	N/S (ft)	E/W (ft)	V.Sec (ft)	DLeg (°/100ft)	Tool
17,951.00	93.33	339.40	11,573.26	5,715.79	-1,328.33	5,867.50	0.67	PTW MWD+HDGM_2016
18,046.00	91.32	339.99	11,569.41	5,804.81	-1,361.27	5,961.83	2.20	PTW MWD+HDGM_2016
18,140.00	90.70	339.48	11,567.75	5,892.98	-1,393.82	6,055.24	0.85	PTW MWD+HDGM_2016
18,235.00	89.11	338.36	11,567.91	5,981.61	-1,427.99	6,149.49	2.05	PTW MWD+HDGM_2016
18,610.00	89.00	338.00	11,574.10	6,329.70	-1,567.36	6,520.87	0.10	PTW MWD+HDGM_2016

Fluid Details

Mud type	Invermul	Oil/Water (%)	POM (cc)
MD (ft)		TS/HGS/LGS (%)	CaCl2 (cc)
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)	

Gas Concentrations and Fluid Losses

Avg Connection Gas (gas unit)	Avg. trip gas (gas unit)	Losses Last 24 Hours/Cumulative...
Max. connection gas (gas unit)	Max. trip gas (gas unit)	Surface Losses (bbl) /0.00
Avg. background gas (gas unit)	Avg H2S Gas (gas unit)	Sub Surface Losses (bbl) /0.00
Max. background gas (gas unit)	Max H2S Gas (gas unit)	Total Losses 0.00/0.00
		End vol. (bbl) 0.00

Bulks Summary

Product	Quantity Onboard	Units	Daily Usage
Diesel	-7,841.00		

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
7	6.125	BAKER HUGHES	DD405T			5271885	5x16	17,955.00		-----

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)
18,376.00	33.0/33.0	80	296.0	5,900.00	114.70	1.94	19.80	4.00	379.00	94.7	64.50	2,456.50	38.1
18,461.00	33.0/33.0	80	296.0	5,900.00	114.70	1.94	19.80	1.00	85.00	85.0	65.50	2,541.50	38.8
18,610.00	33.0/33.0	80	296.0	5,900.00	116.37	1.97	20.09	1.50	149.00	99.3	67.00	2,690.50	40.2

Drillstring Components

Item description	# Jts	Length (ft)	OD (in)	Max OD (in)	ID (in)	Connection Name	Weight (ppf)	Grade	Serial no.
4" DP	403	13,347.65	4.000		3.340	XT-39			RIG
SHOCK SUB	1	11.15	5.000		3.000	XT-39			W18150321 A
110 JTS DRILL PIPE	110	3,469.93	5.000		2.750	XT-39			RIG
AGITATOR	1	22.31	5.000		3.000	XT-39			W1857359
53 JTS DRILL PIPE	53	1,667.63	5.000		2.750	XT-39			RIG
CROSSOVER SUB	1	1.95	5.250		2.750	XT-39			DR18060

EP WELLS DAILY OPERATIONS REPORT

Report 32

08/12/2017

Well UNIVERSITY 19 J 0910H
Wellbore UNIVERSITY 19 J 0910H ST01

Drillstring Components

Item description	# Jts	Length (ft)	OD (in)	Max OD (in)	ID (in)	Connection Name	Weight (ppf)	Grade	Serial no.
FLOAT SUB	1	2.96	4.750		2.750	3-1/2 IF			NESFS475151
SCREEN SUB	1	3.98	4.880		2.750	3-1/2 IF			DR39155
NON-MAG SLICK COLLAR	1	29.12	4.500		2.562	3-1/2 IF			NESNM475445
GAP SUB	1	3.78	5.000		2.750	3-1/2 IF			VG475074PTS
CENTRALIZER SUB	1	8.35	5.000		4.490	DS38			VC475022
LANDING SUB	1	3.42	5.000		3.780	DS38			VL475063
CROSSOVER SUB	1	1.65	5.000		2.750	DS38			VX475115
NON-MAG PONY FLEX COLLAR	1	9.63	5.250		2.380	DS38			PFC475002
PHOENIX 24X MUD MOTOR, LOBES: 6/7. STG: 6.4. FIXED @	1	25.49	5.375			DS38			24XH513004-PTS
BIT #6 RUN #2 BAKER DD405T 5X16's. SN: 5271885	1	1.00	6.125	6.125					5271885

Drillstring Details

Date/Time in		Date/Time out		BHA no.	BHA Length (ft)	Min. ID (in)	Purpose
08/09/2017 00:00				7	124.79		DRILL 6.25" OPEN HOLE SIDETRACK
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)
18,376.00	225.0	155.00	185.00	40.00	10,000.0	6,000.0	379.00
18,461.00	225.0	155.00	185.00	40.00	13,000.0	6,000.0	85.00
18,610.00	225.0	155.00	185.00	40.00	10,000.0	6,000.0	149.00

PUMP/HYDRAULIC DATA

Pump No.	Type	Make/Model	Stroke (in)	Liner size (in)	Efficiency (%)	Pressure (psi)	SPM (spm)	Output (gpm)	Kill SPM/Pressure/Depth (spm/psi/ft)
1		GARDENER-DENVER / PZ-11-1600	11.00						
2		GARDENER-DENVER / PZ-11-1600	11.00						

Remarks

FUEL ON LOCATION: 21412 GAL
FUEL USED (RIG): 2120 GAL
FUEL USED (PITS): 102 GAL
FUEL DELIVERED: 7500 GAL

EP WELLS DAILY OPERATIONS REPORT

Report 33

08/13/2017

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 19 J 0910H
Wellbore	UNIVERSITY 19 J 0910H ST01
WBS No/API No	30265148 / 4230133232.01

Event Summary

Event Type	Drilling only	Event Start Date	06/08/2017	Days on Location	31.33
Objective	Drill - Wolfcamp Beta	Original Spud Date	06/14/2017	Days Since Spud	25.68
Est. Days	21.00	Contractor	ENSIGN		
Work Unit	ENSIGN 775	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	TRAMPUS STEWART	Measured Depth(ft)	18,610.00
Engineer	BRANDON FOOTE	TVD(ft)	11,574.10
Other Supervisor	TREVOR KELLEY	24 Hr Progress(ft)	
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,800.90 / 2,772.90	Hole size(in)	6.125
THF Datum			
Daily NPT(hr/%)	0/0	Last Casing MD	7.000in@11,837.00ft
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	4.500in@18,350.00ft
Actual cost to date/AFE	2,790,344/2,565,881.00	Current MW / BH EMW(ppg)	14.10/
Actual divided by AFE	1.09	LOT/FIT EMW(ppg)	
Daily Cost	116,135	Lithology	
		Formation/MD Top	

HSE Summary

Last Incident	Date	Days	Last Incident	Date	Days	KPI's	
LWC RWC MTC FAC Last casing pressure test	07/05/2017		PSI NII HPI GOAL ZERO DAYS PS BARRIER EVENT PS barrier bowtie review	09/29/2015	684	TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	2500
Safety Comments:							
325 MAN HOURS							

HSE Drills

Drills/Tests	Date	Days Since Last		
Last Derrick Inspection	08/07/2017	6	JSA's/Toolbox Talks	32
Last BOP function test	08/07/2017	6	Days Since Last Drill	
Last BOP Test	08/28/2017			
Next BOP Test				

Operations Summary

24 Hour Summary
POOH F/18610' T/BHA. L/D BHA. R/U CSG CREW. RUN 4.5" 11.6# P110 TXP LINER T/7611'. P/U PACKER ASSY. RUN IN LINER ON DP T/9526'.
Update Since Report Time
RUN IN LINER ON DP T/15201'
24 Hour Forecast
RUN IN LINER ON DP T/18610'. DROP BALL & CIRC. R/U CMT & CMT 4.5" LINER. SET PACKER. CIRC B/U. DISPLACE WELL T/ BRINE. POOH.

EP WELLS DAILY OPERATIONS REPORT

Report 33

08/13/2017

Well UNIVERSITY 19 J 0910H
Wellbore UNIVERSITY 19 J 0910H ST01

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	1.00	MNH1	TOH		18,610.00	0		POOH F/18610' T/17390'
1:00	1.00	MNH1	TOH		18,610.00	0		BACK REAM F/17390' T/17200'
2:00	5.00	MNH1	TOH		18,610.00	0		POOH F/7975' T/5418'
7:00	0.50	MNH1	TOH		18,610.00	0		REMOVE ROT HEAD & L/D SHOCK SUB
7:30	4.00	MNH1	TOH		18,610.00	0		PUMP SLUG. POOH (PULLING WET) F/5418' T/91'
11:30	1.50	MNH1	TOH		18,610.00	0		PJSM W/ DIR CREW, L/D DIR BHA.
13:00	1.00	MNH1	TOH		18,610.00	0		CLEAR & CLEAN RIG FLOOR.
14:00	1.00	MNH1	RIC		18,610.00	0		PJSM W/ EXPRESS. R/U EXPRESS
15:00	6.50	MNH1	CLR		18,610.00	0		P/U & M/U SHOE JOINT AND FLOAT COLLAR RUN IN W/ 4.5" 11.6# P110 TXP LINER T/7611'
21:30	1.00	MNH1	CLR		18,610.00	0		P/U PACKER ASSY & L/D CSG TOOLS. BREAK CIRC.
22:30	0.50	MNH1	CLR		18,610.00	0		INSTALL ROT HEAD.
23:00	1.00	MNH1	CLR		18,610.00	0		RUN IN 4.5" LINER ON DP T/9526'
Total	24.00							

Deepest 5 Surveys

MD (ft)	Inc. (°)	Azi. (°)	TVD (ft)	N/S (ft)	E/W (ft)	V.Sec (ft)	DLeg (°/100ft)	Tool
17,951.00	93.33	339.40	11,573.26	5,715.79	-1,328.33	5,867.50	0.67	PTW MWD+HDGM_2016
18,046.00	91.32	339.99	11,569.41	5,804.81	-1,361.27	5,961.83	2.20	PTW MWD+HDGM_2016
18,140.00	90.70	339.48	11,567.75	5,892.98	-1,393.82	6,055.24	0.85	PTW MWD+HDGM_2016
18,235.00	89.11	338.36	11,567.91	5,981.61	-1,427.99	6,149.49	2.05	PTW MWD+HDGM_2016
18,610.00	89.00	338.00	11,574.10	6,329.70	-1,567.36	6,520.87	0.10	PTW MWD+HDGM_2016

Fluid Details

Mud type	Invermul	Oil/Water (%)	56.00/14.50	POM (cc)	
MD (ft)	18,610.00	TS/HGS/LGS (%)	27.70/19.90/7.90	CaCl2 (%)	
Mud Density (ppg)	14.10	Sand (%)	0.20	Caom/Clom (ppm)	
Vis (s/qt)	67.00	Oil/Water Ratio (%)	79.40/20.60	ACT	
PV/YP (cp/lbf/100ft²)	29.00/13.000	LCM (lbm/bbl)		XS Lime(lbm/bbl)	3.37
Gels 10 s/m (lb/100ft²)	12.000/15.000	ECD (ppg)		ES (Volts)	547.0
API/HTHP WL (cc/30min)	/8.0	H2S (gas unit)		R600/300 (°)	
FC/HTHP FC (32nd")	/4.0	KCl (%)		R200/100 (°)	
WPS (ppm)	274,635			R6/3 (°)	
FL temp. (°F)		Ditch Magnet in Last 24hrs/Cum. (gm)			

Gas Concentrations and Fluid Losses

Avg Connection Gas (gas unit)	Avg. trip gas (gas unit)	Losses Last 24 Hours/Cumulative...
Max. connection gas (gas unit)	Max. trip gas (gas unit)	Surface Losses (bbl) /0.00
Avg. background gas (gas unit)	Avg H2S Gas (gas unit)	Sub Surface Losses (bbl) /0.00
Max. background gas (gas unit)	Max H2S Gas (gas unit)	Total Losses 0.00/0.00
		End vol. (bbl) 0.00

Bulks Summary

Product	Quantity Onboard	Units	Daily Usage
Diesel	-7,841.00		

EP WELLS DAILY OPERATIONS REPORT

Report 33

08/13/2017

Well UNIVERSITY 19 J 0910H
Wellbore UNIVERSITY 19 J 0910H ST01

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
7	6.125	BAKER HUGHES	DD405T			5271885	5x16	17,955.00		-----

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" DP	403	13,347.65	4.000		3.340	XT-39			RIG
SHOCK SUB	1	11.15	5.000		3.000	XT-39			W18150321 A
110 JTS DRILL PIPE	110	3,469.93	5.000		2.750	XT-39			RIG
AGITATOR	1	22.31	5.000		3.000	XT-39			W1857359
53 JTS DRILL PIPE	53	1,667.63	5.000		2.750	XT-39			RIG
CROSSOVER SUB	1	1.95	5.250		2.750	XT-39			DR18060
FLOAT SUB	1	2.96	4.750		2.750	3-1/2 IF			NESFS4751 51
SCREEN SUB	1	3.98	4.880		2.750	3-1/2 IF			DR39155
NON-MAG SLICK COLLAR	1	29.12	4.500		2.562	3-1/2 IF			NESNM4754 45
GAP SUB	1	3.78	5.000		2.750	3-1/2 IF			VG475074P TS
CENTRALIZER SUB	1	8.35	5.000		4.490	DS38			VC475022
LANDING SUB	1	3.42	5.000		3.780	DS38			VL475063
CROSSOVER SUB	1	1.65	5.000		2.750	DS38			VX475115
NON-MAG PONY FLEX COLLAR	1	9.63	5.250		2.380	DS38			PFC475002
PHOENIX 24X MUD MOTOR, LOBES: 6/7. STG: 6.4. FIXED @	1	25.49	5.375			DS38			24XH51300 4-PTS
BIT #6 RUN #2 BAKER DD405T 5X16's. SN: 5271885	1	1.00	6.125	6.125					5271885

Drillstring Details

Date/Time in	Date/Time out	BHA no.	BHA Length (ft)	Min. ID (in)	Purpose
08/09/2017 00:00		7	124.79		DRILL 6.25" OPEN HOLE SIDETRACK

PUMP/HYDRAULIC DATA

Pump No.	Type	Make/Model	Stroke (in)	Liner size (in)	Efficiency (%)	Pressure (psi)	SPM (spm)	Output (gpm)	Kill SPM/Pressure/Depth (spm/psi/ft)
1		GARDENER-DENVER / PZ-11-1600	11.00						
2		GARDENER-DENVER / PZ-11-1600	11.00						

Remarks

FUEL ON LOCATION: 20352 GAL
FUEL USED: 1060 GAL

EP WELLS DAILY OPERATIONS REPORT

Report 34

08/14/2017

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 19 J 0910H
Wellbore	UNIVERSITY 19 J 0910H ST01
WBS No/API No	30265148 / 4230133232.01

Event Summary

Event Type	Drilling only	Event Start Date	06/08/2017	Days on Location	33.33
Objective	Drill - Wolfcamp Beta	Original Spud Date	06/14/2017	Days Since Spud	27.68
Est. Days	21.00	Contractor	ENSIGN		
Work Unit	ENSIGN 775	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	TRAMPUS STEWART	Measured Depth(ft)	18,610.00
Engineer	BRANDON FOOTE	TVD(ft)	11,574.10
Other Supervisor	TREVOR KELLEY	24 Hr Progress(ft)	0.00
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,800.90 / 2,772.90	Hole size(in)	6.125
THF Datum			
Daily NPT(hr/%)	0/0	Last Casing MD	7.000in@11,837.00ft
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	4.500in@18,350.00ft
Actual cost to date/AFE	2,932,095/2,565,881.00	Current MW / BH EMW(ppg)	/
Actual divided by AFE	1.14	LOT/FIT EMW(ppg)	
Daily Cost	140,837	Lithology	
		Formation/MD Top	

HSE Summary

Last Incident	Date	Days	Last Incident	Date	Days	KPI's	
LWC RWC MTC FAC Last casing pressure test	07/05/2017		PSI NII HPI GOAL ZERO DAYS PS BARRIER EVENT PS barrier bowtie review	09/29/2015	685	TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	2500
Safety Comments:							
298 MAN HOURS							

HSE Drills

Drills/Tests	Date	Days Since Last		
Last Derrick Inspection	08/07/2017	7	JSA's/Toolbox Talks	34
Last BOP function test	08/07/2017	7	Days Since Last Drill	
Last BOP Test	08/28/2017			
Next BOP Test				

Operations Summary

24 Hour Summary
RUN 4.5" LINER ON DP T/18610'. CMT 4.5" LINER. SET PACKER. CIRC BACK 20 BBLS T/ SURF. TEST PACKER T/2500 PSI. DISPLACE WELL T/ 10PPG BRINE. POOH. REMOVE BIT GUIDE & INSTALL BPV. N/D BOPS.
Update Since Report Time
WALK RIG T/ UNIVERSITY 19 PW UNIT 1404H & WORK ON TOP DRIVE SERVICE LOOP.
24 Hour Forecast

EP WELLS DAILY OPERATIONS REPORT

Report 34

08/14/2017

Well UNIVERSITY 19 J 0910H
Wellbore UNIVERSITY 19 J 0910H ST01

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	6.00	MNH1	CLR		18,610.00	0		RUN IN 4.5" LINER ON DP F/9526' T/18610'
6:00	0.50	MNH1	CLR		18,610.00	0		P/U PUP JT. DROP 1.5" COMPOSITE BALL
6:30	6.00	MNH1	CEM		18,610.00	0		PJSM W/ BAKER. R/U CIRC IRON, TEST LINES T/7900 PSI. PUMP 50 BBLS SPACER, ULTRA FLSH HV + 1 GAL/BBL US-40+2LBS/BBL ASA-301+312 LBS/BBL BARITE, BULK+1 GAL/BBL SS-2 @ 14.2 PPG PUMP 148 BBLS CMT SLURRY, 14.5 PPG, 50/50 POZ (FLY ASH): PREMIUM PLUS H CEMENT+.005 LBS/SK FREE+ .55% BWOC R-3 + .3% BWOC CD-32+ .01 GPS FP-6L +2% BWOC BENTONITE+ .35 BWOC SODIUM METASILICATE+ .65% BWOC FL-66+ 51.7% FW. DROP PLUG & DISPLACE W/20 BBLS SUGAR WATER, 90 BBLS 10.0 PPG BRINE, 20 BBLS SUGAR WATER, 86 BBLS 13.2 PPG, TOTAL 216 BBLS BUMP PLUG W/400 PSI OVER FCP 3410, FLOATS HELD. BLEED BACK 2.0 BBLS.
12:30	2.00	MNH1	LCH		18,610.00	0		R/D CMT IRON, SET PACKER, CIRC BTMS UP W/ RIG PUMPS, GOT BACK 20 BBLS CMT TO SURF
14:30	0.50	MNH1	SLP		18,610.00	0		TEST PACKER T/2500 PSI
15:00	2.00	MNH1	CDM		18,610.00	0		DISPLACE 13.9 PPG OBM W/10.0 PPG BRINE, CONDUCT NEGATIVE TEST, 2450 PSI HOLD F/ 5 MIN. BLEED OFF 500 PSI. HOLD F/ 5 MIN
17:00	0.50	MNH1	TOH		18,610.00	0		L/D SINGLE, PUP JT & CMT HEAD.
17:30	4.00	MNH1	TOH		18,610.00	0		POOH F/10968' T/93'.
21:30	0.50	MNH1	TOH		18,610.00	0		PULL ROT HEAD.
22:00	0.50	MNH1	TOH		18,610.00	0		L/D LINER RUNNING TOOL.
22:30	1.00	MNH1	TOH		18,610.00	0		REMOVE BIT GUIDE & INSTALL BACK PRESSURE VALVE.
23:30	0.50	MNH1	RDP		18,610.00	0		N/D BOPS & PREPARE TO WALK RIG
Total	24.00							

Deepest 5 Surveys

MD (ft)	Inc. (°)	Azi. (°)	TVD (ft)	N/S (ft)	E/W (ft)	V.Sec (ft)	DLeg (°/100ft)	Tool
17,951.00	93.33	339.40	11,573.26	5,715.79	-1,328.33	5,867.50	0.67	PTW MWD+HDGM_2016
18,046.00	91.32	339.99	11,569.41	5,804.81	-1,361.27	5,961.83	2.20	PTW MWD+HDGM_2016
18,140.00	90.70	339.48	11,567.75	5,892.98	-1,393.82	6,055.24	0.85	PTW MWD+HDGM_2016
18,235.00	89.11	338.36	11,567.91	5,981.61	-1,427.99	6,149.49	2.05	PTW MWD+HDGM_2016
18,610.00	89.00	338.00	11,574.10	6,329.70	-1,567.36	6,520.87	0.10	PTW MWD+HDGM_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)	

EP WELLS DAILY OPERATIONS REPORT

Report 34

08/14/2017

Well UNIVERSITY 19 J 0910H
Wellbore UNIVERSITY 19 J 0910H ST01

Gas Concentrations and Fluid Losses

Avg Connection Gas (gas unit)	Avg. trip gas (gas unit)	Losses Last 24 Hours/Cumulative...	
Max. connection gas (gas unit)	Max. trip gas (gas unit)	Surface Losses (bbl)	/0.00
Avg. background gas (gas unit)	Avg H2S Gas (gas unit)	Sub Surface Losses (bbl)	/0.00
Max. background gas (gas unit)	Max H2S Gas (gas unit)	Total Losses	0.00/0.00
		End vol. (bbl)	0.00

Bulks Summary

Product	Quantity Onboard	Units	Daily Usage
Diesel	-11,696.00		2,069.00

PUMP/HYDRAULIC DATA

Pump No.	Type	Make/Model	Stroke (in)	Liner size (in)	Efficiency (%)	Pressure (psi)	SPM (spm)	Output (gpm)	Kill SPM/Pressure/Depth (spm/psi/ft)
1		GARDENER-DENVER / PZ-11-1600	11.00						
2		GARDENER-DENVER / PZ-11-1600	11.00						

Remarks

FUEL ON LOCATION: 17808 GAL
FUEL USED (RIG): 1696 GAL
FUEL USED (PITS): 2069 GAL

EP WELLS DAILY OPERATIONS REPORT

Report 35

08/15/2017

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 19 J 0910H
Wellbore	UNIVERSITY 19 J 0910H ST01
WBS No/API No	30265148 / 4230133232.01

Event Summary

Event Type	Drilling only	Event Start Date	06/08/2017	Days on Location	33.48
Objective	Drill - Wolfcamp Beta	Original Spud Date	06/14/2017	Days Since Spud	27.82
Est. Days	21.00	Contractor	ENSIGN		
Work Unit	ENSIGN 775	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	STEVE SLOOP	Measured Depth(ft)	18,610.00
Engineer	BRANDON FOOTE	TVD(ft)	11,574.10
Other Supervisor	TREVOR KELLEY	24 Hr Progress(ft)	0.00
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,800.90 / 2,772.90	Hole size(in)	6.125
THF Datum			
Daily NPT(hr/%)	0/0	Last Casing MD	4.500in@18,610.00ft
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	
Actual cost to date/AFE	2,945,037/2,565,881.00	Current MW / BH EMW(ppg)	/
Actual divided by AFE	1.15	LOT/FIT EMW(ppg)	
Daily Cost	9,675	Lithology	
		Formation/MD Top	

HSE Summary

Last Incident	Date	Days	Last Incident	Date	Days	KPI's	
LWC RWC MTC FAC Last casing pressure test	07/05/2017		PSI NII HPI GOAL ZERO DAYS PS BARRIER EVENT PS barrier bowtie review	09/29/2015	686	TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	2500
Safety Comments:							

HSE Drills

Drills/Tests	Date	Days Since Last		
Last Derrick Inspection	08/07/2017	8	JSA's/Toolbox Talks	35
Last BOP function test	08/07/2017	8	Days Since Last Drill	
Last BOP Test	08/28/2017			
Next BOP Test				

Operations Summary

24 Hour Summary
PULL BIT GUIDE & INSTALL BPV. N/D BOPS & LIFT STACK. RELEASE RIG @0330
Update Since Report Time
24 Hour Forecast

EP WELLS DAILY OPERATIONS REPORT

Report 35

08/15/2017

Well UNIVERSITY 19 J 0910H
Wellbore UNIVERSITY 19 J 0910H ST01

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	1.00	MNH1	RDP		18,610.00	0		PULL BIT GUIDE
1:00	0.50	MNH1	RDP		18,610.00	0		P/U M/U BIT SUB & BIT
1:30	1.00	MNH1	RDP		18,610.00	0		INSTALL BPV
2:30	1.00	RIGM	RGD		18,610.00	0		BREAK SPEED HEAD & LIFT STACK WHILE PREPPING TO WALK RIG. RIG RELEASED @ 0330
Total	3.50							

Deepest 5 Surveys

MD (ft)	Inc. (°)	Azi. (°)	TVD (ft)	N/S (ft)	E/W (ft)	V.Sec (ft)	DLeg (°/100ft)	Tool
17,951.00	93.33	339.40	11,573.26	5,715.79	-1,328.33	5,867.50	0.67	PTW MWD+HDGM_2016
18,046.00	91.32	339.99	11,569.41	5,804.81	-1,361.27	5,961.83	2.20	PTW MWD+HDGM_2016
18,140.00	90.70	339.48	11,567.75	5,892.98	-1,393.82	6,055.24	0.85	PTW MWD+HDGM_2016
18,235.00	89.11	338.36	11,567.91	5,981.61	-1,427.99	6,149.49	2.05	PTW MWD+HDGM_2016
18,610.00	89.00	338.00	11,574.10	6,329.70	-1,567.36	6,520.87	0.10	PTW MWD+HDGM_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)	

PUMP/HYDRAULIC DATA

Pump No.	Type	Make/Model	Stroke (in)	Liner size (in)	Efficiency (%)	Pressure (psi)	SPM (spm)	Output (gpm)	Kill SPM/Pressure/Depth (spm/psi/ft)
1		GARDENER-DENVER / PZ-11-1600	11.00						
2		GARDENER-DENVER / PZ-11-1600	11.00						

EP WELLS DAILY OPERATIONS REPORT

Report 3

06/10/2017

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 19 J 0910H
Wellbore	UNIVERSITY 19 J 0910H
WBS No/API No	30265148 / 4230133232.00

Event Summary

Event Type	Drilling only	Event Start Date	06/08/2017	Days on Location	2.65
Objective	Drill - Wolfcamp Beta	Original Spud Date		Days Since Spud	
Est. Days	21.00	Contractor	ENSIGN		
Work Unit	ENSIGN 775	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	TRAMPUS STEWART	Measured Depth(ft)	148.00
Engineer	BRANDON FOOTE	TVD(ft)	148.00
Other Supervisor	TREVOR KELLEY	24 Hr Progress(ft)	
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,800.90 / 2,772.90	Hole size(in)	30.000
THF Datum			
Daily NPT(hr/%)	0/0	Last Casing MD	
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	20.000in@148.00ft
Actual cost to date/AFE	63,237/2,565,881.00	Current MW / BH EMW(ppg)	/
Actual divided by AFE	0.02	LOT/FIT EMW(ppg)	
Daily Cost	29,172	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	09/29/2015	620	TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	
Safety Comments:							
388 MAN HOURS							

HSE Drills

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

Operations Summary

24 Hour Summary
MOVE CAMPS. SET SUBS & CENTER STEEL. SPOT & PIN DERRICK. SPOT DOGHOUSE, DRAWWORKS HOUSE, LER HOUSE. STRING DRILL LINE
100% R/D 90% MOVED 50% R/U
Update Since Report Time
CONT. STRING DRILL LINE & RAISE DERRICK.
24 Hour Forecast
RAISE RIG FLOOR. SPOT GAS BUSTER, BOPS, STAIR TOWER, SHAKER TANK. R/U OVERBOARD LINES & DUMP LINES.

EP WELLS DAILY OPERATIONS REPORT

Report 3

06/10/2017

Well UNIVERSITY 19 J 0910H
Wellbore UNIVERSITY 19 J 0910H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	6.00	RIGM	RIT		148.00	0		LOAD EQUIPMENT & SECURE ON TRUCKS FOR TRANSPOTATION. WASHING RIG EQUIPMENT.
6:00	12.00	RIGM	RIT		148.00	0		R/D CREW TRAILORS. LOAD SAME. SET SUB MATS, SUBS, CENTER STEEL, HYD HOUSE. HOOK UP ALL HYD LINES. SET UP CAMPS. WIRE UP ENGINES & PUMPS. LOAD OUT MISC LOADS ON OLD LOCATION
18:00	6.00	RIGM	RIT		148.00	0		SPOT & PIN DERRICK, DOGHOUSE, DRAWWORKS, LER HOUSE. STRING DRILL LINE
Total	24.00							

PUMP/HYDRAULIC DATA

Pump No.	Type	Make/Model	Stroke (in)	Liner size (in)	Efficiency (%)	Pressure (psi)	SPM (spm)	Output (gpm)	Kill SPM/Pressure/Depth (spm/psi/ft)
1		GARDENER-DENVER / PZ-11-1600	11.00						
2		GARDENER-DENVER / PZ-11-1600	11.00						

EP WELLS DAILY OPERATIONS REPORT

Report 4

06/11/2017

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 19 J 0910H
Wellbore	UNIVERSITY 19 J 0910H
WBS No/API No	30265148 / 4230133232.00

Event Summary

Event Type	Drilling only	Event Start Date	06/08/2017	Days on Location	3.65
Objective	Drill - Wolfcamp Beta	Original Spud Date		Days Since Spud	1.00
Est. Days	21.00	Contractor	ENSIGN		
Work Unit	ENSIGN 775	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	TRAMPUS STEWART	Measured Depth(ft)	148.00
Engineer	BRANDON FOOTE	TVD(ft)	148.00
Other Supervisor	TREVOR KELLEY	24 Hr Progress(ft)	
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,800.90 / 2,772.90	Hole size(in)	30.000
THF Datum			
Daily NPT(hr/%)	0/0	Last Casing MD	
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	20.000in@148.00ft
Actual cost to date/AFE	292,238/2,565,881.00	Current MW / BH EMW(ppg)	/
Actual divided by AFE	0.11	LOT/FIT EMW(ppg)	
Daily Cost	229,001	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	09/29/2015	621	TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	
Safety Comments:							
324 MAN HOURS							

HSE Drills

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

Operations Summary

24 Hour Summary
STRING DRILL LINE, RAISE DERRICK, RAISE RIG FLOOR. SET STAIRTOWER, GAS BUSTER, BOPS. POWER UP RIG. RIGGING UP BACKYARD. SPOOL DRAWWORKS. UNPIN AND LOWER TOP DRIVE.
Update Since Report Time
CONT. RIGGING UP BACKYARD. WORK ON TOP DRIVE BLOWER MOTOR. SET CATWALK. R/U MISC. NOTIFIED TRRC OF SPUD, 9 5/8" CSG & CMT @0300. SPOKE WITH MICHELLE, OPERATOR #12
24 Hour Forecast
CONT. R/U

EP WELLS DAILY OPERATIONS REPORT

Report 4

06/11/2017

Well UNIVERSITY 19 J 0910H
Wellbore UNIVERSITY 19 J 0910H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	6.00	RIGM	RIT		148.00	0		STRING DRILL LINE, RAISE DERRICK, RAISE RIG FLOOR. SET STAIRS FROM LER TO RIG FLOOR, PULL WIRES REMOVE RAISING CYLINDERS
6:00	12.00	RIGM	RIT		148.00	0		SET STAIRTOWER, GAS BUSTER, SET UMBILICAL WIRE UP SAME, FINISH PLUGGING IN RIG FLOOR, DRAWWORKS & LER. PICK BOPS SET ON STUMP INSTALL FLOWLINE SET TRANSFER TANK. START DRESSING OUT TANK. POWER UP RIG. INSTALL STAND PIPE. FILLING PITS W/ WATER.
18:00	6.00	RIGM	RIT		148.00	0		UNHANG MONKEY BOARDS. SPOOL DRAWWORKS. UNPIN & LOWER TOP DRIVE. RIGGING UP BACK YARD
Total	24.00							

PUMP/HYDRAULIC DATA

Pump No.	Type	Make/Model	Stroke (in)	Liner size (in)	Efficiency (%)	Pressure (psi)	SPM (spm)	Output (gpm)	Kill SPM/Pressure/Depth (spm/psi/ft)
1		GARDENER-DENVER / PZ-11-1600	11.00						
2		GARDENER-DENVER / PZ-11-1600	11.00						

EP WELLS DAILY OPERATIONS REPORT

Report 5

06/12/2017

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 19 J 0910H
Wellbore	UNIVERSITY 19 J 0910H
WBS No/API No	30265148 / 4230133232.00

Event Summary

Event Type	Drilling only	Event Start Date	06/08/2017	Days on Location	4.65
Objective	Drill - Wolfcamp Beta	Original Spud Date		Days Since Spud	0.00
Est. Days	21.00	Contractor	ENSIGN		
Work Unit	ENSIGN 775	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	TRAMPUS STEWART	Measured Depth(ft)	148.00
Engineer	BRANDON FOOTE	TVD(ft)	148.00
Other Supervisor	TREVOR KELLEY	24 Hr Progress(ft)	0.00
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,800.90 / 2,772.90	Hole size(in)	30.000
THF Datum			
Daily NPT(hr/%)	0/0	Last Casing MD	20.000in@148.00ft
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	9.625in@4,785.90ft
Actual cost to date/AFE	189,384/2,565,881.00	Current MW / BH EMW(ppg)	/
Actual divided by AFE	0.07	LOT/FIT EMW(ppg)	
Daily Cost	46,131	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	09/29/2015	622	TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	
Safety Comments:							
274 MAN HOURS							

HSE Drills

Drills/Tests	Date	Days Since Last		
Last Derrick Inspection Last BOP function test Last BOP Test Next BOP Test			JSA's/Toolbox Talks Days Since Last Drill	4

Operations Summary

24 Hour Summary
RIGGING UP BACK YARD. R/U GAS SEPARATOR LINES. WORKING ON TOP DRIVE BLOWER MOTOR. C/O BRAKE CALIPER ON TOP DRIVE. INSTALL BLOWER MOTOR ASSY. R/U PVC & TROUGHS TO RESERVE PIT. FINISH R/U TRANSFER TANK. N/U CONDUCTOR. CONT. WORKING ON TOP DRIVE & PRESPUD CHECKLIST
Update Since Report Time
CONT. WORKING ON TOP DRIVE & PRESPUD CHECKLIST
24 Hour Forecast
FINISH R/U. P/U BHA. SPUD.

EP WELLS DAILY OPERATIONS REPORT

Report 5

06/12/2017

Well UNIVERSITY 19 J 0910H
Wellbore UNIVERSITY 19 J 0910H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	6.00	RIGM	RGU		148.00	0		RIGGING UP BACK YARD. R/U GAS SEPARATOR LINES. WORKING ON TOP DRIVE BLOWER MOTOR.
6:00	12.00	RIGM	RGU		148.00	0		C/O BRAKE CALIPER ON TOP DRIVE. INSTALL BLOWER MOTOR ASSY. R/U PVC & TROUGHS TO RESERVE PIT. FINISH R/U TRANSFER TANK. N/U CONDUCTOR
18:00	6.00	RIGM	RGU		148.00	0		CONT. WORKING ON TOP DRIVE & PRESPUD CHECKLIST
Total	24.00							

PUMP/HYDRAULIC DATA

Pump No.	Type	Make/Model	Stroke (in)	Liner size (in)	Efficiency (%)	Pressure (psi)	SPM (spm)	Output (gpm)	Kill SPM/Pressure/Depth (spm/psi/ft)
1		GARDENER-DENVER / PZ-11-1600	11.00						
2		GARDENER-DENVER / PZ-11-1600	11.00						

Remarks

FUEL ON LOCATION: 15688 GAL
FUEL DELIVERED: 7500 GAL
FUEL USED: 928 GAL

EP WELLS DAILY OPERATIONS REPORT

Report 6

06/13/2017

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 19 J 0910H
Wellbore	UNIVERSITY 19 J 0910H
WBS No/API No	30265148 / 4230133232.00

Event Summary

Event Type	Drilling only	Event Start Date	06/08/2017	Days on Location	5.65
Objective	Drill - Wolfcamp Beta	Original Spud Date		Days Since Spud	0.00
Est. Days	21.00	Contractor	ENSIGN		
Work Unit	ENSIGN 775	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	TRAMPUS STEWART	Measured Depth(ft)	148.00
Engineer	BRANDON FOOTE	TVD(ft)	148.00
Other Supervisor	TREVOR KELLEY	24 Hr Progress(ft)	
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,800.90 / 2,772.90	Hole size(in)	30.000
THF Datum			
Daily NPT(hr/%)	0/0	Last Casing MD	20.000in@148.00ft
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	9.625in@4,785.90ft
Actual cost to date/AFE	281,542/2,565,881.00	Current MW / BH EMW(ppg)	/
Actual divided by AFE	0.11	LOT/FIT EMW(ppg)	
Daily Cost	92,157	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	09/29/2015	623	TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	
Safety Comments:							
256 MAN HOURS							
DISCUSSED H2S & SHALLOW GAS DURING PRE TOUR MEETING							

Drills

Drill Category	Drill Type	Detection (sec)	Complete (sec)	Crew drilled	Pass / Fail	PIC	Comments
HSE Drills	H2S Drill	10.00	60.00	Day	Pass		

HSE Drills

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

Operations Summary

24 Hour Summary
FINISH PRESPUD CHECKLIST & WORKING ON TOP DRIVE. ACCEPT RIG @1800. N/U CONDUCTOR & CENTER. P/U DIR BHA.
Update Since Report Time
SPUD WELL @0030. DRILL T/515'

EP WELLS DAILY OPERATIONS REPORT

Report 6

06/13/2017

Well UNIVERSITY 19 J 0910H
Wellbore UNIVERSITY 19 J 0910H

24 Hour Forecast

DRILL SURFACE

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	6.00	RIGM	RGU		148.00	0		WORK ON PRE SPUD CHECKLIST. FILL TOP DRIVE W/ GEAR OIL, FILLED CONDUCTOR PIPE & TRANSFER TANK. R/U RESERVE PITS. C/O 7 PIN CONDUCTOR FOR BLOWER & LUBE PUMP, INSTALL TOPDRIVE GUARD.
6:00	12.00	RIGM	RGU		148.00	0		FINISH THE WIRING GUARD ON TOP DRIVE CLOSE UP KEVLAR. C/O SAVER SUB. DRESS OUT TOP DRIVE, HANG M/U TONGS BRING HANDLING EQUIP T/ FLOOR. CONDUCT SPIN TEST ON TOP DRIVE, INSTALL MOUSEHOLE, INSTALL SWIVEL PACKING, PRESSURE TEST SURFACE LINES T/2000PSI. RUN 7 PIN CONDUCTOR CABLE INSIDE PROTECTIVE HOSE INSIDE SERVICE LOOP
18:00	3.00	RIGM	RGU		148.00	0		ACCEPT RIG @1800 N/U CONDUCTOR, TIGHTEN TURNBUCKLES TO CENTER CONDUCTOR.
21:00	3.00	SRF1	BHA		148.00	0		P/U DIR BHA
Total	24.00							

Deepest 5 Surveys

MD (ft)	Inc. (°)	Azi. (°)	TVD (ft)	N/S (ft)	E/W (ft)	V.Sec (ft)	DLeg (°/100ft)	Tool
-14.10	0.00	0.00	-14.10	0.00	0.00	0.00	0.00	PTW MWD+HDGM_2016

PUMP/HYDRAULIC DATA

Pump No.	Type	Make/Model	Stroke (in)	Liner size (in)	Efficiency (%)	Pressure (psi)	SPM (spm)	Output (gpm)	Kill SPM/Pressure/Depth (spm/psi/ft)
1		GARDENER-DENVER / PZ-11-1600	11.00						
2		GARDENER-DENVER / PZ-11-1600	11.00						

Remarks

FUEL ON LOCATION: 14840 GAL
FUEL USED : 848 GAL

EP WELLS DAILY OPERATIONS REPORT

Report 7

06/14/2017

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 19 J 0910H
Wellbore	UNIVERSITY 19 J 0910H
WBS No/API No	30265148 / 4230133232.00

Event Summary

Event Type	Drilling only	Event Start Date	06/08/2017	Days on Location	6.65
Objective	Drill - Wolfcamp Beta	Original Spud Date	06/14/2017	Days Since Spud	0.99
Est. Days	21.00	Contractor	ENSIGN		
Work Unit	ENSIGN 775	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	TRAMPUS STEWART	Measured Depth(ft)	2,800.00
Engineer	POWER CHARLES	TVD(ft)	2,783.26
Other Supervisor	TREVOR KELLEY	24 Hr Progress(ft)	2,652.00
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,800.90 / 2,772.90	Hole size(in)	9.625
THF Datum			
Daily NPT(hr/%)	5.00/20.83	Last Casing MD	20.000in@148.00ft
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	9.625in@4,923.00ft
Actual cost to date/AFE	377,480/2,565,881.00	Current MW / BH EMW(ppg)	10.10/
Actual divided by AFE	0.15	LOT/FIT EMW(ppg)	
Daily Cost	80,211	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	09/29/2015	624	TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	
Safety Comments:							
268 MAN HOURS							

HSE Drills

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

Operations Summary

24 Hour Summary
SPUD @00:30. ROTATE & SLIDE DRILL T/2800'
4.5 HRS NPT CLEANING RADIATORS DUE TO ENGINES OVERHEATING
Update Since Report Time
DRILL T/3171'
24 Hour Forecast
DRILL T/ TD @ 4923'. CIRC. POOH. RUN 9 5/8" CSG

EP WELLS DAILY OPERATIONS REPORT

Report 7

06/14/2017

Well UNIVERSITY 19 J 0910H
Wellbore UNIVERSITY 19 J 0910H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	0.50	SRF1	BHA		148.00	0		P/U & TEST DRILL THRU SUBS
0:30	1.00	SRF1	DRL		300.00	0		ROTARY DRILL F/135' T/300' (165' @ 165 FPH) WOB: 20K RPM: SURF 20 MOTOR 150 BIT 170 PSI & FLOW: SPP 600 GPM 600 DIFF 400-800 STRING WT: P/U 110, S/O 100, ROT 105 TORQUE: ON BTM 6-8 OFF BTM 2-3 MW: 8.7 PPG MOTOR: .25 REV/GAL GAS: BG 0 CG 0
1:30	0.50	SRF1	DRL		348.00	0		SLIDE DRILL F/300' T/348' (48' @ 96 FPH) WOB: 20K RPM: SURF MOTOR 150 BIT 150 PSI & FLOW: SPP 600 GPM 600 DIFF 400 STRING WT: P/U 110, S/O 100, ROT TORQUE: ON BTM OFF BTM MW: 8.7 PPG MOTOR: .25 REV/GAL GAS: BG 0 CG 0
2:00	1.50	SRF1	DRL		488.00	0		ROTARY DRILL F/348' T/488' (140' @ 93.3 FPH) WOB: 20K RPM: SURF 20 MOTOR 150 BIT 170 PSI & FLOW: SPP 1950 GPM 600 DIFF 400-800 STRING WT: P/U 110, S/O 100, ROT 105 TORQUE: ON BTM 6-8 OFF BTM 2-3 MW: 8.8 PPG MOTOR: .25 REV/GAL GAS: BG 0 CG 0
3:30	0.50	SRF1	DRL		488.00	1		UNPLUG PVC PIPE ON CUTTING CHUTE
4:00	0.50	SRF1	DRL		526.00	0		ROTARY DRILL F/488' T/526' (38' @ 76 FPH) WOB: 20K RPM: SURF 80 MOTOR 225 BIT 305 PSI & FLOW: SPP 1950 GPM 900 DIFF 400-800 STRING WT: P/U 110, S/O 100, ROT 105 TORQUE: ON BTM 6-8 OFF BTM 2-3 MW: 8.8 PPG MOTOR: .25 REV/GAL GAS: BG 0 CG 0
4:30	0.50	SRF1	DRL		560.00	0		SLIDE DRILL F/526' T/560' (34' @ 68 FPH) WOB: 20K RPM: SURF MOTOR 225 BIT 225 PSI & FLOW: SPP 1950 GPM 900 DIFF 400 STRING WT: P/U 110, S/O 100, ROT TORQUE: ON BTM OFF BTM MW: 8.8 PPG MOTOR: .25 REV/GAL GAS: BG 0 CG 0
5:00	2.50	SRF1	DRL		942.00	0		ROTARY DRILL F/560' T/942' (382' @ 152.8 FPH) WOB: 20K RPM: SURF 80 MOTOR 225 BIT 305 PSI & FLOW: SPP 1950 GPM 900 DIFF 475 STRING WT: P/U 120, S/O 110, ROT 115 TORQUE: ON BTM 6-8 OFF BTM 2-3 MW: 8.9 PPG MOTOR: .25 REV/GAL GAS: BG 0 CG 0
7:30	0.50	SRF1	DRL		942.00	0		INSTALL ROT HEAD
8:00	1.00	SRF1	DRL		1,160.00	0		ROTARY DRILL F/942' T/1160' (218' @ 218 FPH) WOB: 20K RPM: SURF 85 MOTOR 225 BIT 310 PSI & FLOW: SPP 2100 GPM 900 DIFF 500 STRING WT: P/U 120, S/O 110, ROT 115 TORQUE: ON BTM 11-12 OFF BTM 2-3 MW: 9.1 PPG

EP WELLS DAILY OPERATIONS REPORT

Report 7

06/14/2017

Well UNIVERSITY 19 J 0910H
Wellbore UNIVERSITY 19 J 0910H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								MOTOR: .25 REV/GAL GAS: BG 0 CG 0
9:00	0.50	SRF1	DRL		1,199.00	0		SLIDE DRILL F/1160' T/1199' (39' @ 78 FPH) WOB: 18-20K RPM: SURF MOTOR 225 BIT 225 PSI & FLOW: SPP 2250 GPM 900 DIFF 170-200 STRING WT: P/U 125, S/O 115, ROT TORQUE: ON BTM OFF BTM MW: 9.1 PPG MOTOR: .25 REV/GAL GAS: BG 0 CG 0
9:30	3.50	SRF1	DRL		1,924.00	0		ROTARY DRILL F/1199' T/1924' (725' @ 207.1 FPH) WOB: 20K RPM: SURF 85 MOTOR 225 BIT 310 PSI & FLOW: SPP 2300 GPM 900 DIFF 500 STRING WT: P/U 140, S/O 130, ROT 135 TORQUE: ON BTM 11-12 OFF BTM 2-3 MW: 9.8 PPG MOTOR: .25 REV/GAL GAS: BG 0 CG 0
13:00	0.50	SRF1	DRL		1,944.00	0		SLIDE DRILL F/1924' T/1944' (20' @ 40 FPH) WOB: 15-18K RPM: SURF MOTOR 225 BIT 225 PSI & FLOW: SPP 2700 GPM 900 DIFF 575 STRING WT: P/U 140, S/O 130, ROT TORQUE: ON BTM OFF BTM MW: 10.1 PPG MOTOR: .25 REV/GAL GAS: BG 0 CG 0
13:30	3.50	SRF1	DRL		2,539.00	0		ROTARY DRILL F/1944' T/2539' (595' @ 170 FPH) WOB: 38K RPM: SURF 85 MOTOR 225 BIT 310 PSI & FLOW: SPP 2735 GPM 900 DIFF 850 STRING WT: P/U 155, S/O 145, ROT 155 TORQUE: ON BTM 12-15 OFF BTM 3-4 MW: 10.1 PPG MOTOR: .25 REV/GAL GAS: BG 0 CG 0
17:00	4.50	SRF1	DRL		2,539.00	1		ENGINES RUNNING HOT (CIRC WHILE CLEANING RADIATORS)
21:30	2.50	SRF1	DRL		2,800.00	0		*REDUCED PUMP RATE DUE TO 1 GENERATOR STILL DOWN ROTARY DRILL F/2539' T/2800' (261' @ 104.4 FPH) WOB: 20-30K RPM: SURF 70 MOTOR 187.5 BIT 257.5 PSI & FLOW: SPP 2500 GPM 750 DIFF 850 STRING WT: P/U 155, S/O 145, ROT 155 TORQUE: ON BTM 12-15 OFF BTM 3-4 MW: 9.8 PPG MOTOR: .25 REV/GAL GAS: BG 0 CG 0
Total	24.00							

EP WELLS DAILY OPERATIONS REPORT

Report 7

06/14/2017

Well UNIVERSITY 19 J 0910H
Wellbore UNIVERSITY 19 J 0910H

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
06/14/2017 03:30	ENSIGN UNITED STATES DRILLING INC	Rig/Work Unit Misc	488.00	DRL	N		0.50	0.50		OPEN
Description: UNPLUG PVC PIPE ON CUTTING CHUTE						Title: PVC CLOGGED				
06/14/2017 17:00	ENSIGN UNITED STATES DRILLING INC	Rig/Work Unit Misc	2,539.00	DRL	N		4.50	4.50		OPEN
Description: GENERATOR RADIATORS CLOGGED						Title: GENERATOR RADIATORS CLOGGED				
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
1,934.90	6.83	148.87	1,924.45	-147.70	102.74	-170.26	0.79	PTW MWD+HDGM_2016
2,113.90	6.74	142.05	2,102.20	-165.10	114.70	-190.27	0.45	PTW MWD+HDGM_2016
2,292.90	6.79	142.98	2,279.95	-181.83	127.53	-209.89	0.07	PTW MWD+HDGM_2016
2,470.90	7.02	140.16	2,456.66	-198.58	140.83	-229.65	0.23	PTW MWD+HDGM_2016
2,649.90	7.03	139.71	2,634.32	-215.34	154.92	-249.64	0.03	PTW MWD+HDGM_2016

Fluid Details

Mud type	NaCl Brine	Oil/Water (%)	0.00/88.00	pH/Pm (cc)	9.00/0.40
MD (ft)	2,307.00	TS/HGS/LGS (%)	3.00/0.20/2.80	Pf/Mf (cc)	0.10/0.20
Mud Density (ppg)	10.10	Sand (%)	0.10	Ca+ (ppm)	156,000
Vis (s/qt)	28.00			Cl- (ppm)	
PV/YP (cp/lbf/100ft²)	1.00/3.000	MBT (lbm/bbl)	10.760	R600/300 (°)	
Gels 10 s/m (lbf/100ft²)	1.000/1.000	LCM (lbm/bbl)		R200/100 (°)	
API/HTHP WL (cc/30min)	100.0/	ECD (ppg)		R6/3 (°)	
FC/HTHP FC (32nd")	2.0/	H2S (gas unit)			
FL temp. (°F)		KCl (%)			
		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 HUGHES	T606FX			7163805	6x18	135.00		-----

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)
300.00	20.0/20.0	20	600.0	600.00	150.63	25.10	52.72	1.00	165.00	165.0	1.00	165.00	165.0
348.00	20.0/20.0	0	600.0	600.00	150.63	25.10	52.72	0.50	48.00	96.0	1.50	213.00	142.0
488.00	20.0/20.0	20	600.0	1,950.00	150.63	7.72	52.72	1.50	140.00	93.3	3.00	353.00	117.7
526.00	20.0/20.0	80	900.0	1,950.00	338.91	17.38	177.93	0.50	38.00	76.0	3.50	391.00	111.7
560.00	20.0/20.0	0	900.0	1,950.00	338.91	17.38	177.93	0.50	34.00	68.0	4.00	425.00	106.2
942.00	20.0/20.0	80	900.0	1,950.00	338.91	17.38	177.93	2.50	382.00	152.8	6.50	807.00	124.2
1,160.00	20.0/20.0	85	900.0	2,100.00	338.91	16.14	177.93	1.00	218.00	218.0	7.50	1,025.00	136.7
1,199.00	18.0/20.0	0	900.0	2,250.00	338.91	15.06	177.93	0.50	39.00	78.0	8.00	1,064.00	133.0
1,924.00	20.0/20.0	85	900.0	2,300.00	338.91	14.74	177.93	3.50	725.00	207.1	11.50	1,789.00	155.6
1,944.00	15.0/18.0	0	900.0	2,700.00	338.91	12.55	177.93	0.50	20.00	40.0	12.00	1,809.00	150.7
2,539.00	38.0/38.0	85	900.0	2,735.00	338.91	12.39	177.93	3.50	595.00	170.0	15.50	2,404.00	155.1
2,800.00	20.0/30.0	70	750.0	2,500.00	235.35	9.41	102.97	2.50	261.00	104.4	18.00	2,665.00	148.1

EP WELLS DAILY OPERATIONS REPORT

Report 7

06/14/2017

Well UNIVERSITY 19 J 0910H
Wellbore UNIVERSITY 19 J 0910H

Drillstring Components

Item description	# Jts	Length (ft)	OD (in)	Max OD (in)	ID (in)	Connection Name	Weight (ppf)	Grade	Serial no.
5" DP	59	1,851.46	5.000		4.276				RIG
(12 JTS) HWDP	12	363.00	6.500		3.250	4-1/2 IF			RIG
CROSSOVER	1	2.34	6.700		2.810	4 1/2 IF			NESXO6755 48
(15 JTS) DC'S	15	450.00	6.500		2.500	4 1/2 XH			RIG
CROSSOVER	1	2.70	8.000		2.875	4 1/2 XH			NESXO8000 88
SCREEN SUB	1	3.37	8.000		3.250	6 5/8 REG			DR32190
SHOCK SUB	1	11.37	8.000		2.875	6 5/8 REG			SD900166
STABILIZER	1	7.92	12.000		2.875	6 5/8 REG			DR32990
NON-MAG SLICK COLLAR	1	29.35	7.750		3.250	6 5/8 REG			NESNM8000 65
STABILIZER	1	7.31	12.000		2.875	6 5/8 REG			DR30120
GAP SUB	1	3.57	8.125		3.250	6 5/8 FH			VG800031P TS
CENTRALIZER COLLAR	1	8.55	8.250		3.250	6 5/8 FH			VC800026
LANDING SUB	1	3.73	8.250		3.250	6 5/8 REG			VL800020
CROSSOVER SUB	1	1.55	8.000		3.250	6 5/8 REG			VX800022
NON-MAG PONY SLICK COLLAR	1	14.91	8.125		2.875	6 5/8 REG			NESPC8001 38
STABILIZER	1	7.62	12.000		3.000	6 5/8 REG			DR29402
7.75" PHOENIX 24X MUD MOTOR. 4/5 LOBE. 5.3 STG. ADJ	1	29.75	12.000			6 5/8 REG			24X-775473- PTS
BIT #1 RUN #1 BAKER T606FX , SN: 7163805. 6x18's	1	1.50	12.250	12.250					7163805

Drillstring Details

Date/Time in		Date/Time out		BHA no.	BHA Length (ft)	Min. ID (in)	Purpose
06/14/2017 00:30				1	948.54		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)
300.00	110.0	100.00	105.00	5.00	8,000.0	3,000.0	165.00
348.00	110.0	100.00	0.00	110.00	0.0	0.0	48.00
488.00	110.0	100.00	105.00	5.00	8,000.0	3,000.0	140.00
526.00	110.0	100.00	105.00	5.00	8,000.0	3,000.0	38.00
560.00	110.0	100.00	0.00	110.00	0.0	0.0	34.00
942.00	120.0	110.00	115.00	5.00	8,000.0	3,000.0	382.00
1,160.00	120.0	110.00	115.00	5.00	12,000.0	3,000.0	218.00
1,199.00	125.0	115.00	0.00	125.00	0.0	0.0	39.00
1,924.00	140.0	130.00	135.00	5.00	12,000.0	3,000.0	725.00
1,944.00	140.0	130.00	0.00	140.00	0.0	0.0	20.00
2,539.00	155.0	145.00	155.00	0.00	15,000.0	4,000.0	595.00
2,800.00	155.0	145.00	155.00	0.00	15,000.0	4,000.0	261.00

PUMP/HYDRAULIC DATA

Pump No.	Type	Make/Model	Stroke (in)	Liner size (in)	Efficiency (%)	Pressure (psi)	SPM (spm)	Output (gpm)	Kill SPM/Pressure/Depth (spm/psi/ft)
1		GARDENER-DENVER / PZ-11-1600	11.00						
2		GARDENER-DENVER / PZ-11-1600	11.00						

EP WELLS DAILY OPERATIONS REPORT

Report 7 06/14/2017

Well UNIVERSITY 19 J 0910H
Wellbore UNIVERSITY 19 J 0910H

Remarks

FUEL ON LOCATION: 19080 GAL
FUEL DELIVERED: 7500 GAL
FUEL USED: 3260 GAL

EP WELLS DAILY OPERATIONS REPORT

Report 8

06/15/2017

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 19 J 0910H
Wellbore	UNIVERSITY 19 J 0910H
WBS No/API No	30265148 / 4230133232.00

Event Summary

Event Type	Drilling only	Event Start Date	06/08/2017	Days on Location	7.65
Objective	Drill - Wolfcamp Beta	Original Spud Date	06/14/2017	Days Since Spud	1.99
Est. Days	21.00	Contractor	ENSIGN		
Work Unit	ENSIGN 775	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	TRAMPUS STEWART	Measured Depth(ft)	4,923.00
Engineer	POWER CHARLES	TVD(ft)	4,889.57
Other Supervisor	TREVOR KELLEY	24 Hr Progress(ft)	2,123.00
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,800.90 / 2,772.90	Hole size(in)	9.625
THF Datum			
Daily NPT(hr/%)	0.50/2.08	Last Casing MD	20.000in@148.00ft
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	9.625in@4,923.00ft
Actual cost to date/AFE	442,553/2,565,881.00	Current MW / BH EMW(ppg)	10.00/
Actual divided by AFE	0.17	LOT/FIT EMW(ppg)	
Daily Cost	65,073	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	09/29/2015	625	TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	
Safety Comments:							
236 MAN HOURS							

HSE Drills

Drills/Tests	Date	Days Since Last	JSA's/Toolbox Talks Days Since Last Drill	7
Last Derrick Inspection Last BOP function test Last BOP Test Next BOP Test				

Operations Summary

24 Hour Summary
DRILL F/2800' T/4923'. CIRC. POOH T/4923'
Update Since Report Time
POOH T/BHA.
24 Hour Forecast
C/O MOTOR & BIT, RACK BACK BHA. N/D CONDUCTOR. RUN 9 5/8" CSG. SKID RIG. OFFLINE CEMENT.

EP WELLS DAILY OPERATIONS REPORT

Report 8

06/15/2017

Well UNIVERSITY 19 J 0910H
Wellbore UNIVERSITY 19 J 0910H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	0.50	SRF1	DRL		2,817.00	0		*REDUCED PUMP RATE DUE TO 1 GENERATOR STILL DOWN ROTARY DRILL F/2800' T/2817' (17' @ 34 FPH) WOB: 20-30K RPM: SURF 70 MOTOR 187.5 BIT 257.5 PSI & FLOW: SPP 2500 GPM 750 DIFF 850 STRING WT: P/U 155, S/O 145, ROT 155 TORQUE: ON BTM 12-15 OFF BTM 3-4 MW: 9.8 PPG MOTOR: .25 REV/GAL GAS: BG 0 CG 0
0:30	3.50	SRF1	DRL		3,262.00	0		ROTARY DRILL F/2817' T/3262' (445' @ 127.1 FPH) WOB: 40-45K RPM: SURF 70 MOTOR 213 BIT 283 PSI & FLOW: SPP 3100 GPM 850 DIFF 700 STRING WT: P/U 180, S/O 160, ROT 170 TORQUE: ON BTM 12-15 OFF BTM 3-4 MW: 9.8 PPG MOTOR: .25 REV/GAL GAS: BG 0 CG 0
4:00	7.00	SRF1	DRL		3,979.00	0		ROTARY DRILL F/3262' T/3979' (717' @ 102.4 FPH) WOB: 35-38K RPM: SURF 70 MOTOR 213 BIT 283 PSI & FLOW: SPP 3100 GPM 850 DIFF 700 STRING WT: P/U 180, S/O 160, ROT 170 TORQUE: ON BTM 11-12 OFF BTM 3-4 MW: 9.9 PPG MOTOR: .25 REV/GAL GAS: BG 0 CG 0
11:00	0.50	SRF1	DRL		3,988.00	0		SLIDE DRILL F/3979' T/3988' (9' @ 18 FPH) WOB: 19K RPM: SURF MOTOR 213 BIT 213 PSI & FLOW: SPP 3285 GPM 850 DIFF 415 STRING WT: P/U 180, S/O 160, ROT 170 TORQUE: ON BTM OFF BTM MW: 9.9 PPG MOTOR: .25 REV/GAL GAS: BG 0 CG 0
11:30	0.50	SRF1	DRL		3,988.00	1		NPT: REPLACE O RING ON STANDPIPE. WORK PIPE.
12:00	0.50	SRF1	DRL		4,008.00	0		SLIDE DRILL F/3988' T/4008' (20' @ 40 FPH) WOB: 28K RPM: SURF MOTOR 213 BIT 213 PSI & FLOW: SPP 3285 GPM 850 DIFF 500 STRING WT: P/U 180, S/O 160, ROT 170 TORQUE: ON BTM OFF BTM MW: 9.9 PPG MOTOR: .25 REV/GAL GAS: BG 0 CG 0
12:30	2.00	SRF1	DRL		4,190.00	0		ROTARY DRILL F/4008' T/4190' (182' @ 91 FPH) WOB: 40K RPM: SURF 80 MOTOR 213 BIT 293 PSI & FLOW: SPP 3265 GPM 850 DIFF 650 STRING WT: P/U 200, S/O 175, ROT 185 TORQUE: ON BTM 11-12 OFF BTM 3-4 MW: 10 PPG MOTOR: .25 REV/GAL GAS: BG 0 CG 0
14:30	3.50	SRF1	DRL		4,515.00	0		2 HRS DRILLING WITH 1 GENERATOR DOWN ROTARY DRILL F/4190' T/4515' (325' @ 92.9 FPH) WOB: 40K RPM: SURF 80 MOTOR 188 BIT 268 PSI & FLOW: SPP 3088 GPM 750 DIFF 800 STRING WT: P/U 200, S/O 175, ROT 185 TORQUE: ON BTM 12-14 OFF BTM 3-4

EP WELLS DAILY OPERATIONS REPORT

Report 8

06/15/2017

Well UNIVERSITY 19 J 0910H
Wellbore UNIVERSITY 19 J 0910H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
								MW: 10 PPG MOTOR: .25 REV/GAL GAS: BG 0 CG 0 PUMP 50 BBL CALIPER SWEEP. (39% WASH 242 BBLS)
18:00	4.00	SRF1	DRL		4,923.00	0		.5 HRS DRILLING WITH 1 GENERATOR DOWN ROTARY DRILL F/4515' T/4923' (408' @ 102 FPH) WOB: 40K RPM: SURF 80 MOTOR 188 BIT 268 PSI & FLOW: SPP 3500 GPM 750 DIFF 800 STRING WT: P/U 200, S/O 175, ROT 185 TORQUE: ON BTM 12-14 OFF BTM 3-4 MW: 10 PPG MOTOR: .25 REV/GAL GAS: BG 0 CG 0
22:00	1.50	SRF1	CBU		4,923.00	0		CIRC SWEEP B/U. PUMP CALIPER SWEEP (34% WASHOUT)
23:30	0.50	SRF1	TOH		4,923.00	0		POOH T/4185'
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
06/15/2017 11:30	ENSIGN UNITED STATES DRILLING INC	Rig/Work Unit Misc	3,988.00	DRL	EN	Standpipe Manifold	0.50	0.50		OPEN
Description: REPLACE O RING STANDPIPE						Title: REPLACE O RING STANDPIPE				
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
4,079.90	7.64	134.61	4,052.58	-343.26	284.89	-408.36	0.67	PTW MWD+HDGM_2016
4,257.90	7.16	133.88	4,229.10	-359.26	301.31	-428.26	0.27	PTW MWD+HDGM_2016
4,436.90	6.50	133.13	4,406.83	-373.92	316.75	-446.60	0.37	PTW MWD+HDGM_2016
4,615.90	6.49	130.09	4,584.68	-387.36	331.88	-463.68	0.19	PTW MWD+HDGM_2016
4,794.90	7.04	125.37	4,762.43	-400.22	348.56	-480.64	0.44	PTW MWD+HDGM_2016

Fluid Details

Mud type	NaCl Brine	Oil/Water (%)	0.00/89.00	pH/Pm (cc)	9.00/0.40
MD (ft)	4,426.00	TS/HGS/LGS (%)	1.50/0.50/1.00	Pf/Mf (cc)	0.15/0.30
Mud Density (ppg)	10.00	Sand (%)	0.20	Ca+ (ppm)	
Vis (s/qt)	28.00			Cl- (ppm)	162,000
PV/YP (cp/lbf/100ft²)	1.00/3.000	MBT (lbm/bbl)			
Gels 10 s/m (lbf/100ft²)	1.000/2.000	LCM (lbm/bbl)			
API/HTHP WL (cc/30min)	100.0/	ECD (ppg)	10.780	R600/300 (°)	
FC/HTHP FC (32nd")	3.0/	H2S (gas unit)		R200/100 (°)	
		KCl (%)		R6/3 (°)	
FL temp. (°F)		Ditch Magnet in Last 24hrs/Cum. (gm)			

Bit Details

Bit no.	Size (in)	Manufacturer	Model no.	Class	IADC code	Serial no.	Size (32nd")	MD in (ft)	MD out (ft)	IADC Dull Grade
1	12.250	BAKER HUGHES	T606FX			7163805	6x18	135.00		-----

EP WELLS DAILY OPERATIONS REPORT

Report 8

06/15/2017

Well UNIVERSITY 19 J 0910H
Wellbore UNIVERSITY 19 J 0910H

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)
2,817.00	20.0/30.0	70	750.0	2,500.00	228.36	9.13	99.91	0.50	17.00	34.0	18.50	2,682.00	145.0
3,262.00	40.0/45.0	70	850.0	3,100.00	293.32	9.46	145.44	3.50	445.00	127.1	22.00	3,127.00	142.1
3,979.00	35.0/38.0	70	850.0	3,100.00	296.31	9.56	146.92	7.00	717.00	102.4	29.00	3,844.00	132.6
3,988.00	19.0/19.0	0	850.0	3,285.00	296.31	9.02	146.92	0.50	9.00	18.0	29.50	3,853.00	130.6
4,008.00	28.0/28.0	0	850.0	3,285.00	296.31	9.02	146.92	0.50	20.00	40.0	30.00	3,873.00	129.1
4,190.00	40.0/40.0	80	850.0	3,265.00	299.31	9.17	148.41	2.00	182.00	91.0	32.00	4,055.00	126.7
4,515.00	40.0/40.0	80	750.0	3,088.00	233.02	7.55	101.95	3.50	325.00	92.9	35.50	4,380.00	123.4
4,923.00	40.0/40.0	80	750.0	3,500.00	233.02	6.66	101.95	4.00	408.00	102.0	39.50	4,788.00	121.2

Drillstring Components

Item description	# Jts	Length (ft)	OD (in)	Max OD (in)	ID (in)	Connection Name	Weight (ppf)	Grade	Serial no.
5" DP	126	3,974.46	5.000		4.276				RIG
(12 JTS) HWDP	12	363.00	6.500		3.250	4-1/2 IF			RIG
CROSSOVER	1	2.34	6.700		2.810	4 1/2 IF			NESXO675548
(15 JTS) DC'S	15	450.00	6.500		2.500	4 1/2 XH			RIG
CROSSOVER	1	2.70	8.000		2.875	4 1/2 XH			NESXO800088
SCREEN SUB	1	3.37	8.000		3.250	6 5/8 REG			DR32190
SHOCK SUB	1	11.37	8.000		2.875	6 5/8 REG			SD900166
STABILIZER	1	7.92	12.000		2.875	6 5/8 REG			DR32990
NON-MAG SLICK COLLAR	1	29.35	7.750		3.250	6 5/8 REG			NESNM800065
STABILIZER	1	7.31	12.000		2.875	6 5/8 REG			DR30120
GAP SUB	1	3.57	8.125		3.250	6 5/8 FH			VG800031PTS
CENTRALIZER COLLAR	1	8.55	8.250		3.250	6 5/8 FH			VC800026
LANDING SUB	1	3.73	8.250		3.250	6 5/8 REG			VL800020
CROSSOVER SUB	1	1.55	8.000		3.250	6 5/8 REG			VX800022
NON-MAG PONY SLICK COLLAR	1	14.91	8.125		2.875	6 5/8 REG			NESPC800138
STABILIZER	1	7.62	12.000		3.000	6 5/8 REG			DR29402
7.75" PHOENIX 24X MUD MOTOR. 4/5 LOBE. 5.3 STG. ADJ	1	29.75	12.000			6 5/8 REG			24X-775473-PTS
BIT #1 RUN #1 BAKER T606FX , SN: 7163805. 6x18's	1	1.50	12.250	12.250					7163805

Drillstring Details

Date/Time in		Date/Time out		BHA no.	BHA Length (ft)	Min. ID (in)	Purpose
06/14/2017 00:30				1	948.54		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)
2,817.00	155.0	145.00	155.00	0.00	15,000.0	4,000.0	17.00
3,262.00	180.0	160.00	170.00	10.00	15,000.0	4,000.0	445.00
3,979.00	180.0	160.00	170.00	10.00	12,000.0	4,000.0	717.00
3,988.00	180.0	160.00	0.00	180.00	0.0	0.0	9.00
4,008.00	180.0	160.00	0.00	180.00	0.0	0.0	20.00
4,190.00	200.0	175.00	185.00	15.00	12,000.0	4,000.0	182.00
4,515.00	200.0	175.00	185.00	15.00	14,000.0	4,000.0	325.00
4,923.00	200.0	175.00	185.00	15.00	14,000.0	4,000.0	408.00

EP WELLS DAILY OPERATIONS REPORT

Report 8

06/15/2017

Well UNIVERSITY 19 J 0910H
Wellbore UNIVERSITY 19 J 0910H

PUMP/HYDRAULIC DATA

Pump No.	Type	Make/Model	Stroke (in)	Liner size (in)	Efficiency (%)	Pressure (psi)	SPM (spm)	Output (gpm)	Kill SPM/Pressure/Depth (spm/psi/ft)
1		GARDENER-DENVER / PZ-11-1600	11.00						
2		GARDENER-DENVER / PZ-11-1600	11.00						

Remarks

FUEL ON LOCATION: 18444 GAL
FUEL USED: 2544 GAL

EP WELLS DAILY OPERATIONS REPORT

Report 9

06/16/2017

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 19 J 0910H
Wellbore	UNIVERSITY 19 J 0910H
WBS No/API No	30265148 / 4230133232.00

Event Summary

Event Type	Drilling only	Event Start Date	06/08/2017	Days on Location	8.46
Objective	Drill - Wolfcamp Beta	Original Spud Date	06/14/2017	Days Since Spud	2.80
Est. Days	21.00	Contractor	ENSIGN		
Work Unit	ENSIGN 775	Days To Release			
		Rig Phone/FAX No.			

Well Status

Supervisor	TRAMPUS STEWART	Measured Depth(ft)	4,923.00
Engineer	POWER CHARLES	TVD(ft)	4,889.57
Other Supervisor	TREVOR KELLEY	24 Hr Progress(ft)	0.00
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,800.90 / 2,772.90	Hole size(in)	9.625
THF Datum			
Daily NPT(hr/%)	0/0	Last Casing MD	20.000in@148.00ft
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	9.625in@4,923.00ft
Actual cost to date/AFE	655,830/2,565,881.00	Current MW / BH EMW(ppg)	10.00/
Actual divided by AFE	0.26	LOT/FIT EMW(ppg)	
Daily Cost	213,277	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	09/29/2015	626	TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	
Safety Comments:							
338 MAN HOURS							

HSE Drills

Drills/Tests	Date	Days Since Last		
Last Derrick Inspection Last BOP function test Last BOP Test Next BOP Test			JSA's/Toolbox Talks Days Since Last Drill	8

Operations Summary

24 Hour Summary
POOH T/BHA. C/O BIT & MOTOR, RACK BACK BHA. N/D CONDUCTOR. R/U EXPRESS. RUN 9 5/8" 40# J55 LTC CSG T/4895'. WASH DOWN T/4923'. CIRC 1 CSG VOL. L/O LANDING JOINT & P/U MWD TOOL. RELEASE @1930. OFFLINE CMT JOB.
Update Since Report Time
COMPLETE OFFLINE CMT JOB
24 Hour Forecast

EP WELLS DAILY OPERATIONS REPORT

Report 9

06/16/2017

Well UNIVERSITY 19 J 0910H
Wellbore UNIVERSITY 19 J 0910H

Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	2.00	SRF1	TOH		4,923.00	0		POOH F/4185' T/942'. 2 TIGHT CONNECTIONS ON DP.
2:00	0.50	SRF1	TOH		4,923.00	0		PULL ROT HEAD
2:30	2.00	SRF1	TOH		4,923.00	0		POOH F/942' T/133'. 3 TIGHT CONNECTIONS ON HWDP.
4:30	1.50	SRF1	BHA		4,923.00	0		L/O STAB, SHOCK SUB, MWD TOOL, MOTOR, BIT
6:00	1.00	SRF1	BHA		4,923.00	0		P/U MUD MOTOR AND RACK BACK.
7:00	0.50	SRF1	SVC		4,923.00	0		CLEAN & CLEAR RIG FLOOR
7:30	2.00	SRF1	RIC		4,923.00	0		N/D CONDUCTOR & P/U CONDUCTOR W/ BOP WINCHES
9:30	1.00	SRF1	RIC		4,923.00	0		PJSM W/ EXPRESS & R/U SAME.
10:30	7.00	SRF1	CLR		4,923.00	0		PJSM W/ EXPRESS P/U & M/U SHOE JT & FLOAT COLLAR RUN IN W/ 9 5/8" 40# J55 LTC CSG T/4920'
17:30	0.50	SRF1	RCC		4,923.00	0		WASH DOWN F/4895' T/4923'
18:00	1.00	SRF1	RCC		4,923.00	0		CIRC 1 CSG VOL @4920' @ 5BBL/MIN
19:00	0.50	SRF1	RCC		4,923.00	0		LAY OUT LANDING JT & P/U MWD TOOL RELEASE @1930 **BEGIN OFFLINE CMT JOB
Total	19.50							

Deepest 5 Surveys

MD (ft)	Inc. (°)	Azi. (°)	TVD (ft)	N/S (ft)	E/W (ft)	V.Sec (ft)	DLeg (°/100ft)	Tool
4,079.90	7.64	134.61	4,052.58	-343.26	284.89	-408.36	0.67	PTW MWD+HDGM_2016
4,257.90	7.16	133.88	4,229.10	-359.26	301.31	-428.26	0.27	PTW MWD+HDGM_2016
4,436.90	6.50	133.13	4,406.83	-373.92	316.75	-446.60	0.37	PTW MWD+HDGM_2016
4,615.90	6.49	130.09	4,584.68	-387.36	331.88	-463.68	0.19	PTW MWD+HDGM_2016
4,794.90	7.04	125.37	4,762.43	-400.22	348.56	-480.64	0.44	PTW MWD+HDGM_2016

Fluid Details

Mud type	NaCl Brine	Oil/Water (%)	0.00/89.00	pH/Pm (cc)	9.50/0.50
MD (ft)	4,923.00	TS/HGS/LGS (%)	1.50/0.50/1.00	Pf/Mf (cc)	0.20/0.40
Mud Density (ppg)	10.00	Sand (%)	0.10	Ca+ (ppm)	
Vis (s/qt)	28.00			Cl- (ppm)	162,000
PV/YP (cp/lbf/100ft²)	1.00/3.000	MBT (lbm/bbl)			
Gels 10 s/m (lbf/100ft²)	1.000/2.000	LCM (lbm/bbl)			
API/HTHP WL (cc/30min)	100.0/	ECD (ppg)		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
1	12.250	BAKER HUGHES	T606FX			7163805	6x18	135.00	4,923.00	3-2-BT-C-X-I-CT-TD

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 9

06/16/2017

Well UNIVERSITY 19 J 0910H
Wellbore UNIVERSITY 19 J 0910H

Drillstring Components

Item description	# Jts	Length (ft)	OD (in)	Max OD (in)	ID (in)	Connection Name	Weight (ppf)	Grade	Serial no.
5" DP	126	3,974.46	5.000		4.276				RIG
(12 JTS) HWDP	12	363.00	6.500		3.250	4-1/2 IF			RIG
CROSSOVER	1	2.34	6.700		2.810	4 1/2 IF			NESXO675548
(15 JTS) DC'S	15	450.00	6.500		2.500	4 1/2 XH			RIG
CROSSOVER	1	2.70	8.000		2.875	4 1/2 XH			NESXO800088
SCREEN SUB	1	3.37	8.000		3.250	6 5/8 REG			DR32190
SHOCK SUB	1	11.37	8.000		2.875	6 5/8 REG			SD900166
STABILIZER	1	7.92	12.000		2.875	6 5/8 REG			DR32990
NON-MAG SLICK COLLAR	1	29.35	7.750		3.250	6 5/8 REG			NESNM800065
STABILIZER	1	7.31	12.000		2.875	6 5/8 REG			DR30120
GAP SUB	1	3.57	8.125		3.250	6 5/8 FH			VG800031PTS
CENTRALIZER COLLAR	1	8.55	8.250		3.250	6 5/8 FH			VC800026
LANDING SUB	1	3.73	8.250		3.250	6 5/8 REG			VL800020
CROSSOVER SUB	1	1.55	8.000		3.250	6 5/8 REG			VX800022
NON-MAG PONY SLICK COLLAR	1	14.91	8.125		2.875	6 5/8 REG			NESPC800138
STABILIZER	1	7.62	12.000		3.000	6 5/8 REG			DR29402
7.75" PHOENIX 24X MUD MOTOR. 4/5 LOBE. 5.3 STG. ADJ	1	29.75	12.000			6 5/8 REG			24X-775473-PTS
BIT #1 RUN #1 BAKER T606FX, SN: 7163805. 6x18's	1	1.50	12.250	12.250					7163805

Drillstring Details

Date/Time in	Date/Time out	BHA no.	BHA Length (ft)	Min. ID (in)	Purpose
06/14/2017 00:30	06/16/2017 06:00	1	948.54		DRILL 12.25" SURFACE SECTION

PUMP/HYDRAULIC DATA

Pump No.	Type	Make/Model	Stroke (in)	Liner size (in)	Efficiency (%)	Pressure (psi)	SPM (spm)	Output (gpm)	Kill SPM/Pressure/Depth (spm/psi/ft)
1		GARDENER-DENVER / PZ-11-1600	11.00						
2		GARDENER-DENVER / PZ-11-1600	11.00						

Remarks

FUEL ON LOCATION: 15688 GAL
FUEL USED: 848 GAL