

## EP WELLS DAILY OPERATIONS REPORT

Report 1

12/20/2018

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 20 PW 2501H
Wellbore	UNIVERSITY 20 PW 2501H
WBS No/API No	30293388 / 4249534181.00

## Event Summary

Event Type	Drilling only	Event Start Date	12/20/2018	Days on Location	0.33
Objective	Drill - Wolfcamp Beta 2	Original Spud Date		Days Since Spud	0.00
Est. Days	25.00	Contractor	PRECISION		
Work Unit	PRECISION 565	Days To Release			
		Rig Phone/FAX No.			

## Well Status

Supervisor	Justin Syms	Measured Depth(ft)	146.00
Engineer	Robert Hahn	TVD(ft)	145.97
Other Supervisor	Jeff Stringer	24 Hr Progress(ft)	146.00
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,798.10 / 2,772.10	Hole size(in)	12.250
THF Datum			
Daily NPT(hr/%)	0/0	Last Casing MD	20.000in@146.00ft
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	9.625in@5,000.00ft
Actual cost to date/AFE	54,495/2,899,999.94	Current MW / BH EMW(ppg)	/
Actual divided by AFE	0.02	LOT/FIT EMW(ppg)	
Daily Cost	54,495	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 <b>GOAL ZERO DAYS</b> <b>PS BARRIER EVENT</b> <b>PS barrier bowtie review</b>	08/14/2015	1,224	TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	
Safety Comments:							
No HSE Issues.							
Assist & Assure: Held 7-step discussion with directional drillers and rig crew prior to picking up BHA discussing use of hands-free tools.							

## Operations Summary

24 Hour Summary
Skidded onto well at 16:00 and nipped up the conductor Picked BHA Cementers rigging up on 2502H well
Update Since Report Time
Spudded in at 343'
24 Hour Forecast
Drill to section total depth of approximately 5,000'

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Well UNIVERSITY 20 PW 2501H  
Wellbore UNIVERSITY 20 PW 2501H

## Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
16:00	1.00	SRF1	WLK		146.00	0		Walked rig over to the University 20 Pw 2501H
17:00	1.00	SRF1	WLK		146.00	0		Walked the Power Catwalk over to the rig, hooked up the easyrider and put the transfer tanks in the rest mode.
18:00	6.00	SRF1	BHA		146.00	0		Nipped up the conductor, installed the turnbuckles, installed the mousehole, installed PVC to the pits and prep floor for picking up BHA.
<b>Total</b>	<b>8.00</b>							

## 06.00 Update

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Description
0:00		SRF1	BHA			0	picking up BHA.

## Deepest 5 Surveys

MD (ft)	Inc. (°)	Azi. (°)	TVD (ft)	N/S (ft)	E/W (ft)	V.Sec (ft)	DLeg (°/100ft)	Tool
-0.50	0.00	0.00	-0.50	0.00	0.00	0.00	0.00	PTW MWD_2016

## 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: Rig	16,957.00		462.00
CNG	-0.03		0.03

## 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		JIAOZUO JINBIAO / JF1600	12.00						
2		JIAOZUO JINBIAO / JF1600	12.00						

## Remarks

Trash Disposal: 0ft3

From Kermit- From Major Intersection Hwy 302 at State Hwy 115  
Continue ahead on Hwy 302, 15.8 miles, turn left at A-3 lease rd. and continue ahead 6.5 miles. Road will curve to the left for 1 mile and then back to the right, then continue ahead for 1.4 miles. Turn left and continue ahead 1.6 miles to the three way, take the center lane and continue 0.2 miles to location entrance on right.

Well Performance:

University 20PW 25 Pad Performance

AFE: \$ Under

Days: Days Under

University 20PW 2502H Performance

AFE: \$150K Under

Days: 0.25 Days Under

## EP WELLS DAILY OPERATIONS REPORT

Report 2

12/21/2018

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 20 PW 2501H
Wellbore	UNIVERSITY 20 PW 2501H
WBS No/API No	30293388 / 4249534181.00

## Event Summary

Event Type	Drilling only	Event Start Date	12/20/2018	Days on Location	2.00
Objective	Drill - Wolfcamp Beta 2	Original Spud Date	12/21/2018	Days Since Spud	0.90
Est. Days	25.00	Contractor	PRECISION		
Work Unit	PRECISION 565	Days To Release			
		Rig Phone/FAX No.			

## Well Status

Supervisor	Justin Syms	Measured Depth(ft)	3,239.00
Engineer	Robert Hahn	TVD(ft)	3,189.50
Other Supervisor	Jeff Stringer	24 Hr Progress(ft)	3,099.00
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,798.10 / 2,772.10	Hole size(in)	12.250
THF Datum			
Daily NPT(hr/%)	0/0	Last Casing MD	20.000in@146.00ft
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	9.625in@5,000.00ft
Actual cost to date/AFE	115,263/2,899,999.94	Current MW / BH EMW(ppg)	9.80/
Actual divided by AFE	0.04	LOT/FIT EMW(ppg)	
Daily Cost	58,172	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 <b>GOAL ZERO DAYS</b> <b>PS BARRIER EVENT</b> <b>PS barrier bowtie review</b>	08/14/2015	1,225	TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	

Safety Comments:

No HSE Issues:

Assist &amp; Assure: Conducted after action review on rig walk discussing opportunities to conduct pauses when scope changes.

Conducted 7-step discussion with casing running crew and forklift operator for offloading, cleaning, drifting and strapping the 9-5/8" surface casing. Zone owner was highlighted to the group and responsibilities discussed.

## 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
Picked Up the Bottom Hole Assembly and drilled to 3,239'.
Update Since Report Time
Drilling surface hole 5 AM depth 4077.
24 Hour Forecast
Continue to drill to surface TD of 5,018'.

## EP WELLS DAILY OPERATIONS REPORT

Report 2

12/21/2018

Well UNIVERSITY 20 PW 2501H  
Wellbore UNIVERSITY 20 PW 2501H

## Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	2.00	SRF1	BHA		140.00	0		Tripped in hole with the Directional tools and scribed the motor
2:00	0.50	SRF1	BHA		140.00	0		Tripped in hole with Heavy Weight and tagged up at 140'.
2:30	0.50	SRF1	DRL		230.00	0		Drilled ahead from 140' to 230' and then picked the Directional tools.
3:00	3.00	SRF1	DRL		526.00	0		Drilled from 230' to 526'.
6:00	2.00	SRF1	DRL		526.00	0		Pumped sweep and short tripped out to the Heavy Weight.
8:00	1.00	SRF1	DRL		526.00	0		Tripped in hole with the drill collars.
9:00	3.00	SRF1	DRL		915.00	0		Drilled from 526' to 915'.
12:00	1.25	SRF1	DRL		915.00	0		Installed the rotating head and centered up the conductor.
13:15	4.00	SRF1	DRL		1,916.00	0		Drilled from 915' to 1,916.
17:15	0.50	SRF1	SVC		1,916.00	0		Service rig
17:45	6.25	SRF1	DRL		3,239.00	0		Drilling ahead from 1,916' to 3239' Rotated 1,199' and Sld 25'
<b>Total</b>	<b>24.00</b>							

## 06.00 Update

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Description
0:00	5.00	SRF1	DRL		4,079.00	0	Drilling ahead from 3239' Rotated and Sliding
5:00	0.50	SRF1	DRL		4,079.00	0	Service Rig

## Deepest 5 Surveys

MD (ft)	Inc. (°)	Azi. (°)	TVD (ft)	N/S (ft)	E/W (ft)	V.Sec (ft)	DLeg (°/100ft)	Tool
2,600.50	12.60	38.81	2,563.58	301.92	257.56	-241.17	0.20	PTW MWD_2016
2,694.50	11.43	48.03	2,655.52	316.14	270.91	-252.27	2.39	PTW MWD_2016
2,882.50	11.23	44.87	2,839.86	341.57	297.68	-271.52	0.35	PTW MWD_2016
2,977.50	11.15	45.37	2,933.06	354.58	310.74	-281.50	0.13	PTW MWD_2016
3,165.50	11.25	47.14	3,117.48	379.83	337.12	-300.65	0.19	PTW MWD_2016

## Fluid Details

Mud type	NaCl Brine	Oil/Water (%)	pH/Pm (cc)
MD (ft)	1,599.00	TS/HGS/LGS (%)	Pf/Mf (cc)
Mud Density (ppg)	9.80	Sand (%)	Ca+ (ppm)
Vis (s/qt)	30.00		Cl- (ppm)
PV/YP (cp/lbf/100ft²)	1.00/3.000	MBT (lbm/bbl)	
Gels 10 s/m (lbf/100ft²)		LCM (lbm/bbl)	
API/HTHP WL (cc/30min)		ECD (ppg)	R600/300 (°)
FC/HTHP FC (32nd")		H2S (gas unit)	R200/100 (°)
		KCl (%)	R6/3 (°)
FL temp. (°F)		Ditch Magnet in Last 24hrs/Cum. (gm)	

## EP WELLS DAILY OPERATIONS REPORT

Report 2

12/21/2018

Well  
WellboreUNIVERSITY 20 PW 2501H  
UNIVERSITY 20 PW 2501H

## 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: Rig	15,214.00		1,743.00

## 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
1	12.250	NATIONAL OILWE	TCK66			A248103	6x14	140.00		-----

## 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.
Heavy Weight Drill Collars	12	365.68	5.500			GPDS55			Rig
Crossover Sub	1	3.12	7.000		3.000	GPDS55			Rig
Drill Collars	12	356.90	7.000		3.000	4 1/2 IF			Rig
Crossover Sub	1	2.80	7.500		2.880	4-1/2 IF			X775003
Screen Sub	1	2.65	7.880		3.250	6 5/8 REG			DR32183
IBS Spiral Stabilizer	1	7.70	8.130		2.880	6 5/8 REG			DR34031
Slick Collar	1	28.38	7.880		3.250	6 5/8 REG			DR26739
IBS Spiral Stabilizer	1	7.97	8.130		2.880	6 5/8 REG			DR37686
Slick Collar	1	30.30	7.880		3.250	6 5/8 REG			DR36085
Gap Sub Assembly Peek Ring PHX Velocity	1	3.51	8.060		3.250	6 5/8 REG			VG800037P TS
Centralizer Collar Assembly Velocity	1	8.53	8.130		3.250	6 5/8 REG			VC800078
Grounding Sub Assembly PHX	1	3.75	8.190		3.250	6 5/8 REG			VL800078
Velocity Crossover Sub	1	1.37	8.000		3.250	6 5/8 REG			VX800016
Non-Mag Pony Collar	1	13.92	8.060		2.810	6 5/8 REG			NESPC8001 36
IBS Spiral Stabilizer	1	4.60	8.130		3.000	6 5/8 REG			DR36456
Shock Sub	1	14.51	8.000		3.150	6 5/8 REG			Rig
Phoenix Mud Motor 4/5 Lobe, Stage 5.3. Set @ 1.50° RPG: 253	1	29.31	12.000			6 5/8 REG			24X-775458-PTS
Bit #1 Run #1 12.25" NOV TKC66 SN: A248103. 6x14's	1	1.14	12.250	12.250					A248103

## Drillstring Details

Date/Time in	Date/Time out	BHA no.	BHA Length (ft)	Min. ID (in)	Purpose
12/21/2018 00:05		1	886.14		Drill 12.25" Surface Section

## EP WELLS DAILY OPERATIONS REPORT

Report 2

12/21/2018

Well UNIVERSITY 20 PW 2501H  
Wellbore UNIVERSITY 20 PW 2501H

## 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		JIAOZUO JINBIAO / JF1600	12.00						
2		JIAOZUO JINBIAO / JF1600	12.00						

## Remarks

Trash Disposal: 0ft3

From Kermit- From Major Intersection Hwy 302 at State Hwy 115

Continue ahead on Hwy 302, 15.8 miles, turn left at A-3 lease rd. and continue ahead 6.5 miles. Road will curve to the left for 1 mile and then back to the right, then continue ahead for 1.4 miles. Turn left and continue ahead 1.6 miles to the three way, take the center lane and continue 0.2 miles to location entrance on right.

Well Performance:

University 20PW 25 Pad Performance

AFE: \$ Under

Days: Days Under

University 20PW 2502H Performance

AFE: \$150K Under

Days: 0.5 Days Under

## EP WELLS DAILY OPERATIONS REPORT

Report 3

12/22/2018

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 20 PW 2501H
Wellbore	UNIVERSITY 20 PW 2501H
WBS No/API No	30293388 / 4249534181.00

## Event Summary

Event Type	Drilling only	Event Start Date	12/20/2018	Days on Location	3.00
Objective	Drill - Wolfcamp Beta 2	Original Spud Date	12/21/2018	Days Since Spud	1.90
Est. Days	25.00	Contractor	PRECISION		
Work Unit	PRECISION 565	Days To Release			
		Rig Phone/FAX No.			

## Well Status

Supervisor	Justin Syms	Measured Depth(ft)	5,013.00
Engineer	Robert Hahn	TVD(ft)	4,932.75
Other Supervisor	Jeff Stringer	24 Hr Progress(ft)	1,774.00
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,798.10 / 2,772.10	Hole size(in)	12.250
THF Datum			
Daily NPT(hr/%)	0/0	Last Casing MD	20.000in@146.00ft
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	9.625in@5,000.00ft
Actual cost to date/AFE	250,473/2,899,999.94	Current MW / BH EMW(ppg)	9.80/
Actual divided by AFE	0.09	LOT/FIT EMW(ppg)	
Daily Cost	134,241	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 <b>GOAL ZERO DAYS</b> <b>PS BARRIER EVENT</b> <b>PS barrier bowtie review</b>	08/14/2015	1,226	TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	

Safety Comments:

No HSE Issues:

Assist &amp; Assure: Held after action review for making up stands in mousehole while drilling ahead.

Conducted 7-step discussion with welder, wellhead technician and crew member operating forklift for wellhead installation.

## HSE Drills

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

## Operations Summary

24 Hour Summary
POOH with Bit after reaching TD, L/D the Bottom hole assembly and P/U then 6 3/4" BHA rack it back. R/U and running 9 5/8" casing. Prep the rug for skidding.
Update Since Report Time
Running 9.625 Casing
24 Hour Forecast
Land casing out and skid over to the 2504H and N/U BOPS.

## EP WELLS DAILY OPERATIONS REPORT

Report 3

12/22/2018

Well UNIVERSITY 20 PW 2501H  
Wellbore UNIVERSITY 20 PW 2501H

## Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	5.00	SRF1	DRL		4,081.00	0		Drilling ahead from 3239' to 4081'.
5:00	0.50	SRF1	SVC		4,081.00	0		Service Rig
5:30	6.00	SRF1	DRL		5,013.00	0		Drilling ahead from 4081' to 5013' section TD.
11:30	1.00	SRF1	CBU		5,013.00	0		Pump sweeps and circulate hole clean.
12:30	2.00	SRF1	TOH		5,013.00	0		Trip out of hole from 5013' to 1265'.
14:30	0.50	SRF1	SVC		5,013.00	0		Rig Service.
15:00	2.00	SRF1	TOH		5,013.00	0		Pulled out of the hole from 1,265' to 162'.
17:00	4.00	SRF1	BHA		5,013.00	0		Laid 8" Directional tools and Mud Motor.
21:00	2.00	SRF1	BHA		5,013.00	0		Picked up 6 3/4" Motor and Directional tool then racked back in the derrick.
23:00	1.00	SRF1	RDP		5,013.00	0		Laid down the Drilling Conductor
<b>Total</b>	<b>24.00</b>							

## 06.00 Update

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Description
0:00	0.50	SRF1	RIC		5,015.00	0	Held meeting with crews on rigging up casing tools went over Step7 Card.
0:30	1.00	SRF1	RIC		5,015.00	0	R/U Casing Tools
1:30		SRF1	RIC		5,015.00	0	Running 9.625 #40 J-55

## Deepest 5 Surveys

MD (ft)	Inc. (°)	Azi. (°)	TVD (ft)	N/S (ft)	E/W (ft)	V.Sec (ft)	DLeg (°/100ft)	Tool
4,286.50	9.50	45.56	4,213.26	546.38	500.50	-429.22	0.47	PTW MWD_2016
4,472.50	8.48	47.35	4,396.98	566.42	521.55	-444.40	0.57	PTW MWD_2016
4,660.50	7.94	45.23	4,583.05	584.95	540.97	-458.45	0.33	PTW MWD_2016
4,846.50	7.20	51.52	4,767.43	601.25	559.21	-470.56	0.60	PTW MWD_2016
4,941.50	6.67	50.38	4,861.74	608.48	568.12	-475.75	0.58	PTW MWD_2016

## Fluid Details

Mud type	NaCl Brine	Oil/Water (%)	pH/Pm (cc)
MD (ft)		TS/HGS/LGS (%)	Pf/Mf (cc)
Mud Density (ppg)	9.80	Sand (%)	Ca+ (ppm)
Vis (s/qt)	30.00		Cl- (ppm)
PV/YP (cp/lbf/100ft²)	1.00/3.000	MBT (lbm/bbl)	
Gels 10 s/m (lbf/100ft²)		LCM (lbm/bbl)	
API/HTHP WL (cc/30min)		ECD (ppg)	R600/300 (°)
FC/HTHP FC (32nd")		H2S (gas unit)	R200/100 (°)
		KCl (%)	R6/3 (°)
FL temp. (°F)		Ditch Magnet in Last 24hrs/Cum. (gm)	

## EP WELLS DAILY OPERATIONS REPORT

Report 3

12/22/2018

Well  
WellboreUNIVERSITY 20 PW 2501H  
UNIVERSITY 20 PW 2501H

## 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: Rig	13,251.00		1,963.00

## 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
1	12.250	NATIONAL OILWE	TCK66			A248103	6x14	140.00	5,013.00	-----

## 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.
Heavy Weight Drill Collars	12	365.68	5.500			GPDS55			Rig
Crossover Sub	1	3.12	7.000		3.000	GPDS55			Rig
Drill Collars	12	356.90	7.000		3.000	4 1/2 IF			Rig
Crossover Sub	1	2.80	7.500		2.880	4-1/2 IF			X775003
Screen Sub	1	2.65	7.880		3.250	6 5/8 REG			DR32183
IBS Spiral Stabilizer	1	7.70	8.130		2.880	6 5/8 REG			DR34031
Slick Collar	1	28.38	7.880		3.250	6 5/8 REG			DR26739
IBS Spiral Stabilizer	1	7.97	8.130		2.880	6 5/8 REG			DR37686
Slick Collar	1	30.30	7.880		3.250	6 5/8 REG			DR36085
Gap Sub Assembly Peek Ring PHX Velocity	1	3.51	8.060		3.250	6 5/8 REG			VG800037P TS
Centralizer Collar Assembly Velocity	1	8.53	8.130		3.250	6 5/8 REG			VC800078
Grounding Sub Assembly PHX	1	3.75	8.190		3.250	6 5/8 REG			VL800078
Velocity Crossover Sub	1	1.37	8.000		3.250	6 5/8 REG			VX800016
Non-Mag Pony Collar	1	13.92	8.060		2.810	6 5/8 REG			NESPC8001 36
IBS Spiral Stabilizer	1	4.60	8.130		3.000	6 5/8 REG			DR36456
Shock Sub	1	14.51	8.000		3.150	6 5/8 REG			Rig
Phoenix Mud Motor 4/5 Lobe, Stage 5.3. Set @ 1.50° RPG: 253	1	29.31	12.000			6 5/8 REG			24X-775458-PTS
Bit #1 Run #1 12.25" NOV TKC66 SN: A248103. 6x14's	1	1.14	12.250	12.250					A248103

## Drillstring Details

Date/Time in	Date/Time out	BHA no.	BHA Length (ft)	Min. ID (in)	Purpose
12/21/2018 00:05	12/22/2018 17:00	1	886.14		Drill 12.25" Surface Section

## EP WELLS DAILY OPERATIONS REPORT

Report 3

12/22/2018

Well UNIVERSITY 20 PW 2501H  
Wellbore UNIVERSITY 20 PW 2501H

## 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		JIAOZUO JINBIAO / JF1600	12.00						
2		JIAOZUO JINBIAO / JF1600	12.00						

## Remarks

Trash Disposal: 0ft3

From Kermit- From Major Intersection Hwy 302 at State Hwy 115

Continue ahead on Hwy 302, 15.8 miles, turn left at A-3 lease rd. and continue ahead 6.5 miles. Road will curve to the left for 1 mile and then back to the right, then continue ahead for 1.4 miles. Turn left and continue ahead 1.6 miles to the three way, take the center lane and continue 0.2 miles to location entrance on right.

Well Performance:

University 20PW 25 Pad Performance

AFE: \$ Under

Days: Days Under

University 20PW 2502H Performance

AFE: \$150K Under

Days: 0.5 Days Under

## EP WELLS DAILY OPERATIONS REPORT

Report 4

12/23/2018

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 20 PW 2501H
Wellbore	UNIVERSITY 20 PW 2501H
WBS No/API No	30293388 / 4249534181.00

## Event Summary

Event Type	Drilling only	Event Start Date	12/20/2018	Days on Location	3.52
Objective	Drill - Wolfcamp Beta 2	Original Spud Date	12/21/2018	Days Since Spud	2.38
Est. Days	25.00	Contractor	PRECISION		
Work Unit	PRECISION 565	Days To Release			
		Rig Phone/FAX No.			

## Well Status

Supervisor	Justin Syms	Measured Depth(ft)	5,013.00
Engineer	Robert Hahn	TVD(ft)	4,932.75
Other Supervisor	Jeff Stringer	24 Hr Progress(ft)	
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,798.10 / 2,772.10	Hole size(in)	12.250
THF Datum			
Daily NPT(hr/%)	0/0	Last Casing MD	20.000in@146.00ft
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	9.625in@5,000.00ft
Actual cost to date/AFE	272,325/2,899,999.94	Current MW / BH EMW(ppg)	9.80/
Actual divided by AFE	0.09	LOT/FIT EMW(ppg)	
Daily Cost	21,101	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 <b>GOAL ZERO DAYS</b> <b>PS BARRIER EVENT</b> <b>PS barrier bowtie review</b>	08/14/2015	1,227	TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	

Safety Comments:

No HSE Issues:

Assist &amp; Assure: Held discussion on scope changes and when step backs become critical to ensure safety to the job.

Conducted 7-step discussion with rig crew prior to walking the rig. Major points of discussion was the communication plan and performing final checks.

## 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
Run 9.625in surface casing 5004'. Lay down landing joint. Rig up circulating swedge to circulate offline while rig down casing running equipment. Circulate casing volume. Rig down circulating equipment in cellar.
*Rig released @ 12:30 hrs on 12/23/2018*
Update Since Report Time
Walk rig to University 20 PW 2504H.
24 Hour Forecast
Walk rig to University 20 PW 2504H.

## EP WELLS DAILY OPERATIONS REPORT

Report 4

12/23/2018

Well UNIVERSITY 20 PW 2501H  
Wellbore UNIVERSITY 20 PW 2501H

## Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	0.50	SRF1	RIC		5,013.00	0		Held meeting with crews on rigging up casing tools went over Step7 Card.
0:30	1.00	SRF1	RIC		5,013.00	0		Rig up casing running equipment.
1:30	6.50	SRF1	CLR		5,013.00	0		Running 9.625 #40 J-55 LTC casing from surface to 5002'.
8:00	1.00	SRF1	CLR		5,013.00	0		Make-up landing joint and hangoff in cellar on conductor. Breakout and lay down landing joint. Rig up circulating swedge to circulate offline.
9:00	1.00	SRF1	RCC		5,013.00	0		Rig down casing running equipment.
10:00	2.50	SRF1	RCC		5,013.00	0		Circulate casing volume. Rig down circulating equipment in cellar.
12:30	0.00	SRF1	CEM		5,013.00	0		*Rig released @ 12:30 hrs on 12/23/2018*
								Released rig from University 20PW 2501H at 12:30 hrs on 12-23-18
								*****
								Perform offline cement job as per following schedule:
								Pressure test lines. Low: 250 psi High: 3,000 psi.
								Pump spacer: 50bbl of fresh water.
								Pump lead cement: 463bbl of 12.8ppg of Class C cement (1366 sacks).
								Pump tail cement: 117bbl at 14.8ppg (496 sacks) of Class C cement.
								Drop plug.
								Pump displacement: 371bbbls of 9.8ppg brine.
								Bumped plug on schedule at 500psi over circulating pressure, holding for 5 minutes.
								Floats held, 2.5bbl back.
								TRRC Notified 12/19/18 at 14:00, Spoke with Larissa.
<b>Total</b>	<b>12.50</b>							

## Deepest 5 Surveys

MD (ft)	Inc. (°)	Azi. (°)	TVD (ft)	N/S (ft)	E/W (ft)	V.Sec (ft)	DLeg (°/100ft)	Tool
4,286.50	9.50	45.56	4,213.26	546.38	500.50	-429.22	0.47	PTW MWD_2016
4,472.50	8.48	47.35	4,396.98	566.42	521.55	-444.40	0.57	PTW MWD_2016
4,660.50	7.94	45.23	4,583.05	584.95	540.97	-458.45	0.33	PTW MWD_2016
4,846.50	7.20	51.52	4,767.43	601.25	559.21	-470.56	0.60	PTW MWD_2016
4,941.50	6.67	50.38	4,861.74	608.48	568.12	-475.75	0.58	PTW MWD_2016

## Fluid Details

Mud type	NaCl Brine	Oil/Water (%)	pH/Pm (cc)
MD (ft)	5,013.00	TS/HGS/LGS (%)	Pf/Mf (cc)
Mud Density (ppg)	9.80	Sand (%)	Ca+ (ppm)
Vis (s/qt)	30.00		Cl- (ppm)
PV/YP (cp/lbf/100ft²)	1.00/3.000	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)	

## 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		JIAOZUO JINBIAO / JF1600	12.00						
2		JIAOZUO JINBIAO / JF1600	12.00						

## EP WELLS DAILY OPERATIONS REPORT

Report 4

12/23/2018

Well	UNIVERSITY 20 PW 2501H
Wellbore	UNIVERSITY 20 PW 2501H

## Remarks

Trash Disposal: 0ft3

From Kermit- From Major Intersection Hwy 302 at State Hwy 115

Continue ahead on Hwy 302, 15.8 miles, turn left at A-3 lease rd. and continue ahead 6.5 miles. Road will curve to the left for 1 mile and then back to the right, then continue ahead for 1.4 miles. Turn left and continue ahead 1.6 miles to the three way, take the center lane and continue 0.2 miles to location entrance on right.

Well Performance:

University 20PW 25 Pad Performance

AFE: \$ Under

Days: Days Under

University 20PW 2502H Performance

AFE: \$200K Under

Days: 0.25 Days Under

## EP WELLS DAILY OPERATIONS REPORT

Report 5

01/10/2019

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 20 PW 2501H
Wellbore	UNIVERSITY 20 PW 2501H
WBS No/API No	30293388 / 4249534181.00

## Event Summary

Event Type	Drilling only	Event Start Date	12/20/2018	Days on Location	4.33
Objective	Drill - Wolfcamp Beta 2	Original Spud Date	12/21/2018	Days Since Spud	3.23
Est. Days	25.00	Contractor	PRECISION		
Work Unit	PRECISION 565	Days To Release			
		Rig Phone/FAX No.			

## Well Status

Supervisor	Heath McAfee	Measured Depth(ft)	6,191.00
Engineer	Robert Hahn	TVD(ft)	6,089.65
Other Supervisor	William Eubanks/ Andrew Maynor	24 Hr Progress(ft)	1,178.00
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,798.10 / 2,772.10	Hole size(in)	
THF Datum			
Daily NPT(hr/%)	0/0	Last Casing MD	20.000in@146.00ft
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	9.625in@5,000.00ft
Actual cost to date/AFE	674,502/2,899,999.94	Current MW / BH EMW(ppg)	/
Actual divided by AFE	0.23	LOT/FIT EMW(ppg)	
Daily Cost	189,545	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 <b>GOAL ZERO DAYS</b> <b>PS BARRIER EVENT</b> <b>PS barrier bowtie review</b>	08/14/2015	1,245	TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	
Safety Comments:							
No HSE Issues							
Assist and Assure: with BJ cementers on offline cement job. Discussed setting up barriers, zone ownership, area's with pressure and pumping schedule. Discussed closest hospital, muster area in case of emergency, handing over control of choke if rig has and issue.							

## HSE Drills

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

## Operations Summary

24 Hour Summary
Prep rig and walk rig from 2502H to 2501H Nipple up BOP's Rig up PVC, hook up flare line Pick up directional BHA to 130' Drill DV tool Test casing Trip in hole to 4,587' Drill float collar, shoe track and shoe Drill 8.75" Intermediate hole section from 5,003' to 6,192'
Update Since Report Time
Drilling 8.75" Intermediate hole section at 6773'

## EP WELLS DAILY OPERATIONS REPORT

Report 5

01/10/2019

Well UNIVERSITY 20 PW 2501H  
Wellbore UNIVERSITY 20 PW 2501H

## 24 Hour Forecast

Drill 8.75" Intermediate hole section

## Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
4:30	2.00	INT1	WLK		5,013.00	0		Prep rig and walk rig from 2502H to 2501H Accepted rig at 06:30 AM on 1-10-19
6:30	1.00	INT1	RUP		5,013.00	0		Set down BOP's, make up speed head and test SRL seals to 10,000psi for 10 min.
7:30	1.00	INT1	RUP		5,013.00	0		Perform drops inspection in zones 1 and 2
8:30	0.50	INT1	SVC		5,013.00	0		Service rig
9:00	1.50	INT1	RUP		5,013.00	0		Rig up EZ rider, escape line, flare stack, mud lines, replace kicker hose, rig up PVC and put up buffer zones
10:30	0.75	INT1	BHA		5,013.00	0		Make up 8.75" Directional BHA to 130'
11:15	0.25	INT1	TIH		5,013.00	0		Trip in hole from 130' to 340'
11:30	0.50	INT1	DCM		5,013.00	0		Drill out DV tool at 350'
12:00	0.50	INT1	TIH		5,013.00	0		Trip in hole from 350' to 929' with drill collars and hevi-wate drill pipe
12:30	0.75	INT1	BOP		5,013.00	0		Perform casing pressure test on 9.625" casing with 9.3 ppg brine to 1500 psi for 30 min
13:15	1.25	INT1	TIH		5,013.00	0		Trip in hole with 8.75" Intermediate BHA from 929' to 4,587'
14:30	0.75	INT1	CUT		5,013.00	0		Slip and cut 50' of drill line, Perform brake capacity test, calibrate block and test all travel stops
15:15	0.25	INT1	TIH		5,013.00	0		Trip in hole with 8.75" Intermediate BHA from 4,587' to 4,878'
15:30	1.75	INT1	DCM		5,013.00	0		Wash from 4,878', tagged float at 4,918', drilled shoe track and tagged shoe at 5,003'
17:15	6.75	INT1	DRL		6,191.00	0		Drill 8.75" Intermediate hole section from 5,003' to 6,191'
<b>Total</b>	<b>19.50</b>							

## Deepest 5 Surveys

MD (ft)	Inc. (°)	Azi. (°)	TVD (ft)	N/S (ft)	E/W (ft)	V.Sec (ft)	DLeg (°/100ft)	Tool
5,286.50	9.06	54.75	5,203.77	637.28	602.59	-496.69	1.24	PTW MWD+HDGM_2016
5,475.50	10.96	56.15	5,389.88	655.88	629.66	-509.19	1.01	PTW MWD+HDGM_2016
5,664.50	11.27	55.97	5,575.33	676.23	659.89	-522.74	0.17	PTW MWD+HDGM_2016
5,852.50	12.38	56.60	5,759.34	697.60	691.94	-536.92	0.59	PTW MWD+HDGM_2016
6,041.50	12.72	54.51	5,943.83	720.83	725.80	-552.53	0.30	PTW MWD+HDGM_2016

## Fluid Details

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

## EP WELLS DAILY OPERATIONS REPORT

Report 5

01/10/2019

Well UNIVERSITY 20 PW 2501H  
Wellbore UNIVERSITY 20 PW 2501H

## 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: Rig	8,485.00		960.00
CNG	-114.53		47.00

## 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		JIAOZUO JINBIAO / JF1600	12.00						
2		JIAOZUO JINBIAO / JF1600	12.00						

## Remarks

Trash Disposal: 0ft3

From Kermit- From Major Intersection Hwy 302 at State Hwy 115  
Continue ahead on Hwy 302, 15.8 miles, turn left at A-3 lease rd. and continue ahead 6.5 miles. Road will curve to the left for 1 mile and then back to the right, then continue ahead for 1.4 miles. Turn left and continue ahead 1.6 miles to the three way, take the center lane and continue 0.2 miles to location entrance on right.

Well Performance:

University 20PW 25 Pad Performance

AFE: \$ Under

Days: Days Under

University 20PW 2502H Performance

AFE: \$200K Under

Days: 0.25 Days Under

## EP WELLS DAILY OPERATIONS REPORT

Report 6

01/11/2019

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 20 PW 2501H
Wellbore	UNIVERSITY 20 PW 2501H
WBS No/API No	30293388 / 4249534181.00

## Event Summary

Event Type	Drilling only	Event Start Date	12/20/2018	Days on Location	5.33
Objective	Drill - Wolfcamp Beta 2	Original Spud Date	12/21/2018	Days Since Spud	4.23
Est. Days	25.00	Contractor	PRECISION		
Work Unit	PRECISION 565	Days To Release			
		Rig Phone/FAX No.			

## Well Status

Supervisor	Heath McAfee	Measured Depth(ft)	8,918.00
Engineer	Robert Hahn	TVD(ft)	8,801.42
Other Supervisor	William Eubanks/ Andrew Maynor	24 Hr Progress(ft)	2,727.00
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,798.10 / 2,772.10	Hole size(in)	8.750
THF Datum			
Daily NPT(hr/%)	0/0	Last Casing MD	9.625in@5,004.28ft
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	7.625in@11,300.00ft
Actual cost to date/AFE	737,954/2,899,999.94	Current MW / BH EMW(ppg)	/
Actual divided by AFE	0.25	LOT/FIT EMW(ppg)	
Daily Cost	63,399	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 <b>GOAL ZERO DAYS</b> <b>PS BARRIER EVENT</b> <b>PS barrier bowtie review</b>	08/14/2015	1,246	TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	

## Safety Comments:

No HSE Issues

Assist and Assure: Discussed with Press truck driver delivering brine to rig about ensuring to have whip checks on all hoses low or high pressure, Using wheel chocks, ensuring some one is there to back you in while on location. Discussed reporting any incident on location or at location that they are taking the brine from with the OSR.

## HSE Drills

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

## Operations Summary

24 Hour Summary
Drill 8.75" Intermediate hole section from 6,191' to 8,918'
Update Since Report Time
Drilling 8.75" Intermediate hole section at 9190'
24 Hour Forecast
Drill 8.75" Intermediate hole section

## EP WELLS DAILY OPERATIONS REPORT

Report 6

01/11/2019

Well  
WellboreUNIVERSITY 20 PW 2501H  
UNIVERSITY 20 PW 2501H

## Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	5.50	INT1	DRL		7,044.00	0		Drill 8.75" Intermediate hole section from 6,199' to 7,044'
5:30	0.50	INT1	SVC		7,044.00	0		Service rig
6:00	11.00	INT1	DRL		8,454.00	0		Drill 8.75" Intermediate hole section from 7,044' to 8,454'
17:00	0.50	INT1	SVC		8,454.00	0		Service top drive perform drops inspection in zone 3
17:30	6.50	INT1	DRL		8,918.00	0		Drill 8.75" Intermediate hole section from 8,454' to 8,918'
<b>Total</b>	<b>24.00</b>							

## Deepest 5 Surveys

MD (ft)	Inc. (°)	Azi. (°)	TVD (ft)	N/S (ft)	E/W (ft)	V.Sec (ft)	DLeg (°/100ft)	Tool
8,110.50	1.66	254.79	7,994.35	848.02	810.33	-659.15	0.24	PTW MWD+HDGM_2016
8,298.50	1.72	261.33	8,182.26	846.88	804.91	-659.17	0.11	PTW MWD+HDGM_2016
8,484.50	1.79	258.61	8,368.18	845.88	799.30	-659.38	0.06	PTW MWD+HDGM_2016
8,674.50	2.09	251.10	8,558.07	844.18	793.11	-659.00	0.21	PTW MWD+HDGM_2016
8,861.50	1.95	226.66	8,744.95	840.89	787.57	-656.95	0.46	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)			

## 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: Rig	6,886.00		1,599.00
CNG	-691.53		577.00

## 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
2	8.750	NATIONAL OILWE	TKC76			A253920	7x11	5,013.00		-----

## 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 6

01/11/2019

Well UNIVERSITY 20 PW 2501H  
Wellbore UNIVERSITY 20 PW 2501H

## Drillstring Components

Item description	# Jts	Length (ft)	OD (in)	Max OD (in)	ID (in)	Connection Name	Weight (ppf)	Grade	Serial no.
Drill Pipe	256	8,074.55	5.500		4.778	GPDS55			Rig
Heavy Weight Drill Collars	12	365.68	5.500			GPDS55			Rig
Crossover Sub	1	3.12	7.000		3.000	GPDS55			Rig
Drill Collars	12	356.90	7.000		3.000	4 1/2 IF			Rig
Crossover Sub	1	1.92	6.500		2.880	4-1/2 IF			DR14278
Filter Sub	1	3.47	6.500		2.880	4-1/2 XH			DR33361
Float Sub	1	2.41	6.500		2.880	4-1/2 XH			FS165087
Non-Mag Stabilizer	1	5.61	8.500		2.880	4-1/2 XH			SD600736
Non-Mag Drill Collar	1	29.38	6.450		2.880	4-1/2 XH			SL650001
Non-Mag Stabilizer	1	5.61	8.500		2.880	4-1/2 XH			SD604756
Velocity Gap sub	1	3.59	6.750		2.800	4-1/2 XH			VG650217P TS
Grounding Sub	1	3.50	6.750		2.800	4-1/2 XH			VL650184
Centralizer Collar	1	8.51	6.750		2.800	4-1/2 XH			VC650333
Velocity Crossover Sub	1	1.50	6.500		2.800	4-1/2 XH			VX650333
Pony Collar	1	9.37	6.450		3.000	4-1/2 XH			NESPC6056 86
Non-Mag Stabilizer	1	5.53	8.500		2.880	4-1/2 XH			SD601270
Nabors Mud Motor, Lobes: 7/8, Stage:6.9, FBH @ 1.50° w/8 1/2	1	33.18	8.500			40-1/2 IF			RY700080
Crossover Sub	1	3.07	6.500		2.880	4-1/2 XH			Rig
Bit #2 Run #1 8.75" NOV TKC76 7x11's	1	1.10	8.750	8.750					A253920

## Drillstring Details

Date/Time in	Date/Time out	BHA no.	BHA Length (ft)	Min. ID (in)	Purpose
01/10/2019 11:15		2	843.45		Drill 8.75" Intermediate 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		JIAOZUO JINBIAO / JF1600	12.00						
2		JIAOZUO JINBIAO / JF1600	12.00						

## Remarks

Trash Disposal: 0ft3

From Kermit- From Major Intersection Hwy 302 at State Hwy 115

Continue ahead on Hwy 302, 15.8 miles, turn left at A-3 lease rd. and continue ahead 6.5 miles. Road will curve to the left for 1 mile and then back to the right, then continue ahead for 1.4 miles. Turn left and continue ahead 1.6 miles to the three way, take the center lane and continue 0.2 miles to location entrance on right.

Well Performance:

University 20PW 25 Pad Performance

AFE: \$ Under

Days: Days Under

University 20PW 2502H Performance

AFE: \$200K Under

Days: 0.25 Days Under

## EP WELLS DAILY OPERATIONS REPORT

Report 7

01/12/2019

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 20 PW 2501H
Wellbore	UNIVERSITY 20 PW 2501H
WBS No/API No	30293388 / 4249534181.00

## Event Summary

Event Type	Drilling only	Event Start Date	12/20/2018	Days on Location	6.33
Objective	Drill - Wolfcamp Beta 2	Original Spud Date	12/21/2018	Days Since Spud	5.23
Est. Days	25.00	Contractor	PRECISION		
Work Unit	PRECISION 565	Days To Release			
		Rig Phone/FAX No.			

## Well Status

Supervisor	Heath McAfee	Measured Depth(ft)	9,686.00
Engineer	Robert Hahn	TVD(ft)	9,569.03
Other Supervisor	William Eubanks/ Andrew Maynor	24 Hr Progress(ft)	768.00
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,798.10 / 2,772.10	Hole size(in)	8.750
THF Datum			
Daily NPT(hr/%)	0/0	Last Casing MD	9.625in@5,004.28ft
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	7.625in@11,300.00ft
Actual cost to date/AFE	829,753/2,899,999.94	Current MW / BH EMW(ppg)	/
Actual divided by AFE	0.29	LOT/FIT EMW(ppg)	
Daily Cost	91,752	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 <b>GOAL ZERO DAYS</b> <b>PS BARRIER EVENT</b> <b>PS barrier bowtie review</b>	08/14/2015	1,247	TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	
Safety Comments:	No HSE Issues Assist and Assure meeting with crew on force filling while tripping out of hole. Discussed proper hole filling techniques, contingency plan in case force filling doesn't work, limits of overpull while pulling out of hole. Discussed ensuring proper mud weight being used while force filling						

## HSE Drills

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

## Operations Summary

24 Hour Summary
Drill 8.75" Intermediate hole section from 8,918' to 9,268' Trip out of hole from 9,268' Swap out mud motor, bit and MWD Trip in hole to 9,268' Induce flow Drill 8.75" Intermediate hole section from 9,268' to 9686'
Update Since Report Time
Drill 8.75" Intermediate hole section at 10045'
24 Hour Forecast

## EP WELLS DAILY OPERATIONS REPORT

Report 7

01/12/2019

Well UNIVERSITY 20 PW 2501H  
Wellbore UNIVERSITY 20 PW 2501H

Drill 8.75" Intermediate hole section  
Circulate hole clean  
Trip out of hole laying down 5.5" drill pipe

## Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	4.50	INT1	DRL		9,206.00	0		Drill 8.75" Intermediate hole section from 8,918' to 9,206'
4:30	0.50	INT1	SVC		9,206.00	0		Service drilling equipment
5:00	1.00	INT1	DRL		9,268.00	0		Drill 8.75" Intermediate hole section from 9,206' to 9,268'
6:00	1.75	INT1	TOH		9,268.00	0		Flow check well, Pump slug and allow to fall, Shut in well and bullhead 70 bbls of kill mud, still had 120 psi on casing. Mix more kill mud and pump 80 bbls of kill mud. well dead
7:45	3.75	INT1	TOH		9,268.00	0		Trip out of hole from 9,268' to 840', pull rotating head, continue to trip out of hole to 130'
11:30	1.50	INT1	BHA		9,268.00	0		Lay down Directional BHA and Pick up new directional BHA to 140' Bit Grade: 6, 3, CR, N, X, 0, CT, PR
13:00	3.50	INT1	TIH		9,268.00	0		Trip in hole with 8.75" Intermediate BHA from 140' to 9,200' filled pipe at 5,536'
16:30	1.00	INT1	TIH		9,268.00	0		Induce flow as per procedures
17:30	1.50	INT1	DRL		9,463.00	0		Drill 8.75" Intermediate hole section from 9,268' to 9,463'
19:00	2.50	INT1	WCP		9,463.00	0		Shut in well due to significant flow increase. Notified all Personnel. Circulated well using the drillers method, minimal gas observed. Closed well in after circulation and had 253 psi on casing, monitored casing pressure for 15 min with no pressure build up. Discussed go forward plan. Decided it was water flow, open well up and flow stabilized at 15%. Circulated bottoms up while drilling through the gas buster. No gas observed on bottoms up.
21:30	2.50	INT1	DRL		9,686.00	0		Drill 8.75" Intermediate hole section from 9,463' to 9,686'
<b>Total</b>	<b>24.00</b>							

## Deepest 5 Surveys

MD (ft)	Inc. (°)	Azi. (°)	TVD (ft)	N/S (ft)	E/W (ft)	V.Sec (ft)	DLeg (°/100ft)	Tool
8,861.50	1.95	226.66	8,744.95	840.89	787.57	-656.95	0.46	PTW MWD+HDGM_2016
9,049.50	1.64	227.28	8,932.86	836.87	783.27	-653.92	0.17	PTW MWD+HDGM_2016
9,236.50	1.61	253.23	9,119.79	834.29	778.79	-652.35	0.39	PTW MWD+HDGM_2016
9,424.50	1.83	277.03	9,307.71	833.90	773.28	-653.12	0.39	PTW MWD+HDGM_2016
9,611.50	2.23	288.60	9,494.59	835.43	766.87	-655.95	0.31	PTW MWD+HDGM_2016

## Fluid Details

Mud type	NaCl Brine	Oil/Water (%)	pH/Pm (cc) Pf/Mf (cc) Ca+ (ppm) Cl- (ppm)  R600/300 (°) R200/100 (°) R6/3 (°)
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)	
API/HTHP WL (cc/30min)		H2S (gas unit)	
FC/HTHP FC (32nd")		KCl (%)	
FL temp. (°F)		Ditch Magnet in Last 24hrs/Cum. (gm)	

## EP WELLS DAILY OPERATIONS REPORT

Report 7

01/12/2019

Well  
WellboreUNIVERSITY 20 PW 2501H  
UNIVERSITY 20 PW 2501H

## 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: Rig	12,841.00		1,045.00
CNG	-1,002.53		311.00

## 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
2	8.750	NATIONAL OILWE	TKC76			A253920	7x11	5,013.00	9,268.00	6-3-CR-N-X-I-CT-PR

## Bit Operations

MD (ft)	WOB Min/Max (kip)	Current RPM (rpm)	Flow rate (gpm)	SPP (psi)	P bit (psi)	% @ Bit	HHP (hp)	Hours (hr)	Footage (ft)	ROP (ft/hr)	Hours cum (hr)	Footage cum. (ft)	ROP cum. (ft/hr)

## Drillstring Components

Item description	# Jts	Length (ft)	OD (in)	Max OD (in)	ID (in)	Connection Name	Weight (ppf)	Grade	Serial no.
Drill Pipe	267	8,424.55	5.500		4.778	GPDS55			Rig
Heavy Weight Drill Collars	12	365.68	5.500			GPDS55			Rig
Crossover Sub	1	3.12	7.000		3.000	GPDS55			Rig
Drill Collars	12	356.90	7.000		3.000	4 1/2 IF			Rig
Crossover Sub	1	1.92	6.500		2.880	4-1/2 IF			DR14278
Filter Sub	1	3.47	6.500		2.880	4-1/2 XH			DR33361
Float Sub	1	2.41	6.500		2.880	4-1/2 XH			FS165087
Non-Mag Stabilizer	1	5.61	8.500		2.880	4-1/2 XH			SD600736
Non-Mag Drill Collar	1	29.38	6.450		2.880	4-1/2 XH			SL650001
Non-Mag Stabilizer	1	5.61	8.500		2.880	4-1/2 XH			SD604756
Velocity Gap sub	1	3.59	6.750		2.800	4-1/2 XH			VG650217P TS
Grounding Sub	1	3.50	6.750		2.800	4-1/2 XH			VL650184
Centralizer Collar	1	8.51	6.750		2.800	4-1/2 XH			VC650333
Velocity Crossover Sub	1	1.50	6.500		2.800	4-1/2 XH			VX650333
Pony Collar	1	9.37	6.450		3.000	4-1/2 XH			NESPC6056 86
Non-Mag Stabilizer	1	5.53	8.500		2.880	4-1/2 XH			SD601270
Nabors Mud Motor, Lobes: 7/8, Stage:6.9, FBH @ 1.50° w/8 1/2	1	33.18	8.500			40-1/2 IF			RY700080
Crossover Sub	1	3.07	6.500		2.880	4-1/2 XH			Rig
Bit #2 Run #1 8.75" NOV TKC76 7x11's	1	1.10	8.750	8.750					A253920

## EP WELLS DAILY OPERATIONS REPORT

Report 7

01/12/2019

Well UNIVERSITY 20 PW 2501H  
Wellbore UNIVERSITY 20 PW 2501H

## Drillstring Details

Date/Time in	Date/Time out	BHA no.	BHA Length (ft)	Min. ID (in)	Purpose
01/10/2019 11:15	01/12/2019 11:30	2	843.45		Drill 8.75" Intermediate 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		JIAOZUO JINBIAO / JF1600	12.00						
2		JIAOZUO JINBIAO / JF1600	12.00						

## Remarks

Trash Disposal: 0ft3

From Kermit- From Major Intersection Hwy 302 at State Hwy 115

Continue ahead on Hwy 302, 15.8 miles, turn left at A-3 lease rd. and continue ahead 6.5 miles. Road will curve to the left for 1 mile and then back to the right, then continue ahead for 1.4 miles. Turn left and continue ahead 1.6 miles to the three way, take the center lane and continue 0.2 miles to location entrance on right.

Well Performance:

University 20PW 25 Pad Performance

AFE: \$ Under

Days: Days Under

University 20PW 2502H Performance

AFE: \$200K Under

Days: 0.25 Days Under

## EP WELLS DAILY OPERATIONS REPORT

Report 8

01/13/2019

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 20 PW 2501H
Wellbore	UNIVERSITY 20 PW 2501H
WBS No/API No	30293388 / 4249534181.00

## Event Summary

Event Type	Drilling only	Event Start Date	12/20/2018	Days on Location	7.33
Objective	Drill - Wolfcamp Beta 2	Original Spud Date	12/21/2018	Days Since Spud	6.23
Est. Days	25.00	Contractor	PRECISION		
Work Unit	PRECISION 565	Days To Release			
		Rig Phone/FAX No.			

## Well Status

Supervisor	Heath McAfee	Measured Depth(ft)	10,908.00
Engineer	Robert Hahn	TVD(ft)	10,790.28
Other Supervisor	William Eubanks/ Andrew Maynor	24 Hr Progress(ft)	1,222.00
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,798.10 / 2,772.10	Hole size(in)	8.750
THF Datum			
Daily NPT(hr/%)	0/0	Last Casing MD	9.625in@5,004.28ft
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	7.625in@11,300.00ft
Actual cost to date/AFE	907,472/2,899,999.94	Current MW / BH EMW(ppg)	/
Actual divided by AFE	0.31	LOT/FIT EMW(ppg)	
Daily Cost	77,110	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 <b>GOAL ZERO DAYS</b> <b>PS BARRIER EVENT</b> <b>PS barrier bowtie review</b>	08/14/2015	1,248	TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	

## Safety Comments:

No HSE Issues

Assist and Assure meeting with crew, Directional team and OSR on swapping out directional tools. Discussed order to lay out tools and what peices go out together. Talked about proper torque for making up tools, Pointed out potential pinch points to new crew member. Ensured everyone knew and stayed out of drop zone while laying down and picking up tools on catwalk

## HSE Drills

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

## Operations Summary

24 Hour Summary
Drill 8.75" Intermediate hole section from 9686' to 10,908 pump slug and Bullhead well Trip out of hole from 10,908' to 130' Change out directional tools and bit Trip in hole with 8.75" BHA to 2,624'
Update Since Report Time
Tripping in hole with 8.75" BHA at 8900'
24 Hour Forecast

## EP WELLS DAILY OPERATIONS REPORT

Report 8

01/13/2019

Well UNIVERSITY 20 PW 2501H  
Wellbore UNIVERSITY 20 PW 2501H

Induce flow  
Drill 8.75" Intermediate hole section  
Circulate hole clean  
Trip out of hole laying down 5.5" Drill pipe  
Lay down BHA

## Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:45	0.50	INT1	SVC		9,751.00	0		Service rig
1:15	15.50	INT1	DRL		10,908.00	0		Drill 8.75" Intermediate hole section from 9,751' to 10,908'
16:00	1.00	INT1	TOH		10,908.00	0		Pump slug and allow to fall, Bullhead well with 90bbls of kill mud
16:45		INT1	TOH		10,908.00	0		Trip out of hole from 10,908' to 10,690' with 8.75" BHA
17:00	0.50	INT1	TOH		10,908.00	0		Trip out of hole with 8.75" BHA from 10,690' to 6,280'
17:30	0.50	INT1	SVC		10,908.00	0		Service rig
18:00	3.75	INT1	TOH		10,908.00	0		Trip out of hole with 8.75" BHA from 6,280' to 117'
21:45	0.25	INT1	BHA		10,908.00	0		Lay out MWD, Mud Motor and bit
22:00	0.50	INT1	BHA		10,908.00	0		Pick up Mud Motor, Bit and MWD to 117'
22:30	1.50	INT1	TIH		10,908.00	0		Trip in hole with 8.75" BHA from 117' to 2624'
<b>Total</b>	<b>24.00</b>							

## Deepest 5 Surveys

MD (ft)	Inc. (°)	Azi. (°)	TVD (ft)	N/S (ft)	E/W (ft)	V.Sec (ft)	DLeg (°/100ft)	Tool
9,987.50	2.35	292.84	9,870.26	842.99	753.20	-666.22	0.32	PTW MWD+HDGM_2016
10,173.50	1.56	287.84	10,056.15	845.25	747.27	-669.67	0.43	PTW MWD+HDGM_2016
10,361.50	1.61	280.04	10,244.08	846.49	742.24	-671.94	0.12	PTW MWD+HDGM_2016
10,549.50	1.90	278.64	10,431.99	847.42	736.55	-674.04	0.16	PTW MWD+HDGM_2016
10,736.50	2.02	275.85	10,618.88	848.22	730.21	-676.16	0.08	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)	

## 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)		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 8

01/13/2019

Well  
WellboreUNIVERSITY 20 PW 2501H  
UNIVERSITY 20 PW 2501H

## Bulks Summary

Product	Quantity Onboard	Units	Daily Usage
Diesel: Rig	11,160.00		1,681.00
CNG	-1,017.53		15.00

## Bit Details

Bit no.	Size (in)	Manufacturer	Model no.	Class	IADC code	Serial no.	Size (32nd")	MD in (ft)	MD out (ft)	IADC Dull Grade
3	8.750	NATIONAL OILWE	TKC76			A253605	7x11	9,268.00	10,908.00	-----

## 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.
Drill Pipe	319	10,067.83	5.500		4.778	GPDS55			Rig
Heavy Weight Drill Collars	12	365.68	5.500			GPDS55			Rig
Crossover Sub	1	3.12	7.000		3.000	GPDS55			Rig
Drill Collars	12	356.90	7.000		3.000	4 1/2 IF			Rig
Crossover Sub	1	1.92	6.500		2.880	4-1/2 IF			DR14278
Filter Sub	1	3.47	6.500		2.880	4-1/2 XH			DR33361
Float Sub	1	2.41	6.500		2.880	4-1/2 XH			FS165087
Non-Mag Stabilizer	1	5.61	8.500		2.880	4-1/2 XH			SD600736
Non-Mag Drill Collar	1	29.38	6.450		2.880	4-1/2 XH			SL650001
Non-Mag Stabilizer	1	5.61	8.500		2.880	4-1/2 XH			SD604756
Velocity Gap sub	1	3.59	6.750		2.800	4-1/2 XH			VG650205P TS
Grounding Sub	1	3.53	6.750		2.800	4-1/2 XH			VL650217
Centralizer Collar	1	8.53	6.750		2.800	4-1/2 XH			VC650343
Velocity Crossover Sub	1	1.50	6.500		2.800	4-1/2 XH			VX650078
Pony Collar	1	9.37	6.450		3.000	4-1/2 XH			NESPC6056 86
Non-Mag Stabilizer	1	5.53	8.500		2.880	4-1/2 XH			SD601270
Phoenix Mud Motor, Lobes: 7/8, Stage: 5.7. FBH @ 1.50° w/8.5"	1	32.92	7.000			4-1/2 XH			PHX-725055 -PTS
Bit #3 Run #1 8.75" NOV TKC76 7x11's	1	1.10	8.750	8.750					A253605

## Drillstring Details

Date/Time in	Date/Time out	BHA no.	BHA Length (ft)	Min. ID (in)	Purpose
01/12/2019 13:00	01/13/2019 21:45	3	840.17		Drill 8.75" Intermediate 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		JIAOZUO JINBIAO / JF1600	12.00						
2		JIAOZUO JINBIAO / JF1600	12.00						

## EP WELLS DAILY OPERATIONS REPORT

Report 8

01/13/2019

Well	UNIVERSITY 20 PW 2501H
Wellbore	UNIVERSITY 20 PW 2501H

## Remarks

Trash Disposal: 0ft3

From Kermit- From Major Intersection Hwy 302 at State Hwy 115

Continue ahead on Hwy 302, 15.8 miles, turn left at A-3 lease rd. and continue ahead 6.5 miles. Road will curve to the left for 1 mile and then back to the right, then continue ahead for 1.4 miles. Turn left and continue ahead 1.6 miles to the three way, take the center lane and continue 0.2 miles to location entrance on right.

Well Performance:

University 20PW 25 Pad Performance

AFE: \$ Under

Days: Days Under

University 20PW 2502H Performance

AFE: \$200K Under

Days: 0.25 Days Under

## EP WELLS DAILY OPERATIONS REPORT

Report 9

01/14/2019

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 20 PW 2501H
Wellbore	UNIVERSITY 20 PW 2501H
WBS No/API No	30293388 / 4249534181.00

## Event Summary

Event Type	Drilling only	Event Start Date	12/20/2018	Days on Location	8.33
Objective	Drill - Wolfcamp Beta 2	Original Spud Date	12/21/2018	Days Since Spud	7.23
Est. Days	25.00	Contractor	PRECISION		
Work Unit	PRECISION 565	Days To Release			
		Rig Phone/FAX No.			

## Well Status

Supervisor	Heath McAfee	Measured Depth(ft)	11,371.00
Engineer	Robert Hahn	TVD(ft)	11,252.98
Other Supervisor	William Eubanks/ Andrew Maynor	24 Hr Progress(ft)	463.00
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,798.10 / 2,772.10	Hole size(in)	8.750
THF Datum			
Daily NPT(hr/%)	0/0	Last Casing MD	9.625in@5,004.28ft
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	7.625in@11,371.00ft
Actual cost to date/AFE	999,625/2,899,999.94	Current MW / BH EMW(ppg)	/
Actual divided by AFE	0.34	LOT/FIT EMW(ppg)	
Daily Cost	92,152	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 <b>GOAL ZERO DAYS</b> <b>PS BARRIER EVENT</b> <b>PS barrier bowtie review</b>	08/14/2015	1,249	TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	

## Safety Comments:

HSSE Issue- 10 bbls brine spilled from flow line due to flow line packing off

Assist and Assure meeting held with crew on laying down drill pipe while tripping out of hole. Discussed drop zone, swing path of pipe, proper hand and body placement. Ensured no-go zones were set up and fork lift operator knew not to be in the zone unless catwalk was down.

## HSE Drills

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

## Operations Summary

24 Hour Summary
Trip in hole with 8.75" BHA to 10,800'
Induce flow
Drill 8.75" Intermediate hole section from 10,908' to 11,371'
Circulate hole clean
Trip out of hole from 11,371' to 117' laying down 5.5" drill pipe
Update Since Report Time
Running 7.625" Intermediate casing at
24 Hour Forecast

## EP WELLS DAILY OPERATIONS REPORT

Report 9

01/14/2019

Well UNIVERSITY 20 PW 2501H  
Wellbore UNIVERSITY 20 PW 2501H

Land out 7.625" casing  
Circulate casing volume  
Perform cement job  
Set and test pack off  
Set BPV

## Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	5.50	INT1	TIH		10,908.00	0		Trip in hole with 8.75" Intermediate BHA from 2624' to 10,800' Encountered tight spot at 8,169-8,407' Reamed through
5:30	2.00	INT1	CDM		10,908.00	0		Induce flow as per procedures, pump 250 bbls down backside at 7.5 bbls/min, pumped 50 bbls down drill pipe at 7.5 bbls/min, open well through chokes and establish circulation
7:30	2.50	INT1	DRL		11,371.00	0		Drill 8.75" Intermediate hole section from 10,908' to 11,371'
10:00	2.00	INT1	CBU		11,371.00	0		pump 2 30 bbls hi-vis sweeps and circulate well clean while pumping at 600 gpm and rotating at 60 RPM
12:00	1.00	INT1	CBU		11,371.00	0		Pump slug and allow to fall, Shut in well and bullhead 64 bbls of kill mud down backside open up well with no flow
13:00	4.50	INT1	TOH		11,371.00	0		Trip out of hole with 8.75" BHA from 11,371' to 4,350' laying down 5.5" drill pipe
17:30	0.50	INT1	SVC		11,371.00	0		Service rig
18:00	6.00	INT1	TOH		11,371.00	0		Trip out of hole with 8.75" BHA from 4,350' to 117' laying down 5.5" drill pipe
<b>Total</b>	<b>24.00</b>							

## Deepest 5 Surveys

MD (ft)	Inc. (°)	Azi. (°)	TVD (ft)	N/S (ft)	E/W (ft)	V.Sec (ft)	DLeg (°/100ft)	Tool
10,736.50	2.02	275.85	10,618.88	848.22	730.21	-676.16	0.08	PTW MWD+HDGM_2016
10,924.50	1.85	268.55	10,806.78	848.48	723.88	-677.74	0.16	PTW MWD+HDGM_2016
10,924.50	1.85	268.55	10,806.78	846.76	722.54	-676.33	0.16	PTW MWD+HDGM+AXIAL_2016
11,110.50	2.51	296.19	10,992.65	850.20	717.22	-680.82	0.66	PTW MWD+HDGM_2016
11,355.50	1.60	270.00	11,237.49	852.57	708.99	-684.86	0.52	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/100ft <sup>2</sup> )				
Gels 10 s/m (lbf/100ft <sup>2</sup> )		MBT (lbm/bbl)		R600/300 (°)
API/HTHP WL (cc/30min)		LCM (lbm/bbl)		R200/100 (°)
FC/HTHP FC (32nd")		ECD (ppg)		R6/3 (°)
FL temp. (°F)		H2S (gas unit)		
		KCl (%)		
		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 9

01/14/2019

Well  
WellboreUNIVERSITY 20 PW 2501H  
UNIVERSITY 20 PW 2501H

## Bulks Summary

Product	Quantity Onboard	Units	Daily Usage
Diesel: Rig	11,160.00		
CNG	-1,017.53		

## 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	NATIONAL OILWE	TKC76			E253393	7x11	10,908.00		-----

## 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.
Drill Pipe	319	10,530.73	5.500		4.778	GPDS55			Rig
Heavy Weight Drill Pipe	12	365.68	5.500			GPDS55			Rig
Crossover Sub	1	3.12	7.000		3.000	GPDS55			Rig
Drill Collars	12	356.90	7.000		3.000	4 1/2 IF			Rig
Crossover Sub	1	1.92	6.500		2.880	4-1/2 IF			DR14278
Filter Sub	1	3.47	6.500		2.880	4-1/2 XH			DR33361
Float Sub	1	2.41	6.500		2.880	4-1/2 XH			FS165087
Non-Mag Stabilizer	1	5.61	8.500		2.880	4-1/2 XH			SD600736
Non-Mag Slick Collar	1	29.38	6.450		2.880	4-1/2 XH			SL650001
Non-Mag Stabilizer	1	5.61	8.500		2.880	4-1/2 XH			SD604756
Gap Sub Assembly (Peek Ring) PHX Velocity	1	3.59	6.750		2.800	4-1/2 XH			VG650217P TS
Grounding Sub Assembly PHX	1	3.50	6.750		2.800	4-1/2 XH			VL650184
Centralizer Collar Assembly Velocity	1	8.51	6.750		2.800	4-1/2 XH			VC650333
Velocity Crossover Sub	1	1.63	6.500		2.800	4-1/2 XH			VX650099
Non-Mag Pony Slick Collar	1	9.37	6.450		3.000	4-1/2 XH			NESPC6056 86
Non-Mag Stabilizer	1	5.53	8.500		2.880	4-1/2 XH			SD601270
Phoenix Mud Motor, Lobes: 7/8, Stage: 5.7. FBH @ 1.50° w/8.5"	1	32.94	7.000			4-1/2 XH			PHX-725006
Bit #4 Run #1 8.75" NOV TKC76 7x11's	1	1.10	8.750	8.750					E253393

## Drillstring Details

Date/Time in	Date/Time out	BHA no.	BHA Length (ft)	Min. ID (in)	Purpose
01/13/2019 22:30		4	840.27		Drill 8.75" Intermediate 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		JIAOZUO JINBIAO / JF1600	12.00						
2		JIAOZUO JINBIAO / JF1600	12.00						

## EP WELLS DAILY OPERATIONS REPORT

Report 9

01/14/2019

Well	UNIVERSITY 20 PW 2501H
Wellbore	UNIVERSITY 20 PW 2501H

## Remarks

Trash Disposal: 0ft3

From Kermit- From Major Intersection Hwy 302 at State Hwy 115

Continue ahead on Hwy 302, 15.8 miles, turn left at A-3 lease rd. and continue ahead 6.5 miles. Road will curve to the left for 1 mile and then back to the right, then continue ahead for 1.4 miles. Turn left and continue ahead 1.6 miles to the three way, take the center lane and continue 0.2 miles to location entrance on right.

Well Performance:

University 20PW 25 Pad Performance

AFE: \$ Under

Days: Days Under

University 20PW 2502H Performance

AFE: \$200K Under

Days: 0.25 Days Under

## EP WELLS DAILY OPERATIONS REPORT

Report 10

01/15/2019

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 20 PW 2501H
Wellbore	UNIVERSITY 20 PW 2501H
WBS No/API No	30293388 / 4249534181.00

## Event Summary

Event Type	Drilling only	Event Start Date	12/20/2018	Days on Location	9.33
Objective	Drill - Wolfcamp Beta 2	Original Spud Date	12/21/2018	Days Since Spud	8.23
Est. Days	25.00	Contractor	PRECISION		
Work Unit	PRECISION 565	Days To Release			
		Rig Phone/FAX No.			

## Well Status

Supervisor	Justin Syms	Measured Depth(ft)	11,371.00
Engineer	Robert Hahn	TVD(ft)	11,252.98
Other Supervisor	Jeff Stringer	24 Hr Progress(ft)	
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,798.10 / 2,772.10	Hole size(in)	8.750
THF Datum			
Daily NPT(hr/%)	0/0	Last Casing MD	9.625in@5,004.28ft
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	7.625in@11,355.00ft
Actual cost to date/AFE	1,400,949/2,899,999.94	Current MW / BH EMW(ppg)	12.60/
Actual divided by AFE	0.48	LOT/FIT EMW(ppg)	
Daily Cost	402,155	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 <b>GOAL ZERO DAYS</b> <b>PS BARRIER EVENT</b> <b>PS barrier bowtie review</b>	08/14/2015	1,250	TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	

## Safety Comments:

Assist and Assure meeting held with crew on running casing discussing Own The Zone and identifying the zone owner to the casing running crew. Line of fire topics discussed also included hand and body placement.

## 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	9

## Operations Summary

24 Hour Summary
Finished laying down the BHA, Rigged up Casing tools and run 7.625" casing. Landed on the hanger then circulated the well and cemented with BJ. Cameron set the packoff and preparing to test the BOPS.
Update Since Report Time
Testing BOPS
24 Hour Forecast
Pick up the BHA and TIH, drill out the shoe track.

## EP WELLS DAILY OPERATIONS REPORT

Report 10

01/15/2019

Well UNIVERSITY 20 PW 2501H  
Wellbore UNIVERSITY 20 PW 2501H

## Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	1.50	INT1	BHA		11,371.00	0		Break out and lay down BHA.
1:30	1.00	INT1	PUP		11,371.00	0		Remove wear bushing. Clean and clear rigfloor.
2:30	1.00	INT1	RIC		11,371.00	0		Rig up casing running equipment.
3:30	8.50	INT1	CLR		11,371.00	0		Run 7.625" intermediate casing from surface to 11,355' and land out on hanger. 11,322' of 7.625" 29.7# BTC L80, 249 jnts 2 joint shoe track  Fill pipe at 1,795' (tour change), 5,490', and after landing out. Started getting returns at approximately 4,500'.
12:00	0.50	INT1	RCC		11,371.00	0		Rig down casing running equipment.
12:30	4.50	INT1	RCC		11,371.00	0		Rig up circulating swedge and circulate casing at 250 gpm while rigging up cementers. Rig up lines for displacement with OBM. Held pre-job safety meeting with all involved including discussion about H2S and muster zones due to nearby incident.
17:00	3.00	INT1	CEM		11,371.00	0		Perform cement job as per following schedule:  Test lines to 250 psi / 5,000 psi Pump spacer: 50bbl of fresh water. Pump lead cement: 140bbl of 10.5ppg Class C cement (165 sacks). Pump tail cement: 36bbl at 14.5ppg (163 sacks) of Class H cement. Drop plug. Pump displacement: 517 bbls of 13.0ppg OBM.  Bumped plug on schedule at 500psi over circulating pressure, holding for 1 minute. Floats held, 5.5bbl back.  TRRC Notified 1/14/19 at 23:10, Spoke with Naomi, Operator #18.
20:00	0.50	INT1	LCH		11,371.00	0		Pressure test casing to 2,500 psi for 30 minutes. Bled off pressure, floats held, 5.5bbl back.
20:30	1.50	INT1	LCH		11,371.00	0		Rig Down cement equipment
22:00	1.50	INT1	SLP		11,371.00	0		Cameron installed the Packoff and tested to 10k for 15 min.
23:30	0.50	INT1	BOP		11,371.00	0		M/U the BOP test plug and set for testing BOPS.
<b>Total</b>	<b>24.00</b>							

## 06.00 Update

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Description
0:00	3.25	MNH1	BOP			0	Testing BOP Equipment, tested with 5.5"DP Annular,HCR, Upper and Lower pipe rams along with the Blinds
3:15	0.50	MNH1	BOP			0	Swapped the 5.5" out for 4.5" DP.
3:45		MNH1	BOP			0	Testing with the 4.5" DP tested the Dart IBOP, TIW, Annular, Upper and Lower pipe rams.

## Deepest 5 Surveys

MD (ft)	Inc. (°)	Azi. (°)	TVD (ft)	N/S (ft)	E/W (ft)	V.Sec (ft)	DLeg (°/100ft)	Tool
10,736.50	2.02	275.85	10,618.88	848.22	730.21	-676.16	0.08	PTW MWD+HDGM_2016
10,924.50	1.85	268.55	10,806.78	848.48	723.88	-677.74	0.16	PTW MWD+HDGM_2016
10,924.50	1.85	268.55	10,806.78	846.76	722.54	-676.33	0.16	PTW MWD+HDGM+AXIAL_2016
11,110.50	2.51	296.19	10,992.65	850.20	717.22	-680.82	0.66	PTW MWD+HDGM_2016
11,355.50	1.60	270.00	11,237.49	852.57	708.99	-684.86	0.52	PTW MWD+HDGM_2016

## EP WELLS DAILY OPERATIONS REPORT

Report 10

01/15/2019

Well UNIVERSITY 20 PW 2501H  
Wellbore UNIVERSITY 20 PW 2501H

## Fluid Details

Mud type	NaCl Brine	Oil/Water (%)	75.00/25.00	pH/Pm (cc)	
MD (ft)	11,371.00	TS/HGS/LGS (%)		Pf/Mf (cc)	
Mud Density (ppg)	12.60	Sand (%)		Ca+ (ppm)	
Vis (s/qt)	81.00			Cl- (ppm)	
PV/YP (cp/lbf/100ft <sup>2</sup> )	17.00/10.000	MBT (lbm/bbl)			
Gels 10 s/m (lbf/100ft <sup>2</sup> )		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)			

## 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: Rig	16,120.00		775.00
CNG	-1,049.50		16.97

## 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	NATIONAL OILWE	TKC76			E253393	7x11	10,908.00	11,371.00	-----

## 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.
Drill Pipe	319	10,530.73	5.500		4.778	GPDS55			Rig
Heavy Weight Drill Pipe	12	365.68	5.500			GPDS55			Rig
Crossover Sub	1	3.12	7.000		3.000	GPDS55			Rig
Drill Collars	12	356.90	7.000		3.000	4 1/2 IF			Rig
Crossover Sub	1	1.92	6.500		2.880	4-1/2 IF			DR14278
Filter Sub	1	3.47	6.500		2.880	4-1/2 XH			DR33361
Float Sub	1	2.41	6.500		2.880	4-1/2 XH			FS165087
Non-Mag Stabilizer	1	5.61	8.500		2.880	4-1/2 XH			SD600736
Non-Mag Slick Collar	1	29.38	6.450		2.880	4-1/2 XH			SL650001
Non-Mag Stabilizer	1	5.61	8.500		2.880	4-1/2 XH			SD604756
Gap Sub Assembly (Peek Ring) PHX Velocity	1	3.59	6.750		2.800	4-1/2 XH			VG650217P TS
Grounding Sub Assembly PHX	1	3.50	6.750		2.800	4-1/2 XH			VL650184
Centralizer Collar Assembly Velocity	1	8.51	6.750		2.800	4-1/2 XH			VC650333

## EP WELLS DAILY OPERATIONS REPORT

Report 10

01/15/2019

Well UNIVERSITY 20 PW 2501H  
Wellbore UNIVERSITY 20 PW 2501H

## Drillstring Components

Item description	# Jts	Length (ft)	OD (in)	Max OD (in)	ID (in)	Connection Name	Weight (ppf)	Grade	Serial no.
Velocity Crossover Sub	1	1.63	6.500		2.800	4-1/2 XH			VX650099
Non-Mag Pony Slick Collar	1	9.37	6.450		3.000	4-1/2 XH			NESPC605686
Non-Mag Stabilizer	1	5.53	8.500		2.880	4-1/2 XH			SD601270
Phoenix Mud Motor, Lobes: 7/8, Stage: 5.7, FBH @ 1.50" w/8.5"	1	32.94	7.000			4-1/2 XH			PHX-725006
Bit #4 Run #1 8.75" NOV TKC76 7x11's	1	1.10	8.750	8.750					E253393

## Drillstring Details

Date/Time in	Date/Time out	BHA no.	BHA Length (ft)	Min. ID (in)	Purpose
01/13/2019 22:30	01/15/2019 01:30	4	840.27		Drill 8.75" Intermediate 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		JIAOZUO JINBIAO / JF1600	12.00						
2		JIAOZUO JINBIAO / JF1600	12.00						

## Remarks

Trash Disposal: 0ft3

From Kermit- From Major Intersection Hwy 302 at State Hwy 115

Continue ahead on Hwy 302, 15.8 miles, turn left at A-3 lease rd. and continue ahead 6.5 miles. Road will curve to the left for 1 mile and then back to the right, then continue ahead for 1.4 miles. Turn left and continue ahead 1.6 miles to the three way, take the center lane and continue 0.2 miles to location entrance on right.

Well Performance:

University 20PW 25 Pad Performance

AFE: \$ Under

Days: Days Under

University 20PW 2502H Performance

AFE: \$200K Under

Days: 0.25 Days Under

## EP WELLS DAILY OPERATIONS REPORT

Report 11

01/16/2019

Company	PERMIAN
Well Type	Development
Well	UNIVERSITY 20 PW 2501H
Wellbore	UNIVERSITY 20 PW 2501H
WBS No/API No	30293388 / 4249534181.00

## Event Summary

Event Type	Drilling only	Event Start Date	12/20/2018	Days on Location	10.33
Objective	Drill - Wolfcamp Beta 2	Original Spud Date	12/21/2018	Days Since Spud	9.23
Est. Days	25.00	Contractor	PRECISION		
Work Unit	PRECISION 565	Days To Release			
		Rig Phone/FAX No.			

## Well Status

Supervisor	Justin Syms	Measured Depth(ft)	11,371.00
Engineer	Robert Hahn	TVD(ft)	11,252.98
Other Supervisor	Justin Pittman	24 Hr Progress(ft)	
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,798.10 / 2,772.10	Hole size(in)	
THF Datum			
Daily NPT(hr/%)	0/0	Last Casing MD	9.625in@5,004.28ft
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	7.625in@11,355.00ft
Actual cost to date/AFE	1,508,827/2,899,999.94	Current MW / BH EMW(ppg)	12.50/
Actual divided by AFE	0.52	LOT/FIT EMW(ppg)	
Daily Cost	90,538	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 <b>GOAL ZERO DAYS</b> <b>PS BARRIER EVENT</b> <b>PS barrier bowtie review</b>	08/14/2015	1,251	TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	
Safety Comments:	Assist and Assure meeting held with rig crew, directional drillers and MWD on picking up BHA with emphasis on performing final checks on all equipment including OD/ID calipers and checking all components of handling equipment.						

## HSE Drills

Drills/Tests	Date	Days Since Last	JSA's/Toolbox Talks Days Since Last Drill	
Last Derrick Inspection Last BOP function test Last BOP Test Next BOP Test			10	

## Operations Summary

24 Hour Summary
Full BOP test on 5-1/2" and 4-1/2" drillpipe. Rig down test plug and BOP testers. Install wear bushing. Changeout all handling equipment from 5-1/2" to 4-1/2". Pick up BHA and trip in hole to 99'. Trip in hole from 99' to 8,515' picking up singles.
Update Since Report Time
Trip in hole from 8,515' to 11,086' picking up singles. Slip & cut drill line. Drilling ahead shoe track.
24 Hour Forecast
Drill 6-3/4" curve. Trip out of the hole and pick up lateral assembly.

## EP WELLS DAILY OPERATIONS REPORT

Report 11

01/16/2019

Well UNIVERSITY 20 PW 2501H  
Wellbore UNIVERSITY 20 PW 2501H

## Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	6.50	MNH1	BOP		11,371.00	0		Full blowout preventer pressure test on 5-1/2" and 4-1/2" drillpipe: 250/10,000 psi 5/5 mins all components 250/3,500 psi 5/5 mins annular 250/7,000 psi 5/5 mins pumps
6:30	1.00	MNH1	BOP		11,371.00	0		Rig down test plug and BOP testers.
7:30	1.00	MNH1	PUP		11,371.00	0		Changeout elevators and install wear bushing.
8:30	4.50	MNH1	PUP		11,371.00	0		Changeout saver sub, die blocks, stabbing guide to 4-1/2" and all other handling equipment. Install clamps on both ends of kelly hose as prevention measure for incident which occurred on a different Precision rig. Clean and clear rigfloor.
13:00	2.00	MNH1	BHA		11,371.00	0		Pick up BHA and trip in hole to 99'.
15:00	9.00	MNH1	TIH		11,371.00	0		Trip in hole from 99' to 8,515' picking up singles.
<b>Total</b>	<b>24.00</b>							

## Deepest 5 Surveys

MD (ft)	Inc. (°)	Azi. (°)	TVD (ft)	N/S (ft)	E/W (ft)	V.Sec (ft)	DLeg (°/100ft)	Tool
10,924.50	1.85	268.55	10,806.78	848.48	723.88	-677.74	0.16	PTW MWD+HDGM_2016
11,110.50	2.51	296.19	10,992.65	850.20	717.22	-680.82	0.66	PTW MWD+HDGM_2016
11,110.50	2.51	296.19	10,992.65	848.48	715.89	-679.41	0.66	PTW MWD+HDGM+AXIAL_2016
11,298.50	3.83	308.81	11,180.36	854.23	707.30	-686.84	0.79	PTW MWD+HDGM+AXIAL_2016
11,355.50	1.60	270.00	11,237.49	852.57	708.99	-684.86	0.52	PTW MWD+HDGM_2016

## Fluid Details

Mud type	NaCl Brine	Oil/Water (%)	pH/Pm (cc)
MD (ft)	11,371.00	TS/HGS/LGS (%)	Pf/Mf (cc)
Mud Density (ppg)	12.50	Sand (%)	Ca+ (ppm)
Vis (s/qt)	73.00		Cl- (ppm)
PV/YP (cp/lbf/100ft²)	22.00/13.000	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)	

## 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: Rig	15,765.00		355.00
CNG	-1,100.30		50.80

## EP WELLS DAILY OPERATIONS REPORT

Report 11

01/16/2019

Well UNIVERSITY 20 PW 2501H  
Wellbore UNIVERSITY 20 PW 2501H

## 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		JIAOZUO JINBIAO / JF1600	12.00						
2		JIAOZUO JINBIAO / JF1600	12.00						

## Remarks

Trash Disposal: 0ft3

From Kermit- From Major Intersection Hwy 302 at State Hwy 115

Continue ahead on Hwy 302, 15.8 miles, turn left at A-3 lease rd. and continue ahead 6.5 miles. Road will curve to the left for 1 mile and then back to the right, then continue ahead for 1.4 miles. Turn left and continue ahead 1.6 miles to the three way, take the center lane and continue 0.2 miles to location entrance on right.

Well Performance:

University 20PW 25 Pad Performance

AFE: \$ Under

Days: Days Under

University 20PW 2502H Performance

AFE: \$300K Under

Days: 4.5 Days Under

## EP WELLS DAILY OPERATIONS REPORT

Report 12

01/17/2019

Company PERMIAN  
 Well Type Development  
 Well UNIVERSITY 20 PW 2501H  
 Wellbore UNIVERSITY 20 PW 2501H  
 WBS No/API No 30293388 / 4249534181.00



## Event Summary

Event Type	Drilling only	Event Start Date	12/20/2018	Days on Location	11.33
Objective	Drill - Wolfcamp Beta 2	Original Spud Date	12/21/2018	Days Since Spud	10.23
Est. Days	25.00	Contractor	PRECISION		
Work Unit	PRECISION 565	Days To Release			
		Rig Phone/FAX No.			

## Well Status

Supervisor	Justin Syms	Measured Depth(ft)	12,228.00
Engineer	Robert Hahn	TVD(ft)	11,815.22
Other Supervisor	Douglas Eubanks	24 Hr Progress(ft)	857.00
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,798.10 / 2,772.10	Hole size(in)	6.750
THF Datum			
Daily NPT(hr/%)	0/0	Last Casing MD	7.625in@11,355.00ft
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	4.500in@
Actual cost to date/AFE	1,580,250/2,899,999.94	Current MW / BH EMW(ppg)	12.50/
Actual divided by AFE	0.54	LOT/FIT EMW(ppg)	
Daily Cost	71,418	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 <b>GOAL ZERO DAYS</b> <b>PS BARRIER EVENT</b> <b>PS barrier bowtie review</b>	08/14/2015	1,252	TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	

## Safety Comments:

Assist and Assure meeting held with rig crew about Own The Zone for making up stands while drilling ahead. The zone owner responsibilities were discussed about personnel and loader being out of the no-go zone while catwalk skate was at height.

## 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	11

## Operations Summary

24 Hour Summary
Trip in the hole from 8,515' to 11,086', Slip and cut drill line, Drill cement and shoe track, Drill 6.75" hole building curve from 11,371' to 12,228', Circulate bottoms up, Flow check and well is flowing, Spot mud cap and pull out of hole from 12,228' to 8,815
Update Since Report Time
04:00 Finish pulling out of hole and lay down curve BHA, Pick up 6.75" lateral BHA and tripping in hole at 650'.
24 Hour Forecast
Tripping in hole with 6.75" lateral section BHA and drilling lateral production section of hole.

## EP WELLS DAILY OPERATIONS REPORT

Report 12

01/17/2019

Well UNIVERSITY 20 PW 2501H  
Wellbore UNIVERSITY 20 PW 2501H

## Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	2.50	MNH1	TIH		11,371.00	0		Trip in hole from 8,515' to 11,086' picking up singles.
2:30	1.00	MNH1	CUT		11,371.00	0		Slip and cut drill line.
3:30	2.00	MNH1	DCM		11,371.00	0		Make up top drive and fill pipe. Ream down to shoe track, tag float collar at 11,265' and shoe at 11,357' Drill shoe track and clean out rathole to 11,371'
5:30	0.50	MNH1	SVC		11,371.00	0		Rig service.
6:00	12.50	MNH1	DRL		12,228.00	0		Drill 6-3/4" production hole from 11,371' to 11,440'. Kick off and drill 6-3/4" production curve from 11,440' to 12,228".
18:30	0.50	MNH1	SVC		12,228.00	0		Rig service, Flow check and well flowing.
19:00	1.00	MNH1	CDM		12,228.00	0		Circulate bottoms up.
20:00	0.25	MNH1	CDM		12,228.00	0		Flow check and well flowing 5 to 6 bbls per hour, shut well in and no casing pressure build up.
20:15	0.75	MNH1	CDM		12,228.00	0		Spot 60 bbls ( 500' ) of 16 ppg pill in curve, Pump slug and chase
21:00	0.50	MNH1	TOH		12,228.00	0		HPJSM, Pull out of hole from 12,228' to 10,330', hole not taking proper fill.
21:30	0.50	MNH1	CDM		12,228.00	0		Monitor well on trip tank and well flowing 5 to 6 bbls per hour
22:00	0.50	MNH1	CDM		12,228.00	0		Spot 40 bbls slug in the pipe in hole for second mud cap pill.
22:30	0.25	MNH1	TOH		12,228.00	0		Pull out of hole wet from 10,330' to 9,768' above second pill
22:45	1.00	MNH1	CDM		12,228.00	0		Circulate bottoms up at 9,768', Flow check well is static. Pump slug.
23:45	0.25	MNH1	TOH		12,228.00	0		Pulling out of hole from 9,768' to 8,815', Hole taking proper fill.
<b>Total</b>	<b>24.00</b>							

## Deepest 5 Surveys

MD (ft)	Inc. (°)	Azi. (°)	TVD (ft)	N/S (ft)	E/W (ft)	V.Sec (ft)	DLeg (°/100ft)	Tool
11,892.50	53.16	358.70	11,696.50	1,086.81	708.29	-914.03	9.96	PTW MWD+HDGM_2016
11,987.50	58.55	351.82	11,749.84	1,165.05	701.65	-991.92	8.25	PTW MWD+HDGM_2016
12,082.50	70.32	346.63	11,790.79	1,249.01	685.47	-1,077.41	13.33	PTW MWD+HDGM_2016
12,133.50	76.00	340.00	11,805.57	1,295.71	671.43	-1,126.01	16.69	PTW MWD+HDGM_2016
12,194.50	88.00	340.00	11,814.05	1,352.37	650.81	-1,185.74	19.67	PTW MWD+HDGM_2016

## Fluid Details

Mud type	Oil Base (GTL)	Oil/Water (%)	POM (cc)
MD (ft)	11,993.00	TS/HGS/LGS (%)	CaCl2 (%)
Mud Density (ppg)	12.50	Sand (%)	Caom/Clom (ppm)
Vis (s/qt)	77.00	Oil/Water Ratio (%)	ACT
PV/YP (cp/lbf/100ft²)		LCM (lbm/bbl)	XS Lime(lbm/bbl)
Gels 10 s/m (lb/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)	

## EP WELLS DAILY OPERATIONS REPORT

Report 12

01/17/2019

Well  
WellboreUNIVERSITY 20 PW 2501H  
UNIVERSITY 20 PW 2501H

## 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: Rig	14,254.00		1,511.00
CNG	-1,233.54		133.24

## 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	6.750	HALLIBURTON	GTC63C			13179289	6x12	11,371.00		-----

## 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.
HWDP	14	442.56	5.000			DELTA 425			RIG
DRILL PIPE	36	1,136.06	4.500			DELTA 425			RIG
CROSSOVER	1	3.00	5.000		2.750	DELTA 425			WS26-11366
FILTER SUB	1	3.50	4.750		2.250	3 1/2 IF			DR35937
FLOAT SUB	1	2.57	4.750		2.500	3 1/2 IF			DR8237
SLICK COLLAR	1	29.97	5.050		2.750	3 1/2 IF			DR31169PF A
VELOCITY GAP SUB	1	3.78	5.190		3.500	3 1/2 IF			VG475179P TS
VELOCITY CENTRALIZER COLLAR	1	8.34	5.130		3.500	3 1/2 IF			VC475-070
VELOCITY GROUNDING SUB	1	3.42	5.190		3.500	3 1/2 IF			VL475159
VELOCITY CROSSOVER SUB	1	2.30	5.130		2.440	3 1/2 IF			VX475156
NON-MAG FLEX PONY	1	9.50	5.130		2.500	DS38			P513001
PHX FBH MUD MOTOR 6/7 LOBE. STAGE 8. SET @	1	31.96	6.500			DS38			24XH-51301 8-PTS
BIT #5 RUN #1 6.75" HALLIBURTON GTC63C	1	1.08	6.750	6.750		3 1/2 REG			13179289

## Drillstring Details

Date/Time in	Date/Time out	BHA no.	BHA Length (ft)	Min. ID (in)	Purpose
01/16/2019 13:00		5	541.98		DRILL 6.75" 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		JIAOZUO JINBIAO / JF1600	12.00						
2		JIAOZUO JINBIAO / JF1600	12.00						

## EP WELLS DAILY OPERATIONS REPORT

Report 12

01/17/2019

Well	UNIVERSITY 20 PW 2501H
Wellbore	UNIVERSITY 20 PW 2501H

## Remarks

Trash Disposal: 0ft3

From Kermit- From Major Intersection Hwy 302 at State Hwy 115

Continue ahead on Hwy 302, 15.8 miles, turn left at A-3 lease rd. and continue ahead 6.5 miles. Road will curve to the left for 1 mile and then back to the right, then continue ahead for 1.4 miles. Turn left and continue ahead 1.6 miles to the three way, take the center lane and continue 0.2 miles to location entrance on right.

Well Performance:

University 20PW 25 Pad Performance

AFE: \$ Under

Days: Days Under

University 20PW 2502H Performance

AFE: \$250K Under

Days: 4.5 Days Under

## EP WELLS DAILY OPERATIONS REPORT

Report 15

01/20/2019

Company PERMIAN  
 Well Type Development  
 Well UNIVERSITY 20 PW 2501H  
 Wellbore UNIVERSITY 20 PW 2501H  
 WBS No/API No 30293388 / 4249534181.00



## Event Summary

Event Type	Drilling only	Event Start Date	12/20/2018	Days on Location	14.33
Objective	Drill - Wolfcamp Beta 2	Original Spud Date	12/21/2018	Days Since Spud	13.23
Est. Days	25.00	Contractor	PRECISION		
Work Unit	PRECISION 565	Days To Release			
		Rig Phone/FAX No.			

## Well Status

Supervisor	Justin Syms	Measured Depth(ft)	15,177.00
Engineer	Robert Hahn	TVD(ft)	11,862.18
Other Supervisor	Douglas Eubanks	24 Hr Progress(ft)	1,183.00
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,798.10 / 2,772.10	Hole size(in)	6.750
THF Datum			
Daily NPT(hr/%)	0/0	Last Casing MD	7.625in@11,355.00ft
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	4.500in@
Actual cost to date/AFE	1,809,431/2,899,999.94	Current MW / BH EMW(ppg)	12.70/
Actual divided by AFE	0.62	LOT/FIT EMW(ppg)	
Daily Cost	61,492	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 <b>GOAL ZERO DAYS</b> <b>PS BARRIER EVENT</b> <b>PS barrier bowtie review</b>	08/14/2015	1,255	TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	
Safety Comments:	Assist and Assure meeting held with rig crews with focus on preparing the area before and after the job as well as housekeeping.						

## HSE Drills

Drills/Tests	Date	Days Since Last		
Last Derrick Inspection	01/19/2019	1	JSA's/Toolbox Talks	14
Last BOP function test	01/16/2019	4	Days Since Last Drill	
Last BOP Test	02/06/2019			
Next BOP Test				

## Operations Summary

24 Hour Summary
Wash and ream to bottom from 13,562' to 13,994', Drill 6.75" lateral hole from 13,994' to 15,177', Had two rig service thru the day. Mud motor stalling and Rop was reduced, Circulate bottoms up for tripping out of hole. Pull out of hole from 15,177' to 11,473'. Hole not taking proper fill, spot 30 bbls pill of 16.0 ppg for little mud cap and pump slug. Pulling out of hole from 11,473' to 5,980' hole taking proper fill.
Update Since Report Time
00:00 to 02:00 Pull out of hole from 5,980' to BHA, 02:00 to 03:00 Change out mud motor and bit. 03:00 to 04:00 Tripping in hole with BHA #8 to 3,800'
24 Hour Forecast
Tripping in hole to Shoe. Slip and cut drill line. Trip in hole and drilling lateral section of hole to TD of 16,750' + -

## EP WELLS DAILY OPERATIONS REPORT

Report 15

01/20/2019

Well UNIVERSITY 20 PW 2501H  
Wellbore UNIVERSITY 20 PW 2501H

## Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	1.00	MNH1	TIH		13,994.00	0		Wash and ream from 13,562' to 13,994'.
1:00	4.50	MNH1	DRL		14,324.00	0		Drill 6-3/4" production hole from 13,994' to 14,324'.
5:30	0.50	MNH1	SVC		14,324.00	0		Rig service.
6:00	11.00	MNH1	DRL		15,083.00	0		Drill 6-3/4" production hole from 14,324' to 15,083'.
17:00	0.50	MNH1	SVC		15,083.00	0		Rig service.
17:30	1.50	MNH1	DRL		15,177.00	0		Drill 6-3/4" production hole from 15,083' to 15,177'.  Note: Decision to bit trip due to motor stalling and significant drop in rate of penetration.
19:00	1.00	MNH1	CBU		15,177.00	0		Circulate bottoms up prior to bit trip.
20:00	2.00	MNH1	TOH		15,177.00	0		Flow check, Well static, pump 20 bbl slug and pull out of hole from 15,177' to 11,473' hole stop taking proper fill.
22:00	0.50	MNH1	CDM		15,177.00	0		Flow check and well flowing 2 bbls per hour, Spot 30 bbls mud cap pill of 16 ppg and pump 40 bbls slug.
22:30	1.50	MNH1	TOH		15,177.00	0		Pulling out of hole from 11,473' to 5,980', Hole taking proper fill.
<b>Total</b>	<b>24.00</b>							

## Deepest 5 Surveys

MD (ft)	Inc. (°)	Azi. (°)	TVD (ft)	N/S (ft)	E/W (ft)	V.Sec (ft)	DLeg (°/100ft)	Tool
14,645.50	84.63	344.66	11,858.00	3,676.07	-98.48	-3,614.92	7.23	PTW MWD+HDGM_2016
14,740.50	84.32	344.33	11,867.15	3,767.19	-123.75	-3,709.32	0.48	PTW MWD+HDGM_2016
14,835.50	90.79	346.87	11,871.20	3,859.06	-147.34	-3,804.10	7.32	PTW MWD+HDGM_2016
14,930.50	93.70	346.45	11,867.48	3,951.42	-169.24	-3,898.99	3.09	PTW MWD+HDGM_2016
15,024.50	90.65	345.88	11,863.91	4,042.62	-191.70	-3,992.87	3.30	PTW MWD+HDGM_2016

## Fluid Details

Mud type	Oil Base (GTL)	Oil/Water (%)	56.00/20.00	POM (cc)	
MD (ft)	15,081.00	TS/HGS/LGS (%)	21.90//	CaCl2 (%)	
Mud Density (ppg)	12.70	Sand (%)	0.10	Caom/Clom (ppm)	
Vis (s/qt)	72.00	Oil/Water Ratio (%)	73.70/26.30	ACT	
PV/YP (cp/lbf/100ft <sup>2</sup> )	24.00/12.000			XS Lime(lbm/bbl)	3.88
Gels 10 s/m (lbf/100ft <sup>2</sup> )	9.000/13.000	LCM (lbm/bbl)		ES (Volts)	660.0
API/HTHP WL (cc/30min)		ECD (ppg)	14.750	R600/300 (°)	
FC/HTHP FC (32nd")	/2.0	H2S (gas unit)		R200/100 (°)	
WPS (ppm)	281,256	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

## Bulks Summary

Product	Quantity Onboard	Units	Daily Usage
Diesel: Rig	9,660.00		1,921.00
CNG	-1,682.74		335.60

## EP WELLS DAILY OPERATIONS REPORT

Report 15

01/20/2019

Well UNIVERSITY 20 PW 2501H  
Wellbore UNIVERSITY 20 PW 2501H

## 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	6.750	BAKER HUGHES	DD405T			5290165	3x14, 3x16	13,994.00		-----

## 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.
DRILL PIPE	441	15,067.34	4.500			DELTA 425			RIG
CROSSOVER	1	3.00	5.000		2.750	DELTA 425			WS26-11366
FILTER SUB	1	3.50	4.750		2.250	3 1/2 IF			DR35937
FLOAT SUB	1	2.57	4.750		2.500	3 1/2 IF			DR8237
ROLLER REAMER	1	4.23	6.500		2.000	DS38			XM2081
SLICK COLLAR	1	29.97	5.050		2.750	3 1/2 IF			DR31169PF A
VELOCITY GAP SUB	1	3.78	5.190		3.500	3 1/2 IF			VG475179P TS
VELOCITY CENTRALIZER COLLAR	1	8.34	5.130		3.500	3 1/2 IF			VC475-070
VELOCITY GROUNDING SUB	1	3.42	5.190		3.500	3 1/2 IF			VL475159
VELOCITY CROSSOVER SUB	1	2.30	5.130		2.440	3 1/2 IF			VX475156
NON-MAG FLEX PONY	1	9.50	5.130		2.500	DS38			P513001
ROLLER REAMER	1	4.12	6.500		2.000	DS38			MX2155
NABORS FBH MUD MOTOR 6/7 LOBE, STAGE 8, SET @ 1.75"	1	33.98	5.750			DS38			RY500062
BIT #7 RUN #1 6.75" BAKER DD405T SN: 5290165 3X14.	1	0.95	6.750	6.750		3 1/2 REG			5290165

## Drillstring Details

Date/Time in	Date/Time out	BHA no.	BHA Length (ft)	Min. ID (in)	Purpose
01/19/2019 18:00		7	109.66		DRILL 6.75" 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		JIAOZUO JINBIAO / JF1600	12.00						
2		JIAOZUO JINBIAO / JF1600	12.00						

## Remarks

Trash Disposal: 0ft3

From Kermit- From Major Intersection Hwy 302 at State Hwy 115

Continue ahead on Hwy 302, 15.8 miles, turn left at A-3 lease rd. and continue ahead 6.5 miles. Road will curve to the left for 1 mile and then back to the right, then continue ahead for 1.4 miles. Turn left and continue ahead 1.6 miles to the three way, take the center lane and continue 0.2 miles to location entrance on right.

Well Performance:

University 20PW 25 Pad Performance

AFE: \$ Under

Days: Days Under

EP WELLS DAILY OPERATIONS REPORT

Report 15 01/20/2019

Well UNIVERSITY 20 PW 2501H  
Wellbore UNIVERSITY 20 PW 2501H

University 20PW 250 1H Performance  
AFE: \$150K Under  
Days: 2.0 Days Under

## EP WELLS DAILY OPERATIONS REPORT

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01/21/2019

Company PERMIAN  
 Well Type Development  
 Well UNIVERSITY 20 PW 2501H  
 Wellbore UNIVERSITY 20 PW 2501H  
 WBS No/API No 30293388 / 4249534181.00



## Event Summary

Event Type	Drilling only	Event Start Date	12/20/2018	Days on Location	15.33
Objective	Drill - Wolfcamp Beta 2	Original Spud Date	12/21/2018	Days Since Spud	14.23
Est. Days	25.00	Contractor	PRECISION		
Work Unit	PRECISION 565	Days To Release			
		Rig Phone/FAX No.			

## Well Status

Supervisor	Justin Syms	Measured Depth(ft)	16,038.00
Engineer	Robert Hahn	TVD(ft)	11,879.56
Other Supervisor	Douglas Eubanks	24 Hr Progress(ft)	861.00
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,798.10 / 2,772.10	Hole size(in)	6.750
THF Datum			
Daily NPT(hr/%)	0/0	Last Casing MD	7.625in@11,355.00ft
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	4.500in@
Actual cost to date/AFE	1,886,334/2,899,999.94	Current MW / BH EMW(ppg)	12.80/
Actual divided by AFE	0.65	LOT/FIT EMW(ppg)	
Daily Cost	76,873	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 <b>GOAL ZERO DAYS</b> <b>PS BARRIER EVENT</b> <b>PS barrier bowtie review</b>	08/14/2015	1,256	TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	
Safety Comments:	Assist and Assure meeting held with rig crews with focus on process safety and monitoring for all the indications from the well.						

## HSE Drills

Drills/Tests	Date	Days Since Last		
Last Derrick Inspection	01/19/2019	2	JSA's/Toolbox Talks	15
Last BOP function test	01/16/2019	5	Days Since Last Drill	
Last BOP Test	02/06/2019			
Next BOP Test				

## Operations Summary

24 Hour Summary
Finish pulling out of hole and lay down mud motor and bit. Pick up BHA #8 new mud motor and bit and trip in hole to 7,687'. Slip and cut drill line. Trip in hole from 7,687' to 15,177' and wash and ream as needed. Drill from 15,177' to 16,038'
Update Since Report Time
04:00 Drilling 6.75" lateral section of hole from 16,038' to 16,312'
24 Hour Forecast
Drill 6.75 lateral section of hole to a TD of 16,820' + -, Do Well bore clean up cycle. Pulling out of hole to run production casing string.

## EP WELLS DAILY OPERATIONS REPORT

Report 16

01/21/2019

Well UNIVERSITY 20 PW 2501H  
Wellbore UNIVERSITY 20 PW 2501H

## Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	2.00	MNH1	TOH		15,177.00	0		Finish pulling out of hole from 5,980' to BHA
2:00	1.00	MNH1	BHA		15,177.00	0		Breakout and lay down bit and motor from BHA #7. Make up new motor and bit and trip in hole BHA #8.
3:00	2.00	MNH1	TIH		15,177.00	0		Trip in hole from 110' to 7,687'.
5:00	1.00	MNH1	CUT		15,177.00	0		Slip and cut drill line.
6:00	3.50	MNH1	TIH		15,177.00	0		Trip in hole from 7,687' to 13,343'.
9:30	0.50	MNH1	TIH		15,177.00	0		Make up top drive fill pipe. Wash and ream through tight spots from 13,343' to 13,377'.
10:00	0.50	MNH1	TIH		15,177.00	0		Trip in hole from 13,377' to 14,658'.
10:30	1.00	MNH1	CDM		15,177.00	0		Make up top drive and fill pipe. Circulate gas out at surface.
11:30	1.50	MNH1	TIH		15,177.00	0		Wash and ream through tight spots from 14,658' to 15,177'.
13:00	5.00	MNH1	DRL		15,483.00	0		Drill ahead from 15,177' to 15,483'.
18:00	6.00	MNH1	DRL		16,038.00	0		Drill ahead from 15,483' to 16,038'
<b>Total</b>	<b>24.00</b>							

## Deepest 5 Surveys

MD (ft)	Inc. (°)	Azi. (°)	TVD (ft)	N/S (ft)	E/W (ft)	V.Sec (ft)	DLeg (°/100ft)	Tool
15,592.50	87.50	341.49	11,869.14	4,599.47	-300.29	-4,560.11	6.65	PTW MWD+HDGM_2016
15,687.50	89.64	337.26	11,871.52	4,688.33	-333.74	-4,654.01	4.99	PTW MWD+HDGM_2016
15,782.50	88.38	337.33	11,873.16	4,775.95	-370.40	-4,747.38	1.33	PTW MWD+HDGM_2016
15,876.50	89.93	341.50	11,874.54	4,863.92	-403.44	-4,840.32	4.73	PTW MWD+HDGM_2016
15,971.50	87.69	333.86	11,876.52	4,951.71	-439.48	-4,933.72	8.38	PTW MWD+HDGM_2016

## Fluid Details

Mud type	Oil Base (GTL)	Oil/Water (%)	55.50/20.00	POM (cc)	
MD (ft)	15,460.00	TS/HGS/LGS (%)	22.60//	CaCl2 (%)	
Mud Density (ppg)	12.80	Sand (%)	0.10	Caom/Clom (ppm)	
Vis (s/qt)	71.00	Oil/Water Ratio (%)	73.50/26.50	ACT	
PV/YP (cp/lbf/100ft²)	26.00/13.000			XS Lime(lbm/bbl)	3.37
Gels 10 s/m (lbf/100ft²)	7.000/13.000	LCM (lbm/bbl)		ES (Volts)	665.0
API/HTHP WL (cc/30min)		ECD (ppg)	13.820	R600/300 (°)	
FC/HTHP FC (32nd")	/2.0	H2S (gas unit)		R200/100 (°)	
WPS (ppm)	260,455	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

## Bulks Summary

Product	Quantity Onboard	Units	Daily Usage
Diesel: Rig	8,158.00		1,502.00
CNG	-1,697.34		14.60

## EP WELLS DAILY OPERATIONS REPORT

Report 16

01/21/2019

Well  
WellboreUNIVERSITY 20 PW 2501H  
UNIVERSITY 20 PW 2501H

## 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
8	6.750	BAKER HUGHES	DD405T			5293796	3x14, 3x16	15,177.00		-----

## 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.
DRILL PIPE	441	15,929.16	4.500			DELTA 425			RIG
CROSSOVER	1	3.00	5.000		2.750	DELTA 425			WS26-11366
FILTER SUB	1	3.50	4.750		2.250	3 1/2 IF			DR35937
FLOAT SUB	1	2.57	4.750		2.500	3 1/2 IF			DR8237
ROLLER REAMER	1	4.23	6.500		2.000	DS38			XM2081
SLICK COLLAR	1	29.97	5.050		2.750	3 1/2 IF			DR31169PF A
VELOCITY GAP SUB	1	3.78	5.190		3.500	3 1/2 IF			VG475079P TS
VELOCITY CENTRALIZER COLLAR	1	8.34	5.130		3.500	3 1/2 IF			VC475-090
VELOCITY GROUNDING SUB	1	3.42	5.190		3.500	3 1/2 IF			VL475079
VELOCITY CROSSOVER SUB	1	1.63	5.130		2.440	3 1/2 IF			VX475076
NON-MAG FLEX PONY	1	9.50	5.130		2.500	DS38			P513001
ROLLER REAMER	1	4.12	6.500		2.000	DS38			MX2155
NABORS FBH MUD MOTOR 6/7 LOBE, STAGE 8, SET @ 1.75"	1	33.83	5.750			DS38			NABORS
BIT #8 RUN #1 6.75" BAKER DD405T SN: 5293796 3X14.	1	0.95	6.750	6.750		3 1/2 REG			5293796

## Drillstring Details

Date/Time in	Date/Time out	BHA no.	BHA Length (ft)	Min. ID (in)	Purpose
01/21/2019 03:00		8	108.84		DRILL 6.75" PRODUCTION 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
7	6.750	BAKER HUGHES	DD405T			5290165	3x14, 3x16	13,994.00	15,177.00	-----

## 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.
DRILL PIPE	441	15,067.34	4.500			DELTA 425			RIG
CROSSOVER	1	3.00	5.000		2.750	DELTA 425			WS26-11366
FILTER SUB	1	3.50	4.750		2.250	3 1/2 IF			DR35937
FLOAT SUB	1	2.57	4.750		2.500	3 1/2 IF			DR8237

## EP WELLS DAILY OPERATIONS REPORT

Report 16

01/21/2019

Well UNIVERSITY 20 PW 2501H  
Wellbore UNIVERSITY 20 PW 2501H

## Drillstring Components

Item description	# Jts	Length (ft)	OD (in)	Max OD (in)	ID (in)	Connection Name	Weight (ppf)	Grade	Serial no.
ROLLER REAMER	1	4.23	6.500		2.000	DS38			XM2081
SLICK COLLAR	1	29.97	5.050		2.750	3 1/2 IF			DR31169PFA
VELOCITY GAP SUB	1	3.78	5.190		3.500	3 1/2 IF			VG475179PTS
VELOCITY CENTRALIZER COLLAR	1	8.34	5.130		3.500	3 1/2 IF			VC475-070
VELOCITY GROUNDING SUB	1	3.42	5.190		3.500	3 1/2 IF			VL475159
VELOCITY CROSSOVER SUB	1	2.30	5.130		2.440	3 1/2 IF			VX475156
NON-MAG FLEX PONY	1	9.50	5.130		2.500	DS38			P513001
ROLLER REAMER	1	4.12	6.500		2.000	DS38			MX2155
NABORS FBH MUD MOTOR 6/7 LOBE, STAGE 8, SET @ 1.75°	1	33.98	5.750			DS38			RY500062
BIT #7 RUN #1 6.75" BAKER DD405T SN: 5290165 3X14.	1	0.95	6.750	6.750		3 1/2 REG			5290165

## Drillstring Details

Date/Time in	Date/Time out	BHA no.	BHA Length (ft)	Min. ID (in)	Purpose
01/19/2019 18:00	01/21/2019 03:00	7	218.50		DRILL 6.75" 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		JIAOZUO JINBIAO / JF1600	12.00						
2		JIAOZUO JINBIAO / JF1600	12.00						

## Remarks

Trash Disposal: 0ft3

From Kermit- From Major Intersection Hwy 302 at State Hwy 115

Continue ahead on Hwy 302, 15.8 miles, turn left at A-3 lease rd. and continue ahead 6.5 miles. Road will curve to the left for 1 mile and then back to the right, then continue ahead for 1.4 miles. Turn left and continue ahead 1.6 miles to the three way, take the center lane and continue 0.2 miles to location entrance on right.

Well Performance:

University 20PW 25 Pad Performance

AFE: \$ Under

Days: Days Under

University 20PW 250 1H Performance

AFE: \$150K Under

Days: 1.5 Days Under

## EP WELLS DAILY OPERATIONS REPORT

Report 17

01/22/2019

Company PERMIAN  
 Well Type Development  
 Well UNIVERSITY 20 PW 2501H  
 Wellbore UNIVERSITY 20 PW 2501H  
 WBS No/API No 30293388 / 4249534181.00



## Event Summary

Event Type	Drilling only	Event Start Date	12/20/2018	Days on Location	16.33
Objective	Drill - Wolfcamp Beta 2	Original Spud Date	12/21/2018	Days Since Spud	15.23
Est. Days	25.00	Contractor	PRECISION		
Work Unit	PRECISION 565	Days To Release			
		Rig Phone/FAX No.			

## Well Status

Supervisor	Justin Syms	Measured Depth(ft)	16,822.00
Engineer	Robert Hahn	TVD(ft)	11,886.28
Other Supervisor	Douglas Eubanks	24 Hr Progress(ft)	784.00
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,798.10 / 2,772.10	Hole size(in)	6.750
THF Datum			
Daily NPT(hr/%)	0/0	Last Casing MD	7.625in@11,355.00ft
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	4.500in@
Actual cost to date/AFE	1,959,000/2,899,999.94	Current MW / BH EMW(ppg)	12.60/
Actual divided by AFE	0.68	LOT/FIT EMW(ppg)	
Daily Cost	72,317	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 <b>GOAL ZERO DAYS</b> <b>PS BARRIER EVENT</b> <b>PS barrier bowtie review</b>	08/14/2015	1,257	TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	
Safety Comments:	Assist and Assure meeting held with rig crews with focus on managing transitions in the operations and recognizing change. If change is recognized have a pause and go through the safe work process accounting for the new scope.						

## HSE Drills

Drills/Tests	Date	Days Since Last		
Last Derrick Inspection			JSA's/Toolbox Talks	
Last BOP function test	01/19/2019	3	Days Since Last Drill	16
Last BOP Test	01/16/2019	6		
Next BOP Test	02/06/2019			

## Operations Summary

24 Hour Summary
Drill from 16,083' to 16,597', Rig service, Drill from 16,597' to 16,822', Do Well bore clean up cycle, Pull out of hole from 16,822' to 15,960', Tight Spot pulled up to 400k, Circulate two bottoms ups.
Update Since Report Time
00:00 to 01:00, Finish circulate B/U. 01:00 to 04:00 Pulling out of hole and Back reaming from 15,960' to 15,200' only tight spots were in slides.
24 Hour Forecast
Pull out of hole to 11,450', Circulate bottoms up, Spot pill and slug pipe Finish pulling out of hole, Pull Wear bushing, Rig up Tesco casing crew, Run 4.5" & 5.5" production casing.

## EP WELLS DAILY OPERATIONS REPORT

Report 17

01/22/2019

Well UNIVERSITY 20 PW 2501H  
Wellbore UNIVERSITY 20 PW 2501H

## Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	6.00	MNH1	DRL		16,357.00	0		Drill ahead from 16,083' to 16,357'.
6:00	10.00	MNH1	DRL		16,597.00	0		Drill ahead from 16,357' to 16,597'.
16:00	0.50	MNH1	SVC		16,597.00	0		Rig Service
16:30	1.50	MNH1	DRL		16,745.00	0		Drill ahead from 16,597' to 16,745'.
18:00	0.50	MNH1	DRL		16,822.00	0		Drill ahead from 16,745' to 16,822'. Get final survey and rack back stand.
18:30	3.25	MNH1	CBU		16,822.00	0		Do Well bore clean up cycle. Pumping two bottoms up and working pipe down at 65' per hr with 350 GPM and 120 RPM and killing rotation and pumps to pull up drill string.
21:45	0.75	MNH1	TOH		16,822.00	0		Pull out of hole from 16,777' to 15,960', Working on tight hole at 15,960', Max pull 400k.
22:30	1.50	MNH1	CBU		16,822.00	0		Pumping two bottoms up and working pipe down at 65' per hr with 350 GPM and 120 RPM.
<b>Total</b>	<b>24.00</b>							

## Deepest 5 Surveys

MD (ft)	Inc. (°)	Azi. (°)	TVD (ft)	N/S (ft)	E/W (ft)	V.Sec (ft)	DLeg (°/100ft)	Tool
16,351.50	90.82	337.02	11,884.14	5,296.45	-598.66	-5,304.18	0.40	PTW MWD+HDGM_2016
16,446.50	90.65	338.00	11,882.92	5,384.22	-635.00	-5,397.62	1.05	PTW MWD+HDGM_2016
16,540.50	86.14	337.87	11,885.55	5,471.28	-670.29	-5,490.14	4.80	PTW MWD+HDGM_2016
16,599.50	90.00	340.00	11,887.54	5,526.29	-691.47	-5,548.38	7.47	PTW MWD+HDGM_2016
16,819.50	90.64	340.00	11,886.31	5,733.02	-766.72	-5,766.29	0.29	PTW MWD+HDGM_2016

## Fluid Details

Mud type	Oil Base (GTL)	Oil/Water (%)	57.00/19.00	POM (cc)	
MD (ft)	16,669.00	TS/HGS/LGS (%)	22.10//	CaCl2 (%)	
Mud Density (ppg)	12.60	Sand (%)	0.10	Caom/Clom (ppm)	
Vis (s/qt)	72.00	Oil/Water Ratio (%)	75.00/25.00	ACT	
PV/YP (cp/lbf/100ft²)	22.00/12.000			XS Lime(lbm/bbl)	3.63
Gels 10 s/m (lbf/100ft²)	8.000/12.000	LCM (lbm/bbl)		ES (Volts)	670.0
API/HTHP WL (cc/30min)		ECD (ppg)	14.760	R600/300 (°)	
FC/HTHP FC (32nd")	/2.0	H2S (gas unit)		R200/100 (°)	
WPS (ppm)	271,062	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

## Bulks Summary

Product	Quantity Onboard	Units	Daily Usage
Diesel: Rig	13,251.00		1,907.00
CNG	-1,791.84		94.50

## 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
8	6.750	BAKER HUGHES	DD405T			5293796	3x16, 3x14	15,177.00		-----

## EP WELLS DAILY OPERATIONS REPORT

Report 17

01/22/2019

Well UNIVERSITY 20 PW 2501H  
Wellbore UNIVERSITY 20 PW 2501H

## 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.
DRILL PIPE	441	16,713.16	4.500			DELTA 425			RIG
CROSSOVER	1	3.00	5.000		2.750	DELTA 425			WS26-11366
FILTER SUB	1	3.50	4.750		2.250	3 1/2 IF			DR35937
FLOAT SUB	1	2.57	4.750		2.500	3 1/2 IF			DR8237
ROLLER REAMER	1	4.23	6.500		2.000	DS38			XM2081
SLICK COLLAR	1	29.97	5.050		2.750	3 1/2 IF			DR31169PF A
VELOCITY GAP SUB	1	3.78	5.190		3.500	3 1/2 IF			VG475079P TS
VELOCITY CENTRALIZER COLLAR	1	8.34	5.130		3.500	3 1/2 IF			VC475-090
VELOCITY GROUNDING SUB	1	3.42	5.190		3.500	3 1/2 IF			VL475079
VELOCITY CROSSOVER SUB	1	1.63	5.130		2.440	3 1/2 IF			VX475076
NON-MAG FLEX PONY	1	9.50	5.130		2.500	DS38			P513001
ROLLER REAMER	1	4.12	6.500		2.000	DS38			MX2155
NABORS FBH MUD MOTOR 6/7 LOBE, STAGE 8, SET @ 1.75"	1	33.83	5.750			DS38			NABORS
BIT #8 RUN #1 6.75" BAKER DD405T SN: 5293796 3X14.	1	0.95	6.750	6.750		3 1/2 REG			5293796

## Drillstring Details

Date/Time in	Date/Time out	BHA no.	BHA Length (ft)	Min. ID (in)	Purpose
01/21/2019 03:00		8	108.84		DRILL 6.75" 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		JIAOZUO JINBIAO / JF1600	12.00						
2		JIAOZUO JINBIAO / JF1600	12.00						

## Remarks

Trash Disposal: 0ft3

From Kermit- From Major Intersection Hwy 302 at State Hwy 115

Continue ahead on Hwy 302, 15.8 miles, turn left at A-3 lease rd. and continue ahead 6.5 miles. Road will curve to the left for 1 mile and then back to the right, then continue ahead for 1.4 miles. Turn left and continue ahead 1.6 miles to the three way, take the center lane and continue 0.2 miles to location entrance on right.

Well Performance:

University 20PW 25 Pad Performance

AFE: \$ Under

Days: Days Under

University 20PW 250 1H Performance

AFE: \$150K Under

Days: 1.5 Days Under

## EP WELLS DAILY OPERATIONS REPORT

Report 18

01/23/2019

Company PERMIAN  
 Well Type Development  
 Well UNIVERSITY 20 PW 2501H  
 Wellbore UNIVERSITY 20 PW 2501H  
 WBS No/API No 30293388 / 4249534181.00



## Event Summary

Event Type	Drilling only	Event Start Date	12/20/2018	Days on Location	17.33
Objective	Drill - Wolfcamp Beta 2	Original Spud Date	12/21/2018	Days Since Spud	16.23
Est. Days	25.00	Contractor	PRECISION		
Work Unit	PRECISION 565	Days To Release			
		Rig Phone/FAX No.			

## Well Status

Supervisor	Justin Syms	Measured Depth(ft)	16,822.00
Engineer	Robert Hahn	TVD(ft)	11,902.67
Other Supervisor	Douglas Eubanks	24 Hr Progress(ft)	
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,798.10 / 2,772.10	Hole size(in)	6.750
THF Datum			
Daily NPT(hr/%)	0/0	Last Casing MD	7.625in@11,355.00ft
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	4.500in@
Actual cost to date/AFE	2,095,778/2,899,999.94	Current MW / BH EMW(ppg)	12.60/
Actual divided by AFE	0.72	LOT/FIT EMW(ppg)	
Daily Cost	136,769	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 <b>GOAL ZERO DAYS</b> <b>PS BARRIER EVENT</b> <b>PS barrier bowtie review</b>	08/14/2015	1,258	TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	
Safety Comments:	Assist and Assure meeting held with rig crews with focus on safe work process step communication. A discussion was also held about doing the right thing when no one is looking.						

## HSE Drills

Drills/Tests	Date	Days Since Last		
Last Derrick Inspection			JSA's/Toolbox Talks	
Last BOP function test	01/19/2019	4	Days Since Last Drill	17
Last BOP Test	01/16/2019	7		
Next BOP Test	02/06/2019			

## Operations Summary

24 Hour Summary
Pulling out of hole from 15,960' to 15,267' and pump and back ream as needed. Pull out of hole from 15,267' to 11,470', Spot 60 bbls pill at 16.0 ppg, Pump slug and pull out of the hole and lay down BHA. Pull wear bushing. PJSM and rig up casing crew. Pick up 4.5" production shoe track and flow test same. Picking up and running 4.5" and 5.5" production casing string to 8,517'
Update Since Report Time
04:00: Running 4.5" and 5" production casing string from 8,517' to 15,577'
24 Hour Forecast
Running production casing string and land out putting shoe at 16,807', Circulate two bottoms up, Rig up B.J and cement production casing string as per prog. Test casing set pack off and test it. Prepare to walk the rig.

## EP WELLS DAILY OPERATIONS REPORT

Report 18

01/23/2019

Well UNIVERSITY 20 PW 2501H  
Wellbore UNIVERSITY 20 PW 2501H

## Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	1.00	MNH1	CBU		16,822.00	0		Pumping two bottoms up and working pipe down at 65' per hr with 350 GPM and 120 RPM.
1:00	0.50	MNH1	TOH		16,822.00	0		Pull out of hole from 15,960' to 15,860', Tight hole max pull 400K .
1:30	2.00	MNH1	WTR		16,822.00	0		Back ream out of hole from 15,860' to 15,457'
3:30	0.25	MNH1	TOH		16,822.00	0		Pul on elevators from 15,457 to 15,321', Max pull 400k
3:45	0.50	MNH1	WTR		16,822.00	0		Back ream from 15,321' to 15,267'
4:15	2.25	MNH1	TOH		16,822.00	0		Pulling on elevators from 15,267' to 11,470'
6:30	1.00	MNH1	CBU		16,822.00	0		Circulate Bottoms up, Spot 60 bbls pill at 16.0 ppg, Pump slug
7:30	5.00	MNH1	TOH		16,822.00	0		Pull out of hole from 11,470' to BHA, Pull rotating head
12:30	1.00	MNH1	BHA		16,822.00	0		Lay down BHA
13:30	0.50	MNH1	PUP		16,822.00	0		Pull wear bushing.
14:00	1.00	MNH1	RIC		16,822.00	0		Clean rig floor from wet trip.
15:00	1.00	MNH1	RIC		16,822.00	0		PJSM and 7 step with Casing crew and rig up.
16:00	2.00	MNH1	CLR		16,822.00	0		Pick up 4.5" production casing shoe track and flow test same. Run 4.5" 13.5# TXP production casing to 1,236'
18:00	6.00	MNH1	CLR		16,822.00	0		Run 4.5" 13.5# production casing from 1,236' to 5,383' Run 5.5" 23# production casing from 5,383' to 8,517' Filling string every joint and top off every 4,000'
<b>Total</b>	<b>24.00</b>							

## Deepest 5 Surveys

MD (ft)	Inc. (°)	Azi. (°)	TVD (ft)	N/S (ft)	E/W (ft)	V.Sec (ft)	DLeg (°/100ft)	Tool
16,635.50	86.24	341.27	11,896.54	5,557.84	-708.30	-5,582.75	3.57	PTW MWD+HDGM_2016
16,730.50	88.76	341.70	11,900.68	5,647.83	-738.44	-5,677.06	2.69	PTW MWD+HDGM_2016
16,730.50	88.76	341.70	11,900.69	5,648.43	-738.57	-5,677.68	2.69	PTW MWD+HDGM+AXIAL_2016
16,821.50	88.76	341.70	11,902.65	5,734.21	-767.00	-5,767.51	0.00	PTW MWD+HDGM_2016
16,821.50	88.76	341.70	11,902.66	5,734.81	-767.13	-5,768.13	0.00	PTW MWD+HDGM+AXIAL_2016

## Fluid Details

Mud type	Oil Base (GTL)	Oil/Water (%)	POM (cc)
MD (ft)	16,822.00	TS/HGS/LGS (%)	CaCl2 (%)
Mud Density (ppg)	12.60	Sand (%)	Caom/Clom (ppm)
Vis (s/qt)	74.00	Oil/Water Ratio (%)	ACT
PV/YP (cp/lbf/100ft²)	23.00/12.000	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)	

## EP WELLS DAILY OPERATIONS REPORT

Report 18

01/23/2019

Well UNIVERSITY 20 PW 2501H  
Wellbore UNIVERSITY 20 PW 2501H

## 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: Rig	12,217.00		1,034.00
CNG	-1,862.99		71.15

## 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
8	6.750	BAKER HUGHES	DD405T			5293796	3x16, 3x14	15,177.00	16,822.00	-----

## Bit Operations

MD (ft)	WOB Min/Max (kip)	Current RPM (rpm)	Flow rate (gpm)	SPP (psi)	P bit (psi)	% @ Bit	HPH (hp)	Hours (hr)	Footage (ft)	ROP (ft/hr)	Hours cum (hr)	Footage cum. (ft)	ROP cum. (ft/hr)

## Drillstring Components

Item description	# Jts	Length (ft)	OD (in)	Max OD (in)	ID (in)	Connection Name	Weight (ppf)	Grade	Serial no.
DRILL PIPE	441	16,713.16	4.500			DELTA 425			RIG
CROSSOVER	1	3.00	5.000		2.750	DELTA 425			WS26-11366
FILTER SUB	1	3.50	4.750		2.250	3 1/2 IF			DR35937
FLOAT SUB	1	2.57	4.750		2.500	3 1/2 IF			DR8237
ROLLER REAMER	1	4.23	6.500		2.000	DS38			XM2081
SLICK COLLAR	1	29.97	5.050		2.750	3 1/2 IF			DR31169PF A
VELOCITY GAP SUB	1	3.78	5.190		3.500	3 1/2 IF			VG475079P TS
VELOCITY CENTRALIZER COLLAR	1	8.34	5.130		3.500	3 1/2 IF			VC475-090
VELOCITY GROUNDING SUB	1	3.42	5.190		3.500	3 1/2 IF			VL475079
VELOCITY CROSSOVER SUB	1	1.63	5.130		2.440	3 1/2 IF			VX475076
NON-MAG FLEX PONY	1	9.50	5.130		2.500	DS38			P513001
ROLLER REAMER	1	4.12	6.500		2.000	DS38			MX2155
NABORS FBH MUD MOTOR 6/7 LOBE, STAGE 8, SET @ 1.75°	1	33.83	5.750			DS38			NABORS
BIT #8 RUN #1 6.75" BAKER DD405T SN: 5293796 3X14.	1	0.95	6.750	6.750		3 1/2 REG			5293796

## Drillstring Details

Date/Time in	Date/Time out	BHA no.	BHA Length (ft)	Min. ID (in)	Purpose
01/21/2019 03:00	01/23/2019 13:30	8	108.84		DRILL 6.75" PRODUCTION SECTION

## EP WELLS DAILY OPERATIONS REPORT

Report 18

01/23/2019

Well UNIVERSITY 20 PW 2501H  
Wellbore UNIVERSITY 20 PW 2501H

## 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		JIAOZUO JINBIAO / JF1600	12.00						
2		JIAOZUO JINBIAO / JF1600	12.00						

## Remarks

Trash Disposal: 0ft3

From Kermit- From Major Intersection Hwy 302 at State Hwy 115

Continue ahead on Hwy 302, 15.8 miles, turn left at A-3 lease rd. and continue ahead 6.5 miles. Road will curve to the left for 1 mile and then back to the right, then continue ahead for 1.4 miles. Turn left and continue ahead 1.6 miles to the three way, take the center lane and continue 0.2 miles to location entrance on right.

Well Performance:

University 20PW 25 Pad Performance

AFE: \$ Under

Days: Days Under

University 20PW 250 1H Performance

AFE: \$150K Under

Days: 1.5 Days Under

Informed TRRC today about upcoming production casing run and cementing 1-23-2019

## EP WELLS DAILY OPERATIONS REPORT

Report 19

01/24/2019

Company PERMIAN  
 Well Type Development  
 Well UNIVERSITY 20 PW 2501H  
 Wellbore UNIVERSITY 20 PW 2501H  
 WBS No/API No 30293388 / 4249534181.00



## Event Summary

Event Type	Drilling only	Event Start Date	12/20/2018	Days on Location	18.25
Objective	Drill - Wolfcamp Beta 2	Original Spud Date	12/21/2018	Days Since Spud	17.15
Est. Days	25.00	Contractor	PRECISION		
Work Unit	PRECISION 565	Days To Release			
		Rig Phone/FAX No.			

## Well Status

Supervisor	Justin Syms	Measured Depth(ft)	16,822.00
Engineer	Robert Hahn	TVD(ft)	11,902.67
Other Supervisor	Douglas Eubanks	24 Hr Progress(ft)	
Depth Ref/Grd Elev/Water Depth(ft)	DFE: 2,798.10 / 2,772.10	Hole size(in)	6.750
THF Datum			
Daily NPT(hr/%)	8.50/38.64	Last Casing MD	7.625in@11,355.00ft
Days Ahd(-) Bhnd(+)(50/50)		Next Casing MD	4.500in@16,807.00ft
Actual cost to date/AFE	2,566,506/2,899,999.94	Current MW / BH EMW(ppg)	12.90/
Actual divided by AFE	0.89	LOT/FIT EMW(ppg)	
Daily Cost	470,372	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 <b>GOAL ZERO DAYS</b> <b>PS BARRIER EVENT</b> <b>PS barrier bowtie review</b>	08/14/2015	1,259	TRCF LWCF Safety Cards - Safe Safety Card - Unsafe SSE% Last casing pressure(psi)	

## Safety Comments:

Assist and Assure meeting held with rig crews with focus on well control. Assist and Assure meeting was held with B.J cementers and Cameron hands before cement job and before setting pack offs. Assist and Assure meeting was held before walking the rig. A discussion was also held about making sure everyone understood what there job task was going to be on every job they do.

## HSE Drills

Drills/Tests	Date	Days Since Last		
Last Derrick Inspection	01/19/2019	5	JSA's/Toolbox Talks Days Since Last Drill	18
Last BOP function test	01/16/2019	8		
Last BOP Test	02/06/2019			
Next BOP Test				

## Operations Summary

24 Hour Summary
Run 4.5" and 5.5" production casing string. Land out hanger with casing string putting shoe @ 16,807', Circulate 2 casing capacity, ** NPT 8 1/2 hrs to BJ for waiting on them to arrive and then waiting on a new cement head to arrive, Do cement job as per prog bump plug and cement in place at 18:30 hrs. Rig down BJ cementers, Set pack off and test same with Cameron and set BPV, Raise stack and prepare rig to walk. Rig release from 1H well at 22:00 hrs. Will be walking rig to the University 20 PW 250 2H well.
Update Since Report Time
24 Hour Forecast

## EP WELLS DAILY OPERATIONS REPORT

Report 19

01/24/2019

Well UNIVERSITY 20 PW 2501H  
Wellbore UNIVERSITY 20 PW 2501H

## Time Summary

Start	Hours	PH	OPN	Detail	Drilled Depth (ft)	NPT level	Rig Rate	Description
0:00	5.50	MNH1	CLR		16,822.00	0		Run 4.5" 13.5# production casing from 1,236' to 5,383' Run 5.5" 23# production casing from 5,383' to 16,775' Pick up landing joint and hanger assembly and land out casing string hanger in well head putting production casing shoe at 16,807', Weight on casing hanger 150k Rig up circulating swedge and start to circulate staging pumps up to 4 bpm.
5:30	0.50	MNH1	SVC		16,822.00	0		Rig service. While circulating.
6:00	0.50	MNH1	RCC		16,822.00	0		Rig down casing running crew. While circulating.
6:30	1.00	MNH1	CDM		16,822.00	0		Circulate casing capacity @ 5 bpm.
7:30	4.00	MNH1	RCC		16,822.00	1		NPT: Wait on cement bulk truck. Rig up cementers on ground. Continue to circulate well while rigging up.  Note: Cementers were called out for 4am however cement bulk truck had minor traffic incident en route to location and had to wait on authorities to fill out report. The driver was changed out prior to the cement bulk truck continuing to location. Cement units arrived at 04:00 hrs however due to company policy were not allowed to spot trucks on location without crew lead on location. Crew did not show up until 07:30 hrs.
11:30	1.50	MNH1	RCC		16,822.00	1		NPT: Rig up cementers on rig floor.
13:00	3.00	MNH1	RCC		16,822.00	1		NPT: Fill cement lines and attempt to test - leak on cement head at plug launch indicator rod on side of head. Wait on replacement head to be sent to location. New cement head arrived @ 15:30 hrs. Rig up new cement head on rig floor.
16:00	2.50	MNH1	CEM		16,822.00	0		Pressure test lines . Low: 1,200 psi, High 8,370 psi Pump spacer: 50 bbl of 14 ppg of IntegraGard ULTRA HV Pump lead cement: 185 bbl of 14.5 ppg of Class H cement ( 839 sacks ) Drop plug Pump displacement: 321 bbls of 9.1 ppg brine. Bump plug on schedule at 500 psi over circulating pressure Casing test: Held 5,113 psi for 10 min. Floats held, 4.5 bbls back.  TRRC Notified 01/23/2019 at 12:00 hours.
18:30	0.50	MNH1	LCH		16,822.00	0		Rig down B.J cementing head and lines from rig floor.
19:00	1.00	MNH1	SLP		16,822.00	0		Back out of hanger with running tool and lay down same. Pick up pack off assembly with Cameron and set, make 25 k over pull.
20:00	0.50	MNH1	SLP		16,822.00	0		Test pack off with Cameron to 10k for 10 min, and set BPV
20:30	1.50	MNH1	PRW		16,822.00	0		Raise stack and Prepare rig for walking. Rig release at 22:00.
<b>Total</b>	<b>22.00</b>							

## 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
01/24/2019 07:30	BJ SERVICES LLC	Wait On Equipment/ Materials	16,822.00	RCC	N		8.50	8.50		OPEN
<b>Description:</b> Cementers were called out for 4am however cement bulk truck had minor traffic incident en route to location and had to wait on authorities to fill out report . The driver was changed out prior to the cement bulk truck continuing to location. Cement units arrived at 04:00 hrs however due to company policy were not allowed to spot trucks on location without crew lead on location. Crew did not show up until 07:30 hrs.						<b>Title:</b> Wait on cement truck				
<b>Total</b>							<b>8.50</b>	<b>8.50</b>		

## EP WELLS DAILY OPERATIONS REPORT

Report 19

01/24/2019

Well UNIVERSITY 20 PW 2501H  
Wellbore UNIVERSITY 20 PW 2501H

## Deepest 5 Surveys

MD (ft)	Inc. (°)	Azi. (°)	TVD (ft)	N/S (ft)	E/W (ft)	V.Sec (ft)	DLeg (°/100ft)	Tool
16,635.50	86.24	341.27	11,896.54	5,557.84	-708.30	5,533.40	3.57	PTW MWD+HDGM_2016
16,730.50	88.76	341.70	11,900.68	5,647.83	-738.44	5,628.23	2.69	PTW MWD+HDGM_2016
16,730.50	88.76	341.70	11,900.69	5,648.43	-738.57	5,628.84	2.69	PTW MWD+HDGM+AXIAL_2016
16,821.50	88.76	341.70	11,902.65	5,734.21	-767.00	5,719.15	0.00	PTW MWD+HDGM_2016
16,821.50	88.76	341.70	11,902.66	5,734.81	-767.13	5,719.76	0.00	PTW MWD+HDGM+AXIAL_2016

## Fluid Details

Mud type	Oil Base (GTL)	Oil/Water (%)	56.00/19.00	POM (cc)	3.63 670.0
MD (ft)	16,822.00	TS/HGS/LGS (%)	23.10//	CaCl2 (%)	
Mud Density (ppg)	12.90	Sand (%)	0.10	Caom/Clom (ppm)	
Vis (s/qt)	78.00	Oil/Water Ratio (%)	74.70/25.30	ACT	
PV/YP (cp/lbf/100ft²)	28.00/12.000	LCM (lbm/bbl)		XS Lime(lbm/bbl)	
Gels 10 s/m (lbf/100ft²)	8.000/14.000	ECD (ppg)	12.900	ES (Volts)	
API/HTHP WL (cc/30min)		H2S (gas unit)		R600/300 (°)	
FC/HTHP FC (32nd")	/2.0	KCl (%)		R200/100 (°)	
WPS (ppm)	271,062			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: Rig	11,796.00		421.00
CNG	-1,862.99		

## 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		JIAOZUO JINBIAO / JF1600	12.00						
2		JIAOZUO JINBIAO / JF1600	12.00						

## Remarks

Trash Disposal: 0ft3

From Kermit- From Major Intersection Hwy 302 at State Hwy 115

Continue ahead on Hwy 302, 15.8 miles, turn left at A-3 lease rd. and continue ahead 6.5 miles. Road will curve to the left for 1 mile and then back to the right, then continue ahead for 1.4 miles. Turn left and continue ahead 1.6 miles to the three way, take the center lane and continue 0.2 miles to location entrance on right.

Well Performance:

University 20PW 25 Pad Performance

AFE: \$ Under

Days: Days Under

University 20PW 250 1H Performance

AFE: \$250K Under

Days: 2.5 Days Under