

Daily Drilling Report

UNIVERSITY 7-43 114H

PATTERSON - UTI #802

Accept: 8/22/2017 Release: Days Since LTI: 757.00 Days Since RI: 757.00

PERMIAN ASSET TEAM

Job: ODR
 Report Date: 8/26/2017
 Report #: 4
 DFS:
 AFE #: 043160
 Total AFE + Sup: \$3,455,484.27
 Daily Field Est. (Cost): \$77,754.95

API/UWI 42-003-47568-0000	Well Profile HORIZONTAL	Open Formation LOWER SPRABERRY SHALE (SPBY L C1)	Field Name SPRABERRY (TREND AREA)				
SSN ID00003295	WellIDE	Property Sub	KB-Grd (ft) 29.00	Orig KB Elev (ft) 2,999.00	Ground Elevation (ft) 2,970.00	Spud Date	TD Date

Safety Checks				
Time	Type	Des	Tour	Com
06:15	MEETING	PRE-TOUR	DAY	PTSM with PNR Patterson Rig Crew, RDL Rig Movers & Edge Roustabout crew. Discussed Rig Up operations backyard and rig; Presented IADC ISP on Rig Up statistics. Discussed being 100% tied off while working at height, Crane Lift/ Forklift safety, using tag lines, dedicated flaggers, keeping safe distance from loads while making lifts. Being aware of other tasks being performed around you. Discussed everyone's responsibility of using SWA. Use roustabouts as needed, keep them busy. Discussed warm weather, staying hydrated and proper eating. ◆ Ensure to follow PTEN's CFL & PNR policies, R2LB - Safe work permits ◆ ◆ We strive to exhibit & practice PNR Core Values & R2LB everyday on Patterson 802 ◆
06:15	MEETING	PRE-TOUR	NIGHT	PTSM with PNR Patterson Rig Crew, RDL Rig Movers & Edge Roustabout crew. Discussed Rig Up operations backyard and rig; Presented IADC ISP on Rig Up statistics. Discussed being 100% tied off while working at height, Crane Lift/ Forklift safety, using tag lines, dedicated flaggers, keeping safe distance from loads while making lifts. Being aware of other tasks being performed around you. Discussed everyone's responsibility of using SWA. Use roustabouts as needed, keep them busy. Discussed warm weather, staying hydrated and proper eating. ◆ Ensure to follow PTEN's CFL & PNR policies, R2LB - Safe work permits ◆ ◆ We strive to exhibit & practice PNR Core Values & R2LB everyday on Patterson 802 ◆
18:30	PROACTIVE MEASURES	STOP CARD - NON PNR	NIGHT	While forklift operator was lifting 4" hardline a cable became entangled with the load. RTM observed entanglement, stopped the forklift operator and untangled cable.
20:00	MEETING	JSA	NIGHT	JSA with Patterson RTM & Meyers Roustabouts crew steps/hazards/mitigation of hazards for entering cellar to install foam sealant on Super Cellar dividing plate.
20:00	PROACTIVE MEASURES	CONFINED SPACE PERMIT	NIGHT	Completed Patterson & Meyers confined entry PTW for entering cellar to install foam sealant on Super Cellar dividing plate.

Job Dates (ex. Estimated Pad Release, TXRRC Calls)			
Type	Subtype	Date	Note
MILESTONE	ESTIMATED PAD RELEASE	10/10/2017	Updated 8/25/17
TXRRC CALL	SPUD	8/25/2017	Spoke to Mary
TXRRC CALL	CEMENT SURF	8/25/2017	Spoke to Mary

Daily Operations							
Footage/Meterage (ft)	Drilling Hours (hr)	% Rotating Time (%)	End Depth (ftKB)	Target Depth (ftKB)	Daily Field Est Total (Cost)	Cum Field Est To Date (Cost)	
24 HR ROP (ft/hr)	Circulating Hours (hr)	% Sliding Time (%)	End Depth (TVD) (ftKB)	Target Depth (TVD) (ftKB)	Daily Mud Field Est (Cost)	Cum Mud Field Est (Cost)	Total AFE + Sup (Cost)
					7,461.78	17,487.69	3,455,484.27
Daily Goal Description DRILLED FEET		Daily Goal - Last 24		Daily Goal - Next 24		Goal Comments Drill Surface to 1850'	
Backbuild	Lateral Incln	Vertical Length (ft)	Curve Length (ft)	Lateral Length (ft)	Last Casing String CONDUCTOR, 109.0ftKB	Next Casing String SURFACE, <depthbtm>ftKB	
Avg Connection Gas 1.00	Avg Trip Gas 1.00	Avg Background Gas 1.00	Max Connection Gas 1.00	Max Trip Gas 1.00	Max Drill Gas 1.00		

Operations Summary
 100% RU, Performing CRI
 Operations Next Report Period
 Continue CRI. Set PU BHA, Spud, Drill Surf to 1850'
 Operations at Report Time
 RU PVC, Performing CRI
 Remarks
 No Accidents, Incidents or Spills
 NPT for August Patt; Past 24 hr - 2.75 Total - 5.5 hrs
 3rd Par: Past 24 hr- 0 Total - 35.75
 Gens
 #1 - 10 hrs
 #2 - 0 hrs
 #3 - 0 hrs
 Expected spud date 8/26/2017

Time Log										
Start Time	Dur (hr)	End Time	Phase	Operation	Ops Category	Com	Start Depth (ftKB)	End Depth (ftKB)	Prob Hrs (hr)	Prob Ref #
06:00	0.25	06:15	MOB, MOVE	SFTY	NORMAL	PTSM with PNR Patterson Rig Crew, RDL Rig Movers, Meyers & Edge Roustabout crews. ◆ 6th man on board	109.0	109.0		
06:15	11.75	18:00	MOB, MOVE	RU MIRU	NORMAL	Continue dressing out rig floor. Install walking catwalk, v-door, hang flowline, install ODS stairs, gas buster line. RU work platform on mast. Connect Festoon hydraulic, air, water and fiber optic service lines. Set climb assist, remove fastline and anchor deadline, Connect vibrator hoses. Spool up hoists.	109.0	109.0		
18:00	0.25	18:15	MOB, MOVE	SFTY	NORMAL	PTSM with PNR Patterson Rig Crew, RDL Rig Movers, Myers & Edge Roustabout crew.	109.0	109.0		

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Start Time	Dur (hr)	End Time	Phase	Operation	Ops Category	Com	Start Depth (ftKB)	End Depth (ftKB)	Prob Hrs (hr)	Prob Ref #
18:15	2.25	20:30	MOB, MOVE	RU MIRU	NORMAL	Continue dressing out rig floor and rigging up backyard. Connect water, air, Hydraulic and fiber optic Festoon service lines. Install stairs on Koomey/ Drill line spool. Setup Float pumps in fresh water pond & reserve pit. Swapped from camp power to rig power. ◆ Recieved drfit & tally 13 3/8" Surface casing	109.0	109.0		
20:30	3	23:30	MOB, MOVE	RIG_RPR	NORMAL	Troubleshoot Fiber optics service 24 pin service line. Technician was called out and resolved fiber optics connector problem.	109.0	109.0		
23:30	6.5	06:00	MOB, MOVE	RU MIRU	NORMAL	Power up DW & TD. Spool up drill line, Install wraps on horsehead and fasten anchor bolts to 360 ftlbs. Undock TD & lower to RF. RU overflow line from Slugging pit to Reserve Pit. Held JSA and RU Cellar Pumps system. Connect hydraulics & function test catwalk. RU bails/ elevators. Recalibrate Drawworks. Fil slugging tank with fresh water. Pump through Pop-offs & kelly hose. Close IBOP & test lines to 500 psi low. Perform CRI.	109.0	109.0		

Dens Mud (lb/gal)	ECD End (lb/gal)	Bit Hydraulic Power (hp)	HP/Area (hp/in ²)	Jet Vel (ft/s)	Bit dP (psi)	Min Open Hole AV (ft/min)	Max Open Hole AV (ft/min)	Vol DrillString (bbl)	Vol Bit to Shoe (bbl)	Vol Shoe to Top (bbl)

Time	Mud Company	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (°F)	
01:00	DWM CONSULTING LLC	WATER BASE	0.0	8.30	27	0.0	
PV (cP)	YP (lb/100ft ²)	Vis 3rpm	Vis 6rpm	Filtrate (mL/30min)	HTHP Filtrate (mL/30min)	HTHP Temperature (°F)	HTHP Pressure (psi)
1.0	1.000	1	1				
Solids (%)	Low Gravity Solids (%)	Sand (%)	MBT (lb/bbl)	Pm (mL/mL)	Pf (mL/mL)		
			0.0	0.100			
Chlorides (ppm)	Calcium (ppm)	CaCl (ppm)	Oil Water Ratio	Electric Stab (V)	Lime (lb/bbl)	pH	
			0/100			8.7	
Gel 10 sec (lb/100ft ²)	Gel 10 min (lb/100ft ²)	Gel 30 min (lb/100ft ²)					
1.000	1.000	1.000					

Comment
 Remarks: Rigging up on University well. Drilling Fluid: Mud checks are reserve pit. Sensors on frac tanks checked and all are as installed by Rental Express. Daily Diesel Usage: 0 bbls (0 gal) Cumulative Diesel Used: 0 bbls (0 gal) Daily Water Usage: 0 bbls Cumulative Water Used: 0 bbls OBM Lost Shakers: 0 bbls OBM Lost Centrifuge: 0 bbls OBM Lost Hole: 0 bbls OBM Cumulative Lost: 0 bbls

Responsible Crp 2	Job Type	Start Date	End Date	Job Status
	ODR	8/22/2017 16:00		AFE APPROVED

Date	Test Type	Item Tested	Next Test Date	Com
	BOP			

Test Type	Depth (ftKB)	Dens Fluid (lb/gal)

Test Type	Test Subtype	Date	Item Tested	Failed?	Time (min)	P (psi)

Date	Type	Top Depth (ftKB)
	HEEL	
	TOE	
	KICK OFF	

Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
CONDUCTOR	109.0		20	H40	78.67		

Supply Item Des	Type	Unit Label	Received	Consumed	Cum On Loc	Cum Consumed
DIESEL	FUEL	GAL	3,193		3,193	0.0
DIESEL	FUEL	GAL	7,114		10,307	0.0

Des	Type	Units	Rec	Consumed	On Loc	Cum Cons
BULK TANK BLOWER		1 EA	2	2	0.0	6
BULK TANK RENTAL		1 EA	1	1	0.0	4
ENGINEERING - 24 HOUR		1 EA	2	2	0.0	7
FORKLIFT		1 EA	1	1	0.0	1
PER DIEM		1 EACH	2	2	0.0	6
SCALE CHARGE		1 EA	3	3	0.0	3
SHRINK WRAP		1 EA	23	23	0.0	23
TECH SERVICE SUPPORT		1 EACH	1	1	0.0	3
TESTING EQUIPMENT		1 EA	1	1	0.0	3
TRANSPORTATION		1 EA	5	5	0.0	5

Pump #	Make	Model	Liner Size (in)	Stroke (in)	Vol/Stk (bbl/stk)	P Max (psi)
1	BAOJI PETROLEUM MACH	TRIPLEX 1600 HP	6	12.00	0.105	4,500.0
2	BAOJI PETROLEUM MACH	TRIPLEX 1600 HP	6	12.00	0.105	4,500.0

PIONEER

NATURAL RESOURCES

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Pump Checks						
Pump #	Depth (ftKB)	Time	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)

Deviation Surveys		
Date	Description	Job
	AS DRILL SURVEY	ODR, 8/22/2017 16:00
	FINAL SURVEY	

Daily Contacts				
Job Contact	Title	Office	Mobile	Email
JACKSON, AUSTIN, ENGINEER	ENGINEER	972-969-5954	469-503-1379	AUSTIN.JACKSON@PXD.COM
PERRY, GREG, SUPERINTENDENT	SUPERINTENDENT		325-647-7362	GREG.PERRY@PXD.COM
WIATREK, DUSTIN, FOREMAN	FOREMAN	830-534-6651	210-740-7062	DUSTIN.WIATREK@PXD.COM
RAY, DANIEL, FOREMAN	FOREMAN		281-636-1638	DANIEL.RAY@PXD.COM
RATLEY, SHANNON, FOREMAN	FOREMAN		361-813-2804	SHANNON.RATLEY@PXD.COM
RIG-PATTERSON 802, RIG PHONE	RIG PHONE	432-848-4565		

Personnel Log	
Company	Count
PIONEER NATURAL RESOURCES USA INC	4
PATTERSON-UTI DRILLING COMPANY LLC	13
MILLER & ASSOCIATES DFC INC	2
NOV FLUIDS SERVICES	2
TRICORPS SECURITY	2
MAVERICK FIELD SERVICES	10
GST DRILLING FLUIDS INC	4
MEYER ENERGY SERVICES LLC	4
RDL TRANSPORTATION INC	10
MEYER ENERGY SERVICES LLC	4