

Daily Drilling Report

UNIVERSITY 7-43 113H

PERMIAN ASSET TEAM

PATTERSON - UTI #802
Accept: 8/29/2017 Release:
Days Since LTI: 807.00 Days Since RI: 807.00

Job: ODR
Report Date: 10/17/2017
Report #: 25
DFS: 23
AFE #: 043159
Total AFE + Sup: \$3,484,559.52
Daily Field Est. (Cost): \$66,548.63

API/UWI 42-003-47567-0000	Well Profile HORIZONTAL	Open Formation LOWER SPRABERRY SHALE (SPBY L C1)	Field Name SPRABERRY (TREND AREA)				
SSN ID00003144	WellID 927638-113	Property Sub 927638-113	KB-Grd (ft) 29.00	Orig KB Elev (ft) 2,999.00	Ground Elevation (ft) 2,970.00	Spud Date 8/30/2017	TD Date 10/16/2017

Safety Checks				
Time	Type	Des	Tour	Com
06:00	MEETING	PRE-TOUR	DAY	PTSM with PNR, Patterson Rig Crew, Miller Mud Eng, NOV, Leam, and TriCorps: Discuss Drill 8 1/2" Lateral per DD's. to TD @ ~ 19,700'. Brothers keeper. Stay focused, Discussed mud system requirements. Discussed potential Safety Hazards, reviewed last 12 hour operations. Pinch points, overhead hazards, LOTO, work permits. Watch foot and hand placement, snakes on the move. Ensure everybody knows their responsibilities. Take the time to mentor the NTI's on location & show the Patt & PNR ways. Starting to discuss Cold weather conditions, ? Ensure to follow PTEN's CFL & PNR policies, R2LB - Excavation & Trenching ? We strive to exhibit & practice PNR Core Values & R2LB everyday on Patterson 802
17:30	MEETING	PRE-TOUR	NIGHT	PTSM with PNR, Patterson Rig Crew, Miller Mud Eng, NOV, Leam, and TriCorps: Discuss Drill 8 1/2" Lateral per DD's. to TD @ ~ 19,700' & circ & T.O.O.H. Brothers keeper. Stay focused, Discussed mud system requirements. Discussed potential Safety Hazards, reviewed last 12 hour operations. Pinch points, overhead hazards, LOTO, work permits. Watch foot and hand placement, snakes on the move. Ensure everybody knows their responsibilities. Take the time to mentor the NTI's on location & show the Patt & PNR ways. Starting to discuss Cold weather conditions, ? Ensure to follow PTEN's CFL & PNR policies, R2LB - Excavation & Trenching ? We strive to exhibit & practice PNR Core Values & R2LB everyday on Patterson 802
01:30	PROACTIVE MEASURES	STOP CARD - NON PNR	NIGHT	Waterhose laying across rig floor walkway.RTM stopped what he was doing and rolled hose up in proper place out of walkway.Told him good job

Job Dates (ex. Estimated Pad Release, TXRRRC Calls)			
Type	Subtype	Date	Note
MILESTONE	ESTIMATED PAD RELEASE	10/24/2017	Updated 10/16/17 - 2nd Lateral on 2 well pad.

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)	Total AFE + Sup (Cost)
1,040.00	16.25	61.54	19,705.0	19,772.0	66,548.63	2,719,410.11	3,484,559.52
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)
64.0	7.75	38.46	9,445.5	11,496.95	167,539.23	3,484,559.52	
Daily Goal Description		Daily Goal - Last 24		Daily Goal - Next 24		Goal Comments	
DRILLED FEET		1,019.0		0.0		Met goal	
Backbuild	Lateral Incln	Vertical Length (ft)	Curve Length (ft)	Lateral Length (ft)	Last Casing String	Next Casing String	
Yes					INTERMEDIATE, 7,005.9ftKB	PRODUCTION, 19,689.0ftKB	
Avg Connection Gas		Avg Trip Gas		Avg Background Gas		Max Connection Gas	
215.00		0.00		185.00		359.00	
Max Trip Gas		Max Drill Gas					
0.00		239.00					

Operations Summary
 Drlg 8 1/2 Production lateral T/19,705' TD,Circ K&M cycles +2 =79,200 stks, current=59,400 stks,Working pipe 90'

Operations Next Report Period
 K&M cycles, TOOH & L/D DP

Operations at Report Time
 K&M clean up cycle,K&M 6 B/U{+2}

Remarks
 No Accidents, Incidents, or Spills

NPT for Oct:
 Patt; Past 24 hr - 0 Total - 0
 3rd Par: Past 24 hr- 0 Total - 0

Gens
 #1 -24 hrs
 #2 -12 hrs
 #3 -24 hrs

Last Survey @ 19,705"
 ? Inc-91.77°, Azm-168.36°, 18.5' Above & 6.7' Right to plan #1, Gamma-120, CBHT-197.00°F.

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	8.75	14:45	PROD, DRL LAT	DRL	NORMAL	Drill F/18665' T/19080' (415' @ 47 fph), 94% complete. 51% Rot @ 81 fph 49% Sldg @ 12 fph MW-8.25 w/ 46 vis, full returns. SPR's @ 18,837' LITHOLOGY: 18670 - 60% SH, 30% LS, 10% SD 18700 - 50% SH, 40% LS, 10% SD 18730 - 60% SH, 30% LS, 10% SD 18760 - 50% SH, 40% LS, 10% SD 18840 - 40% SH, 40% LS, 20% SD 18890 - 50% SH, 40% LS, 10% SD ?PXDrill Limiter: Tq ~ 23k ??? 3 generator	18,665.0	19,080.0		

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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 #	
14:45	0.25	15:00	PROD, DRL LAT	DRL	NORMAL	Perform PXDrill RPM Step Test F/19,080' - 19,118' (80 - 60 RPM W/ 5 RPM increments @ 5-7' intervals) Result: Optimal 70 RPM, MSE 32, ROP 2000. No resonance seen. ? PXDrill Limiter: Tq ~ 23k Drill F/19080' T/19118' (38' @ 152 fph), 94% complete. MW-8.2 w/ 44 vis, full returns. LITHOLOGY: 19070'-- 80%SH, 10%LS, 10%SD	19,080.0	19,118.0			
15:00	2	17:00	PROD, DRL LAT	DRL	NORMAL	Drill F/19118' T/19211' (93' @ 47 fph), 95% complete. 38% Rot @ 91 fph 63% Sldg @ 20 fph MW-8.25 w/ 53 vis, full returns. ? SPR @ 19,211' LITHOLOGY: 19070 -- 80% SH, 10% LS, 10% SD	19,118.0	19,211.0			
17:00	0.5	17:30	PROD, DRL LAT	RIG_SVC	NORMAL	Lubricate rig, TD, DW.	19,211.0	19,211.0			
17:30	5.25	22:45	PROD, DRL LAT	DRL	NORMAL	Drill F/19211' T/19705' (494' @ 94 fph), 100% complete. 86% Rot @ 105 fph 14% Sldg @ 28 fph MW-8.25 w/ 53 vis, full returns. LITHOLOGY: 19130 -- 80% SH, 10% LS, 10% SD 19190 -- 80% SH, 20% SD 19220 -- 80% SH, 20% SD 19370 -- 100% SH 19490 -- 90% SH, 10% SD 19550 -- 100% SH 19610 -- 90% SH, 10% SD 19670 -- 100% SH 19705 -- 90% SH, 10% SD	19,211.0	19,705.0			
22:45	7.25	06:00	PROD, POST DRL	CIRC	NORMAL	Perform K&M clean up cycle W/8 B/U (K&M +2) (9,900 stks. per B/U x 8 = 79,200 strokes) W/570 gpm, 3,720 spp, 80 rpm, reciprocating full stand @ 500/hr., full returns. MW 8.2+ Vis 49 Torque @ start: 15 - 17k, End: 12,500 - 13,500k @ 6th B/U Pump pressure @ start: 3,825, End: 3,720 @ 6th B/U ? 1st BU - Shakers loaded up ? 2nd BU - Shakers loaded up ? 3rd BU - Saw slight increase at shakers ? 4th BU - Fine to small size cuttings at shakers ? Continue to see reducing waves of small grain size cuttings 5th - 6th B/U ? 7th & 8th BU - " will be on next report " ?? While circulating: ? Staged Dp thread protectors to rig floor ? Prep to TOOH (mud bucket, slips, St-80, etc...) ? Completed TOOH checklists. ? Built Slug & filled trip tanks.	19,705.0	19,705.0			

Drill Strings

BHA #7 , PRODUCTION - LATERAL

Bit Run 7	Drill Bit 8 1/2in, CF616, 37681	Bit Type PDC	Make ULTERRA
Nozzles (1/32") 15/15/15/15/15/15	Bit Total Fluid Area (nozzles) (in²) 1.04	IADC Bit Dull -----	Hours Drilled By Bit (hr) 52.50
BHA Drilling Time (hr) 52.50	BHA Depth Drilled (ft) 3,678.00	BHA ROP (ft/hr) 70.1	Depth Drilled By Bit (ft) 3,678.00
			Depth In (ftKB) 16,027.0
			Depth Out (ftKB) 19,705.0

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)	Wt (lbf)	Cum Wt (1000lbf)	Make
261	DRILL PIPE	5	4.27	8,358.26	19,706.00	188,562.3	471	
21	HWDP	5	3.00	628.03	11,347.74	30,974.4	282	
256	DRILL PIPE	5	4.27	8,211.01	10,719.71	185,240.4	251	
1	AGITATOR	6 1/2	2.50	23.78	2,508.70	2,285.0	66	NOV
76	DRILL PIPE	5	4.27	2,375.10	2,484.92	53,582.3	64	
1	DRILL COLLAR - NON MAG	6 3/8	2.75	30.34	109.82	2,651.1	10	LEAM
1	DRILL COLLAR - NON MAG	6 1/2	2.87	29.74	79.48	2,598.7	7	LEAM
1	MULE SHOE	6 7/8	2.87	3.87	49.74	417.1	5	LEAM
1	DRILL COLLAR - PONY	6.6667	2.87	9.33	45.87	919.3	4	LEAM
1	STABILIZER - NEAR BIT	6.6667	2.87	4.27	36.54	431.3	3	LEAM
1	MUD MOTOR - BENT SUB	6 3/4	3.00	31.27	32.27	3,052.0	3	LEAM

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SN	Bend Angle	Upper Defln Type	Lobe Config	# Stages	RPG	Bit To Bend
650-S-41-PNR	1.83		7:8	5.7	.24	5.5

Sensor Type	Sensor-Bit (ft)	Note
GAMMA	56.00	
DIRECTIONAL	66.00	

Start Time	End Time	Start Depth (ftKB)	Int Depth (ft)	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	ROP Inst (min/ft)	Drill Str Wt (1000lbf)	PU Str Wt (1000lbf)	SO Str Wt (1000lbf)	Off-Btm Str Wt (1000lbf)	Drill Tq	Off Btm Tq	TFO (°)
06:00	07:00	18,665.0	7.00	7.0	40	0	150.0	530	0.0	20.0	232	320	175	232	0.0	0.0	60
07:00	08:15	18,672.0	82.00	65.6	26	75	450.0	530	0.0	130.0	232	320	175	232	23,000.0	15,000.0	0
08:15	09:30	18,754.0	20.00	16.0	40	0	150.0	530	0.0	20.0	232	320	175	232	0.0	0.0	60
09:30	10:45	18,774.0	73.00	58.4	26	75	450.0	530	0.0	130.0	232	320	175	232	23,000.0	15,000.0	0
10:45	12:45	18,847.0	22.00	11.0	40	0	150.0	530	0.0	20.0	232	320	175	232	0.0	0.0	20
12:45	15:15	18,869.0	259.00	103.6	26	75	450.0	530	0.0	130.0	232	320	175	232	23,000.0	15,000.0	0
15:15	16:30	19,128.0	25.00	20.0	40	0	150.0	530	0.0	20.0	232	320	175	232	0.0	0.0	160
16:30	17:00	19,153.0	58.00	116.0	26	75	450.0	530	0.0	130.0	232	320	175	232	23,000.0	15,000.0	0
17:00	17:30	19,211.0	0.00		0	0	0.0	530	0.0		232	320	175	232	0.0	0.0	0
17:30	17:45	19,211.0	10.00	40.0	26	75	450.0	530	0.0	130.0	232	320	175	232	23,000.0	15,000.0	0
17:45	18:30	19,221.0	20.00	26.7	40	0	150.0	530	0.0	20.0	232	320	175	232	0.0	0.0	180
18:30	22:45	19,241.0	464.00	109.2	26	75	450.0	530	0.0	130.0	232	320	175	232	23,000.0	15,000.0	0
22:45	06:00	19,705.0	0.00	0.0	0	80	0.0	570	3,720.0		232	320	175	232	0.0	11,000.0	0

Dens Mud (lb/gal)	ECD End (lb/gal)	Bit Hydraulic Power (hp)	HP/Area (hp/in²)	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)
8.20	8.44	77.1	1.4	176.7	231.9	16.0	559.2	342.03	618.96	361.32

Time	Mud Company	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (°F)	
06:00	DWM CONSULTING LLC	OIL BASE	19,705.0	8.20	47	122.0	
PV (cP)	YP (lbf/100ft²)	Vis 3rpm	Vis 6rpm	Filtrate (mL/30min)	HTHP Filtrate (mL/30min)	HTHP Temperature (°F)	HTHP Pressure (psi)
9.0	9.000	7	9		12.0		
Solids (%)	Low Gravity Solids (%)	Sand (%)	MBT (lb/bbl)	Pm (mL/mL)	PF (mL/mL)		
	4.7						
Chlorides (ppm)	Calcium (ppm)	CaCl (ppm)	Oil Water Ratio	Electric Stab (V)	Lime (lb/bbl)	pH	
		18	89.4/10.6	1,371.0	3.9		
Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Gel 30 min (lbf/100ft²)					
9.000	12.000	14.000					

Comment
 Remarks: Drilled ahead to 19705' MD TD. Circulating clean up cycles at report time.

Drilling Fluid: Bringing YP back into the middle of the spec range with CRYL and Mul Vis.

Abnormal diesel amounts while trying to keep mud weight down. Have run centrifuge anytime the pumps are running but needed extra diesel to maintain weight.

Sensors on frac tanks checked and all are as installed by Rental Express.

Daily Diesel Usage: 245 bbls (10274 gal)
 Cumulative Diesel Used: 1472 bbls (63833 gal)
 Daily Water Usage: 48 bbls
 Cumulative Water Used: 214 bbls
 OBM Lost Shakers: 39 bbls
 OBM Lost Centrifuge: 40 bbls
 OBM Lost Hole=0 bbls
 OBM Total lost=760 bbls

Responsible Grp 2	Job Type	Start Date	End Date	Job Status
DRL ENG - AUSTIN JACKSON	ODR	8/29/2017 20:45		IN PROGRESS

Date	Test Type	Item Tested	Next Test Date	Com
10/6/2017	BOP	BOP'S, 9/3/2017 02:00, <class>	10/27/2017	Full BOP test

Test Type	Depth (ftKB)	Dens Fluid (lb/gal)
FORMATION INTEGRITY	1,880.0	12.62
FORMATION INTEGRITY	7,006.0	10.00

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Casing Pressure Test

Test Type	Test Subtype	Date	Item Tested	Failed?	Time (min)	P (psi)
CASING	STANDARD	9/3/2017	SURFACE, 1,852.3ftKB	No	30.00	1,000.0
CASING	STANDARD	10/6/2017	INTERMEDIATE, 7,005.9ftKB	No	30.00	2,500.0

Kick Offs & Key Depths

Date	Type	Top Depth (ftKB)
10/8/2017 22:15	KICK OFF	8,986.0
10/9/2017 18:15	HEEL	9,900.0
10/16/2017 22:45	TOE	19,705.0

Casing Strings

Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
CONDUCTOR	109.0	109.0	20	H40	78.67		
SURFACE	1,852.3	1,852.3	13 3/8	J55	54.50	BTC	1,232.6
INTERMEDIATE	7,005.9	6,962.5	9 5/8	L80-IC	40.00	BTC	3,617.2

Job Supply Amounts

Supply Item Des	Type	Unit Label	Received	Consumed	Cum On Loc	Cum Consumed
DIESEL	FUEL	GAL		2,696	7,337	33,361.0
DIESEL	MUD	GAL		7,299	2,500	67,636.0

Mud Additive Amounts

Des	Type	Units	Rec	Consumed	On Loc	Cum Cons
BENTONE 990		50 LB SACK		5	75.0	102
BULK TANK BLOWER		1 EA	2	2	0.0	44
CALCIUM CHLORIDE PWDR		50 LB SACK		44	-32.0	256
ENGINEERING - 24 HOUR		1 EA	2	2	0.0	48
FORKLIFT		1 EA	1	1	0.0	4
LIME		50 LB SACK		17	-267.0	1,084
PER DIEM		1 EACH	2	2	0.0	45
SHRINK WRAP		1 EA	2	2	0.0	37
STELLAR MUL MOD		5 GAL		3	3.0	11
STELLAR MUL VIS		50 LB SACK		4	-133.0	133
STELLAR TROL		50 LB SACK		52	-195.0	195
STELLAR VIS CRYL		55 GAL DRU		2	-1.0	13
TECH SERVICE SUPPORT		1 EACH	1	1	0.0	12
TESTING EQUIPMENT		1 EA	1	1	0.0	22
TRANSPORTATION		1 EA	1	1	0.0	5

Pump Operations

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

Pump Checks

Pump #	Depth (ftKB)	Time	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)
1	18,837.0	14:00	425.0	20	84	95
1	18,837.0	14:01	518.0	30	126	95
1	18,837.0	14:02	635.0	40	167	95
1	19,211.0	19:01	635.0	20	84	95
1	19,211.0	19:02	635.0	30	126	95
1	19,211.0	19:03	635.0	40	167	95
2	18,837.0	14:04	369.0	20	84	95
2	18,837.0	14:05	466.0	30	126	95
2	18,837.0	14:06	557.0	40	167	95
2	19,211.0	19:04	360.0	20	84	95
2	19,211.0	19:05	455.0	30	126	95
2	19,211.0	19:06	575.0	40	167	95

Deviation Surveys

Date: 8/30/2017	Description: AS DRILL SURVEY	Job: ODR, 8/29/2017 20:45
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Survey Data - All surveys for 24 hr reporting period

MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
18,678.00	93.05	164.98	9,512.52	9,051.23	-8,913.29	1,574.50	0.27
18,771.00	92.54	166.08	9,507.99	9,143.86	-9,003.23	1,597.71	1.30
18,865.00	94.63	167.28	9,502.11	9,237.53	-9,094.51	1,619.32	2.56
18,959.00	97.01	168.15	9,492.58	9,330.98	-9,185.88	1,639.22	2.69
19,052.00	97.75	168.25	9,480.63	9,423.17	-9,276.16	1,658.08	0.80
19,145.00	95.93	168.75	9,469.56	9,515.48	-9,366.64	1,676.49	2.03
19,239.00	92.39	168.68	9,462.74	9,609.21	-9,458.57	1,694.83	3.77
19,333.00	92.25	168.56	9,458.94	9,703.11	-9,550.64	1,713.37	0.20
19,426.00	92.59	169.06	9,455.01	9,796.01	-9,641.79	1,731.40	0.65
19,520.00	91.89	168.65	9,451.33	9,889.93	-9,733.95	1,749.55	0.86
19,614.00	91.82	168.55	9,448.29	9,983.86	-9,826.04	1,768.12	0.13
19,639.00	91.77	168.36	9,447.51	10,008.84	-9,850.53	1,773.12	0.79

Formations

Formation Name	Prog Top (TVD SS) Override (ft(elv))	Prog Top MD (ftKB)	Prog Top (TVD) (ftKB)	Final Top MD (ftKB)	Final Top (TVD) (ftKB)
TARGET 1 =	-6,558.0		9,557.0		
T2	-6,554.0		9,553.0		
PBHL/TD =	-6,464.0		9,463.0		

PIONEER

NATURAL RESOURCES

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Daily Contacts

Job Contact	Title	Office	Mobile	Email
GOODWIN, JODY, SUPERINTENDENT	SUPERINTENDENT	325-884-9044	972-261-4094	JODY.GOODWIN@PXD.COM
JACKSON, AUSTIN, ENGINEER	ENGINEER	972-969-5954	469-503-1379	AUSTIN.JACKSON@PXD.COM
DAFFRON, MIKE, FOREMAN	FOREMAN	432-360-4057	318-243-5902	MIKE.DAFFRON@PXD.COM
WIATREK, DUSTIN, FOREMAN	FOREMAN	830-534-6651	210-740-7062	DUSTIN.WIATREK@PXD.COM
FOWLER, TREY, FOREMAN	FOREMAN		409-489-2876	TREY.FOWLER@PXD.COM
RIG-PATTERSON 802, RIG PHONE	RIG PHONE	432-848-4565		

Personnel Log

Company	Count
PIONEER NATURAL RESOURCES USA INC	2
PATTERSON-UTI DRILLING COMPANY LLC	13
LEAM DRILLING SYSTEMS INC	4
NOV FLUIDS SERVICES	2
MILLER & ASSOCIATES DFC INC	2
TRICORPS SECURITY	2