

Daily Drilling Report

UNIVERSITY W2-34D 4H				PERMIAN - JV SOUTHERN WOLFCAMP	
PATTERSON - UTI - 804				Job:	ODR
Accept: 4/27/2021				Report Date:	4/30/2021
Days Since LTI: 216.00				Report #:	5
Release:				DFS:	4
Days Since RI: 216.00				AFE #:	9011466
				Total AFE + Sup:	\$2,596,759.42
				Daily Field Est. (Cost):	\$91,628.72

API/UWI 42-383-40906-0000		Well Profile HORIZONTAL		Open Formation WOLFCAMP B3 (WFMP B3)		Field Name SPRABERRY (TREND AREA)				
SSN ID00020510	Property Sub	KB-Grd (ft) 28.00	Orig KB Elev (ft) 2,670.00	Ground Elevation (ft) 2,642.00	Spud Date 11/19/2020	TD Date				
Jobs										
Responsible Grp 2 DRL ENG - KEITH SPACEK		Responsible Grp 3 AREA TEAM 4		Job Type ODR	Start Date 11/19/2020 20:00	End Date		Job Status IN PROGRESS		
Job Dates (ex. Estimated Pad Release, TXRRC Calls)										
Type MILESTONE		Subtype ESTIMATED PAD RELEASE		Date 5/12/2021		Note Drilling 7th Int on a 7 well pad (4-28-21)				
Daily Operations										
Footage/Meterage (ft) 2,905.00		Drilling Hours (hr) 22.75		% Rotating Time (%) 87.91		End Depth (ftKB) 8,084.0		Target Depth (ftKB) 18,794.0		
24 HR ROP (ft/hr) 127.7		Circulating Hours (hr) 1.25		% Sliding Time (%) 12.09		End Depth (TVD) (ftKB) 8,026.5		Target Depth (TVD) (ftKB) 8,859.9		
						Daily Mud Field Est (Cost) 7,945.99		Cum Mud Field Est (Cost) 19,775.92		
								Total AFE + Sup (Cost) 2,596,759.42		
Daily Goal Description DRILLED FEET		Daily Goal - Last 24 2,987.0				Daily Goal - Next 24 93.0		Goal Comments Not Met		
Backbuild Yes		Lateral Inclination		Last Casing String SURFACE, 1,084.2ftKB				Next Casing String INTERMEDIATE, 8,160.0ftKB		
Avg Connection Gas 281.00		Avg Trip Gas 0.00		Avg Background Gas 198.00		Max Connection Gas 563.00		Max Trip Gas 0.00		
								Max Drill Gas 580.00		
Operations Summary Drill Int F/5,179' - T/8,084' (12% sliding, 9.84° tangent, 9' above, 5.9' right)										
Operations Next Report Period Drill Int 1 T/Csg Pt +/- 8,175', CUC, TOO, L/D 8" DC & Dir Tools, R/U & Run Int Csg, Circ, R/U & Perform Cmt Job										
Operations at Report Time Drilling Int @ 8,084'										
Remarks TD Inter: TD Production:  April. NPT: Cum: 28 hrs; Dly: 0 hrs Surf: 100% Int. 1: 98% Prod Vert: 0% Prod. Curve: 0% Prod. Lateral: 0% No Incidents or Spills Reported										
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	9	15:00	INT, DRL	DRL	NORMAL	Drill F/5,179' - T/6,489' (1,310 @ 145.5 fph) with full returns. WOB 48-50, GPM 920 - 960, SPP 3000-3200, DIFF 550-600, TORQ 18-22k.  Note: Sliding to drop tangent	5,179.0	6,489.0		
15:00	0.25	15:15	INT, DRL	SFTY	NORMAL	BOP pit drill	6,489.0	6,489.0		
15:15	5	20:15	INT, DRL	DRL	NORMAL	Drill F/6,489' - T/7,145' (656 @ 131 fph) with full returns. WOB 48-50, GPM 920 - 960, SPP 3800-3000, DIFF 550-600, TORQ 18-24k.	6,489.0	7,145.0		
20:15	0.5	20:45	INT, DRL	RIG_SVC	NORMAL	Rig Service - Circulate prior to entering lower Sprayberry in tandem	7,145.0	7,145.0		
20:45	0.25	21:00	INT, DRL	CIRC	NORMAL	Finish circulating BU prior to entering Lower Sprayberry	7,145.0	7,145.0		
21:00	6	03:00	INT, DRL	DRL	NORMAL	Drill F/7,145' - T/7,801' (656 @ 109.3 fph) with full returns. WOB 48-53, GPM 960, SPP 3900-4100 DIFF 550-600, TORQ 18-25k.	7,145.0	7,801.0		
03:00	0.25	03:15	INT, DRL	CIRC	NORMAL	Retrieve SCR and P/U & S/O weights	7,801.0	7,801.0		
03:15	2.75	06:00	INT, DRL	DRL	NORMAL	Drill F/7,801' - T/8,084' (283' @ 103 fph) with full returns. WOB 48-55, GPM 960, SPP 3900-4100 DIFF 550-600, TORQ 18-25k.	7,801.0	8,084.0		
Interval Problems										
RIG, 7,444.0ftKB, 4/29/2021 23:30										
Ref #	Dur (N...)	Ex...	Subtype	Problem Descript...	Est Cost OR (Cost)	Accountable Party	Comment			
2	0.75	Yes	CIRCULATING SYSTEM	MUD PUMPS		PATTERSON-UTI DRILLING COMPANY LLC	Drilling with diminished capacity (2 mud pumps). Change swab and liner on #2 MP.			
RIG, 7,737.0ftKB, 4/30/2021 02:15										
Ref #	Dur (N...)	Ex...	Subtype	Problem Descript...	Est Cost OR (Cost)	Accountable Party	Comment			
3	0.75	Yes	CIRCULATING SYSTEM	MUD PUMPS		PATTERSON-UTI DRILLING COMPANY LLC	Drilling with diminished capacity (2 mud pumps). Change swab and liner on #2 MP.			
Drill Strings										
BHA #2 , INTERMEDIATE										
Bit Run 2		Drill Bit 12 1/4in, D507TWX, 5319083				Bit Type PDC		Make GE/BAKER HUGHES		
Nozzles (1/32") 10/10/10/10/11/11/11/11		Bit Total Fluid Area (nozzles) (in²) 0.77		IADC Bit Dull -----		Hours Drilled By Bit (hr) 49.50		Depth Drilled By Bit (ft) 6,980.00		
BHA Drilling Time (hr) 49.50		BHA Depth Drilled (ft) 6,980.00		BHA ROP (ft/hr) 141.0		Depth In (ftKB) 1,104.0		Depth Out (ftKB) 8,084.0		
Drill String Components										
Jts	Item Des			OD (in)	ID (in)	Len (ft)	Cum Len (ft)	Wt (lbf)	Cum Wt (1000lbf)	Make
220	DRILL PIPE			5	4.27	6,934.81	8,084.00	135,228.8	172	RIG
4	HWDP			5	3.00	121.19	1,149.19	7,029.0	37	RIG
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Drill String Components																					
Jts	Item Des				OD (in)	ID (in)	Len (ft)	Cum Len (ft)	Wt (lbf)	Cum Wt (1000lbf)	Make										
1	DRILLING JARS - HYDRAULIC				7	2.75	31.41	1,028.00		30	WEATHERFORD										
17	HWDP				5	3.00	512.39	996.59	29,718.6	30	RIG										
1	SUB - XO				6 15/16	2.88	3.85	484.20		0	INTREPID										
12	DRILL COLLAR				8	2.88	359.61	480.35		0	RIG										
1	DRILL COLLAR - NON MAG				8	3.25	29.30	120.74		0	INTREPID										
1	DRILL COLLAR - NON MAG				8	3.25	29.98	91.44		0	INTREPID										
1	SUB - UBHO				8	2.75	3.30	61.46		0	INTREPID										
1	DRILL COLLAR - PONY, NON MAG				8 1/8	3.25	11.06	58.16		0	INTREPID										
1	STABILIZER				8	2.88	7.42	47.10		0	INTREPID										
1	MOTOR - STABILIZER SLEEVE				9 5/8	2.50	38.18	39.68		0	INTREPID										
Mud Motors																					
SN		Bend Angle		Bearing Type		Lobe Config		# Stages		Lwr Defln Type		Bit To Bend									
GDM962030 / GD962-017		1.5		NOT SEALED		7:8		6.5				6.25									
Sensors																					
Sensor Type				Sensor-Bit (ft)				Note													
GAMMA				70.00																	
DIRECTIONAL				83.00																	
Drilling Parameters																					
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 Average (ft/hr)	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	06:45	5,179.0	209.00	278.7	47	55	800.0	966	4,500.0	278.7	185	220	165	185	22,000.0	7,200.0	0				
06:45	08:00	5,388.0	40.00	32.0	25	0	200.0	966	3,820.0	32.0	210	240	185	210	0.0	0.0	180				
08:00	09:00	5,428.0	167.00	167.0	47	65	780.0	966	4,465.0	167.0	210	240	185	210	23,500.0	7,500.0	0				
09:00	10:30	5,595.0	40.00	26.7	25	0	200.0	966	3,830.0	26.7	210	240	185	210	0.0	0.0	200				
10:30	14:30	5,635.0	799.00	199.8	48	65	800.0	966	4,780.0	199.8	210	240	185	210	22,600.0	7,500.0	0				
14:30	15:00	6,434.0	55.00	110.0	46	65	750.0	966	4,750.0	110.0	215	260	200	215	22,500.0	7,500.0	0				
15:00	15:15	6,489.0	0.00		0	0	0.0	700	2,330.0	0.0	215	260	200	215	0.0	0.0	0				
15:15	20:15	6,489.0	656.00	131.2	46	65	730.0	966	4,750.0	131.2	215	260	200	215	22,300.0	7,000.0	0				
20:15	21:00	7,145.0	0.00		0	0	0.0	700	2,330.0	0.0	215	260	200	215	0.0	0.0	0				
21:00	03:00	7,145.0	656.00	109.3	48	45	500.0	960	4,800.0	109.0	230	260	210	230	2,200.0	7,000.0	0				
03:00	03:15	7,801.0	0.00		0	0	0.0	700	2,330.0	0.0	230	260	200	230	0.0	0.0	0				
03:15	06:00	7,801.0	283.00	102.9	48	45	650.0	960	4,800.0	103.0	238	272	208	238	2,200.0	7,000.0	0				
Hydraulic Calculations																					
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)	
9.10		9.67		737.0		6.3		399.6		1,316.1		26.9		409.8		132.56		833.18		138.33	
Mud Checks																					
Time 23:00		Mud Company PIONEER DRILLING FLUIDS				Type WATER BASE			Depth (ftKB) 7,200.0		Density (lb/gal) 9.10		Funnel Viscosity (s/qt) 48		T Flowline (°F) 110.0						
PV (cP) 11.0		YP (lb/100ft²) 14.000		Vis 3rpm 8		Vis 6rpm 9		Filtrate (mL/30min) 25.0		HTHP Filtrate (mL/30min) 0.0		HTHP Temperature (°F) 0.0		HTHP Pressure (psi) 0.0							
Solids (%) 4.0				Low Gravity Solids (%) 2.0			Sand (%) 0.2			MBT (lb/bbl) 17.5		Pm (mL/mL) 0.300		Pf (mL/mL)							
Chlorides (ppm) 28,000,000.000				Calcium (ppm) 41,000,000.000			CaCl (ppm)		Oil Water Ratio 0/100		Electric Stab (V)			Lime (lb/bbl) 0.0		pH 9.0					
Gel 10 sec (lb/100ft²) 9.000						Gel 10 min (lb/100ft²) 12.000						Gel 30 min (lb/100ft²) 14.000									
Comment																					
RECOMMENDED FLUID TREATMENT																					
Maintaining MW under 9.4 ppg, dumping/diluting as needed. Building Lignite mud in Premix and storing in frac tanks. Chemical usage: Lignite 3.19 ppb, Soda Ash 1.54 ppb, Zinc .42 ppb, Pac-LV 2.34 ppb.																					
DRILLING FLUID ACTIVITY LAST 24 HRS																					
Transferring Lignite mud from frac farm as needed to reduce MW and maintain below 9.4 ppg. Checking shaker screens for holes on connections to reduce amount of LGS. Average MOC @ 96%.																					
Last BOP Test																					
Date		Test Type				Item Tested				Next Test Date		Com									
4/27/2021		BOP				BOP'S, 4/27/2021 13:30, <class>				5/18/2021		Full BOP test									
Leak Off and Formation Integrity Tests																					
Test Type						Depth (ftKB)						Dens Fluid (lb/gal)									
FORMATION INTEGRITY						1,104.0						12.43									
Casing Pressure Test																					
Test Type				Test Subtype				Date		Item Tested				Failed?	Time (min)		P (psi)				
CASING				STANDARD				11/27/2020		SURFACE, 1,084.2ftKB				No	30.00		1,000.0				
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Kick Offs & Key Depths								
Date			Type		Top Depth (ftKB)		Depth Top (TVD) (ftKB)	
Casing Strings								
Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)	
CONDUCTOR	128.0		20	H40	78.67			
SURFACE	1,084.2	1,083.9	13 3/8	K55	54.50	BTC	712.8	
Gas Emissions - Flare								
Type	Method	Dur (min)	Amount	Units	Com			
Job Supply Amounts								
Supply Item Des	Type	Unit Label	Received	Consumed	Returned	Note	Cum On Loc	Cum Consumed
DIESEL	FUEL	GAL	7,287	4,244		Rig Fuel	11,523	9,853.0
DIESEL	MUD	GAL	0	0		Mud Diesel	16,087	0.0
DIESEL	FUEL	GAL	0	0		Emergency tank	112	0.0
WATER	FRESH	BBL	0	0		Beginning: 248,295 End 248,295	0	4,980.0
Mud Additive Amounts								
Des	Type	Units	Rec	Consumed	On Loc	Cum Cons		
BENTONITE - BULK	VISCOSIFIER	TON	20	12	15.09	52		
LIGNITE	DISPERSANTS/T HINNER	LB	100	60	112.0	133		
LIME	ALKALINITY CONTROL	LB		9	71.0	9		
PAC LV	FLUID LOSS ADDITIVES	LB		14	52.0	28		
PAC LV	FLUID LOSS ADDITIVES	LB	80	44	88.0	72		
PALLET	MISCELLANEOUS	EA	14	14	0.0	14		
SHRINK WRAP	MISCELLANEOUS	EA	12	12	0.0	12		
SODA ASH	ALKALINITY CONTROL	LB	100	29	122.0	80		
ZINC OXIDE	SPECIALITY	LB	39	8	51.0	17		
Pump Operations								
Pump #	Make	Model	Liner Size (in)	Stroke (in)	Vol/Stk (bbl/stk)	P Max (psi)		
1	BOMCO	F1600	5 1/2	12.00	0.088	5,556.0		
2	BOMCO	F1600	5 1/2	12.00	0.088	5,556.0		
3	BOMCO	F1600	5 1/2	12.00	0.088	5,556.0		
Pump Checks								
Pump #	Depth (ftKB)	Time	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)		
1	7,801.0	03:42	336.0	30	106	95		
1	7,801.0	03:42	363.0	40	141	95		
1	7,801.0	03:42	400.0	50	176	95		
2	7,801.0	03:42	364.0	40	141	95		
2	7,801.0	03:42	332.0	30	106	95		
2	7,801.0	03:42	402.0	50	176	95		
Deviation Surveys								
Date	Description					Job		
	FINAL SURVEY							
Date	Description					Job		
11/19/2020	AS DRILL SURVEY					ODR, 11/19/2020 20:00		
Survey Data - All surveys for 24 hr reporting period								
MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	
5,190.00	6.66	350.26	5,134.52	668.49	659.39	-109.94	0.29	
5,284.00	6.47	353.41	5,227.90	679.24	670.03	-111.47	0.43	
5,377.00	5.79	354.06	5,320.37	689.15	679.90	-112.55	0.73	
5,472.00	3.41	358.13	5,415.06	696.74	687.49	-113.14	2.53	
5,565.00	3.42	354.99	5,507.89	702.24	693.02	-113.47	0.20	
5,659.00	1.28	310.32	5,601.81	705.84	696.49	-114.52	2.84	
5,753.00	1.18	309.75	5,695.79	707.37	697.79	-116.07	0.11	
5,846.00	1.21	319.09	5,788.77	708.94	699.14	-117.44	0.21	
5,940.00	1.77	322.85	5,882.74	711.07	701.05	-118.97	0.60	
6,033.00	1.86	321.94	5,975.69	713.66	703.38	-120.77	0.10	
6,127.00	1.46	336.12	6,069.65	716.16	705.68	-122.19	0.61	
6,221.00	1.33	327.01	6,163.63	718.32	707.69	-123.27	0.27	
6,314.00	1.14	345.54	6,256.60	720.23	709.49	-124.09	0.47	
6,408.00	1.06	333.25	6,350.59	721.99	711.17	-124.72	0.26	
6,501.00	0.72	1.70	6,443.58	723.39	712.52	-125.09	0.59	
6,595.00	0.82	344.11	6,537.57	724.64	713.76	-125.25	0.27	
6,688.00	0.70	12.69	6,630.56	725.82	714.96	-125.31	0.42	
6,782.00	0.64	10.65	6,724.55	726.85	716.03	-125.09	0.07	
6,876.00	0.49	47.41	6,818.55	727.56	716.82	-124.69	0.41	
6,970.00	0.50	29.59	6,912.55	728.10	717.45	-124.20	0.16	
7,064.00	0.19	26.72	7,006.54	728.55	717.94	-123.92	0.33	
7,158.00	0.43	43.01	7,100.54	728.89	718.34	-123.61	0.27	
7,251.00	0.44	61.59	7,193.54	729.22	718.77	-123.06	0.15	
7,345.00	0.23	55.32	7,287.54	729.41	719.05	-122.59	0.23	
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# Daily Drilling Report

**PATTERSON - UTI - 804**

<b>PERMIAN - JV SOUTHERN WOLFCAMP</b>	
<b>Job:</b>	<b>ODR</b>
<b>Report Date:</b>	<b>4/30/2021</b>
<b>Report #:</b>	<b>5</b>
<b>DFS:</b>	<b>4</b>
<b>AFE #:</b>	<b>9011466</b>
<b>Total AFE + Sup:</b>	<b>\$2,596,759.42</b>
<b>Daily Field Est. (Cost):</b>	<b>\$91,628.72</b>

Printed: Friday, April 30, 2021

Daily Drilling Report

P/I/UWI 42-383-40906-0000		Well Profile HORIZONTAL		Open Formation WOLFCAMP B3 (WFMP B3)		Field Name SPRABERRY (TREND AREA)						
SSN ID00020510		Property Sub		KB-Grd (ft) 28.00	Orig KB Elev (ft) 2,670.00	Ground Elevation (ft) 2,642.00	Spud Date 11/19/2020	TD Date				
Jobs												
Responsible Grp 2		Responsible Grp 3		Job Type	Start Date		End Date		Job Status			
DRL ENG - KEITH SPACEK		AREA TEAM 4		ODR	11/19/2020 20:00				IN PROGRESS			
Job Dates (ex. Estimated Pad Release, TXRRC Calls)												
Type			Subtype		Date		Note					
MILESTONE			ESTIMATED PAD RELEASE		5/12/2021		Running Int Csg on a 7 well pad (5-1-21)					
Type TXRRC CALL			Subtype CEMENT INT		Date 4/30/2021		Note Amanda, Job #239494					
Daily Operations												
Footage/Meterage (ft) 91.00		Drilling Hours (hr) 0.50		% Rotating Time (%) 100.00		End Depth (ftKB) 8,175.0		Target Depth (ftKB) 18,794.0		Daily Field Est Total (Cost) 75,682.44	Cum Field Est To Date (Cost) 675,964.37	
24 HR ROP (ft/hr) 182.0		Circulating Hours (hr)		% Sliding Time (%) 0.00		End Depth (TVD) (ftKB) 8,117.5		Target Depth (TVD) (ftKB) 8,859.9		Daily Mud Field Est (Cost) 8,086.61	Cum Mud Field Est (Cost) 27,862.53	Total AFE + Sup (Cost) 2,596,759.42
Daily Goal Description DRILLED FEET				Daily Goal - Last 24 93.0				Daily Goal - Next 24 0.0		Goal Comments Goal Met		
Backbuild Yes		Lateral Inclination		Last Casing String SURFACE, 1,084.2ftKB					Next Casing String INTERMEDIATE, 8,160.0ftKB			
Avg Connection Gas 231.00		Avg Trip Gas 0.00			Avg Background Gas 176.00		Max Connection Gas 315.00		Max Trip Gas 0.00		Max Drill Gas 294.00	
Operations Summary Drill Int 1 F/8,084' T/ICP @ 8,175', Circ 2 Hi-vis Sweeps, TOO H, L/D 8" DC & Dir Tools, R/U & Run Int Csg T/6,700'												
Operations Next Report Period Run Inter Csg T/LP @ 8,160', Circ, R/U & Perform Inter Cmt Job, Install Packoff & Test, P/U Curve BHA, TIH T/DV Tool, Test Csg, Drill Out DV Tool												
Operations at Report Time Running Int Csg @ 6,700'												
Remarks TD Inter: 4-30-21 @ 6:30 TD Production:  April. NPT: Cum: 28.75 hrs; Dly: 2.25 hrs Surf: 100% Int. 1: 100% Prod Vert: 0% Prod. Curve: 0% Prod. Lateral: 0% No Incidents or Spills Reported												
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	0.5	06:30	INT, DRL	DRL	NORMAL	Drill F/ 8,084' - T/TD @ 8,175' ( 91' @ 182 fph ) with full returns. WOB 48-55, GPM 960, SPP 3900-4100 DIFF 550-600, TORQ 18-25k.  Note: TD in line with Geo's recommendation. Lithology 40% Shale, 10% Sand. 50% Limestone		8,084.0	8,175.0			
06:30	1.5	08:00	INT, POST DRL	CIRC	NORMAL	Circulate clean @ 950 gpm while reciprocating a full stand. Pump 2 hi vis nut plug sweeps. SPP 3800, RPM-50 with full returns. Calc washout 21%.		8,175.0	8,175.0			
08:00	0.25	08:15	INT, POST DRL	FLOW_CHK	WELL CONTROL	Flow check -		8,175.0	8,175.0			
08:15	1.25	09:30	INT, POST DRL	TOOH_ELEV	WELL CONTROL	TOOH F/8,175' T/7,000' , Proper hole fill observed on trip tanks.  Note: tight spot at 7,300' Middle Spraberry		8,175.0	8,175.0			
09:30	0.25	09:45	INT, POST DRL	FLOW_CHK	NORMAL	Flow check well on trip tank, well static. Pump trip slug		8,175.0	8,175.0			
09:45	2.5	12:15	INT, POST DRL	TOOH_ELEV	NORMAL	TOOH F/7,000' , T/1,077' , Proper hole fill observed on trip tanks.  Note: tight spot at 2,650'		8,175.0	8,175.0			
12:15	0.25	12:30	INT, POST DRL	FLOW_CHK	NORMAL	Flow check well on trip tank, well static.		8,175.0	8,175.0			
12:30	0.25	12:45	INT, POST DRL	HDL_ROTHD	NORMAL	Remove rotating head. Well static.		8,175.0	8,175.0			
12:45	0.75	13:30	INT, POST DRL	TOOH_ELEV	NORMAL	TOOH F/1,077', T/467', Proper hole fill observed on trip tanks.		8,175.0	8,175.0			
13:30	2.75	16:15	INT, POST DRL	L/D BHA	NORMAL	L/D 12x 8" DCs  **Tight connections, use tongs on every joint**		8,175.0	8,175.0			
16:15	0.25	16:30	INT, POST DRL	SFTY	NORMAL	PJSM over laying down directional BHA.		8,175.0	8,175.0			
16:30	1.25	17:45	INT, POST DRL	LD_DIR	NORMAL	Lay down 8" directional tools. Bit graded 4.2		8,175.0	8,175.0			
Daily Drilling Report												
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Printed: Saturday, May 1, 2021												



# Daily Drilling Report

PATTERSON - UTI - 804	
Accept: 4/27/2021	Release:
Days Since LTI: 217.00	Days Since RI: 217.00

<b>PERMIAN - JV SOUTHERN WOLFCAMP</b>	
<b>Job:</b>	<b>ODR</b>
<b>Report Date:</b>	<b>5/1/2021</b>
<b>Report #:</b>	<b>6</b>
<b>DFS:</b>	<b>5</b>
<b>AFE #:</b>	<b>9011466</b>
<b>Total AFE + Sup:</b>	<b>\$2,596,759.42</b>
<b>Daily Field Est. (Cost):</b>	<b>\$75,682.44</b>

Time Log											
Start Time	Dur (hr)	End Time	Phase	Operation	Ops Category	Com	Start Depth (ftKB)	End Depth (ftKB)	Prob Hrs (hr)	Prob Ref #	
17:45	0.25	18:00	INT, POST DRL	SFTY	NORMAL	Clean rig floor	8,175.0	8,175.0			
18:00	0.5	18:30	INT, POST DRL	WRBSH	NORMAL	Remove wearbushing, Rig down mudbucket, and elevators	8,175.0	8,175.0			
18:30	0.25	18:45	INT, CASE & CMT	SFTY	NORMAL	PJSM over rigging up Byrd casing tools and running 9-5/8 casing with PNR, PAT, Byrd, Tenaris and Weatherford	8,175.0	8,175.0			
18:45	1	19:45	INT, CASE & CMT	RU_CSG	NORMAL	Rig up casing equipment.  Note: Pump through fill up line to clear possible obstructions prior to csg run	8,175.0	8,175.0			
19:45	0.5	20:15	INT, CASE & CMT	RIG_SVC	NORMAL	Rig service - service catwalk	8,175.0	8,175.0			
20:15	0.25	20:30	INT, CASE & CMT	MU_SHOE_TR K	NORMAL	Make up 2 joint shoe trackand check flotas. floats functioning. MU Tq 10k	8,175.0	8,175.0			
20:30	2.5	23:00	INT, CASE & CMT	CSG_W/O ROTATION	NORMAL	Run 9-5/8" 40#, L-80IC, BTC Casing F/96' - T/2,404'. Top filling & breaking circulation every 40 joints with correct displacement. Drifting w/rabbit. MU Tq 7k.	8,175.0	8,175.0			
23:00	0.75	23:45	INT, CASE & CMT	WOW	NORMAL	Shut down due to Patterson's Weather Policy (lightning 0-8 miles from rig). Lightning monitored with Skyscan P5 lightning meter.	8,175.0	8,175.0	0.75	4	
23:45	1.25	01:00	INT, CASE & CMT	CSG_W/O ROTATION	NORMAL	Run 9-5/8" 40#, L-80IC, BTC Casing F/2,404' - T/3,793'. Top filling & breaking circulation every 40 joints with correct displacement. Drifting w/rabbit. MU Tq 7k.	8,175.0	8,175.0			
01:00	1.5	02:30	INT, CASE & CMT	WOW	NORMAL	Shut down due to Patterson's Weather Policy (lightning 0-3 miles from rig). Lightning monitored with Skyscan P5 lightning meter.	8,175.0	8,175.0	1.50	5	
02:30	3.5	06:00	INT, CASE & CMT	CSG_W/O ROTATION	NORMAL	Run 9-5/8" 40#, L-80IC, BTC Casing F/3,793' - T/6,700. Top filling & breaking circulation every 40 joints with correct displacement. Drifting w/rabbit. MU Tq 7k.	8,175.0	8,175.0			
Interval Problems											
SURFACE CONDITION, 8,175.0ftKB, 4/30/2021 23:00											
Ref #	Dur (N...	Ex...	Subtype	Problem Descript...	Est Cost OR (Cost)	Accountable Party	Comment				
4	0.75	No	LOCATION	WEATHER		PATTERSON-UTI DRILLING COMPANY LLC	Shut down due to Patterson's Weather Policy (lightning 0-8 miles from rig). Lightning monitored with Skyscan P5 lightning meter.				
SURFACE CONDITION, 8,175.0ftKB, 5/1/2021 01:00											
Ref #	Dur (N...	Ex...	Subtype	Problem Descript...	Est Cost OR (Cost)	Accountable Party	Comment				
5	1.50	No	LOCATION	WEATHER		PATTERSON-UTI DRILLING COMPANY LLC	Shut down due to Patterson's Weather Policy (lightning 0-3 miles from rig). Lightning monitored with Skyscan P5 lightning meter.				
Drill Strings											
BHA #2 , INTERMEDIATE											
Bit Run 2				Drill Bit 12 1/4in, D507TWX, 5319083			Bit Type PDC		Make GE/BAKER HUGHES		
Nozzles (1/32") 10/10/10/10/11/11/11/11/11				Bit Total Fluid Area (nozzles) (in²) 0.77		IADC Bit Dull 4-2-BF-N-X-0-BT-TD		Hours Drilled By Bit (hr) 50.00		Depth Drilled By Bit (ft) 7,071.00	
BHA Drilling Time (hr) 50.00				BHA Depth Drilled (ft) 7,071.00		BHA ROP (ft/hr) 141.4		Depth In (ftKB) 1,104.0		Depth Out (ftKB) 8,175.0	
Drill String Components											
Jts	Item Des			OD (in)	ID (in)	Len (ft)	Cum Len (ft)	Wt (lbf)	Cum Wt (1000lbf)	Make	
223	DRILL PIPE			5	4.27	7,025.81	8,175.00	137,003.3	174	RIG	
4	HWDP			5	3.00	121.19	1,149.19	7,029.0	37	RIG	
1	DRILLING JARS - HYDRAULIC			7	2.75	31.41	1,028.00		30	WEATHERFORD	
17	HWDP			5	3.00	512.39	996.59	29,718.6	30	RIG	
1	SUB - XO			6 15/16	2.88	3.85	484.20		0	INTREPID	
12	DRILL COLLAR			8	2.88	359.61	480.35		0	RIG	
1	DRILL COLLAR - NON MAG			8	3.25	29.30	120.74		0	INTREPID	
1	DRILL COLLAR - NON MAG			8	3.25	29.98	91.44		0	INTREPID	
1	SUB - UBHO			8	2.75	3.30	61.46		0	INTREPID	
1	DRILL COLLAR - PONY, NON MAG			8 1/8	3.25	11.06	58.16		0	INTREPID	
1	STABILIZER			8	2.88	7.42	47.10		0	INTREPID	
1	MOTOR - STABILIZER SLEEVE			9 5/8	2.50	38.18	39.68		0	INTREPID	
Mud Motors											
SN		Bend Angle		Bearing Type		Lobe Config		# Stages		Lwr Defln Type	
GDM962030 / GD962-017		1.5		NOT SEALED		7:8		6.5			
Sensors											
Sensor Type				Sensor-Bit (ft)				Note			
GAMMA				70.00							
DIRECTIONAL				83.00							
Daily Drilling Report											
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Printed: Saturday, May 1, 2021											

UNIVERSITY W2-34D 4H

PATTERSON - UTI - 804

Accept: 4/27/2021Release: Days Since LTI: 217.00Days Since RI: 217.00

PERMIAN - JV SOUTHERN WOLFCAMP

Job: ODR

Report Date: 5/1/2021

Report #: 6

DFS: 5

AFE #: 9011466

Total AFE + Sup: \$2,596,759.42

Daily Field Est. (Cost): \$75,682.44

Drilling Parameters																	
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 Average (ft/hr)	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	06:30	8,084.0	91.00	182.0	48	45	650.0	960	4,800.0	182.0	238	272	208	238	2,200.0	7,000.0	0
Hydraulic Calculations																	
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)
9.10	9.67	737.0		6.3		399.6		1,316.1		26.9	409.8		134.18		844.23		138.33
Mud Checks																	
Time 23:00		Mud Company PIONEER DRILLING FLUIDS				Type WATER BASE			Depth (ftKB) 8,187.0		Density (lb/gal) 9.35		Funnel Viscosity (s/qt) 44		T Flowline (°F) 96.0		
PV (cP) 11.0		YP (lbf/100ft²) 14.000		Vis 3rpm 8		Vis 6rpm 9		Filtrate (mL/30min) 25.0		HTHP Filtrate (mL/30min) 0.0		HTHP Temperature (°F) 0.0		HTHP Pressure (psi) 0.0			
Solids (%) 3.5				Low Gravity Solids (%) 2.0				Sand (%) 0.2		MBT (lb/bbl) 17.5		Pm (mL/mL) 0.200		PF (mL/mL)			
Chlorides (ppm) 41,000,000.000				Calcium (ppm) 320,000.000			CaCl (ppm)		Oil Water Ratio 0/100		Electric Stab (V)		Lime (lb/bbl) 0.0		pH 9.0		
Gel 10 sec (lbf/100ft²) 9.000						Gel 10 min (lbf/100ft²) 12.000					Gel 30 min (lbf/100ft²) 14.000						
Comment RECOMMENDED FLUID TREATMENT Maintaining MW under 9.4 ppg, dumping/diluting as needed. Building Lignite mud in Premix and storing in frac tanks. Chemical usage: Lignite 2.25ppb, Soda Ash 1.6 ppb, Xan .025 ppb, Zinc .8 ppb, Pac-LV 1.05 ppb.																	
DRILLING FLUID ACTIVITY LAST 24 HRS Transferring Lignite mud from frac farm as needed to reduce MW and maintain below 9.4 ppg. Checking shaker screens for holes on connections to reduce amount of LGS. Average MOC @ 104%.																	
Last BOP Test																	
Date		Test Type				Item Tested				Next Test Date		Com					
4/27/2021		BOP				BOP'S, 4/27/2021 13:30, <class>				5/18/2021		Full BOP test					
Leak Off and Formation Integrity Tests																	
Test Type						Depth (ftKB)						Dens Fluid (lb/gal)					
FORMATION INTEGRITY						1,104.0						12.43					
Casing Pressure Test																	
Test Type				Test Subtype				Date		Item Tested				Failed?	Time (min)		P (psi)
CASING				STANDARD				11/27/2020		SURFACE, 1,084.2ftKB				No	30.00		1,000.0
Kick Offs & Key Depths																	
Date						Type				Top Depth (ftKB)				Depth Top (TVD) (ftKB)			
Casing Strings																	
Description		Set Depth (ftKB)		Set Depth (TVD) (ftKB)		OD (in)		Grade		Wt/Len (lb/ft)		Top Thread		P LeakOff (psi)			
CONDUCTOR		128.0				20		H40		78.67							
SURFACE		1,084.2		1,083.9		13 3/8		K55		54.50		BTC		712.8			
Gas Emissions - Flare																	
Type		Method		Dur (min)		Amount		Units		Com							
Job Supply Amounts																	
Supply Item Des		Type		Unit Label		Received		Consumed		Returned		Note		Cum On Loc		Cum Consumed	
DIESEL		FUEL		GAL		0		1,956				Rig Fuel		9,567		11,809.0	
DIESEL		MUD		GAL		0		0				Mud Diesel		16,087		0.0	
DIESEL		FUEL		GAL		0		0				Emergency tank		112		0.0	
WATER		FRESH		BBL		0		0				Beginning: 248,295 End 248,295		0		4,980.0	
Mud Additive Amounts																	
Des				Type		Units		Rec		Consumed		On Loc		Cum Cons			
BARITE - BULK				WEIGHTING MATERIAL		TON				13		15.0		13			
BENTONITE - BULK				VISCOSIFIER		TON				13		2.09		65			
LIGNITE				DISPERSANTS/T HINNER		LB				45		67.0		178			
NUT SHELL				LOST CIRCULATION		LB				15		20.0		15			
PAC LV				FLUID LOSS ADDITIVES		LB				21		67.0		93			
SODA ASH				ALKALINITY CONTROL		LB				32		90.0		112			
WC DEFOAMER				DEFOAMER		GAL				6		25.0		12			
XANTHAN GUM				VISCOSIFIER		LB				1		56.0		1			
ZINC OXIDE				SPECIALITY		LB				6		45.0		23			
Pump Operations																	
Pump #		Make				Model		Liner Size (in)		Stroke (in)		Vol/Stk (bbl/stk)		P Max (psi)			
1		BOMCO				F1600		5 1/2		12.00		0.088		5,556.0			
2		BOMCO				F1600		5 1/2		12.00		0.088		5,556.0			
3		BOMCO				F1600		5 1/2		12.00		0.088		5,556.0			
Pump Checks																	
Pump #		Depth (ftKB)		Time		P (psi)		Strokes (spm)		Q Flow (gpm)				Eff (%)			
Deviation Surveys																	
Date		Description FINAL SURVEY										Job					
Date 11/19/2020		Description AS DRILL SURVEY										Job ODR, 11/19/2020 20:00					
Daily Drilling Report																	

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Printed: Saturday, May 1, 2021

# Daily Drilling Report

**PATTERSON - UTI - 804**

<b>PERMIAN - JV SOUTHERN WOLFCAMP</b>	
<b>Job:</b>	<b>ODR</b>
<b>Report Date:</b>	<b>5/1/2021</b>
<b>Report #:</b>	<b>6</b>
<b>DFS:</b>	<b>5</b>
<b>AFE #:</b>	<b>9011466</b>
<b>Total AFE + Sup:</b>	<b>\$2,596,759.42</b>
<b>Daily Field Est. (Cost):</b>	<b>\$75,682.44</b>

Daily Drilling Report Page 4/4 Printed: Saturday, May 1, 2021



Daily Drilling Report

UNIVERSITY W2-34D 4H				PERMIAN - JV SOUTHERN WOLFCAMP	
PATTERSON - UTI - 804				Job:	ODR
Accept: 4/27/2021				Report Date:	5/2/2021
Days Since LTI: 218.00				Report #:	7
Release:				DFS:	6
Days Since RI: 218.00				AFE #:	9011466
				Total AFE + Sup:	\$2,596,759.42
				Daily Field Est. (Cost):	\$331,603.65

API/UWI 42-383-40906-0000		Well Profile HORIZONTAL		Open Formation WOLFCAMP B3 (WFMP B3)		Field Name SPRABERRY (TREND AREA)								
SSN ID00020510		Property Sub		KB-Grd (ft) 28.00		Orig KB Elev (ft) 2,670.00		Ground Elevation (ft) 2,642.00		Spud Date 11/19/2020		TD Date		
Jobs														
Responsible Grp 2		Responsible Grp 3			Job Type		Start Date			End Date			Job Status	
DRL ENG - KEITH SPACEK		AREA TEAM 4			ODR		11/19/2020 20:00						IN PROGRESS	
Job Dates (ex. Estimated Pad Release, TXRRC Calls)														
Type				Subtype			Date			Note				
MILESTONE				ESTIMATED PAD RELEASE			5/12/2021			Drilling Curve on 7th well of a 7 well pad (5-1-21)				
Daily Operations														
Footage/Meterage (ft) 145.00		Drilling Hours (hr) 4.50		% Rotating Time (%) 55.56		End Depth (ftKB) 8,320.0		Target Depth (ftKB) 18,794.0		Daily Field Est Total (Cost) 331,603.65		Cum Field Est To Date (Cost) 993,503.02		
24 HR ROP (ft/hr) 32.2		Circulating Hours (hr) 1.00		% Sliding Time (%) 44.44		End Depth (TVD) (ftKB) 8,262.5		Target Depth (TVD) (ftKB) 8,859.9		Daily Mud Field Est (Cost) 685.00		Cum Mud Field Est (Cost) 28,547.53		Total AFE + Sup (Cost) 2,596,759.42
Daily Goal Description DRILLED FEET				Daily Goal - Last 24 0.0				Daily Goal - Next 24 1,094.0				Goal Comments Goal Met		
Backbuild Yes		Lateral Inclination		Last Casing String INTERMEDIATE, 8,160.0ftKB						Next Casing String INTERMEDIATE, 8,160.0ftKB				
Avg Connection Gas 0.00		Avg Trip Gas 231.00			Avg Background Gas 56.00			Max Connection Gas 0.00			Max Trip Gas 231.00			Max Drill Gas 97.00
Operations Summary Run Inter Csg T/LP @ 8,160', Circ, R/U & Perform Inter Cmt Job, Install Packoff & Test, P/U Curve BHA, TIH T/DV Tool, Test Csg, Drill Out DV Tool, Test Csg, Drill Out FE + 10' T/8,185', FIT T/13.5 EMW, Drill Prod Vert F/8,185' - T/8,265', Build Curve F/8,265' - T/8,320', (100% sliding, Inc: NA, BRN: NA, MY: NA, 6.84' high, 8.9' right)														
Operations Next Report Period Build Curve T/LP @ +/- 9,164', Drill Prod Lateral F/9,164' - T/9,414', CUC, TOOH F/RSS														
Operations at Report Time Building Production Curve @ 8,320'														
Remarks TD Inter: 4-30-21 @ 6:30 TD Production:  April. NPT: Cum: 28.75 hrs; Dly: 2.25 hrs Surf: 100% Int. 1: 100% Prod Vert: 0% Prod. Curve: 0% Prod. Lateral: 0% No Incidents or Spills Reported														
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	2	08:00	INT, CASE & CMT	CSG_W/O ROTATION	NORMAL	Run 9-5/8" 40#, L-80IC, BTC Casing- T/8,046'. Pick up Cactus hanger and land in well head as per tally. Top filling & toping off every 30 joints and displacing into trip tanks. Correct displacement. until 5300' then full loss of displacement. keep hole full with trip tanks.				8,175.0	8,175.0			
08:00	1.25	09:15	INT, CASE & CMT	CIRC	NORMAL	Circ STS @ 6 bpm with CRT. Rig down casing equipment and bring Cementing equipment to rig floor. Full returns Note: PJSM with Patterson, Weatherford, Schlumberger and PNR on Cmt Int Csg.				8,175.0	8,175.0			
09:15	0.25	09:30	INT, CASE & CMT	RD_CSG	NORMAL	Lay out CRT				8,175.0	8,175.0			
09:30	0.5	10:00	INT, CASE & CMT	RU_CMT	NORMAL	R/U Cement equipment.				8,175.0	8,175.0			
10:00	4.25	14:15	INT, CASE & CMT	CMT	NORMAL	Pump 1st stage intrm. 1 Cement job wit full returns, 380 bbls cement to surface. Full details on cementing report.				8,175.0	8,175.0			
14:15	0.5	14:45	INT, CASE & CMT	CMT	NORMAL	Drop cancellation plug and allow to fall. Shift DV sleeve open and closed with cement truck. Pressured up to 1875 psi with 2 bbls. Tool hand verified plug had shifted DV tool open/closed.				8,175.0	8,175.0			
14:45	0.25	15:00	INT, CASE & CMT	RD_CMT	NORMAL	R/D cement head and hardline. Flush BOP stack with retarded water.				8,175.0	8,175.0			
15:00	1	16:00	INT, CASE & CMT	WH	NORMAL	L/D landing joint, install Cactus pack-off, pull to 40k, test to 5,000 psi, good.				8,175.0	8,175.0			
16:00	0.5	16:30	PROD, PRE DRL	WRBSH	NORMAL	Install wear bushings				8,175.0	8,175.0			
16:30	0.5	17:00	PROD, PRE DRL	SFTY	NORMAL	Cleam & organize florr. PJSM w/Patterson, Intreped and PNR on P/U BHA				8,175.0	8,175.0			
17:00	0.5	17:30	PROD, PRE DRL	PU_DIR	NORMAL	P/U curve BHA, motor - 2.00° True Slick, UBHO, MWD, NMDC Bit - Ulterra CF611, orient UBHO, and install MWD				8,175.0	8,175.0			
17:30	2	19:30	PROD, PRE DRL	TIH_ELEV	NORMAL	TIH F/87' - T/ 3,586' . Displacing overboard.  DV tool @ 3,586'				8,175.0	8,175.0			
19:30	0.25	19:45	PROD, PRE DRL	CSG_TEST	NORMAL	Test casing to 2500 psi for 10 minutes, test good				8,175.0	8,175.0			
Daily Drilling Report														

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Printed: Sunday, May 2, 2021

Daily Drilling Report

Time Log																		
Start Time	Dur (hr)	End Time	Phase	Operation	Ops Category	Com	Start Depth (ftKB)	End Depth (ftKB)	Prob Hrs (hr)	Prob Ref #								
19:45	0.5	20:15	PROD, PRE DRL	DRL_OUT	NORMAL	Drill out cmt & DV tool, 425 GPM, 25 RPM, 3-8K WOB.	8,175.0	8,175.0										
20:15	1.5	21:45	PROD, PRE DRL	TIH_ELEV	NORMAL	TIH F/3,656' - T/ 8,070' . Taking displacement over board. Cmt @ 7,953'	8,175.0	8,175.0										
21:45	0.25	22:00	PROD, PRE DRL	HDL_ROT HD	NORMAL	Install rotating head	8,175.0	8,175.0										
22:00	1	23:00	PROD, PRE DRL	CSG_TEST	NORMAL	Fill pipe and test casing T/2,500 psi for 30 mins. Test good.	8,175.0	8,175.0										
23:00	1.5	00:30	PROD, PRE DRL	DRL_OUT	NORMAL	Drill out CMT & Float Eqp F/8,053' , T/8,160' , 425 GPM, 20 RPM, 0-5K WOB. Displace to OBM while drilling out. Float Collar @ 8,058'	8,175.0	8,175.0										
00:30	0.25	00:45	PROD, PRE DRL	DRL	NORMAL	Drill 10' new formation for FIT test.	8,175.0	8,185.0										
00:45	0.75	01:30	PROD, PRE DRL	CIRC	NORMAL	Circulate and condition mud for FIT	8,185.0	8,185.0										
01:30	0.25	01:45	PROD, PRE DRL	FIT	NORMAL	Shut in well against upper pipe rams, circulate obm thru choke, Shut in choke and inside valve, pump thru kill line, and down drillstring, Pressure up to 337 psi, for 13.5 EMW with 12.7 drilling fluid in hole, TVD 8,103" Good Test.	8,185.0	8,185.0										
01:45	2.25	04:00	PROD, DRL	DRL	NORMAL	Drill 8 1/2" Production Vertical, F/8,185' - T/8,265', 550 GPM, 60 RPM, 25-35K WOB.	8,185.0	8,265.0										
04:00	2	06:00	PROD, DRL CURVE	DRL	NORMAL	Build Curve F/ 8,265' - T/ 8,320' (55' @ 27.5 fph) WOB 25, GPM 450, SPP 2350 , DIFF 200-400.	8,265.0	8,320.0										
Drill Strings																		
BHA #3 , PRODUCTION - CURVE																		
Bit Run 3				Drill Bit 8 3/4in, CD611, 50988				Bit Type PDC		Make ULTERRA								
Nozzles (1/32") 13/13/13/13/13/13				Bit Total Fluid Area (nozzles) (in²) 0.78		IADC Bit Dull -----		Hours Drilled By Bit (hr) 4.50		Depth Drilled By Bit (ft) 145.00								
BHA Drilling Time (hr) 4.50				BHA Depth Drilled (ft) 145.00		BHA ROP (ft/hr) 32.2		Depth In (ftKB) 8,175.0		Depth Out (ftKB) 8,320.0								
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		8,232.20		8,320.00		160,527.9		161		RIG	
1	DRILL COLLAR - NON MAG				6 3/4		2.75		28.78		87.80				0		INTREPID	
1	MWD TOOL				6 1/2		3.25		29.78		59.02				0		INTREPID	
1	SUB - UBHO				6 3/4		3.25		2.97		29.24				0		INTREPID	
1	MOTOR - TRUE SLICK				6 3/4		2.50		25.27		26.27				0		INTREPID	
Mud Motors																		
SN		Bend Angle		Bearing Type		Lobe Config		# Stages		Lwr DefIn Type		Bit To Bend						
XSS67070 / XS677850-065		1.83		NOT SEALED		7:8		5				3.9						
Sensors																		
Sensor Type				Sensor-Bit (ft)				Note										
GAMMA				38.00														
DIRECTIONAL				51.00														
Drilling Parameters																		
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 Average (ft/hr)	Drill Str Wt (1000lbf)	PU Str Wt (1000lbf)	SO Str Wt (1000lbf)	Off-Btm Str Wt (1000lbf)	Drill Tq	Off Btm Tq	TFO (°)	
00:30	00:45	8,175.0	10.00	40.0	15	25	150.0	425	2,250.0	40.0	183	200	175	183	5,200.0	3,800.0	0	
00:45	01:45	8,185.0	0.00		0	0	0.0	425	2,100.0	0.0	183	200	175	183	0.0	3,800.0	0	
01:45	04:00	8,185.0	79.00	35.1	25	50	350.0	550	3,650.0	35.1	183	200	175	183	7,000.0	3,800.0	0	
04:00	06:00	8,264.0	56.00	28.0	20	0	200.0	450	2,552.0	28.0	183	200	175	183	0.0	0.0	0	
Hydraulic Calculations																		
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)	
12.70	12.99	104.1		1.7		185.6		396.4		12.6	355.8		146.51		7.40		420.11	
Mud Checks																		
Time 23:00		Mud Company PIONEER DRILLING FLUIDS				Type OIL BASE		Depth (ftKB) 8,175.0		Density (lb/gal) 12.70		Funnel Viscosity (s/qt) 87		T Flowline (°F) 0.0				
PV (cP) 30.0		YP (lbf/100ft²) 15.000		Vis 3rpm 13		Vis 6rpm 14		Filtrate (mL/30min)		HTHP Filtrate (mL/30min) 24.0		HTHP Temperature (°F) 250.0		HTHP Pressure (psi) 500.0				
Solids (%) 26.0			Low Gravity Solids (%) 11.0			Sand (%)			MBT (lb/bbl)			Pm (mL/mL)			Pf (mL/mL)			
Chlorides (ppm) 32,000,000.000			Calcium (ppm) 8,800,000.000			CaCl (ppm)		Oil Water Ratio 70/30		Electric Stab (V) 401.0			Lime (lb/bbl) 2.6			pH		
Gel 10 sec (lbf/100ft²) 15.000						Gel 10 min (lbf/100ft²) 24.000						Gel 30 min (lbf/100ft²) 33.000						
Comment																		
RECOMMENDED FLUIDS TREATMENT																		
No treatments at this time.																		
DRILLING FLUIDS ACTIVITY LAST 24 HRS																		
Dump all WBM to reserve pit, clean active pits, and fill up with OBM. No MOC.																		
Daily Drilling Report																		

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Printed: Sunday, May 2, 2021

Daily Drilling Report

UNIVERSITY W2-34D 4H

PATTERSON - UTI - 804

Accept: 4/27/2021      Release:

Days Since LTI: 218.00      Days Since RI: 218.00

PERMIAN - JV SOUTHERN WOLFCAMP

Job: ODR

Report Date: 5/2/2021

Report #: 7

DFS: 6

AFE #: 9011466

Total AFE + Sup: \$2,596,759.42

Daily Field Est. (Cost): \$331,603.65

Last BOP Test													
Date	Test Type		Item Tested		Next Test Date	Com							
4/27/2021	BOP		BOP'S, 4/27/2021 13:30, <class>		5/18/2021	Full BOP test							
Leak Off and Formation Integrity Tests													
Test Type			Depth (ftKB)			Dens Fluid (lb/gal)							
FORMATION INTEGRITY			1,104.0			12.43							
FORMATION INTEGRITY			8,103.0			13.51							
Casing Pressure Test													
Test Type		Test Subtype		Date	Item Tested		Failed?	Time (min)	P (psi)				
CASING		STANDARD		11/27/2020	SURFACE, 1,084.2ftKB		No	30.00	1,000.0				
Kick Offs & Key Depths													
Date			Type			Top Depth (ftKB)		Depth Top (TVD) (ftKB)					
5/2/2021 04:00			KICK OFF			8,265.0		8,207.5					
Casing Strings													
Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)						
CONDUCTOR	128.0		20	H40	78.67								
SURFACE	1,084.2	1,083.9	13 3/8	K55	54.50	BTC	712.8						
INTERMEDIATE	8,160.0	8,102.5	9 5/8	L80	40.00	BTC	5,644.9						
Cement													
INTERMEDIATE CASING CEMENT, Casing, 5/1/2021 10:00													
Cementing End Date		Wellbore	Technical Result		Comment								
5/1/2021 14:15		ORIGINAL	SUCCESS										
Cement Stages													
Description		Final Top De...	Btm (ftKB)	Top Pl...	Btm Pl...	Q Pump Init (...)	Q Pump Fina...	Q Pump Avg...	P Pump Final...	P Plug Bump...	Float...	Recip?	Rotated?
		31.6	8,160.0	Yes	No	6	3	6	1,550.0	500.0	No	No	No
Cement Fluids													
Fluid Type			Estimated Top (ftKB)		Est Btm (ftKB)		Class		Yield (ft³/sack)		Density (lb/gal)		
MUDPUSH			0.0		0.0						10.50		
Fluid Type			Estimated Top (ftKB)		Est Btm (ftKB)		Class		Yield (ft³/sack)		Density (lb/gal)		
LEAD CMT			31.6		7,732.0		TXI LITEWEIGHT		2.76		11.00		
Fluid Type			Estimated Top (ftKB)		Est Btm (ftKB)		Class		Yield (ft³/sack)		Density (lb/gal)		
TAIL CMT			7,732.0		8,232.0		Class C		1.33		14.80		
Fluid Type			Estimated Top (ftKB)		Est Btm (ftKB)		Class		Yield (ft³/sack)		Density (lb/gal)		
DSPLMT			0.0		8,232.0						8.33		
Gas Emissions - Flare													
Type	Method	Dur (min)	Amount	Units	Com								
Job Supply Amounts													
Supply Item Des	Type	Unit Label	Received	Consumed	Returned	Note	Cum On Loc	Cum Consumed					
DIESEL	FUEL	GAL	0	890		Rig Fuel	8,677	12,699.0					
DIESEL	MUD	GAL	0	0		Mud Diesel	16,087	0.0					
DIESEL	FUEL	GAL	0	0		Emergency tank	112	0.0					
WATER	FRESH	BBL	0	0		Beginning: 248,295 End 248,295	0	4,980.0					
Mud Additive Amounts													
Des	Type	Units	Rec	Consumed	On Loc	Cum Cons							
TRANSPORTATION	MISCELLANEOUS	EA	685	685	0.0	685							
Pump Operations													
Pump #	Make		Model	Liner Size (in)	Stroke (in)	Vol/Stk (bbl/stk)	P Max (psi)						
1	BOMCO		F1600	5 1/2	12.00	0.088	5,556.0						
2	BOMCO		F1600	5 1/2	12.00	0.088	5,556.0						
3	BOMCO		F1600	5 1/2	12.00	0.088	5,556.0						
Pump Checks													
Pump #	Depth (ftKB)	Time	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)							
Deviation Surveys													
Date	Description					Job							
	FINAL SURVEY												
Date	Description					Job							
11/19/2020	AS DRILL SURVEY					ODR, 11/19/2020 20:00							
Survey Data - All surveys for 24 hr reporting period													
MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)						
8,191.00	0.74	129.15	8,133.50	712.47	715.58	-116.64	0.31						
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)						
275_0_WFMP_B1			-5,651.0		8,321.0								
276_0_WFMP_B2			-5,745.0		8,415.0								
278_0_WFMP_B3			-5,964.1		8,634.1								
ILP			-6,100.0		8,770.0								
TARGET_1			-6,175.0		8,845.0								
PBHL/TD			-6,190.0		8,860.0								
Daily Contacts													
Job Contact			Title	Office	Mobile	Email							
HARDIN, JOE, AREA DRILLING SUPERINTENDENT			AREA DRILLING SUPERINTENDENT	361-452-2118	361-318-8762	JOE.HARDIN@PXD.COM							
DAFFRON, MIKE, SUPERINTENDENT			SUPERINTENDENT	432-385-9242	318-243-5902	MIKE.DAFFRON@PXD.COM							
WAGNON, TIM, WELLSITE SUPERVISOR			WELLSITE SUPERVISOR		409-489-2208	TIM.WAGNON@PXD.COM							
SPACEK, KEITH, ENGINEER			ENGINEER	972-969-5932	972-741-1753	KEITH.SPACEK@PXD.COM							
ROGERS, WILL, WELLSITE SUPERVISOR			WELLSITE SUPERVISOR		806-549-1545	WILL.ROGERS@PXD.COM							
Daily Drilling Report													

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Printed: Sunday, May 2, 2021

# Daily Drilling Report

<b>PATTERSON - UTI - 804</b>	
<b>Accept: 4/27/2021</b>	<b>Release:</b>
<b>Days Since LTI: 218.00</b>	<b>Days Since RI: 218.00</b>

<b>PERMIAN - JV SOUTHERN WOLFCAMP</b>	
<b>Job:</b>	<b>ODR</b>
<b>Report Date:</b>	<b>5/2/2021</b>
<b>Report #:</b>	<b>7</b>
<b>DFS:</b>	<b>6</b>
<b>AFE #:</b>	<b>9011466</b>
<b>Total AFE + Sup:</b>	<b>\$2,596,759.42</b>
<b>Daily Field Est. (Cost):</b>	<b>\$331,603.65</b>

Daily Contacts				
Job Contact	Title	Office	Mobile	Email
BORLAND, TOBY, WELLSITE SUPERVISOR	WELLSITE SUPERVISOR		432-305-6058	TOBY.BORLAND@PXD.COM
JACKSON, MATTHEW, MUD ENGINEER	MUD ENGINEER	512-393-4397		MATTHEW.JACKSON@PXD.COM
RIG-PATTERSON 804, RIG PHONE	RIG PHONE	432-355-3141	432-238-4084	
Personnel Log				
Company				Count
PIONEER NATURAL RESOURCES USA INC				2
PATTERSON-UTI DRILLING COMPANY LLC				13
INTREPID DIRECTIONAL DRILLING SPECIALISTS				3
GISLER BROTHERS LOGGING CO INC				2
CRESCENT DRILLING FOREMAN INC				2
HALLIBURTON ENERGY SERVICES INC				1

# Daily Drilling Report

PATTERSON - UTI - 804	
Accept: 4/27/2021	Release:
Days Since LTI: 219.00	Days Since RI: 219.00

<b>PERMIAN - JV SOUTHERN WOLFCAMP</b>	
<b>Job:</b>	<b>ODR</b>
<b>Report Date:</b>	<b>5/3/2021</b>
<b>Report #:</b>	<b>8</b>
<b>DFS:</b>	<b>7</b>
<b>AFE #:</b>	<b>9011466</b>
<b>Total AFE + Sup:</b>	<b>\$2,596,759.42</b>
<b>Daily Field Est. (Cost):</b>	<b>\$92,359.96</b>

Daily Drilling Report Page 1/4 Printed: Monday, May 3, 2021



Daily Drilling Report

UNIVERSITY W2-34D 4H

PATTERSON - UTI - 804

Accept: 4/27/2021Release:Days Since LTI: 219.00Days Since RI: 219.00

PERMIAN - JV SOUTHERN WOLFCAMP

Job: ODR

Report Date: 5/3/2021

Report #: 8

DFS: 7

AFE #: 9011466

Total AFE + Sup: \$2,596,759.42

Daily Field Est. (Cost): \$92,359.96

Interval Problems

DIRECTIONAL, 8,719.0ftKB, 5/3/2021 00:15

Ref #	Dur (N...)	Ex...	Subtype	Problem Descript...	Est Cost OR (Cost)	Accountable Party	Comment
6		No	MOTOR	DOWNHOLE EQUIPMENT		INTREPID DIRECTIONAL DRILLING SPECIALISTS	Unable to get required build rate needed to land on plan. Needing 15.09° to land & yielding 9.35°. Decision made to TOOHP for a bail out assembly.

Drill Strings

BHA #3 , PRODUCTION - CURVE

Bit Run	Drill Bit	Bit Type	Make
3	8 3/4in, CD611, 50988	PDC	ULTERRA
Nozzles (1/32")	Bit Total Fluid Area (nozzles) (in²)	IADC Bit Dull	Hours Drilled By Bit (hr)
13/13/13/13/13/13	0.78	-----	22.00
BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)
22.00	550.00	25.0	8,175.0

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	8,642.20	8,730.00	168,522.9	169	RIG
1	DRILL COLLAR - NON MAG	6 3/4	2.75	28.78	87.80		0	INTREPID
1	MWD TOOL	6 1/2	3.25	29.78	59.02		0	INTREPID
1	SUB - UBHO	6 3/4	3.25	2.97	29.24		0	INTREPID
1	MOTOR - TRUE SLICK	6 3/4	2.50	25.27	26.27		0	INTREPID

Mud Motors

SN	Bend Angle	Bearing Type	Lobe Config	# Stages	Lwr Defin Type	Bit To Bend
XSS67070 / XS677850-065	1.83	NOT SEALED	7:8	5		3.9

Sensors

Sensor Type	Sensor-Bit (ft)	Note
GAMMA	38.00	
DIRECTIONAL	51.00	

Drilling Parameters

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 Average (ft/hr)	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	18:00	8,305.0	317.00	26.4	25	0	400.0	495	2,950.0	26.4	183	200	175	183	0.0	0.0	1
18:00	22:45	8,622.0	86.00	18.1	22	0	350.0	450	2,650.0	18.1	183	200	175	183	0.0	0.0	359
22:45	23:30	8,708.0	0.00		0	0	0.0	550	3,050.0	0.0	192	210	175	192	0.0	0.0	0
23:30	00:15	8,708.0	22.00	29.3	22	0	300.0	450	2,650.0	29.3	192	210	175	192	0.0	0.0	5

BHA #4 , PRODUCTION - CURVE

Bit Run	Drill Bit	Bit Type	Make
4	8 3/4in, GTD64C, 13265109	PDC	HALLIBURTON
Nozzles (1/32")	Bit Total Fluid Area (nozzles) (in²)	IADC Bit Dull	Hours Drilled By Bit (hr)
13/13/13/13/13/13	0.78	-----	
BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)
			Depth Out (ftKB)

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	8,641.98	8,730.00	168,518.6	169	RIG
1	DRILL COLLAR - NON MAG	6 3/4	2.75	28.78	88.02		0	INTREPID
1	MWD TOOL	6 1/2	3.25	29.78	59.24		0	INTREPID
1	SUB - UBHO	6 3/4	3.25	2.97	29.46		0	INTREPID
1	MOTOR - TRUE SLICK	6 3/4	2.50	25.49	26.49		0	INTREPID

Mud Motors

SN	Bend Angle	Bearing Type	Lobe Config	# Stages	Lwr Defin Type	Bit To Bend
XSS670063 / XS677850-050	2.25	NOT SEALED	7:8	5		3.89

Sensors

Sensor Type	Sensor-Bit (ft)	Note
GAMMA	38.00	
DIRECTIONAL	51.00	

Hydraulic Calculations

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)
12.85	18.14	105.3	1.8	185.6	401.1	12.6	355.8	153.77	27.93	420.11

Mud Checks

Time	Mud Company	Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (°F)	
23:00	PIONEER DRILLING FLUIDS	OIL BASE	8,622.0	12.85	79	127.0	
PV (cP)	YP (lbf/100ft²)	Vis 3rpm	Vis 6rpm	Filtrate (mL/30min)	HTHP Filtrate (mL/30min)	HTHP Temperature (°F)	HTHP Pressure (psi)
30.0	12.000	10	11		12.0	250.0	500.0
Solids (%)	Low Gravity Solids (%)	Sand (%)	MBT (lb/bbl)	Pm (mL/mL)	PI (mL/mL)		
24.4	9.4						
Chlorides (ppm)	Calcium (ppm)	CaCl (ppm)	Oil Water Ratio	Electric Stab (V)	Lime (lb/bbl)	pH	
32,000,000.000	9,600,000.000		73.6/26.4	485.0	2.7		
Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)	Gel 30 min (lbf/100ft²)					
13.000	28.000	32.000					

Comment

RECOMMENDED FLUIDS TREATMENT

Dusting up active system as needed to maintain MW @ 12.8 ppg. Chemical usage: Lime 2.8 ppb, CaCl 1.8 ppb, Gilsonite 1.5 ppb, Soltex 1.2 ppb.

DRILLING FLUIDS ACTIVITY LAST 24 HRS

Displace well with 12.7 ppg OBM. Monitor shakers for cutting size and volume. Running centrifuge as needed to lower LGS%.

Daily Drilling Report

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Printed: Monday, May 3, 2021

Daily Drilling Report

UNIVERSITY W2-34D 4H

PATTERSON - UTI - 804

Accept: 4/27/2021      Release:

Days Since LTI: 219.00      Days Since RI: 219.00

PERMIAN - JV SOUTHERN WOLFCAMP

Job: ODR

Report Date: 5/3/2021

Report #: 8

DFS: 7

AFE #: 9011466

Total AFE + Sup: \$2,596,759.42

Daily Field Est. (Cost): \$92,359.96

Last BOP Test								
Date	Test Type	Item Tested	Next Test Date	Com				
4/27/2021	BOP	BOP'S, 4/27/2021 13:30, <class>	5/18/2021	Full BOP test				
Leak Off and Formation Integrity Tests								
Test Type		Depth (ftKB)		Dens Fluid (lb/gal)				
FORMATION INTEGRITY		1,104.0		12.43				
FORMATION INTEGRITY		8,103.0		13.51				
Casing Pressure Test								
Test Type	Test Subtype	Date	Item Tested	Failed?	Time (min)	P (psi)		
CASING	STANDARD	11/27/2020	SURFACE, 1,084.2ftKB	No	30.00	1,000.0		
Kick Offs & Key Depths								
Date		Type	Top Depth (ftKB)	Depth Top (TVD) (ftKB)				
5/2/2021 04:00		KICK OFF	8,265.0	8,207.5				
Casing Strings								
Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)	
CONDUCTOR	128.0		20	H40	78.67			
SURFACE	1,084.2	1,083.9	13 3/8	K55	54.50	BTC	712.8	
INTERMEDIATE	8,160.0	8,102.5	9 5/8	L80	40.00	BTC	5,644.9	
Gas Emissions - Flare								
Type	Method	Dur (min)	Amount	Units	Com			
Job Supply Amounts								
Supply Item Des	Type	Unit Label	Received	Consumed	Returned	Note	Cum On Loc	Cum Consumed
DIESEL	FUEL	GAL	7,264	2,178			13,763	14,877.0
DIESEL	MUD	GAL	7,276	4,756		Mud Diesel	15,960	4,756.0
DIESEL	FUEL	GAL	300	0		Emergency tank	412	0.0
WATER	FRESH	BBL	0	0		Beginning: 248,295 End 248,295	0	4,980.0
Mud Additive Amounts								
Des	Type	Units	Rec	Consumed	On Loc	Cum Cons		
BARITE - BULK	WEIGHTING MATERIAL	TON	23	18	40.0	31		
BCI OBM PRIMARY	OIL MUD ADDITIVE	GAL		2	10.0	2		
BCI OBM WETTING AGENT	OIL MUD ADDITIVE	GAL		1	6.0	1		
CALCIUM CHLORIDE	SALT	LB	250	42	238.0	42		
GILSOCOL GP	SPECIALITY	LB		35	137.0	35		
LIME	ALKALINITY CONTROL	LB	250	66	255.0	75		
SOLTEX	FLUID LOSS ADDITIVES	LB		30	110.0	30		
Pump Operations								
Pump #	Make	Model	Liner Size (in)	Stroke (in)	Vol/Stk (bbl/stk)	P Max (psi)		
1	BOMCO	F1600	5 1/2	12.00	0.088	5,556.0		
2	BOMCO	F1600	5 1/2	12.00	0.088	5,556.0		
3	BOMCO	F1600	5 1/2	12.00	0.088	5,556.0		
Pump Checks								
Pump #	Depth (ftKB)	Time	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)		
Deviation Surveys								
Date	Description					Job		
	FINAL SURVEY							
Date	Description					Job		
11/19/2020	AS DRILL SURVEY					ODR, 11/19/2020 20:00		
Survey Data - All surveys for 24 hr reporting period								
MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	
8,378.00	8.60	352.55	8,319.84	725.57	728.71	-117.52	4.89	
8,472.00	17.95	353.60	8,411.23	746.92	750.12	-120.05	9.95	
8,566.00	26.26	353.61	8,498.24	781.93	785.24	-123.99	8.84	
8,659.00	34.58	354.10	8,578.37	828.57	832.02	-129.00	8.95	
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)	
ILP			-6,100.0		8,770.0			
TARGET_1			-6,175.0		8,845.0			
PBHL/TD			-6,190.0		8,860.0			
Daily Contacts								
Job Contact		Title	Office	Mobile	Email			
HARDIN, JOE, AREA DRILLING SUPERINTENDENT		AREA DRILLING SUPERINTENDENT	361-452-2118	361-318-8762	JOE.HARDIN@PXD.COM			
DAFFRON, MIKE, SUPERINTENDENT		SUPERINTENDENT	432-385-9242	318-243-5902	MIKE.DAFFRON@PXD.COM			
WAGNON, TIM, WELLSITE SUPERVISOR		WELLSITE SUPERVISOR		409-489-2208	TIM.WAGNON@PXD.COM			
SPACEK, KEITH, ENGINEER		ENGINEER	972-969-5932	972-741-1753	KEITH.SPACEK@PXD.COM			
ROGERS, WILL, WELLSITE SUPERVISOR		WELLSITE SUPERVISOR		806-549-1545	WILL.ROGERS@PXD.COM			
BORLAND, TOBY, WELLSITE SUPERVISOR		WELLSITE SUPERVISOR		432-305-6058	TOBY.BORLAND@PXD.COM			
JACKSON, MATTHEW, MUD ENGINEER		MUD ENGINEER	512-393-4397		MATTHEW.JACKSON@PXD.COM			
RIG-PATTERSON 804, RIG PHONE		RIG PHONE	432-355-3141	432-238-4084				
Daily Drilling Report			Page 3/4		Printed: Monday, May 3, 2021			

# Daily Drilling Report

**PATTERSON - UTI - 804**

**Accept: 4/27/2021**

**Release:**

Days Since LTI: 219.00

Days Since RI: 219.00

Job: ODR

<b>Report Date:</b>	<b>5/3/2021</b>
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Report #:	8
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DFS:	7
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**AFE #:** 9011466

<b>Total AFE + Sup:</b>	<b>\$2,596,759.42</b>
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<b>Daily Field Est. (Cost):</b>	<b>\$92,359.96</b>
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Personnel Log	
Company	Count
PIONEER NATURAL RESOURCES USA INC	2
PATTERSON-UTI DRILLING COMPANY LLC	13
INTREPID DIRECTIONAL DRILLING SPECIALISTS	3
GISLER BROTHERS LOGGING CO INC	2
CRESCENT DRILLING FOREMAN INC	2
HALLIBURTON ENERGY SERVICES INC	1

Daily Drilling Report

UNIVERSITY W2-34D 4H				PERMIAN - JV SOUTHERN WOLFCAMP	
PATTERSON - UTI - 804				Job:	ODR
Accept: 4/27/2021				Report Date:	5/4/2021
Days Since LTI: 220.00				Report #:	9
Release:				DFS:	8
Days Since RI: 220.00				AFE #:	9011466
				Total AFE + Sup:	\$2,596,759.42
				Daily Field Est. (Cost):	\$98,493.43

P/U/UWI 42-383-40906-0000		Well Profile HORIZONTAL		Open Formation WOLFCAMP B3 (WFMP B3)		Field Name SPRABERRY (TREND AREA)						
SSN ID00020510		Property Sub	KB-Grd (ft) 28.00	Orig KB Elev (ft) 2,670.00	Ground Elevation (ft) 2,642.00	Spud Date 11/19/2020		TD Date				
Jobs												
Responsible Grp 2 DRL ENG - KEITH SPACEK		Responsible Grp 3 AREA TEAM 4		Job Type ODR	Start Date 11/19/2020 20:00		End Date		Job Status IN PROGRESS			
Job Dates (ex. Estimated Pad Release, TXRRC Calls)												
Type			Subtype		Date		Note					
MILESTONE			ESTIMATED PAD RELEASE		5/10/2021		Drilling Lateral on 7th well of a 7 well pad (5-3-21)					
Daily Operations												
Footage/Meterage (ft) 447.00		Drilling Hours (hr) 10.00		% Rotating Time (%) 30.00		End Depth (ftKB) 9,177.0		Target Depth (ftKB) 18,794.0		Daily Field Est Total (Cost) 98,493.43	Cum Field Est To Date (Cost) 1,181,640.07	
24 HR ROP (ft/hr) 44.7		Circulating Hours (hr) 0.75		% Sliding Time (%) 70.00		End Depth (TVD) (ftKB) 8,777.9		Target Depth (TVD) (ftKB) 8,859.9		Daily Mud Field Est (Cost) 7,499.58	Cum Mud Field Est (Cost) 42,832.91	Total AFE + Sup (Cost) 2,596,759.42
Daily Goal Description DRILLED FEET				Daily Goal - Last 24 816.0				Daily Goal - Next 24 3,000.0		Goal Comments Goal Met		
Backbuild Yes		Lateral Inclination		Last Casing String INTERMEDIATE, 8,160.0ftKB				Next Casing String PROPOSED PRODUCTION, 19,488.0ftKB				
Avg Connection Gas 119.00		Avg Trip Gas 90.00		Avg Background Gas 142.00		Max Connection Gas 215.00		Max Trip Gas 90.00		Max Drill Gas 324.00		
Operations Summary Finish TIH, Build Curve F/8,708' - T/LP @ 9,089', Drill Prod Lateral F/9,089 - T/9,177' (0% sliding, NA avg lateral DLS, 15' below, 14' left , CUC, TOO H & L/D Curve BHA, P/U RSS, TIH T/8,024', Slip/Cut Drill Line												
Operations Next Report Period Finish Slip/Cut Drill Line, TIH w/RSS, Drill Prod Lateral F/9,177' - T/12,177' Per Plan #1 w/ HSE Events												
Operations at Report Time Slip/Cut Drill Line, TIH @ 8,024' w/RSS												
Remarks TD Inter: 4-30-21 @ 6:30 TD Production:  May. NPT: Cum: 9 hrs; Dly: 3.25 hrs Surf: 100% Int. 1: 100% Prod Vert: 100% Prod. Curve: 100% Prod. Lateral: 0% No Incidents or Spills Reported												
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	2.5	08:30	PROD, DRL CURVE	TIH_ELEV	NORMAL	TIH F/750' - T/8,200' . Monitor well with trip tanks, hole displacing properly		8,730.0	8,730.0	2.50	6	
08:30	0.25	08:45	PROD, DRL CURVE	HDL_ROT HD	NORMAL	Install rotating head		8,730.0	8,730.0	0.25	6	
08:45	0.25	09:00	PROD, DRL CURVE	TIH_ELEV	NORMAL	TIH F/8,200' - T/8,730' . Monitor well with trip tanks, hole displacing properly		8,730.0	8,730.0	0.25	6	
09:00	9	18:00	PROD, DRL CURVE	DRL	NORMAL	Slide & Rotate Drill 8.75" curve F/ 8,730' T/ 9,086' (356' @ 39.5 FPH) 452 / 600 GPM, 0 / 50 RPM, 2380 / 3650 SPP, 130 / 730 Diff, 30 - 48 K WOB,		8,730.0	9,086.0	0.25	6	
18:00	1.25	19:15	PROD, DRL LAT	DRL	NORMAL	Slide & Rotate Drill 8.75" lateral F/ 9,086' T/ 9,177' ( 91' @ 72.8' FPH) 452 / 600 GPM, 0 / 50 RPM, 2380 / 3650 SPP, 130 / 730 Diff, 30 - 48 K WOB,		9,086.0	9,177.0			
19:15	0.75	20:00	PROD, DRL LAT	CIRC	NORMAL	Circ. BU prior to TOO H for RSS lateral assembly.		9,177.0	9,177.0			
20:00	0.25	20:15	PROD, DRL LAT	FLOW_CHK	NORMAL	15 min flow check well static		9,177.0	9,177.0			
20:15	0.25	20:30	PROD, DRL LAT	TOOH_ELEV	NORMAL	TOOH Wet F/9,179" - T/8,719'. Monitor well with trip tanks hole taking proper fill. No excessive drag		9,177.0	9,177.0			
20:30	0.25	20:45	PROD, DRL LAT	HDL_ROT HD	NORMAL	Pump slug / Pull rotating head and install trip nipple		9,177.0	9,177.0			
20:45	2.5	23:15	PROD, DRL LAT	TOOH_ELEV	NORMAL	TOOH F/8,719' - T/87'. Monitor well with trip tanks hole taking proper fill. No excessive drag		9,177.0	9,177.0			
23:15	0.25	23:30	PROD, DRL LAT	SFTY	NORMAL	Flow check - R/D mud bucket & orgainize floor prior to BHA		9,177.0	9,177.0			
23:30	0.25	23:45	PROD, DRL LAT	SFTY	NORMAL	PJSM w/ Patterson, Intrepid and PNR rep on L/D curve assembly / Hole full & static		9,177.0	9,177.0			
23:45	0.75	00:30	PROD, DRL LAT	LD_DIR	NORMAL	L/D 2.25° curve assembly, drain motor,		9,177.0	9,177.0			
00:30	0.5	01:00	PROD, DRL LAT	RIG_SVC	NORMAL	Service rig - change out saver sub		9,177.0	9,177.0			
01:00	0.25	01:15	PROD, DRL LAT	SFTY	NORMAL	Clean & organize floor, prep for P/U RSS		9,177.0	9,177.0			
01:15	0.25	01:30	PROD, DRL LAT	SFTY	NORMAL	PJSM w/ Patterson, Intrepid and PNR rep on PU 8.5" Lateral RSS assembly		9,177.0	9,177.0			
01:30	1.5	03:00	PROD, DRL LAT	PU_DIR	NORMAL	PU 8.5" Lateral RSS assembly 6.75 Orbit RSS w/ 8 3/8 Stab, MWD Tool Carrier, 8.25" NM Stab, NM Pony, Filter Sub, 7.25" 7/8 6.9 Straight @ 0.00°, Tomax.		9,177.0	9,177.0			
Daily Drilling Report												
Page 1/4												
Printed: Tuesday, May 4, 2021												

# Daily Drilling Report

PATTERSON - UTI - 804	
Accept: 4/27/2021	Release:
Days Since LTI: 220.00	Days Since RI: 220.00

<b>PERMIAN - JV SOUTHERN WOLFCAMP</b>	
<b>Job:</b>	<b>ODR</b>
<b>Report Date:</b>	<b>5/4/2021</b>
<b>Report #:</b>	<b>9</b>
<b>DFS:</b>	<b>8</b>
<b>AFE #:</b>	<b>9011466</b>
<b>Total AFE + Sup:</b>	<b>\$2,596,759.42</b>
<b>Daily Field Est. (Cost):</b>	<b>\$98,493.43</b>

Interval Problems							
DIRECTIONAL, 8,719.0ftKB, 5/3/2021 00:15							
Ref #	Dur (N...	Ex...	Subtype	Problem Descript.	Est Cost OR (Cost)	Accountable Party	Comment
6	9.00	No	MOTOR	DOWNHOLE EQUIPMENT		BAKER HUGHES OILFIELD OPERATIONS INC	Unable to get required build rate needed to land on plan. Needing 15.09° to land & yielding 9.35°. Decision made to TOOH for a bail out assembly. Once on surface discovered bit had shoulder damage, Possibly due to cuttters left behind from 12 1/4" Baker bit bond failure

### BHA #4 , PRODUCTION - CURVE

## Drill String Components

## Mud Motors

## Sensors

### Drilling Parameters

**BHA #5 , PRODUCTION - LATERAL**

## Drill String Components

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Daily Drilling Report

Mud Motors																	
SN	Bend Angle		Bearing Type		Lobe Config		# Stages		Lwr DefIn Type		Bit To Bend						
XSS70066 / XS727869-036	0		NOT SEALED		7:8		6.9				0						
Sensors																	
Sensor Type			Sensor-Bit (ft)				Note										
DIRECTIONAL			24.00														
GAMMA			32.00														
Hydraulic Calculations																	
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)							
12.80	17.43	248.6	4.1	247.5	710.3	16.8	474.4	161.69	50.32	420.11							
Mud Checks																	
Time 17:00		Mud Company PIONEER DRILLING FLUIDS			Type OIL BASE		Depth (ftKB) 9,177.0		Density (lb/gal) 12.80		Funnel Viscosity (s/qt) 59		T Flowline (°F) 137.0				
PV (cP) 26.0	YP (lb/100ft²) 12.000	Vis 3rpm 8	Vis 6rpm 9	Filtrate (mL/30min)		HTHP Filtrate (mL/30min) 13.5		HTHP Temperature (°F) 250.0		HTHP Pressure (psi) 500.0							
Solids (%) 26.0		Low Gravity Solids (%) 9.6		Sand (%)		MBT (lb/bbl)		Pm (mL/mL)		Pf (mL/mL)							
Chlorides (ppm) 32,000,000.000		Calcium (ppm) 9,600,000.000		CaCl (ppm)		Oil Water Ratio 76.4/23.6		Electric Stab (V) 484.0		Lime (lb/bbl) 3.0		pH					
Gel 10 sec (lb/100ft²) 13.000				Gel 10 min (lb/100ft²) 28.000				Gel 30 min (lb/100ft²) 35.000									
Comment																	
RECOMMENDED FLUIDS TREATMENT																	
Dusting up active system as needed to maintain MW @ 12.8 ppg. Chemical usage: Lime 2.8 ppb, CaCl 1.8 ppb, Gilsonite 1.5 ppb, Soltex 1.2 ppb.																	
DRILLING FLUIDS ACTIVITY LAST 24 HRS																	
Displace well with 12.7 ppg OBM. Monitor shakers for cutting size and volume. Running centrifuge as needed to lower LGS%.																	
Last BOP Test																	
Date		Test Type			Item Tested			Next Test Date		Com							
4/27/2021		BOP			BOP'S, 4/27/2021 13:30, <class>			5/18/2021		Full BOP test							
Leak Off and Formation Integrity Tests																	
Test Type				Depth (ftKB)				Dens Fluid (lb/gal)									
FORMATION INTEGRITY				1,104.0				12.43									
FORMATION INTEGRITY				8,103.0				13.51									
Casing Pressure Test																	
Test Type		Test Subtype			Date		Item Tested			Failed?		Time (min)		P (psi)			
CASING		STANDARD			11/27/2020		SURFACE, 1,084.2ftKB			No		30.00		1,000.0			
Kick Offs & Key Depths																	
Date				Type			Top Depth (ftKB)			Depth Top (TVD) (ftKB)							
5/2/2021 04:00				KICK OFF			8,265.0			8,207.5							
5/3/2021 18:00				HEEL			9,086.0			8,774.8							
Casing Strings																	
Description		Set Depth (ftKB)		Set Depth (TVD) (ftKB)		OD (in)		Grade		Wt/Len (lb/ft)		Top Thread		P LeakOff (psi)			
CONDUCTOR		128.0				20		H40		78.67							
SURFACE		1,084.2		1,083.9		13 3/8		K55		54.50		BTC		712.8			
INTERMEDIATE		8,160.0		8,102.5		9 5/8		L80		40.00		BTC		5,644.9			
Gas Emissions - Flare																	
Type		Method		Dur (min)		Amount		Units		Com							
Job Supply Amounts																	
Supply Item Des		Type		Unit Label		Received		Consumed		Returned		Note		Cum On Loc		Cum Consumed	
DIESEL		FUEL		GAL		0		2,200				Rig Fuel		11,563		17,077.0	
DIESEL		MUD		GAL				3,780				Mud Diesel		12,180		8,536.0	
DIESEL		FUEL		GAL		0		0				Emergency tank		412		0.0	
WATER		FRESH		BBL		0		0				Beginning: 248,295 End 248,295		0		4,980.0	
Mud Additive Amounts																	
Des			Type		Units		Rec		Consumed		On Loc		Cum Cons				
BARITE - BULK			WEIGHTING MATERIAL		TON				26		14.0		57				
BENTONE 990			OIL MUD ADDITIVE		LB				5		61.0		5				
CALCIUM CHLORIDE			SALT		LB				50		188.0		92				
GILSOCOL GP			SPECIALITY		LB				9		128.0		44				
LIME			ALKALINITY CONTROL		LB				50		205.0		125				
SOLTEX			FLUID LOSS ADDITIVES		LB				10		100.0		40				
Pump Operations																	
Pump #		Make				Model		Liner Size (in)		Stroke (in)		Vol/Stk (bbl/stk)		P Max (psi)			
1		BOMCO				F1600		5 1/2		12.00		0.088		5,556.0			
2		BOMCO				F1600		5 1/2		12.00		0.088		5,556.0			
3		BOMCO				F1600		5 1/2		12.00		0.088		5,556.0			
Pump Checks																	
Pump #		Depth (ftKB)		Time		P (psi)		Strokes (spm)		Q Flow (gpm)		Eff (%)					
Deviation Surveys																	
Date		Description										Job					
		FINAL SURVEY															
Date 11/19/2020		Description AS DRILL SURVEY										Job ODR, 11/19/2020 20:00					
Daily Drilling Report																	

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Printed: Tuesday, May 4, 2021

# Daily Drilling Report

PATTERSON - UTI - 804	
Accept: 4/27/2021	Release:
Days Since LTI: 220.00	Days Since RI: 220.00

<b>PERMIAN - JV SOUTHERN WOLFCAMP</b>	
<b>Job:</b>	<b>ODR</b>
<b>Report Date:</b>	<b>5/4/2021</b>
<b>Report #:</b>	<b>9</b>
<b>DFS:</b>	<b>8</b>
<b>AFE #:</b>	<b>9011466</b>
<b>Total AFE + Sup:</b>	<b>\$2,596,759.42</b>
<b>Daily Field Est. (Cost):</b>	<b>\$98,493.43</b>

Daily Drilling Report Page 4/4 Printed: Tuesday, May 4, 2021

Daily Drilling Report

UNIVERSITY W2-34D 4H				PERMIAN - JV SOUTHERN WOLFCAMP			
PATTERSON - UTI - 804				Job: ODR			
Accept: 4/27/2021				Report Date: 5/5/2021			
Days Since LTI: 221.00				Report #: 10			
Release:				DFS: 9			
Days Since RI: 221.00				AFE #: 9011466			
				Total AFE + Sup: \$2,596,759.42			
				Daily Field Est. (Cost): \$70,625.04			

P/U/WVI 42-383-40906-0000		Well Profile HORIZONTAL		Open Formation WOLFCAMP B3 (WFMP B3)		Field Name SPRABERRY (TREND AREA)									
SSN ID00020510		Property Sub		KB-Grd (ft) 28.00		Orig KB Elev (ft) 2,670.00		Ground Elevation (ft) 2,642.00		Spud Date 11/19/2020		TD Date			
Jobs															
Responsible Grp 2		Responsible Grp 3		Job Type		Start Date		End Date		Job Status					
DRL ENG - KEITH SPACEK		AREA TEAM 4		ODR		11/19/2020 20:00				IN PROGRESS					
Job Dates (ex. Estimated Pad Release, TXRRC Calls)															
Type				Subtype		Date		Note							
MILESTONE				ESTIMATED PAD RELEASE		5/10/2021		Drilling Lateral on 7th well of a 7 well pad (5-3-21)							
Daily Operations															
Footage/Meterage (ft) 2,759.00		Drilling Hours (hr) 16.75		% Rotating Time (%) 100.00		End Depth (ftKB) 11,936.0		Target Depth (ftKB) 18,794.0		Daily Field Est Total (Cost) 70,625.04		Cum Field Est To Date (Cost) 1,252,265.11			
24 HR ROP (ft/hr) 164.7		Circulating Hours (hr) 0.75		% Sliding Time (%) 0.00		End Depth (TVD) (ftKB) 8,807.1		Target Depth (TVD) (ftKB) 8,859.9		Daily Mud Field Est (Cost) 8,575.66		Cum Mud Field Est (Cost) 51,408.56		Total AFE + Sup (Cost) 2,596,759.42	
Daily Goal Description DRILLED FEET				Daily Goal - Last 24 3,000.0				Daily Goal - Next 24 3,750.0				Goal Comments Not Met			
Backbuild Yes		Lateral Inclination		Last Casing String INTERMEDIATE, 8,160.0ftKB						Next Casing String PROPOSED PRODUCTION, 19,488.0ftKB					
Avg Connection Gas 472.00		Avg Trip Gas 308.00		Avg Background Gas 412.00		Max Connection Gas 706.00		Max Trip Gas 308.00		Max Drill Gas 683.00					
Operations Summary Finish Slip/Cut Drill Line, TIH w/RSS F/8,024' - T/8,720', W/R F/8,720' - T/9,177', Downlink RSS, Drill Prod Lateral F/9,177' - T/11,936' (RSS, .98° avg lateral DLS, 6.91' above, 5.82' left)															
Operations Next Report Period Drill Prod Lateral F/11,936' - T/15,686' Per Plan #1 w/No HSE Events															
Operations at Report Time Drilling Prod Lateral @ 11,936'															
Remarks TD Inter: 4-30-21 @ 6:30 TD Production:  May. NPT: Cum: 9 hrs; Dly: 0 hrs Surf: 100% Int. 1: 100% Prod Vert: 100% Prod. Curve: 100% Prod. Lateral: 32% Incidents or Spills Reported: Heat Related Illness															
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	2	08:00	PROD, DRL LAT	TIH_ELEV	NORMAL	TIH F/ 8,024' - T/ 8,720' . Monitor well with trip tanks, hole displacing properly.  Started taking weight @ 8,720'. Wash down remaining stands.			9,177.0	9,177.0					
08:00	1.75	09:45	PROD, DRL LAT	TIH_NONELEV	NORMAL	Wash F/8,720' - T/9,177'. 450 gpm, 0 - 15 rpm Full returns.			9,177.0	9,177.0					
09:45	2.5	12:15	PROD, DRL LAT	CIRC	NORMAL	Down link RSS to 88.4° hold. Had to set in neutral and hold twice to verify proper function			9,177.0	9,177.0					
12:15	12.5	00:45	PROD, DRL LAT	DRL	NORMAL	Rotate Drill 8.5" lateral F/ 9,177' - T/11,467' ( 2290' @ 183' fph) 550-600 GPM, 100 RPM, 4300-4600 SPP, 550-800 Diff, 30 - 35K WOB,			9,177.0	11,467.0					
00:45	0.25	01:00	PROD, DRL LAT	CIRC	NORMAL	Take SCR, P/U & S/O weights			11,467.0	11,467.0					
01:00	0.5	01:30	PROD, DRL LAT	CIRC	NORMAL	Rig Service			11,467.0	11,467.0					
01:30	4.5	06:00	PROD, DRL LAT	DRL	NORMAL	Rotate Drill 8.5" lateral F/11,467' - T/11,936' (469' @ 104' FPH) 575-600 GPM, 100 RPM, 4300-4600 SPP, 600-900 Diff, 30 - 35K WOB,			11,467.0	11,936.0					
Drill Strings															
BHA #5 , PRODUCTION - LATERAL															
Bit Run 5			Drill Bit 8 1/2in, D507TX, 5317835					Bit Type PDC		Make GE/BAKER HUGHES					
Nozzles (1/32") 13/13/12/12/12/12			Bit Total Fluid Area (nozzles) (in²) 0.81			IADC Bit Dull -----		Hours Drilled By Bit (hr) 16.75		Depth Drilled By Bit (ft) 2,759.00					
BHA Drilling Time (hr) 16.75			BHA Depth Drilled (ft) 2,759.00			BHA ROP (ft/hr) 164.7		Depth In (ftKB) 9,177.0		Depth Out (ftKB) 11,936.0					
Drill String Components															
Jts	Item Des			OD (in)	ID (in)	Len (ft)	Cum Len (ft)	Wt (lbf)	Cum Wt (1000lbf)	Make					
372	DRILL PIPE			5	4.27	11,721.12	11,936.00	228,561.8	234	RIG					
3	HWDP - SPIRALED			5	3.00	90.00	214.88	5,220.0	5	RIG					
1	ANTI-STALL TOOL			6 3/4	2.75	17.06	124.88		0	TOMAX					
1	MOTOR - TRUE SLICK			7 1/4	1.75	32.00	107.82		0	INTREPID					
1	SUB - FILTER			6 7/8	3.25	5.24	75.82		0	INTREPID					
1	DRILL COLLAR - PONY, NON MAG			6 1/2	3.19	13.86	70.58		0	INTREPID					
1	STABILIZER			6 7/8	3.25	5.14	56.72		0	INTREPID					
1	HANG OFF SUB			6 11/16	3.25	36.58	51.58		0	INTREPID					
1	RSS TOOL			6 3/4	2.19	14.00	15.00		0	INTREPID					
Mud Motors															
SN	Bend Angle		Bearing Type		Lobe Config		# Stages		Lwr Defin Type		Bit To Bend				
XSS70066 / XS727869-036	0		NOT SEALED		7:8		6.9				0				
Daily Drilling Report															

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Daily Drilling Report

Sensors																							
Sensor Type			Sensor-Bit (ft)					Note															
DIRECTIONAL			24.00																				
GAMMA			32.00																				
Drilling Parameters																							
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 Average (ft/hr)	Drill Str Wt (1000lbf)	PU Str Wt (1000lbf)	SO Str Wt (1000lbf)	Off-Btm Str Wt (1000lbf)	Drill Tq	Off Btm Tq	TFO (°)						
12:30	14:55	9,177.0	335.00	138.6	30	80	700.0	585	4,550.0	138.6	192	210	175	192	12,000.0	4,500.0	0						
14:55	19:30	9,512.0	843.00	183.9	37	100	890.0	585	4,700.0	183.9	200	235	175	200	17,900.0	5,000.0	0						
19:30	21:30	10,355.0	429.00	214.5	35	100	900.0	585	5,150.0	214.5	183	260	150	183	19,000.0	6,500.0	0						
21:30	00:45	10,784.0	683.00	210.2	37	100	850.0	585	5,250.0	210.2	190	255	155	190	19,500.0	6,500.0	0						
00:45	01:30	11,467.0	0.00		0	30	0.0	585	4,200.0	0.0	183	260	150	183	0.0	6,500.0	0						
01:30	04:00	11,467.0	301.00	120.4	37	100	890.0	585	5,350.0	120.4	186	260	150	186	19,500.0	6,500.0	0						
04:00	06:00	11,768.0	168.00	84.0	37	100	800.0	585	5,325.0	84.0	183	260	150	183	19,000.0	6,500.0	0						
Hydraulic Calculations																							
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)			
12.80		13.46		211.7		3.7		231.3		620.3		16.4		728.3		209.29		175.97		420.11			
Mud Checks																							
Time 17:00		Mud Company PIONEER DRILLING FLUIDS				Type OIL BASE			Depth (ftKB) 10,153.0		Density (lb/gal) 12.80		Funnel Viscosity (s/qt) 62		T Flowline (°F) 135.0								
PV (cP) 24.0		YP (lbf/100ft²) 11.000		Vis 3rpm 8		Vis 6rpm 9		Filtrate (mL/30min)		HTHP Filtrate (mL/30min) 12.0			HTHP Temperature (°F) 250.0			HTHP Pressure (psi) 500.0							
Solids (%) 26.0				Low Gravity Solids (%) 9.3			Sand (%)			MBT (lb/bbl)			Pm (mL/mL)			Pf (mL/mL)							
Chlorides (ppm) 33,000,000.000				Calcium (ppm) 9,600,000.000			CaCl (ppm)		Oil Water Ratio 78/22			Electric Stab (V) 484.0			Lime (lb/bbl) 4.1			pH					
Gel 10 sec (lbf/100ft²) 11.000							Gel 10 min (lbf/100ft²) 27.000							Gel 30 min (lbf/100ft²) 30.000									
Comment RECOMMENDED FLUIDS TREATMENT Dusting up active system as needed to maintain MW @ 12.8 ppg. Diesel @ 4.8 bph , Water @ 1.2 bph. Chemical usage: Lime 1.08 ppb, Gilsonite .54 ppb, Soltex .54 ppb, Bentone 910 .21 ppb, Primary .31 ppb, Rheo Modifier .31 ppb.																							
DRILLING FLUIDS ACTIVITY LAST 24 HRS Adding treatment in slug tank, mixing for one hour, then adding to active system over an hour. Running centrifuge as needed to lower LGS. Monitor shakers for holes and cuttings. Received two loads of bulk bar from Buckeye.																							
Last BOP Test																							
Date		Test Type				Item Tested				Next Test Date		Com											
4/27/2021		BOP				BOP'S, 4/27/2021 13:30, <class>				5/18/2021		Full BOP test											
Leak Off and Formation Integrity Tests																							
Test Type					Depth (ftKB)					Dens Fluid (lb/gal)													
FORMATION INTEGRITY					1,104.0					12.43													
FORMATION INTEGRITY					8,103.0					13.51													
Casing Pressure Test																							
Test Type			Test Subtype					Date		Item Tested				Failed?	Time (min)		P (psi)						
CASING			STANDARD					11/27/2020		SURFACE, 1,084.2ftKB				No	30.00		1,000.0						
Kick Offs & Key Depths																							
Date						Type					Top Depth (ftKB)				Depth Top (TVD) (ftKB)								
5/2/2021 04:00						KICK OFF					8,265.0				8,207.5								
5/3/2021 18:00						HEEL					9,086.0				8,774.8								
Casing Strings																							
Description		Set Depth (ftKB)		Set Depth (TVD) (ftKB)		OD (in)		Grade		Wt/Len (lb/ft)		Top Thread		P LeakOff (psi)									
CONDUCTOR		128.0				20		H40		78.67													
SURFACE		1,084.2		1,083.9		13 3/8		K55		54.50		BTC		712.8									
INTERMEDIATE		8,160.0		8,102.5		9 5/8		L80		40.00		BTC		5,644.9									
Gas Emissions - Flare																							
Type		Method		Dur (min)		Amount		Units		Com													
Job Supply Amounts																							
Supply Item Des			Type		Unit Label		Received		Consumed		Returned		Note			Cum On Loc		Cum Consumed					
DIESEL			FUEL		GAL		0		3,281				Rig Fuel			8,282		20,358.0					
DIESEL			MUD		GAL				2,100				Mud Diesel			10,080		10,636.0					
DIESEL			FUEL		GAL		0		0				Emergency tank			412		0.0					
WATER			FRESH		BBL		0		0				Beginning: 248,295 End 248,295			0		4,980.0					
Mud Additive Amounts																							
Des				Type		Units		Rec		Consumed		On Loc		Cum Cons									
BARITE - BULK				WEIGHTING MATERIAL		TON		42		21		35.0		79									
BCI OBM PRIMARY				OIL MUD ADDITIVE		GAL				1		9.0		3									
BCI OBM RHEO MODIFIER				OIL MUD ADDITIVE		GAL				1		3.0		1									
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Mud Additive Amounts							
Des	Type	Units	Rec	Consumed	On Loc	Cum Cons	
BENTONE 910	OIL MUD ADDITIVE	LB		6	52.0	6	
GILSOCOL GP	SPECIALITY	LB		15	113.0	59	
LIME	ALKALINITY CONTROL	LB		30	175.0	155	
SOLTEX	FLUID LOSS ADDITIVES	LB		15	85.0	55	
TRANSPORTATION	MISCELLANEOUS	EA	1,370	1,370	0.0	2,055	
Pump Operations							
Pump #	Make	Model	Liner Size (in)	Stroke (in)	Vol/Stk (bbl/stk)	P Max (psi)	
1	BOMCO	F1600	5 1/2	12.00	0.088	5,556.0	
2	BOMCO	F1600	5 1/2	12.00	0.088	5,556.0	
3	BOMCO	F1600	5 1/2	12.00	0.088	5,556.0	
Pump Checks							
Pump #	Depth (ftKB)	Time	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)	
1	11,432.0	04:43	452.0	30	106	95	
1	11,432.0	04:43	563.0	40	141	95	
1	11,432.0	04:43	665.0	50	176	95	
2	11,432.0	04:43	642.0	50	176	95	
2	11,432.0	04:43	545.0	40	141	95	
2	11,432.0	04:43	444.0	30	106	95	
Deviation Surveys							
Date	Description				Job		
	FINAL SURVEY						
Date	Description				Job		
11/19/2020	AS DRILL SURVEY				ODR, 11/19/2020 20:00		
Survey Data - All surveys for 24 hr reporting period							
MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
9,187.00	88.23	2.01	8,778.28	1,288.54	1,292.10	-127.46	1.45
9,281.00	89.08	2.10	8,780.48	1,382.51	1,386.01	-124.09	0.91
9,374.00	89.29	1.02	8,781.81	1,475.50	1,478.97	-121.55	1.18
9,468.00	89.71	0.96	8,782.63	1,569.49	1,572.95	-119.93	0.45
9,562.00	89.68	3.85	8,783.13	1,663.47	1,666.85	-115.99	3.07
9,656.00	89.27	2.97	8,783.99	1,757.41	1,760.68	-110.40	1.03
9,749.00	89.46	2.99	8,785.02	1,850.37	1,853.55	-105.56	0.21
9,843.00	89.01	3.12	8,786.27	1,944.32	1,947.41	-100.55	0.50
9,937.00	89.36	3.21	8,787.61	2,038.27	2,041.26	-95.36	0.38
10,030.00	89.66	2.96	8,788.41	2,131.22	2,134.12	-90.36	0.42
10,124.00	89.46	3.35	8,789.13	2,225.18	2,227.97	-85.18	0.47
10,217.00	89.24	3.37	8,790.18	2,318.12	2,320.81	-79.73	0.24
10,310.00	89.32	3.47	8,791.35	2,411.05	2,413.63	-74.19	0.14
10,404.00	89.72	3.14	8,792.14	2,505.00	2,507.47	-68.77	0.55
10,498.00	89.40	1.07	8,792.86	2,598.99	2,601.40	-65.32	2.23
10,592.00	89.73	0.68	8,793.58	2,692.98	2,695.39	-63.88	0.54
10,685.00	89.41	0.87	8,794.27	2,785.97	2,788.38	-62.62	0.40
10,778.00	89.36	1.03	8,795.27	2,878.96	2,881.36	-61.08	0.18
10,872.00	89.54	0.69	8,796.17	2,972.95	2,975.34	-59.67	0.41
10,966.00	89.04	358.04	8,797.34	3,066.88	3,069.32	-60.71	2.87
11,060.00	89.24	358.61	8,798.75	3,160.73	3,163.27	-63.46	0.64
11,153.00	89.29	0.81	8,799.94	3,253.67	3,256.26	-63.93	2.37
11,247.00	89.36	0.56	8,801.05	3,347.66	3,350.24	-62.80	0.28
11,341.00	89.29	0.85	8,802.16	3,441.64	3,444.23	-61.65	0.32
11,435.00	89.76	2.23	8,802.94	3,535.64	3,538.19	-59.12	1.55
11,528.00	88.33	359.81	8,804.49	3,628.61	3,631.15	-57.47	3.02
11,623.00	89.17	0.64	8,806.56	3,723.57	3,726.13	-57.09	1.24
11,716.00	89.69	1.68	8,807.48	3,816.56	3,819.10	-55.21	1.25
11,810.00	90.20	0.37	8,807.58	3,910.56	3,913.09	-53.53	1.50
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			-6,175.0		8,845.0		
PBHL/TD			-6,190.0		8,860.0		
Daily Contacts							
Job Contact		Title	Office	Mobile	Email		
HARDIN, JOE, AREA DRILLING SUPERINTENDENT		AREA DRILLING SUPERINTENDENT	361-452-2118	361-318-8762	JOE.HARDIN@PXD.COM		
DAFFRON, MIKE, SUPERINTENDENT		SUPERINTENDENT	432-385-9242	318-243-5902	MIKE.DAFFRON@PXD.COM		
WAGNON, TIM, WELLSITE SUPERVISOR		WELLSITE SUPERVISOR		409-489-2208	TIM.WAGNON@PXD.COM		
SPACEK, KEITH, ENGINEER		ENGINEER	972-969-5932	972-741-1753	KEITH.SPACEK@PXD.COM		
ROGERS, WILL, WELLSITE SUPERVISOR		WELLSITE SUPERVISOR		806-549-1545	WILL.ROGERS@PXD.COM		
BORLAND, TOBY, WELLSITE SUPERVISOR		WELLSITE SUPERVISOR		432-305-6058	TOBY.BORLAND@PXD.COM		
JACKSON, MATTHEW, MUD ENGINEER		MUD ENGINEER	512-393-4397		MATTHEW.JACKSON@PXD.COM		
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# Daily Drilling Report

PATTERSON - UTI - 804	
Accept: 4/27/2021	Release:
Days Since LTI: 221.00	Days Since RI: 221.00

<b>PERMIAN - JV SOUTHERN WOLFCAMP</b>	
<b>Job:</b>	<b>ODR</b>
<b>Report Date:</b>	<b>5/5/2021</b>
<b>Report #:</b>	<b>10</b>
<b>DFS:</b>	<b>9</b>
<b>AFE #:</b>	<b>9011466</b>
<b>Total AFE + Sup:</b>	<b>\$2,596,759.42</b>
<b>Daily Field Est. (Cost):</b>	<b>\$70,625.04</b>

Daily Contacts				
Job Contact	Title	Office	Mobile	Email
RIG-PATTERSON 804, RIG PHONE	RIG PHONE	432-355-3141	432-238-4084	

  

Personnel Log	
Company	Count
PIONEER NATURAL RESOURCES USA INC	2
PATTERSON-UTI DRILLING COMPANY LLC	13
INTREPID DIRECTIONAL DRILLING SPECIALISTS	3
GISLER BROTHERS LOGGING CO INC	2
CRESCENT DRILLING FOREMAN INC	2
HALLIBURTON ENERGY SERVICES INC	1

Daily Drilling Report

UNIVERSITY W2-34D 4H				PERMIAN - JV SOUTHERN WOLFCAMP	
PATTERSON - UTI - 804				Job:	ODR
Accept: 4/27/2021				Report Date:	5/6/2021
Days Since LTI: 995.00				Report #:	11
Release:				DFS:	10
Days Since RI: 222.00				AFE #:	9011466
				Total AFE + Sup:	\$2,596,759.42
				Daily Field Est. (Cost):	\$121,415.16

PWI/UWI 42-383-40906-0000		Well Profile HORIZONTAL		Open Formation WOLFCAMP B3 (WFMP B3)		Field Name SPRABERRY (TREND AREA)					
SSN ID00020510	Property Sub	KB-Grd (ft) 28.00	Orig KB Elev (ft) 2,670.00	Ground Elevation (ft) 2,642.00	Spud Date 11/19/2020	TD Date					
Jobs											
Responsible Grp 2		Responsible Grp 3		Job Type	Start Date	End Date	Job Status				
DRL ENG - KEITH SPACEK		AREA TEAM 4		ODR	11/19/2020 20:00		IN PROGRESS				
Job Dates (ex. Estimated Pad Release, TXRRC Calls)											
Type		Subtype		Date	Note						
MILESTONE		ESTIMATED PAD RELEASE		5/10/2021	Drilling Lateral on 7th well of a 7 well pad (5-5-21)						
Daily Operations											
Footage/Meterage (ft) 3,376.00		Drilling Hours (hr) 23.00		% Rotating Time (%) 100.00		End Depth (ftKB) 15,312.0	Target Depth (ftKB) 18,794.0	Daily Field Est Total (Cost) 121,415.16	Cum Field Est To Date (Cost) 1,442,647.72		
24 HR ROP (ft/hr) 146.8		Circulating Hours (hr) 1.00		% Sliding Time (%) 0.00		End Depth (TVD) (ftKB) 8,846.8	Target Depth (TVD) (ftKB) 8,859.9	Daily Mud Field Est (Cost) 12,384.33	Cum Mud Field Est (Cost) 62,813.59	Total AFE + Sup (Cost) 2,596,759.42	
Daily Goal Description DRILLED FEET				Daily Goal - Last 24 3,750.0		Daily Goal - Next 24 3,000.0		Goal Comments Not Met			
Backbuild Yes		Lateral Inclination		Last Casing String INTERMEDIATE, 8,160.0ftKB			Next Casing String PROPOSED PRODUCTION, 19,488.0ftKB				
Avg Connection Gas 586.00		Avg Trip Gas 0.00		Avg Background Gas 542.00		Max Connection Gas 1,413.00		Max Trip Gas 0.00		Max Drill Gas 1,055.00	
Operations Summary Drill Prod Lateral F/11,936' - T/15,312' (RSS, 1.27° avg lateral DLS, 4' below, 9.03' left)											
Operations Next Report Period Drill Prod Lateral F/15,312" - T/18,312' Per Plan #1 w/No HSE Events											
Operations at Report Time Drilling Prod Lateral @ 15,312'											
Remarks TD Inter: 4-30-21 @ 6:30 TD Production:  May. NPT: Cum: 9 hrs; Dly: 0 hrs Surf: 100% Int. 1: 100% Prod Vert: 100% Prod. Curve: 100% Prod. Lateral: 63% No Incidents or Spills Reported											
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	10.75	16:45	PROD, DRL LAT	DRL	NORMAL	Rotate Drill 8.5" lateral F/11,936' - T/13,526' (1590' @ 148' FPH) 585 GPM, 100 RPM, 4300-4600 SPP, 600-900 Diff, 30 - 35K WOB, 20-24 Tq	11,936.0	13,526.0			
16:45	0.5	17:15	PROD, DRL LAT	RIG_SVC	NORMAL	Rig service	13,526.0	13,526.0			
17:15	1.5	18:45	PROD, DRL LAT	DRL	NORMAL	Rotate Drill 8.5" lateral F/13,526' - T/13,718' (192' @ 128' FPH) 585 GPM, 100 RPM, 4300-4600 SPP, 600-900 Diff, 30 - 35K WOB,	13,526.0	13,526.0			
18:45	0.25	19:00	PROD, DRL LAT	CIRC	NORMAL	Circ - Record SCR's, P/U & S/O weights	13,526.0	13,526.0			
19:00	8.5	03:30	PROD, DRL LAT	DRL	NORMAL	Rotate Drill 8.5" lateral F/13,718' - T/15,030' (1,504' @ 177' FPH) 585 GPM, 100 RPM, 4300-4600 SPP, 700-900 Diff, 32 - 37K WOB, 20-24 Tq	13,526.0	15,030.0			
03:30	0.25	03:45	PROD, DRL LAT	CIRC	NORMAL	Circ - Record SCR's, P/U & S/O weights	15,030.0	15,030.0			
03:45	2.25	06:00	PROD, DRL LAT	DRL	NORMAL	Rotate Drill 8.5" lateral F/15,030' - T/15,312' (282' @ 125' FPH) 585 GPM, 100 RPM, 4300-4600 SPP, 700-900 Diff, 32 - 37K WOB, 20-24 Tq	15,030.0	15,312.0			
Drill Strings											
BHA #5 , PRODUCTION - LATERAL											
Bit Run 5			Drill Bit 8 1/2in, D507TX, 5317835				Bit Type PDC		Make GE/BAKER HUGHES		
Nozzles (1/32") 13/13/12/12/12/12			Bit Total Fluid Area (nozzles) (in²) 0.81		IADC Bit Dull -----		Hours Drilled By Bit (hr) 39.75		Depth Drilled By Bit (ft) 6,135.00		
BHA Drilling Time (hr) 39.75			BHA Depth Drilled (ft) 6,135.00		BHA ROP (ft/hr) 154.3		Depth In (ftKB) 9,177.0		Depth Out (ftKB) 15,312.0		
Drill String Components											
Jts	Item Des			OD (in)	ID (in)	Len (ft)	Cum Len (ft)	Wt (lbf)	Cum Wt (1000lbf)	Make	
479	DRILL PIPE			5	4.27	15,097.12	15,312.00	294,393.8	300	RIG	
3	HWDP - SPIRALED			5	3.00	90.00	214.88	5,220.0	5	RIG	
1	ANTI-STALL TOOL			6 3/4	2.75	17.06	124.88		0	TOMAX	
1	MOTOR - TRUE SLICK			7 1/4	1.75	32.00	107.82		0	INTREPID	
1	SUB - FILTER			6 7/8	3.25	5.24	75.82		0	INTREPID	
1	DRILL COLLAR - PONY, NON MAG			6 1/2	3.19	13.86	70.58		0	INTREPID	
1	STABILIZER			6 7/8	3.25	5.14	56.72		0	INTREPID	
1	HANG OFF SUB			6 11/16	3.25	36.58	51.58		0	INTREPID	
1	RSS TOOL			6 3/4	2.19	14.00	15.00		0	INTREPID	
Mud Motors											
SN		Bend Angle		Bearing Type		Lobe Config		# Stages		Lwr Defin Type	Bit To Bend
XSS70066 / XS727869-036		0		NOT SEALED		7:8		6.9			0
Daily Drilling Report											

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Printed: Thursday, May 6, 2021



Daily Drilling Report

Gas Emissions - Flare								
Type	Method	Dur (min)	Amount	Units	Com			
Job Supply Amounts								
Supply Item Des	Type	Unit Label	Received	Consumed	Returned	Note	Cum On Loc	Cum Consumed
DIESEL	FUEL	GAL	0	3,841		Rig Fuel	4,441	24,199.0
DIESEL	MUD	GAL	0	5,922		Mud Diesel	4,158	16,558.0
DIESEL	FUEL	GAL	0	0		Emergency tank	412	0.0
WATER	FRESH	BBL	0	0		Beginning: 248,295 End 248,295	0	4,980.0
Mud Additive Amounts								
Des	Type	Units	Rec	Consumed	On Loc	Cum Cons		
BARITE - BULK	WEIGHTING MATERIAL	TON	19	14	40.0	93		
BCI OBM SECONDARY	OIL MUD ADDITIVE	GAL		1	3.0	1		
BCI OBM WETTING AGENT	OIL MUD ADDITIVE	GAL		1	5.0	2		
BENTONE 990	OIL MUD ADDITIVE	LB		10	51.0	15		
CALCIUM CHLORIDE	SALT	LB		38	150.0	130		
GILSOCOL GP	SPECIALITY	LB		13	100.0	72		
LIME	ALKALINITY CONTROL	LB		20	155.0	175		
PALLET	MISCELLANEOUS	EA	14	14	0.0	28		
SHRINK WRAP	MISCELLANEOUS	EA	14	14	0.0	26		
SOLTEX	FLUID LOSS ADDITIVES	LB		15	70.0	70		
TRANSPORTATION	MISCELLANEOUS	EA	5,460	5,160	300.0	7,215		
Pump Operations								
Pump #	Make	Model	Liner Size (in)	Stroke (in)	Vol/Stk (bbl/stk)	P Max (psi)		
1	BOMCO	F1600	5 1/2	12.00	0.088	5,556.0		
2	BOMCO	F1600	5 1/2	12.00	0.088	5,556.0		
3	BOMCO	F1600	5 1/2	12.00	0.088	5,556.0		
Pump Checks								
Pump #	Depth (ftKB)	Time	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)		
Deviation Surveys								
Date	Description					Job		
	FINAL SURVEY							
Date	Description					Job		
11/19/2020	AS DRILL SURVEY					ODR, 11/19/2020 20:00		
Survey Data - All surveys for 24 hr reporting period								
MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	
11,998.00	89.73	0.52	8,807.68	4,098.54	4,101.07	-51.24	0.52	
12,091.00	89.38	1.44	8,808.40	4,191.53	4,194.05	-49.65	1.06	
12,185.00	89.54	1.15	8,809.29	4,285.53	4,288.02	-47.53	0.35	
12,278.00	89.38	1.87	8,810.17	4,378.52	4,380.99	-45.08	0.79	
12,374.00	89.45	358.10	8,811.15	4,474.47	4,476.96	-45.10	3.93	
12,468.00	88.40	357.19	8,812.91	4,568.25	4,570.87	-48.96	1.48	
12,561.00	88.01	1.60	8,815.83	4,661.12	4,663.79	-49.94	4.76	
12,656.00	89.22	4.07	8,818.12	4,756.06	4,758.64	-45.25	2.89	
12,750.00	89.39	3.42	8,819.26	4,849.97	4,852.43	-39.11	0.71	
12,844.00	89.23	2.48	8,820.39	4,943.93	4,946.30	-34.27	1.01	
12,937.00	89.71	3.30	8,821.25	5,036.89	5,039.18	-29.58	1.02	
13,032.00	89.47	3.69	8,821.93	5,131.83	5,134.00	-23.79	0.48	
13,125.00	89.51	3.65	8,822.76	5,224.75	5,226.80	-17.84	0.06	
13,219.00	89.60	3.43	8,823.49	5,318.69	5,320.62	-12.03	0.25	
13,313.00	90.15	4.71	8,823.70	5,412.58	5,414.38	-5.36	1.48	
13,407.00	89.71	2.15	8,823.81	5,506.52	5,508.20	0.26	2.76	
13,500.00	89.60	359.71	8,824.37	5,599.51	5,601.18	1.77	2.63	
13,594.00	88.82	1.99	8,825.67	5,693.49	5,695.16	3.16	2.56	
13,688.00	88.07	5.32	8,828.22	5,787.37	5,788.92	9.15	3.63	
13,781.00	88.10	3.99	8,831.33	5,880.16	5,881.56	16.70	1.43	
13,875.00	89.76	3.79	8,833.08	5,974.06	5,975.32	23.07	1.78	
13,969.00	89.57	3.29	8,833.63	6,067.99	6,069.14	28.88	0.57	
14,008.00	89.54	1.91	8,833.94	6,106.98	6,108.10	30.65	3.54	
14,062.00	89.43	1.06	8,834.42	6,160.98	6,162.08	32.04	1.59	
14,156.00	89.08	358.32	8,835.64	6,254.92	6,256.06	31.54	2.94	
14,250.00	89.51	359.06	8,836.80	6,348.80	6,350.02	29.39	0.91	
14,344.00	89.55	0.02	8,837.57	6,442.75	6,444.02	28.63	1.02	
14,438.00	89.38	358.99	8,838.45	6,536.69	6,538.01	27.82	1.11	
14,531.00	89.23	359.56	8,839.58	6,629.62	6,630.99	26.64	0.63	
14,625.00	89.66	359.93	8,840.49	6,723.57	6,724.99	26.23	0.60	
14,718.00	88.84	358.91	8,841.70	6,816.51	6,817.97	25.28	1.41	
14,812.00	89.50	359.51	8,843.07	6,910.43	6,911.95	23.99	0.95	
Daily Drilling Report			Page 3/4			Printed: Thursday, May 6, 2021		

# Daily Drilling Report

PATTERSON - UTI - 804	
Accept: 4/27/2021	Release:
Days Since LTI: 995.00	Days Since RI: 222.00

<b>PERMIAN - JV SOUTHERN WOLFCAMP</b>	
<b>Job:</b>	<b>ODR</b>
<b>Report Date:</b>	<b>5/6/2021</b>
<b>Report #:</b>	<b>11</b>
<b>DFS:</b>	<b>10</b>
<b>AFE #:</b>	<b>9011466</b>
<b>Total AFE + Sup:</b>	<b>\$2,596,759.42</b>
<b>Daily Field Est. (Cost):</b>	<b>\$121,415.16</b>

Daily Drilling Report Page 4/4 Printed: Thursday, May 6, 2021



Daily Drilling Report

UNIVERSITY W2-34D 4H

PATTERSON - UTI - 804

Accept: 4/27/2021      Release:

Days Since LTI: 996.00      Days Since RI: 1.00

PERMIAN - JV SOUTHERN WOLFCAMP

Job: ODR

Report Date: 5/7/2021

Report #: 12

DFS: 11

AFE #: 9011466

Total AFE + Sup: \$2,596,759.42

Daily Field Est. (Cost): \$151,345.46

P/I/UWI 42-383-40906-0000		Well Profile HORIZONTAL		Open Formation WOLFCAMP B3 (WFMP B3)		Field Name SPRABERRY (TREND AREA)				
SSN ID00020510		Property Sub	KB-Grd (ft) 28.00	Orig KB Elev (ft) 2,670.00	Ground Elevation (ft) 2,642.00	Spud Date 11/19/2020		TD Date		
Jobs										
Responsible Grp 2 DRL ENG - KEITH SPACEK		Responsible Grp 3 AREA TEAM 4		Job Type ODR	Start Date 11/19/2020 20:00		End Date		Job Status IN PROGRESS	
Job Dates (ex. Estimated Pad Release, TXRRC Calls)										
Type MILESTONE			Subtype ESTIMATED PAD RELEASE		Date 5/10/2021		Note Drilling Lateral on 7th well of a 7 well pad (5-5-21)			
Daily Operations										
Footage/Meterage (ft) 2,159.00		Drilling Hours (hr) 19.50		% Rotating Time (%) 100.00		End Depth (ftKB) 17,471.0		Target Depth (ftKB) 18,794.0		
						Daily Field Est Total (Cost) 151,345.46		Cum Field Est To Date (Cost) 1,593,993.18		
24 HR ROP (ft/hr) 110.7		Circulating Hours (hr) 4.50		% Sliding Time (%) 0.00		End Depth (TVD) (ftKB) 8,847.5		Target Depth (TVD) (ftKB) 8,859.9		
						Daily Mud Field Est (Cost) 13,461.86		Cum Mud Field Est (Cost) 76,275.45		
								Total AFE + Sup (Cost) 2,596,759.42		
Daily Goal Description DRILLED FEET				Daily Goal - Last 24 3,000.0			Daily Goal - Next 24 1,314.0		Goal Comments Not Met	
Backbuild Yes		Lateral Inclination	Last Casing String INTERMEDIATE, 8,160.0ftKB				Next Casing String PROPOSED PRODUCTION, 19,488.0ftKB			
Avg Connection Gas 428.00		Avg Trip Gas 0.00		Avg Background Gas 412.00		Max Connection Gas 1,328.00		Max Trip Gas 0.00		
								Max Drill Gas 787.00		
Operations Summary Drill Prod Lateral F/15,312' - T/17,471' (RSS, 1.12° avg lateral DLS, .94 below, 13.62' right)										
Operations Next Report Period Drill Prod Lateral F/17,471' - T/TD @ +/-18,795', Drill/Circ K&M CUC, L/D Drill Pipe T/Run Prod Csg										
Operations at Report Time Drilling Prod Lateral @ 17,471'										
Remarks TD Inter: 4-30-21 @ 6:30 TD Production:  May. NPT: Cum: 12.5 hrs; Dly: 3.5 hrs Surf: 100% Int. 1: 100% Prod Vert: 100% Prod. Curve: 100% Prod. Lateral: 88% No Incidents or Spills Reported										
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	0.75	06:45	PROD, DRL LAT	DRL	NORMAL	Rotate Drill 8.5" lateral F/15,312' - T/15,404' (92' @ 122.6' FPH) 585 GPM, 100 RPM, 4300-4600 SPP, 700-900 Diff, 32 - 37K WOB, 20-24 Tq	15,312.0	15,404.0		
06:45	0.5	07:15	PROD, DRL LAT	RIG_SVC	NORMAL	Lubricate Rig, work on IBOP	15,404.0	15,404.0		
07:15	2.25	09:30	PROD, DRL LAT	DRL	NORMAL	Rotate Drill 8.5" lateral F/15,404' - T/15,595' (191' @ 84.88' FPH) 585 GPM, 100 RPM, 4300-4600 SPP, 700-900 Diff, 32 - 37K WOB, 20-24 Tq	15,404.0	15,595.0		
09:30	1	10:30	PROD, DRL LAT	3RD_PTY	NORMAL	Troubleshoot mwd, changed transducer, found damaged cable to transducer, swapped out cable.	15,595.0	15,595.0	1.00	7
10:30	8	18:30	PROD, DRL LAT	DRL	NORMAL	Rotate Drill 8.5" lateral F/15,595' - T/16,623' (1,028' @ 128.5' FPH) 585 GPM, 100 RPM, 4300-4600 SPP, 700-900 Diff, 32 - 37K WOB, 20-26 Tq	15,595.0	16,623.0		
18:30	0.25	18:45	PROD, DRL LAT	CIRC	NORMAL	Circ - Record SCR's, P/U & S/O weights	16,623.0	16,623.0		
18:45	2.25	21:00	PROD, DRL LAT	DRL	NORMAL	Rotate Drill 8.5" lateral F/16,623' - T/16,889' (266' @ 106 FPH) 555 GPM, 100 RPM, 4300-4600 SPP, 700-900 Diff, 32 - 37K WOB, 20-26 Tq	16,623.0	16,889.0		
21:00	2.5	23:30	PROD, DRL LAT	RIG_RPR	NORMAL	Drilling ahead on 2 MP's with #3 MP getting discharge module changed out, #1 MP starting leaking around suction cap which indicated a module had washed. Circulate hole on 1 MP (264 gpm, 50 rpm) while changing suction module on #1 MP.	16,889.0	16,889.0	2.50	8
23:30	4.5	04:00	PROD, DRL LAT	DRL	NORMAL	Rotate Drill 8.5" lateral F/16,889' - T/17,375' (486' @ 108 FPH) 530 GPM, 100 RPM, 4800-5000 SPP, 550-750 Diff, 35 - 40K WOB, 24-29 Tq	16,889.0	17,375.0		
04:00	0.25	04:15	PROD, DRL LAT	CIRC	NORMAL	Circ - Record SCR's, P/U & S/O weights	17,375.0	17,375.0		
04:15	1.75	06:00	PROD, DRL LAT	DRL	NORMAL	Rotate Drill 8.5" lateral F/16,375' - T/17,471' (96' @ 55 FPH) 530 GPM, 100 RPM, 4800-5000 SPP, 550-750 Diff, 35 - 40K WOB, 24-29 Tq	17,375.0	17,471.0		
Interval Problems										
DIRECTIONAL, 15,595.0ftKB, 5/6/2021 09:30										
Ref #	Dur (N...)	Ex...	Subtype	Problem Descript..	Est Cost OR (Cost)	Accountable Party	Comment			
7	1.00	No	MWD / LWD	FAILURE - SURFACE EQUIPMENT		INTREPID DIRECTIONAL DRILLING SPECIALISTS	Troubleshoot MWD - changed out transducer & found damaged cable to transducer. Changed out transducer cable.			
Daily Drilling Report										

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Printed: Friday, May 7, 2021

Daily Drilling Report

Interval Problems																			
RIG, 16,889.0ftKB, 5/6/2021 21:00																			
Ref #	Dur (N...)	Ex...	Subtype	Problem Descript...	Est Cost OR (Cost)	Accountable Party				Comment									
8	2.50	No	CIRCULATING SYSTEM	MUD PUMPS		PATTERSON-UTI DRILLING COMPANY LLC				While working on #3 MP (changing out discharge module), #1 MP starting leaking around suction cap which indicated a suction module had washed. Circulate hole on 1 MP while changing modules.									
Drill Strings																			
BHA #5 , PRODUCTION - LATERAL																			
Bit Run			Drill Bit					Bit Type				Make							
5			8 1/2in, D507TX, 5317835					PDC				GE/BAKER HUGHES							
Nozzles (1/32")			Bit Total Fluid Area (nozzles) (in²)				IADC Bit Dull				Hours Drilled By Bit (hr)				Depth Drilled By Bit (ft)				
13/13/12/12/12/12/12			0.81				-----				59.25				8,294.00				
BHA Drilling Time (hr)			BHA Depth Drilled (ft)				BHA ROP (ft/hr)				Depth In (ftKB)				Depth Out (ftKB)				
59.25			8,294.00				140.0				9,177.0				17,471.0				
Drill String Components																			
Jts	Item Des				OD (in)		ID (in)		Len (ft)		Cum Len (ft)		Wt (lbf)		Cum Wt (1000lbf)		Make		
547	DRILL PIPE				5		4.27		17,256.12		17,471.00		336,494.3		342		RIG		
3	HWDP - SPIRALED				5		3.00		90.00		214.88		5,220.0		5		RIG		
1	ANTI-STALL TOOL				6 3/4		2.75		17.06		124.88				0		TOMAX		
1	MOTOR - TRUE SLICK				7 1/4		1.75		32.00		107.82				0		INTREPID		
1	SUB - FILTER				6 7/8		3.25		5.24		75.82				0		INTREPID		
1	DRILL COLLAR - PONY, NON MAG				6 1/2		3.19		13.86		70.58				0		INTREPID		
1	STABILIZER				6 7/8		3.25		5.14		56.72				0		INTREPID		
1	HANG OFF SUB				6 11/16		3.25		36.58		51.58				0		INTREPID		
1	RSS TOOL				6 3/4		2.19		14.00		15.00				0		INTREPID		
Mud Motors																			
SN		Bend Angle			Bearing Type		Lobe Config			# Stages			Lwr Defin Type			Bit To Bend			
XSS70066 / XS727869-036		0			NOT SEALED		7:8			6.9						0			
Sensors																			
Sensor Type				Sensor-Bit (ft)					Note										
DIRECTIONAL				24.00															
GAMMA				32.00															
Drilling Parameters																			
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 Average (ft/hr)	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	06:45	15,312.0	92.00	122.7	37	100	753.0	575	5,773.0	122.7	188	277	132	188	23,000.0	7,400.0	0		
06:45	07:15	15,404.0	0.00	0.0	0	0	0.0	575	5,773.0	0.0	188	277	132	188	0.0	0.0	0		
07:15	09:30	15,404.0	191.00	84.9	37	100	753.0	575	5,773.0	84.9	173	290	100	173	23,000.0	7,400.0	0		
09:30	10:30	15,595.0	0.00		0	0	0.0	575	5,773.0	0.0	173	290	100	173	0.0	0.0	0		
10:30	16:00	15,595.0	592.00	107.6	37	100	576.0	560	5,700.0	107.6	173	290	100	173	23,000.0	11,000.0	0		
16:00	18:30	16,187.0	436.00	174.4	37	100	553.0	560	5,700.0	174.4	175	295	100	173	23,000.0	11,000.0	0		
18:30	18:45	16,623.0	0.00		0	30	0.0	525	4,950.0	0.0	173	290	100	173	0.0	11,000.0	0		
18:45	21:00	16,623.0	266.00	118.2	37	100	564.0	535	5,650.0	118.2	175	295	100	173	25,500.0	11,000.0	0		
21:00	23:30	16,889.0	0.00		0	50	0.0	265	1,865.0	0.0	173	290	100	173	0.0	13,000.0	0		
23:30	04:00	16,889.0	486.00	108.0	37	100	615.0	525	5,640.0	108.0	175	295	100	173	26,000.0	15,000.0	0		
04:00	04:15	17,375.0	0.00		0	50	0.0	265	1,865.0	0.0	173	290	100	173	0.0	13,000.0	0		
04:15	06:00	17,375.0	96.00	54.9	37	100	624.0	525	5,640.0	54.8	173	290	100	173	27,000.0	15,500.0	0		
Hydraulic Calculations																			
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)
12.85		13.79		153.6		2.7		207.6		501.5		14.7		653.6		307.33		430.02 420.11	

# Daily Drilling Report

PATTERSON - UTI - 804	
Accept: 4/27/2021	Release:
Days Since LTI: 996.00	Days Since RI: 1.00

<b>PERMIAN - JV SOUTHERN WOLFCAMP</b>	
<b>Job:</b>	<b>ODR</b>
<b>Report Date:</b>	<b>5/7/2021</b>
<b>Report #:</b>	<b>12</b>
<b>DFS:</b>	<b>11</b>
<b>AFE #:</b>	<b>9011466</b>
<b>Total AFE + Sup:</b>	<b>\$2,596,759.42</b>
<b>Daily Field Est. (Cost):</b>	<b>\$151,345.46</b>

comment	
RECOMMENDED FLUIDS TREATMENT	
Dusting up active system as needed to maintain MW @ 12.8 ppg. Diesel @ 8.6 bph , Water @ 2.7 bph. Chemical usage: Lime 1.95 ppb, Gilsonite 2.92 ppb, CaCL 1.62 ppb, Soltex 2.27 ppb, Wetting agent .29 ppb, Primary .85 ppb.	

Transferred mud from Frac tank #1 to active for volume. This morning the YP/Vis increased and HTHP increased to a 23. Adding 2 ppb of Gilsonite and 2 ppb of Soltex to active to lower HTHP. Increased Diesel additions to lower Vis/YP and LGS, plus running centrifuge.

## Leak Off and Formation Integrity Tests

## Casing Pressure Test

### Kick Offs & Key Depths

## Casing Strings

Gas Emissions - Flare	
2010	10.0
2011	10.0
2012	10.0
2013	10.0
2014	10.0
2015	10.0
2016	10.0
2017	10.0
2018	10.0
2019	10.0
2020	10.0

### Job Supply Amounts

### Mud Additive Amounts

## Pump Operations

## Pump Checks

## Daily Drilling Report

Daily Drilling Report

UNIVERSITY W2-34D 4H	
PATTERSON - UTI - 804	
Accept: 4/27/2021	Release:
Days Since LTI: 996.00	Days Since RI: 1.00

PERMIAN - JV SOUTHERN WOLFCAMP	
Job:	ODR
Report Date:	5/7/2021
Report #:	12
DFS:	11
AFE #:	9011466
Total AFE + Sup:	\$2,596,759.42
Daily Field Est. (Cost):	\$151,345.46

Deviation Surveys							
Date	Description					Job	
	FINAL SURVEY						
Date	Description					Job	
11/19/2020	AS DRILL SURVEY					ODR, 11/19/2020 20:00	
Survey Data - All surveys for 24 hr reporting period							
MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
15,374.00	89.99	0.89	8,846.36	7,472.29	7,473.86	29.18	0.14
15,468.00	89.66	1.51	8,846.65	7,566.29	7,567.84	31.14	0.75
15,563.00	90.20	3.31	8,846.77	7,661.27	7,662.75	35.14	1.98
15,657.00	90.18	3.31	8,846.45	7,755.22	7,756.60	40.57	0.02
15,750.00	89.57	3.29	8,846.66	7,848.17	7,849.44	45.92	0.66
15,845.00	90.22	3.79	8,846.83	7,943.10	7,944.26	51.79	0.86
15,939.00	89.80	4.14	8,846.81	8,037.01	8,038.03	58.29	0.58
16,033.00	90.18	2.80	8,846.83	8,130.95	8,131.86	63.97	1.48
16,127.00	90.01	3.45	8,846.68	8,224.90	8,225.72	69.10	0.71
16,220.00	89.85	3.56	8,846.79	8,317.84	8,318.54	74.78	0.21
16,314.00	89.88	1.61	8,847.01	8,411.82	8,412.44	79.02	2.07
16,409.00	89.76	1.27	8,847.31	8,506.82	8,507.41	81.41	0.38
16,502.00	89.87	1.28	8,847.61	8,599.82	8,600.39	83.48	0.12
16,596.00	89.99	0.94	8,847.72	8,693.82	8,694.37	85.30	0.38
16,689.00	90.00	1.04	8,847.73	8,786.81	8,787.36	86.91	0.11
16,783.00	89.81	1.63	8,847.89	8,880.81	8,881.33	89.10	0.66
16,877.00	89.72	0.89	8,848.27	8,974.81	8,975.31	91.17	0.79
16,970.00	90.05	1.69	8,848.46	9,067.81	9,068.28	93.26	0.93
17,064.00	90.40	1.65	8,848.09	9,161.81	9,162.24	96.00	0.37
17,158.00	89.95	1.07	8,847.80	9,255.81	9,256.21	98.23	0.78
17,252.00	90.08	1.19	8,847.78	9,349.80	9,350.20	100.08	0.19
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)
PBHL/TD			-6,190.0		8,860.0		
Daily Contacts							
Job Contact		Title	Office	Mobile	Email		
HARDIN, JOE, AREA DRILLING SUPERINTENDENT		AREA DRILLING SUPERINTENDENT	361-452-2118	361-318-8762	JOE.HARDIN@PXD.COM		
DAFFRON, MIKE, SUPERINTENDENT		SUPERINTENDENT	432-385-9242	318-243-5902	MIKE.DAFFRON@PXD.COM		
JOHNSON, STEVEN, WELLSITE SUPERVISOR		WELLSITE SUPERVISOR		580-504-9863	STEVEN.JOHNSON1@PXD.COM		
SPACEK, KEITH, ENGINEER		ENGINEER	972-969-5932	972-741-1753	KEITH.SPACEK@PXD.COM		
SUMMERS, BRANDON, WELLSITE SUPERVISOR		WELLSITE SUPERVISOR		580-768-5385	BRANDON.SUMMERS@PXD.COM		
BORLAND, TOBY, WELLSITE SUPERVISOR		WELLSITE SUPERVISOR		432-305-6058	TOBY.BORLAND@PXD.COM		
ARCE, CHRIS, MUD ENGINEER		MUD ENGINEER		830-358-6169	CHRISTOPHER.ARCE@PXD.COM		
RIG-PATTERSON 804, RIG PHONE		RIG PHONE	432-355-3141	432-238-4084			
Personnel Log							
Company						Count	
PIONEER NATURAL RESOURCES USA INC						2	
PATTERSON-UTI DRILLING COMPANY LLC						13	
INTREPID DIRECTIONAL DRILLING SPECIALISTS						3	
GISLER BROTHERS LOGGING CO INC						2	
CRESCENT DRILLING FOREMAN INC						1	
HALLIBURTON ENERGY SERVICES INC						1	
Page 4/4				Printed: Friday, May 7, 2021			

# Daily Drilling Report

PATTERSON - UTI - 804	
Accept: 4/27/2021	Release:
Days Since LTI: 997.00	Days Since RI: 2.00

PERMIAN - JV SOUTHERN WOLFCAMP	
Job:	ODR
Report Date:	5/8/2021
Report #:	13
DFS:	12
AFE #:	9011466
Total AFE + Sup:	\$2,596,759.42
Daily Field Est. (Cost):	\$117,430.39

## Daily Drilling Report



Daily Drilling Report

Drill String Components																			
Jts	Item Des			OD (in)	ID (in)	Len (ft)	Cum Len (ft)	Wt (lb)	Cum Wt (1000lb)	Make									
1	ANTI-STALL TOOL			6 3/4	2.75	17.06	124.88		0	TOMAX									
1	MOTOR - TRUE SLICK			7 1/4	1.75	32.00	107.82		0	INTREPID									
1	SUB - FILTER			6 7/8	3.25	5.24	75.82		0	INTREPID									
1	DRILL COLLAR - PONY, NON MAG			6 1/2	3.19	13.86	70.58		0	INTREPID									
1	STABILIZER			6 7/8	3.25	5.14	56.72		0	INTREPID									
1	HANG OFF SUB			6 11/16	3.25	36.58	51.58		0	INTREPID									
1	RSS TOOL			6 3/4	2.19	14.00	15.00		0	INTREPID									
Mud Motors																			
SN		Bend Angle		Bearing Type		Lobe Config		# Stages		Lwr DefIn Type		Bit To Bend							
XSS70066 / XS727869-036		0		NOT SEALED		7:8		6.9				0							
Sensors																			
Sensor Type				Sensor-Bit (ft)				Note											
DIRECTIONAL				24.00															
GAMMA				32.00															
Drilling Parameters																			
Start Time	End Time	Start Depth (ftKB)	Int Depth (ft)	Int ROP (ft/hr)	WOB (1000lb)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	ROP Average (ft/hr)	Drill Str Wt (1000lb)	PU Str Wt (1000lb)	SO Str Wt (1000lb)	Off-Btm Str Wt (1000lb)	Drill Tq	Off Btm Tq	TFO (°)		
06:00	10:30	17,471.0	285.00	63.3	37	100	675.0	525	5,640.0	63.3	173	290	100	173	27,000.0	15,500.0	0		
10:30	16:30	17,756.0	558.00	93.0	37	100	530.0	509	5,300.0	93.0	180	300	100	180	25,500.0	11,000.0	0		
16:30	17:00	18,314.0	0.00	0.0	0	30	0.0	509	4,760.0	0.0	180	300	100	180	0.0	14,000.0	0		
17:00	18:15	18,314.0	110.00	88.0	40	100	750.0	509	5,530.0	88.0	179	295	100	179	27,000.0	14,500.0	0		
18:15	18:30	18,424.0	0.00	0.0	0	0	0.0	509	4,750.0	0.0	180	300	100	180	0.0	0.0	0		
18:30	21:00	18,424.0	240.00	96.0	40	100	625.0	509	5,560.0	96.0	181	300	100	181	26,800.0	14,700.0	0		
21:00	04:45	18,664.0	150.00	19.4	8	80	270.0	550	5,750.0	19.4	179	295	100	179	13,000.0	11,000.0	0		
04:45	06:00	18,814.0	0.00	0.0	0	80	0.0	550	5,520.0	0.0	180	302	100	180	0.0	10,500.0	0		
Hydraulic Calculations																			
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)									
12.85	13.91	176.6	3.1	217.5	550.4	15.4	684.7	331.12	491.67	420.11									
Mud Checks																			
Time		Mud Company				Type		Depth (ftKB)		Density (lb/gal)		Funnel Viscosity (s/qt)		T Flowline (°F)					
18:00		PIONEER DRILLING FLUIDS				OIL BASE		18,685.0		12.85		78		146.0					
PV (cP)		YP (lb/100ft²)		Vis 3rpm		Vis 6rpm		Filtrate (mL/30min)		HTHP Filtrate (mL/30min)		HTHP Temperature (°F)		HTHP Pressure (psi)					
31.0		21.000		12		13		21.0		21.0		250.0		500.0					
Solids (%)				Low Gravity Solids (%)				Sand (%)				MBT (lb/bbl)		Pm (mL/mL)		Pf (mL/mL)			
27.5				11.7															
Chlorides (mg/L)				Calcium (mg/L)				CaCl (ppm)		Oil Water Ratio		Electric Stab (V)		Lime (lb/bbl)		pH			
29,000				3,600						81/19		616.0		2.7					
Gel 10 sec (lb/100ft²)						Gel 10 min (lb/100ft²)						Gel 30 min (lb/100ft²)							
20.000						23.000						27.000							
Comment																			
RECOMMENDED FLUIDS TREATMENT																			
Dusting up active system as needed to maintain MW @ 12.8 ppg. At 18,664' increase MW to a 13.2 ppg. Diesel @ 10.7 bph , Water @ 1.9 bph. Chemical usage: Lime 3.30 ppb, Gilsonite 2.37 ppb, CaCl 2.58 ppb, Soltex 2.40 ppb, Wetting agent 1.07 ppb, Secondary .25 ppb, Primary .26 ppb.																			
DRILLING FLUIDS ACTIVITY LAST 24 HRS																			
At 18,664' start increasing MW to a 13.2 ppg. Maintaining volume in the pits with diesel additions to lower Vis/YP and LGS, plus running centrifuge. Monitoring shaker screens for holes every connection and changing out as needed. Transferred OBM from frac tank #4 to active.																			
Last BOP Test																			
Date		Test Type			Item Tested			Next Test Date		Com									
4/27/2021		BOP			BOP'S, 4/27/2021 13:30, <class>			5/18/2021		Full BOP test									
Leak Off and Formation Integrity Tests																			
Test Type				Depth (ftKB)				Dens Fluid (lb/gal)											
FORMATION INTEGRITY				1,104.0				12.43											
FORMATION INTEGRITY				8,103.0				13.51											
Casing Pressure Test																			
Test Type				Test Subtype				Date		Item Tested			Failed?	Time (min)		P (psi)			
CASING				STANDARD				11/27/2020		SURFACE, 1,084.2ftKB			No	30.00		1,000.0			
Kick Offs & Key Depths																			
Date				Type				Top Depth (ftKB)				Depth Top (TVD) (ftKB)							
5/2/2021 04:00				KICK OFF				8,265.0				8,207.5							
5/3/2021 18:00				HEEL				9,086.0				8,774.8							
5/8/2021 04:45				KICK OFF				18,814.0				8,848.9							
Casing Strings																			
Description		Set Depth (ftKB)		Set Depth (TVD) (ftKB)		OD (in)		Grade		Wt/Len (lb/ft)		Top Thread		P LeakOff (psi)					
CONDUCTOR		128.0				20		H40		78.67									
SURFACE		1,084.2		1,083.9		13 3/8		K55		54.50		BTC		712.8					
INTERMEDIATE		8,160.0		8,102.5		9 5/8		L80		40.00		BTC		5,644.9					
Daily Drilling Report																			

Daily Drilling Report

Gas Emissions - Flare								
Type	Method	Dur (min)	Amount	Units	Com			
Job Supply Amounts								
Supply Item Des	Type	Unit Label	Received	Consumed	Returned	Note	Cum On Loc	Cum Consumed
DIESEL	FUEL	GAL	0	4,370		Rig Fuel	4,920	31,002.0
DIESEL	MUD	GAL	7,275	7,269		Mud Diesel	6,048	29,214.0
DIESEL	FUEL	GAL	0	0		Emergency tank	412	0.0
WATER	FRESH	BBL	0	0		Beginning: 248,295 End 248,295	0	4,980.0
Mud Additive Amounts								
Des	Type	Units	Rec	Consumed	On Loc	Cum Cons		
BARITE - BULK	WEIGHTING MATERIAL	TON	44	8	68.0	108		
BCI OBM PRIMARY	OIL MUD ADDITIVE	GAL		1	5.0	7		
BCI OBM SECONDARY	OIL MUD ADDITIVE	GAL		1	2.0	2		
BCI OBM WETTING AGENT	OIL MUD ADDITIVE	GAL		4	0.0	7		
CALCIUM CHLORIDE	SALT	LB		86	64.0	266		
GILSOCOL GP	SPECIALITY	LB		79	31.0	241		
LIME	ALKALINITY CONTROL	LB		110	135.0	345		
SOLTEX	FLUID LOSS ADDITIVES	LB		80	80.0	220		
TRANSPORTATION	MISCELLANEOUS	EA	1,370	1,370	300.0	9,260		
Pump Operations								
Pump #	Make	Model	Liner Size (in)	Stroke (in)	Vol/Stk (bbl/stk)	P Max (psi)		
1	BOMCO	F1600	5 1/2	12.00	0.088	5,556.0		
2	BOMCO	F1600	5 1/2	12.00	0.088	5,556.0		
3	BOMCO	F1600	5 1/2	12.00	0.088	5,556.0		
Pump Checks								
Pump #	Depth (ftKB)	Time	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)		
Deviation Surveys								
Date	Description FINAL SURVEY					Job		
Date 11/19/2020	Description AS DRILL SURVEY					Job ODR, 11/19/2020 20:00		
Survey Data - All surveys for 24 hr reporting period								
MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	
17,532.00	89.89	2.29	8,848.82	9,629.80	9,630.10	107.17	0.96	
17,626.00	90.12	1.87	8,848.81	9,723.79	9,724.04	110.58	0.51	
17,719.00	91.11	2.95	8,847.81	9,816.77	9,816.95	114.49	1.58	
17,813.00	89.86	0.87	8,847.01	9,910.75	9,910.88	117.62	2.58	
17,907.00	89.82	359.66	8,847.28	10,004.73	10,004.88	118.05	1.29	
18,000.00	89.85	359.43	8,847.54	10,097.68	10,097.88	117.32	0.25	
18,094.00	89.74	359.45	8,847.88	10,191.63	10,191.87	116.40	0.12	
18,188.00	90.32	359.86	8,847.83	10,285.58	10,285.87	115.83	0.76	
18,282.00	89.82	359.45	8,847.72	10,379.54	10,379.87	115.27	0.69	
18,376.00	89.71	359.99	8,848.10	10,473.49	10,473.87	114.81	0.59	
18,469.00	89.99	359.84	8,848.34	10,566.46	10,566.86	114.67	0.34	
18,564.00	89.76	359.94	8,848.55	10,661.43	10,661.86	114.49	0.26	
18,658.00	90.15	359.46	8,848.63	10,755.38	10,755.86	113.99	0.66	
18,752.00	89.80	0.30	8,848.67	10,849.35	10,849.86	113.80	0.97	
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)	
PBHL/TD			-6,190.0		8,860.0			
Daily Contacts								
Job Contact		Title	Office	Mobile	Email			
HARDIN, JOE, AREA DRILLING SUPERINTENDENT		AREA DRILLING SUPERINTENDENT	361-452-2118	361-318-8762	JOE.HARDIN@PXD.COM			
DAFFRON, MIKE, SUPERINTENDENT		SUPERINTENDENT	432-385-9242	318-243-5902	MIKE.DAFFRON@PXD.COM			
JOHNSON, STEVEN, WELLSITE SUPERVISOR		WELLSITE SUPERVISOR		580-504-9863	STEVEN.JOHNSON1@PXD.COM			
SPACEK, KEITH, ENGINEER		ENGINEER	972-969-5932	972-741-1753	KEITH.SPACEK@PXD.COM			
SUMMERS, BRANDON, WELLSITE SUPERVISOR		WELLSITE SUPERVISOR		580-768-5385	BRANDON.SUMMERS@PXD.COM			
BORLAND, TOBY, WELLSITE SUPERVISOR		WELLSITE SUPERVISOR		432-305-6058	TOBY.BORLAND@PXD.COM			
HARDIN, JOE, AREA DRILLING SUPERINTENDENT		AREA DRILLING SUPERINTENDENT	361-452-2118	361-318-8762	JOE.HARDIN@PXD.COM			
RIG-PATTERSON 804, RIG PHONE		RIG PHONE	432-355-3141	432-238-4084				
Personnel Log								
Company							Count	
PIONEER NATURAL RESOURCES USA INC							2	
PATTERSON-UTI DRILLING COMPANY LLC							13	
INTREPID DIRECTIONAL DRILLING SPECIALISTS							3	
Daily Drilling Report			Page 3/4			Printed: Saturday, May 8, 2021		

Daily Drilling Report

UNIVERSITY W2-34D 4H	
PATTERSON - UTI - 804	
Accept: 4/27/2021	Release:
Days Since LTI: 997.00	Days Since RI: 2.00

PERMIAN - JV SOUTHERN WOLFCAMP	
Job:	ODR
Report Date:	5/8/2021
Report #:	13
DFS:	12
AFE #:	9011466
Total AFE + Sup:	\$2,596,759.42
Daily Field Est. (Cost):	\$117,430.39

Personnel Log	
Company	Count
GISLER BROTHERS LOGGING CO INC	2
CRESCENT DRILLING FOREMAN INC	1
HALLIBURTON ENERGY SERVICES INC	1

Daily Drilling Report

UNIVERSITY W2-34D 4H				PERMIAN - JV SOUTHERN WOLFCAMP			
PATTERSON - UTI - 804				Job: ODR			
Accept: 4/27/2021		Release:		Report Date:		5/9/2021	
Days Since LTI: 998.00		Days Since RI: 3.00		Report #:		14	
				DFS:		13	
				AFE #:		9011466	
				Total AFE + Sup:		\$2,596,759.42	
				Daily Field Est. (Cost):		\$102,271.28	

PWI/UWI 42-383-40906-0000		Well Profile HORIZONTAL		Open Formation WOLFCAMP B3 (WFMP B3)		Field Name SPRABERRY (TREND AREA)					
SSN ID00020510	Property Sub	KB-Grd (ft) 28.00	Orig KB Elev (ft) 2,670.00	Ground Elevation (ft) 2,642.00	Spud Date 11/19/2020	TD Date 5/8/2021					
Jobs											
Responsible Grp 2 DRL ENG - KEITH SPACEK		Responsible Grp 3 AREA TEAM 4		Job Type ODR	Start Date 11/19/2020 20:00	End Date	Job Status IN PROGRESS				
Job Dates (ex. Estimated Pad Release, TXRRC Calls)											
Type MILESTONE		Subtype ESTIMATED PAD RELEASE		Date 5/10/2021	Note Perform K&M CUC on 7th well of a 7 well pad (5-8-21)						
Type TXRRC CALL		Subtype CEMENT PROD		Date 5/8/2021	Note Gina Op# 14						
Daily Operations											
Footage/Meterage (ft) 0.00	Drilling Hours (hr)	% Rotating Time (%)	End Depth (ftKB) 18,814.0	Target Depth (ftKB) 18,794.0	Daily Field Est Total (Cost) 102,271.28	Cum Field Est To Date (Cost) 1,729,834.85					
24 HR ROP (ft/hr)	Circulating Hours (hr) 1.25	% Sliding Time (%)	End Depth (TVD) (ftKB) 8,848.9	Target Depth (TVD) (ftKB) 8,859.9	Daily Mud Field Est (Cost) 9,118.56	Cum Mud Field Est (Cost) 101,611.95	Total AFE + Sup (Cost) 2,596,759.42				
Daily Goal Description DRILLED FEET		Daily Goal - Last 24 0.0		Daily Goal - Next 24 0.0		Goal Comments Goal Met					
Backbuild Yes	Lateral Inclination Toe Flat	Last Casing String INTERMEDIATE, 8,160.0ftKB			Next Casing String PRODUCTION, 18,796.0ftKB						
Avg Connection Gas 452.00	Avg Trip Gas 0.00	Avg Background Gas 126.00		Max Connection Gas 452.00	Max Trip Gas 0.00	Max Drill Gas 140.00					
Operations Summary Finish K&M CUC, TOO H F/18,814' - T/17,244', L/D DP F/17,244 - T/12,300', CBU, L/D DP F/12,300' - T/2,158', TIH F2,158' - T/3,469', L/D DP F/3,469' - T/1,655'											
Operations Next Report Period Finish L/D DP & Dir Tools, R/U & Run Prod Csg T/Csg Pt @ 18,796'											
Operations at Report Time L/D DP @ 1,655'											
Remarks TD Inter: 4-30-21 @ 6:30 TD Production: 5-8-21 @ 4:45  May. NPT: Cum: 13.25 hrs; Dly: 0 hrs Surf: 100% Int. 1: 100% Prod Vert: 100% Prod. Curve: 100% Prod. Lateral: 100% No Incidents or Spills Reported											
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	1	07:00	PROD, POST DRL	K&M_CLEANUP	NORMAL	Circulate K&M Cleanup Cycle, shakers clear before trip.550 gpm & 80 rpm	18,814.0	18,814.0			
07:00	0.25	07:15	PROD, POST DRL	FLOW_CHK	NORMAL	Flow check well on trip tanks, well static.	18,814.0	18,814.0			
07:15	1.25	08:30	PROD, POST DRL	TOOH_ELEV	NORMAL	TOOH Wet F/18,814', T/17,244', Proper hole fill observed on trip tanks.  Note: Pulled above offset well Lucy Lindsey #7	18,814.0	18,814.0			
08:30	1	09:30	PROD, POST DRL	L/D DP	NORMAL	LD DP F/17,244' - T/16,993', Proper hole fill on trip tanks, Tight connections had to break out several with tongs.	18,814.0	18,814.0			
09:30	0.25	09:45	PROD, POST DRL	CIRC	NORMAL	Pump Slug.	18,814.0	18,814.0			
09:45	5.25	15:00	PROD, POST DRL	L/D DP	NORMAL	LD DP F/16,993' - T/12,219', Proper hole fill observed on trip tanks.  Note: Tight spot @12,219'	18,814.0	18,814.0			
15:00	1.5	16:30	PROD, POST DRL	CIRC	NORMAL	Drop back in hole T/12,400', Circulate surface to surface, verify slug out of hole, 50% Coverage on shakers at bottoms up, shakers clean at surface to surface.	18,814.0	18,814.0			
16:30	0.75	17:15	PROD, POST DRL	L/D DP	NORMAL	LD DP F/12,400' - T/11,960", Proper hole fill observed on trip tanks.	18,814.0	18,814.0			
17:15	0.25	17:30	PROD, POST DRL	CIRC	NORMAL	Pump slug	18,814.0	18,814.0			
17:30	4.5	22:00	PROD, POST DRL	L/D DP	NORMAL	LD DP F/11,960" - T/8,727', Proper hole fill observed on trip tanks. Tight connections- had to break out several with tongs..	18,814.0	18,814.0			
22:00	0.25	22:15	PROD, POST DRL	HDL_ROT HD	NORMAL	Pull rotating head - flow check - well static	18,814.0	18,814.0			
22:15	1.75	00:00	PROD, POST DRL	L/D DP	NORMAL	LD DP F/8,727' - T/5,230', Proper hole fill observed on trip tanks. Tight connections- had to break out some with tongs..	18,814.0	18,814.0			
00:00	0.5	00:30	PROD, POST DRL	TRIP_NON_ST 80	NORMAL	L/D DP w/tongs F/5,230' - T/4,981'. Proper hole fill observed on trip tanks	18,814.0	18,814.0			
Daily Drilling Report								Page 1/3		Printed: Sunday, May 9, 2021	

Daily Drilling Report

UNIVERSITY W2-34D 4H

PATTERSON - UTI - 804

Accept: 4/27/2021Release: Days Since LTI: 998.00Days Since RI: 3.00

PERMIAN - JV SOUTHERN WOLFCAMP

Job: ODR

Report Date: 5/9/2021

Report #: 14

DFS: 13

AFE #: 9011466

Total AFE + Sup: \$2,596,759.42

Daily Field Est. (Cost): \$102,271.28

Time Log

Start Time	Dur (hr)	End Time	Phase	Operation	Ops Category	Com	Start Depth (ftKB)	End Depth (ftKB)	Prob Hrs (hr)	Prob Ref #
00:30	2	02:30	PROD, POST DRL	L/D DP	NORMAL	LD DP F/4,981' - T/2,879', Proper hole fill observed on trip tanks. Tight connections- had to break out some with tongs..	18,814.0	18,814.0		
02:30	0.5	03:00	PROD, POST DRL	RIG_SVC	NORMAL	Rig service - change ST80 dies, clean and organize floor, service TD	18,814.0	18,814.0		
03:00	0.5	03:30	PROD, POST DRL	L/D DP	NORMAL	LD DP F/2,879' - T/2,159', Proper hole fill observed on trip tanks. Tight connections- had to break out some with tongs..	18,814.0	18,814.0		
03:30	0.5	04:00	PROD, POST DRL	TIH_ELEV	NORMAL	TIH F/2,879' - T/3,469'. Hole displacing correctly to trip tank.	18,814.0	18,814.0		
04:00	2	06:00	PROD, POST DRL	L/D DP	NORMAL	LD DP F/3,469' - T/1,655', Proper hole fill observed on trip tanks. Tight connections- had to break out some with tongs..	18,814.0	18,814.0		

Drill Strings

BHA #5 , PRODUCTION - LATERAL

Bit Run 5	Drill Bit 8 1/2in, D507TX, 5317835	Bit Type PDC	Make GE/BAKER HUGHES
Nozzles (1/32") 13/13/12/12/12/12	Bit Total Fluid Area (nozzles) (in²) 0.81	IADC Bit Dull -----	Hours Drilled By Bit (hr) 81.25
BHA Drilling Time (hr) 81.25	BHA Depth Drilled (ft) 9,637.00	BHA ROP (ft/hr) 118.6	Depth In (ftKB) 9,177.0

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)	Wt (lbf)	Cum Wt (1000lbf)	Make
595	DRILL PIPE	5	4.27	18,599.12	18,814.00	362,682.8	368	RIG
3	HWDP - SPIRALED	5	3.00	90.00	214.88	5,220.0	5	RIG
1	ANTI-STALL TOOL	6 3/4	2.75	17.06	124.88		0	TOMAX
1	MOTOR - TRUE SLICK	7 1/4	1.75	32.00	107.82		0	INTREPID
1	SUB - FILTER	6 7/8	3.25	5.24	75.82		0	INTREPID
1	DRILL COLLAR - PONY, NON MAG	6 1/2	3.19	13.86	70.58		0	INTREPID
1	STABILIZER	6 7/8	3.25	5.14	56.72		0	INTREPID
1	HANG OFF SUB	6 11/16	3.25	36.58	51.58		0	INTREPID
1	RSS TOOL	6 3/4	2.19	14.00	15.00		0	INTREPID

Mud Motors

SN	Bend Angle	Bearing Type	Lobe Config	# Stages	Lwr Defin Type	Bit To Bend
XSS70066 / XS727869-036	0	NOT SEALED	7:8	6.9		0

Sensors

Sensor Type	Sensor-Bit (ft)	Note
DIRECTIONAL	24.00	
GAMMA	32.00	

Drilling Parameters

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 Average (ft/hr)	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	07:15	18,814.0	0.00		0	80	0.0	550	5,520.0	0.0	180	302	100	180	0.0	10,500.0	0

Hydraulic Calculations

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)
12.85	13.91	176.6	3.1	217.5	550.4	15.4	684.7	331.12	491.67	420.11

Mud Checks

Time 18:00	Mud Company PIONEER DRILLING FLUIDS	Type OIL BASE	Depth (ftKB) 18,814.0	Density (lb/gal) 13.35	Funnel Viscosity (s/qt) 80	T Flowline (°F) 0.0	
PV (cP) 34.0	YP (lbf/100ft²) 19.000	Vis 3rpm 13	Vis 6rpm 14	Filtrate (mL/30min)	HTHP Filtrate (mL/30min) 22.0	HTHP Temperature (°F) 250.0	HTHP Pressure (psi) 500.0
Solids (%) 29.0	Low Gravity Solids (%) 11.1	Sand (%)	MBT (lb/bbl)	Pm (mL/mL)	Pf (mL/mL)		
Chlorides (mg/L) 29,000	Calcium (mg/L) 7,200	CaCl (ppm)	Oil Water Ratio 81/19	Electric Stab (V) 547.0	Lime (lb/bbl) 2.6	pH	
Gel 10 sec (lbf/100ft²) 22.000	Gel 10 min (lbf/100ft²) 37.000	Gel 30 min (lbf/100ft²) 38.000					

Comment

RECOMMENDED FLUIDS TREATMENT  
Increase MW to a 13.2 ppg before TD. Adding diesel @ 3.1 bph and water @ 1.4 bph while running active mud over the shakers.

DRILLING FLUIDS ACTIVITY LAST 24 HRS  
Check shaker screens on connections for holes and cutting size.

Last BOP Test

Date	Test Type	Item Tested	Next Test Date	Com
4/27/2021	BOP	BOP'S, 4/27/2021 13:30, <class>	5/18/2021	Full BOP test

Leak Off and Formation Integrity Tests

Test Type	Depth (ftKB)	Dens Fluid (lb/gal)
FORMATION INTEGRITY	1,104.0	12.43
FORMATION INTEGRITY	8,103.0	13.51

Casing Pressure Test

Test Type	Test Subtype	Date	Item Tested	Failed?	Time (min)	P (psi)
CASING	STANDARD	11/27/2020	SURFACE, 1,084.2ftKB	No	30.00	1,000.0

Daily Drilling Report

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Printed: Sunday, May 9, 2021



# Daily Drilling Report

<b>PATTERSON - UTI - 804</b>	
<b>Accept: 4/27/2021</b>	<b>Release:</b>
<b>Days Since LTI: 998.00</b>	<b>Days Since RI: 3.00</b>

<b>PERMIAN - JV SOUTHERN WOLFCAMP</b>	
<b>Job:</b>	<b>ODR</b>
<b>Report Date:</b>	<b>5/9/2021</b>
<b>Report #:</b>	<b>14</b>
<b>DFS:</b>	<b>13</b>
<b>AFE #:</b>	<b>9011466</b>
<b>Total AFE + Sup:</b>	<b>\$2,596,759.42</b>
<b>Daily Field Est. (Cost):</b>	<b>\$102,271.28</b>

## Daily Drilling Report

Daily Drilling Report

UNIVERSITY W2-34D 4H				PERMIAN - JV SOUTHERN WOLFCAMP	
PATTERSON - UTI - 804				Job:	ODR
Accept: 4/27/2021				Report Date:	5/10/2021
Days Since LTI: 999.00				Report #:	15
Release:				DFS:	14
Days Since RI: 226.00				AFE #:	9011466
				Total AFE + Sup:	\$2,596,759.42
				Daily Field Est. (Cost):	\$68,125.83

P/I/UWI 42-383-40906-0000		Well Profile HORIZONTAL		Open Formation WOLFCAMP B3 (WFMP B3)		Field Name SPRABERRY (TREND AREA)							
SSN ID00020510		Property Sub		KB-Grd (ft) 28.00	Orig KB Elev (ft) 2,670.00	Ground Elevation (ft) 2,642.00	Spud Date 11/19/2020	TD Date 5/8/2021					
Jobs													
Responsible Grp 2		Responsible Grp 3		Job Type	Start Date		End Date	Job Status					
DRL ENG - KEITH SPACEK		AREA TEAM 4		ODR	11/19/2020 20:00			IN PROGRESS					
Job Dates (ex. Estimated Pad Release, TXRRC Calls)													
Type			Subtype		Date		Note						
MILESTONE			ESTIMATED PAD RELEASE		5/11/2021		Running Prod csg on 7th well of a 7 well pad (5-8-21)						
Daily Operations													
Footage/Meterage (ft) 0.00		Drilling Hours (hr)		% Rotating Time (%)		End Depth (ftKB) 18,814.0		Target Depth (ftKB) 18,794.0	Daily Field Est Total (Cost) 68,125.83	Cum Field Est To Date (Cost) 1,810,970.68			
24 HR ROP (ft/hr)		Circulating Hours (hr)		% Sliding Time (%)		End Depth (TVD) (ftKB) 8,848.9		Target Depth (TVD) (ftKB) 8,859.9	Daily Mud Field Est (Cost)		Cum Mud Field Est (Cost) 101,611.95	Total AFE + Sup (Cost) 2,596,759.42	
Daily Goal Description DRILLED FEET				Daily Goal - Last 24 0.0				Daily Goal - Next 24 0.0		Goal Comments Goal Met			
Backbuild Yes		Lateral Inclination Toe Flat		Last Casing String INTERMEDIATE, 8,160.0ftKB					Next Casing String PRODUCTION, 18,796.0ftKB				
Avg Connection Gas 0.00			Avg Trip Gas 0.00			Avg Background Gas 37.00			Max Connection Gas 0.00		Max Trip Gas 0.00		Max Drill Gas 0.00
Operations Summary L/D DP F/1,655' - T/BHA, LD BHA, Remove WB, R/U & Run 5.5" Production Csg T/14,716'													
Operations Next Report Period Run Prod Csg T/18,796' LP, Circ STS, R/U & Perform Prod Cmt Job, Install Packoff & BPV, N/D BOPE, Install/Test TA Cap, Release Rig T/University-Ratliff W58-7A 1H													
Operations at Report Time Running Prod Csg @ 14,716'													
Remarks TD Inter: 4-30-21 @ 6:30 TD Production: 5-8-21 @ 4:45  May. NPT: Cum: 13.25 hrs; Dly: 0 hrs Surf: 100% Int. 1: 100% Prod Vert: 100% Prod. Curve: 100% Prod. Lateral: 100% Incidents or Spills Reported - RTM FA													
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	PROD, POST DRL	FLOW_CHK	NORMAL	Flow check at relief, well static			18,814.0	18,814.0			
06:15	1.75	08:00	PROD, POST DRL	L/D DP	NORMAL	LD DP F/1,655' - T/BHA', Proper hole fill observed on trip tanks. Tight connections- had to break out some with tongs..			18,814.0	18,814.0			
08:00	0.25	08:15	PROD, POST DRL	FLOW_CHK	NORMAL	Flow check prior to ld bha			18,814.0	18,814.0			
08:15	0.25	08:30	PROD, POST DRL	L/D BHA	NORMAL	Lay out D&R tool, and 3 joints HWDP			18,814.0	18,814.0			
08:30	0.25	08:45	PROD, POST DRL	SFTY	NORMAL	PJSM over laying down directional BHA.			18,814.0	18,814.0			
08:45	1.25	10:00	PROD, POST DRL	LD_DIR	NORMAL	Lay down directional tools.Bit graded 1-3			18,814.0	18,814.0			
10:00	0.75	10:45	PROD, POST DRL	WRBSH	NORMAL	Remove wearbushing, clean up rig floor of excess tools prior to running csg.			18,814.0	18,814.0			
10:45	0.5	11:15	PROD, POST DRL	RIG_SVC	NORMAL	Lubricate rig.			18,814.0	18,814.0			
11:15	0.25	11:30	PROD, CASE & CMT	SFTY	NORMAL	Hold PJSM with PNR, PAT, Byrd, Maverick torque turn rigging up casing tools,			18,814.0	18,814.0			
11:30	0.75	12:15	PROD, CASE & CMT	RU_CSG	NORMAL	Rig up csg equipment			18,814.0	18,814.0			
12:15	0.25	12:30	PROD, CASE & CMT	SFTY	NORMAL	Hold PJSM with PNR, PAT, Byrd, Maverick torque turn, Daredevil and Tenaris on running casing			18,814.0	18,814.0			
12:30	0.5	13:00	PROD, CASE & CMT	MU_SHOE_TR K	NORMAL	Perform dump test T/12.520K. MU float equipment. Pump through and check floats w/CRT.  Note: Fill up line pumped through prior to use.			18,814.0	18,814.0			
13:00	9.5	22:30	PROD, CASE & CMT	CSG_W/O ROTATION	NORMAL	Run 5.5" 20# P-110 IC TXP prod casing T/9,085' . Proper displacement on trip tanks. MU TQ 12.5K. Filling on the fly. Break circulation every 40 joints.			18,814.0	18,814.0			
22:30	1	23:30	PROD, CASE & CMT	CIRC	NORMAL	Circulate bottoms up at end of curve, 6.5 bbl/min, 700 psi spp			18,814.0	18,814.0			
Daily Drilling Report													
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Printed: Monday, May 10, 2021													

Daily Drilling Report

UNIVERSITY W2-34D 4H				PERMIAN - JV SOUTHERN WOLFCAMP			
PATTERSON - UTI - 804				Job: ODR			
Accept: 4/27/2021				Report Date: 5/10/2021			
Days Since LTI: 999.00				Report #: 15			
Release:				DFS: 14			
Days Since RI: 226.00				AFE #: 9011466			
				Total AFE + Sup: \$2,596,759.42			
				Daily Field Est. (Cost): \$68,125.83			

Time Log											
Start Time	Dur (hr)	End Time	Phase	Operation	Ops Category	Com	Start Depth (ftKB)	End Depth (ftKB)	Prob Hrs (hr)	Prob Ref #	
23:30	3.5	03:00	PROD, CASE & CMT	CSG_W/O ROTATION	NORMAL	Run 5.5" 20# P-110 IC TXP prod casing F/9,085' - T/12,328' . Proper displacement on trip tanks. MU TQ 12.5K. Filling on the fly. Break circulation every 40 joints.	18,814.0	18,814.0			
03:00	0.5	03:30	PROD, CASE & CMT	CSG_W/O ROTATION	NORMAL	Running csg @ 12,328' joint did not shoulder up. Back out joint per thread rep and inspect and re-dope threads. Threads were ok and joint was made up with no issues.	18,814.0	18,814.0			
03:30	2.5	06:00	PROD, CASE & CMT	CSG_W/O ROTATION	NORMAL	Run 5.5" 20# P-110 IC TXP prod casing F/12,370' - T/14,716'. Proper displacement on trip tanks. MU TQ 12.5K. Filling on the fly. Break circulation every 40 joints.	18,814.0	18,814.0			
Drill Strings											
BHA #5 , PRODUCTION - LATERAL											
Bit Run 5			Drill Bit 8 1/2in, D507TX, 5317835				Bit Type PDC		Make GE/BAKER HUGHES		
Nozzles (1/32") 13/13/12/12/12/12/12			Bit Total Fluid Area (nozzles) (in²) 0.81		IADC Bit Dull 1-3-CT-S-X-1-CT-TD		Hours Drilled By Bit (hr) 81.25		Depth Drilled By Bit (ft) 9,637.00		
BHA Drilling Time (hr) 81.25			BHA Depth Drilled (ft) 9,637.00		BHA ROP (ft/hr) 118.6		Depth In (ftKB) 9,177.0		Depth Out (ftKB) 18,814.0		
Drill String Components											
Jts	Item Des				OD (in)	ID (in)	Len (ft)	Cum Len (ft)	Wt (lbf)	Cum Wt (1000lbf)	Make
595	DRILL PIPE				5	4.27	18,599.12	18,814.00	362,682.8	368	RIG
3	HWDP - SPIRALED				5	3.00	90.00	214.88	5,220.0	5	RIG
1	ANTI-STALL TOOL				6 3/4	2.75	17.06	124.88		0	TOMAX
1	MOTOR - TRUE SLICK				7 1/4	1.75	32.00	107.82		0	INTREPID
1	SUB - FILTER				6 7/8	3.25	5.24	75.82		0	INTREPID
1	DRILL COLLAR - PONY, NON MAG				6 1/2	3.19	13.86	70.58		0	INTREPID
1	STABILIZER				6 7/8	3.25	5.14	56.72		0	INTREPID
1	HANG OFF SUB				6 11/16	3.25	36.58	51.58		0	INTREPID
1	RSS TOOL				6 3/4	2.19	14.00	15.00		0	INTREPID
Mud Motors											
SN		Bend Angle		Bearing Type		Lobe Config		# Stages		Lwr DefIn Type	
XSS70066 / XS727869-036		0		NOT SEALED		7:8		6.9			
										0	
Sensors											
Sensor Type			Sensor-Bit (ft)				Note				
DIRECTIONAL			24.00								
GAMMA			32.00								
Hydraulic Calculations											
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)	
Mud Checks											
Time 18:00		Mud Company PIONEER DRILLING FLUIDS			Type OIL BASE		Depth (ftKB) 18,814.0		Density (lb/gal) 13.35		Funnel Viscosity (s/qt) 84
PV (cP) 30.0		YP (lbf/100ft²) 21.000	Vis 3rpm 13	Vis 6rpm 14	Filtrate (mL/30min)		HTHP Filtrate (mL/30min) 23.0		HTHP Temperature (°F) 250.0		HTHP Pressure (psi) 500.0
Solids (%) 29.0			Low Gravity Solids (%) 11.2		Sand (%)		MBT (lb/bbl)		Pm (mL/mL)		PF (mL/mL)
Chlorides (mg/L) 27,000		Calcium (mg/L) 7,200		CaCl (ppm)		Oil Water Ratio 81/19		Electric Stab (V) 543.0		Lime (lb/bbl) 2.6	
Gel 10 sec (lbf/100ft²) 24.000		Gel 10 min (lbf/100ft²) 32.000				Gel 30 min (lbf/100ft²) 38.000					
Comment RECOMMENDED FLUIDS TREATMENT Maintain MW in active at 13.2 ppg.											
DRILLING FLUIDS ACTIVITY LAST 24 HRS Circulating active system over the shakers. Adding diesel @ 3.1 bbls and water @ 1.4 bbls while circulating pits. Transfer all chemicals to the new location.											
Last BOP Test											
Date		Test Type			Item Tested		Next Test Date		Com		
4/27/2021		BOP			BOP'S, 4/27/2021 13:30, <class>		5/18/2021		Full BOP test		
Leak Off and Formation Integrity Tests											
Test Type				Depth (ftKB)				Dens Fluid (lb/gal)			
FORMATION INTEGRITY				1,104.0				12.43			
FORMATION INTEGRITY				8,103.0				13.51			
Casing Pressure Test											
Test Type		Test Subtype			Date		Item Tested		Failed?		P (psi)
CASING		STANDARD			11/27/2020		SURFACE, 1,084.2ftKB		No		30.00
1,000.0											
Kick Offs & Key Depths											
Date				Type			Top Depth (ftKB)		Depth Top (TVD) (ftKB)		
5/2/2021 04:00				KICK OFF			8,265.0		8,207.5		
5/3/2021 18:00				HEEL			9,086.0		8,774.8		
5/8/2021 04:45				KICK OFF			18,814.0		8,848.9		
Casing Strings											
Description		Set Depth (ftKB)		Set Depth (TVD) (ftKB)		OD (in)		Grade		Wt/Len (lb/ft)	
CONDUCTOR		128.0				20		H40		78.67	
SURFACE		1,084.2		1,083.9		13 3/8		K55		54.50	
INTERMEDIATE		8,160.0		8,102.5		9 5/8		L80		40.00	
BTC								BTC		5,644.9	
Daily Drilling Report											
Page 2/3						Printed: Monday, May 10, 2021					

# Daily Drilling Report

PATTERSON - UTI - 804	
Accept: 4/27/2021	Release:
Days Since LTI: 999.00	Days Since RI: 226.00

<b>PERMIAN - JV SOUTHERN WOLFCAMP</b>	
<b>Job:</b>	<b>ODR</b>
<b>Report Date:</b>	<b>5/10/2021</b>
<b>Report #:</b>	<b>15</b>
<b>DFS:</b>	<b>14</b>
<b>AFE #:</b>	<b>9011466</b>
<b>Total AFE + Sup:</b>	<b>\$2,596,759.42</b>
<b>Daily Field Est. (Cost):</b>	<b>\$68,125.83</b>

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Daily Drilling Report

UNIVERSITY W2-34D 4H				PERMIAN - JV SOUTHERN WOLFCAMP			
PATTERSON - UTI - 804				Job: ODR			
Accept: 4/27/2021		Release: 5/11/2021		Report Date:		5/11/2021	
Days Since LTI: 1,000.00		Days Since RI: 227.00		Report #:		16	
				DFS:		14	
				AFE #:		9011466	
				Total AFE + Sup:		\$2,596,759.42	
				Daily Field Est. (Cost):		\$202,644.33	

P/I/UWI 42-383-40906-0000		Well Profile HORIZONTAL		Open Formation WOLFCAMP B3 (WFMP B3)		Field Name SPRABERRY (TREND AREA)				
SSN ID00020510		Property Sub	KB-Grd (ft) 28.00	Orig KB Elev (ft) 2,670.00	Ground Elevation (ft) 2,642.00	Spud Date 11/19/2020	TD Date 5/8/2021			
Jobs										
Responsible Grp 2 DRL ENG - KEITH SPACEK		Responsible Grp 3 AREA TEAM 4		Job Type ODR	Start Date 11/19/2020 20:00	End Date 5/11/2021 01:30	Job Status COMPLETE			
Job Dates (ex. Estimated Pad Release, TXRRC Calls)										
Type			Subtype		Date	Note				
MILESTONE			ESTIMATED PAD RELEASE		5/11/2021	R/D on 7th well of a 7 well pad (5-8-21)				
Daily Operations										
Footage/Meterage (ft) 0.00		Drilling Hours (hr)		% Rotating Time (%)	End Depth (ftKB) 18,814.0	Target Depth (ftKB) 18,794.0	Daily Field Est Total (Cost) 202,644.33	Cum Field Est To Date (Cost) 2,013,615.01		
24 HR ROP (ft/hr)		Circulating Hours (hr)		% Sliding Time (%)	End Depth (TVD) (ftKB) 8,848.9	Target Depth (TVD) (ftKB) 8,859.9	Daily Mud Field Est (Cost) 101,611.95	Total AFE + Sup (Cost) 2,596,759.42		
Daily Goal Description DRILLED FEET			Daily Goal - Last 24 0.0			Daily Goal - Next 24 0.0		Goal Comments Goal Met		
Backbuild Yes		Lateral Inclination Toe Flat		Last Casing String PRODUCTION, 18,796.0ftKB			Next Casing String PROPOSED PRODUCTION, 19,488.0ftKB			
Avg Connection Gas 0.00		Avg Trip Gas 0.00		Avg Background Gas 0.00		Max Connection Gas 0.00	Max Trip Gas 0.00	Max Drill Gas 0.00		
Operations Summary Run 5.5" Production Csg T/18,796', C&C, RU & Cmt, Install Packoff Seals & BPV, ND BOPE, Install TA Cap, Release Rig T/University-Ratliff W58 7A 1H										
Operations Next Report Period Rig Released T/University-Ratliff W58 7A 1H										
Operations at Report Time Rig Released T/University-Ratliff W58 7A 1H										
Remarks TD Inter: 4-30-21 @ 6:30 TD Production: 5-8-21 @ 4:45  May. NPT: Cum: 13.25 hrs; Dly: 0 hrs Surf: 100% Int. 1: 100% Prod Vert: 100% Prod. Curve: 100% Prod. Lateral: 100% No Incidents or Spills Reported										
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	PROD, CASE & CMT	FLOW_CHK	NORMAL	Flow check well at tour change.	18,814.0	18,814.0		
06:15	4.5	10:45	PROD, CASE & CMT	CSG_W/O ROTATION	NORMAL	Run 5.5" 20# P-110 IC TXP prod casing F/14,716' - T/18,796'. Proper displacement on trip tanks. MU TQ 12.5K. Filling on the fly. Break circulation every 40 joints.  Land out on hanger with 90K string weight on hanger.	18,814.0	18,814.0		
10:45	0.5	11:15	PROD, CASE & CMT	RD_CSG	NORMAL	Rig down casing tools.	18,814.0	18,814.0		
11:15	2.75	14:00	PROD, CASE & CMT	CIRC	NORMAL	Circulate surface to surface cutting mw back to 12.8 for cement operations, Full Returns, 1150 psi, 6 bbls/min.  Held PJSM with Schlumberger over cementing.	18,814.0	18,814.0		
14:00	0.5	14:30	PROD, CASE & CMT	RU_CMT	NORMAL	Rig down crt, rig up cement head.	18,814.0	18,814.0		
14:30	4.75	19:15	PROD, CASE & CMT	CMT	NORMAL	Pressure test lines to 8500 psi, pumped 50 bbls MPE @ 12.5 ppg, Pumped 766 bbls Tail slurry @ 13.0 ppg. Drop bottom plug, pumped 5 bbl's retarded water, dropped top plug. Start displacement with 35 bbl's retarded water, 377 bbl's fresh water w/corrosion inhibitor (Calculated Disp = 417 bbl's), At final stage of displacement slowed down to 3 BPM, observed bottom plug bump land @ 2530 psi and rupture @ 3307 psi, Let pressure stabilize, Pumped 3 bpm and observed Bump top plug T/ 4010 psi (1500 psi over FCP of 2515 psi), Held pressure for 5 min. Bled back 5.5 bbl's, floats held. Full returns throught job, got back 40 bbls of spacer & 160 bbls of contaminated cmt	18,814.0	18,814.0		
19:15	0.75	20:00	DEMOB, RIG DOWN	RD_CMT	NORMAL	Rig down Schlumberger circulating iron, and standpipe and cement head. Flush thru stack while rigging down iron	18,814.0	18,814.0		
20:00	1.25	21:15	DEMOB, RIG DOWN	WH	NORMAL	Remove landing joint, wash through stack, install packoff, overpull 40K and held 5000 psi on seals, good test, installed BPV.	18,814.0	18,814.0		
21:15	0.25	21:30	DEMOB, RIG DOWN	RD RDMO	NORMAL	Blowdown and disconnect mudlines, remove trip nipple, etc	18,814.0	18,814.0		
Daily Drilling Report										
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Printed: Tuesday, May 11, 2021										



UNIVERSITY W2-34D 4H

PATTERSON - UTI - 804

Accept: 4/27/2021Release: 5/11/2021

Days Since LTI: 1,000.00Days Since RI: 227.00

PERMIAN - JV SOUTHERN WOLFCAMP

Job: ODR

Report Date: 5/11/2021

Report #: 16

DFS: 14

AFE #: 9011466

Total AFE + Sup: \$2,596,759.42

Daily Field Est. (Cost): \$202,644.33

Time Log															
Start Time	Dur (hr)	End Time	Phase	Operation	Ops Category	Com		Start Depth (ftKB)	End Depth (ftKB)	Prob Hrs (hr)	Prob Ref #				
21:30	3.5	01:00	DEMOB, RIG DOWN	ND_BOPE	NORMAL	Nipple down BOPE, flowline etc.		18,814.0	18,814.0						
01:00	0.5	01:30	DEMOB, RIG DOWN	WH	NORMAL	Install abandonment cap & test to 5000 PSI for 10 mintes- test good. Release Rig @ 14:30 on 4-14-21		18,814.0	18,814.0						
Hydraulic Calculations															
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)				
Mud Checks															
Time 18:00		Mud Company PIONEER DRILLING FLUIDS			Type OIL BASE		Depth (ftKB) 18,814.0	Density (lb/gal) 12.90	Funnel Viscosity (s/qt) 95	T Flowline (°F) 0.0					
PV (cP) 29.0	YP (lb/100ft²) 20.000	Vis 3rpm 13	Vis 6rpm 14	Filtrate (mL/30min)		HTHP Filtrate (mL/30min) 23.0		HTHP Temperature (°F) 250.0		HTHP Pressure (psi) 500.0					
Solids (%) 27.5		Low Gravity Solids (%) 11.6		Sand (%)		MBT (lb/bbl)		Pm (mL/mL)		Pf (mL/mL)					
Chlorides (mg/L) 27,000		Calcium (mg/L) 7,200		CaCl (ppm)	Oil Water Ratio 81/19		Electric Stab (V) 554.0		Lime (lb/bbl) 2.6		pH				
Gel 10 sec (lb/100ft²) 23.000				Gel 10 min (lb/100ft²) 35.000				Gel 30 min (lb/100ft²) 36.000							
Comment RECOMMENDED FLUIDS TREATMENT Lowering MW in the active system to a 12.8 ppg while circulating. Adding diesel @ 5.4 bbls and water @ 2.1 bbls.															
DRILLING FLUIDS ACTIVITY LAST 24 HRS Circulating active system over the shakers. Running centrifuge / dilution to lower MW to a 12.8 ppg. Transfer all chemicals to the new location. Derrick did inspection of all shakers. Transferring 12.8 ppg OBM to Buckeye for storage. Will reconcile total volume of OBM once I receive a total from Buckeye.															
Last BOP Test															
Date		Test Type		Item Tested		Next Test Date		Com							
4/27/2021		BOP		BOP'S, 4/27/2021 13:30, <class>		5/18/2021		Full BOP test							
Leak Off and Formation Integrity Tests															
Test Type				Depth (ftKB)				Dens Fluid (lb/gal)							
FORMATION INTEGRITY				1,104.0				12.43							
FORMATION INTEGRITY				8,103.0				13.51							
Casing Pressure Test															
Test Type		Test Subtype			Date		Item Tested		Failed?	Time (min)	P (psi)				
CASING		STANDARD			11/27/2020		SURFACE, 1,084.2ftKB		No	30.00	1,000.0				
Kick Offs & Key Depths															
Date				Type			Top Depth (ftKB)		Depth Top (TVD) (ftKB)						
5/2/2021 04:00				KICK OFF			8,265.0		8,207.5						
5/3/2021 18:00				HEEL			9,086.0		8,774.8						
5/8/2021 04:45				KICK OFF			18,814.0		8,848.9						
Casing Strings															
Description	Set Depth (ftKB)		Set Depth (TVD) (ftKB)		OD (in)	Grade	Wt/Len (lb/ft)		Top Thread		P LeakOff (psi)				
CONDUCTOR	128.0				20	H40	78.67								
SURFACE	1,084.2		1,083.9		13 3/8	K55	54.50		BTC		712.8				
INTERMEDIATE	8,160.0		8,102.5		9 5/8	L80	40.00		BTC		5,644.9				
PRODUCTION	18,796.0		8,848.8		5 1/2	P110-IC	20.00		TXPBTC						
Cement															
PRODUCTION CASING CEMENT, Casing, 5/10/2021 14:30															
Cementing End Date 5/10/2021 19:15		Wellbore ORIGINAL		Technical Result SUCCESS		Comment									
Cement Stages															
Description 5.5" Prod Cement				Final Top De... 2,893.0	Btm (ftKB) 18,792.0	Top Pl... Yes	Btm Pl... Yes	Q Pump Init (... 6	Q Pump Fina... 9	Q Pump Avg... 7	P Pump Final... 4,010.0	P Plug Bump... 2,515.0	Float... No	Recip? No	Rotated? No
Cement Fluids															
Fluid Type MUDPUSH					Estimated Top (ftKB) 0.0		Est Btm (ftKB) 2,893.0		Class		Yield (ft³/sack)	Density (lb/gal) 12.50			
Fluid Type TAIL CMT					Estimated Top (ftKB) 2,893.0		Est Btm (ftKB) 18,792.0		Class TXI LITEWEIGHT		Yield (ft³/sack) 1.39	Density (lb/gal) 13.00			
Fluid Type DSPLMT					Estimated Top (ftKB) 30.3		Est Btm (ftKB) 18,784.0		Class		Yield (ft³/sack)	Density (lb/gal) 8.33			
Gas Emissions - Flare															
Type		Method		Dur (min)	Amount		Units	Com							
Job Supply Amounts															
Supply Item Des		Type	Unit Label	Received	Consumed	Returned	Note		Cum On Loc	Cum Consumed					
DIESEL		FUEL	GAL	0	1,100	7,543	Rig Fuel		0	35,644.0					
DIESEL		FUEL	GAL			0	Transferred to 'UNIVERSITY-RATLIFF W58-7A 1H'		0	35,644.0					
DIESEL		MUD	GAL	0	2,646		Mud Diesel		0	35,262.0					
DIESEL		MUD	GAL			0	Transferred to 'UNIVERSITY-RATLIFF W58-7A 1H'		0	35,262.0					
DIESEL		FUEL	GAL			412	Transferred to 'UNIVERSITY-RATLIFF W58-7A 1H'		0	0.0					
WATER		FRESH	BBL			0	Transferred to 'UNIVERSITY-RATLIFF W58-7A 1H'		0	4,232.0					
WATER		FRESH	BBL			0	Transferred to 'UNIVERSITY-RATLIFF W58-7A 1H'		0	6,719.0					
Daily Drilling Report															
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# Daily Drilling Report

**PATTERSON - UTI - 804**

Accept: 4/27/2021	Release: 5/11/2021
Days Since LTI:	Days Since RI: 227.00
1,000.00	

<b>PERMIAN - JV SOUTHERN WOLFCAMP</b>	
<b>Job:</b>	<b>ODR</b>
<b>Report Date:</b>	<b>5/11/2021</b>
<b>Report #:</b>	<b>16</b>
<b>DFS:</b>	<b>14</b>
<b>AFE #:</b>	<b>9011466</b>
<b>Total AFE + Sup:</b>	<b>\$2,596,759.42</b>
<b>Daily Field Est. (Cost):</b>	<b>\$202,644.33</b>

## Daily Drilling Report