

H & P 417

Accept:12/20/2022

Release:

Days Since LTI:558.00

Days Since RI:558.00

Daily Drilling Report

PERMIAN ASSET TEAM

Job:ODR

Report Date:02/10/2023

Report #:10

DFS:6

AFE #:9019713

Total AFE + Sup:\$3,798,607.26

Daily Field Est. (Cost):\$140,020.61

API/UWI 42-003-48491-0000		Well Profile HORIZONTAL		Open Formation LOWER SPRABERRY SHALE (SPBY L C1)			Field Name SPRABERRY (TREND AREA)									
SSN ID00003259		Property Sub		KB-Grd (ft) 26.00		Orig KB Elevation (ft) 2,990.00		Ground Elevation (ft) 2,964.00		Spud Date 11/3/2022		TD Date				
Jobs																
Responsible Grp 2				Responsible Grp 3			Job Type		Start Date			End Date		Job Status		
DRL ENG - JACKIE LUTHER				AREA TEAM 2			ODR		11/3/2022 01:30					IN PROGRESS		
Job Dates (ex. Estimated Pad Release, TXRRC Calls)																
Type		Subtype			Date		Note									
MILESTONE		ESTIMATED PAD RELEASE			3/5/2023		Batch Drilling 5th Prod. well on 6 well pad (Updated 2/10/23)plus one C/O and run casing.									
Daily Operations																
Footage/Meterage (ft) 0.00			Drilling Hours		% Rotating Time		End Depth (ftKB) 6,896.0		Target Depth (ftKB) 24,992.0		Daily Field Est Total \$140,020.61			Cum Field Est To Date \$1,657,170.37		
24 HR ROP (ft/hr)		Circulating Hours		% Sliding Time		End Depth (TVD) (ftKB) 6,865.4		Target Depth Depth (TVD) (ftKB) 9,552.6		Daily Mud Field Est Total \$			Cum Mud Field Est \$42,814.67		Total AFE + Sup \$3,798,607.26	
Daily Goal Description DRILLED FEET					Daily Goal - Last 24 0.0				Daily Goal - Next 24 500.0				Goal Comments Goal met			
Backbuild Yes		Lateral Inclination Toe Flat		Last Casing String INTERMEDIATE, 6,883.0ftKB						Next Casing String PROPOSED PRODUCTION, 24,993.0ftKB						
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 Walk rig F/University 7-20C 3H, NU BOPE & Test., install wear bushing, PU 8.75" DO BHA, TIH, test csg																
Operations Next Report Period Drill cmt & ST, drill 10' new formation, circ, perform FIT, TOH for 8.5" RSS BHA', PU 8.5" Baker RSS BHA, TIH, Drill 8.5" Prod Vert. w/RSS T/ 7,406																
Operations At Report Time Installing rotaing head																
Remarks No Accidents, Incidents or Spills Reported Surface: 100% Complete Intermediate1: 100% Complete Production Vert: 0% Complete Production Curve: 0 % Complete Production Lateral: 0% Complete Savor Sub:0' Daily NPT:0 H&P:5 3rd Party:8.25 Pioneer: 0																
Time Log																
Start Time	Dur (hr)	End Time	Phase	Operation	Ops Category	Com				Start Depth (ftKB)	End Depth (ftKB)	Prob Hrs	Prob Ref #			
22:15	0.25	22:30	PROD, PRE DRL	SFTY	NORMAL	PJSM with H&P on rig skid				6,896.0	6,896.0					
22:30	0.5	23:00	PROD, PRE DRL	SKID	NORMAL	Walk F/University 7-20C 3H T/University 7-20D 4H.				6,896.0	6,896.0					
23:00	0.25	23:15	PROD, PRE DRL	NU_BOPE	NORMAL	Nipple up 36" Spacer spool and BOPE.				6,896.0	6,896.0					
23:15	0.25	23:30	PROD, PRE DRL	SFTY	NORMAL	PJSM with H&P & Walker testers on test BOPE.				6,896.0	6,896.0					
23:30	1.75	01:15	PROD, PRE DRL	TEST_BOPE	NORMAL	Test BOP Rams 250psi Low / 5,000psi High, floor valves & mud pumps 250psi Low / 6,200psi High, Annular 250psi Low / 3500psi High.				6,896.0	6,896.0					
01:15	0.25	01:30	PROD, PRE DRL	WRBSH	NORMAL	Install wear bushing.				6,896.0	6,896.0					
01:30	0.25	01:45	PROD, PRE DRL	SFTY	NORMAL	PJSM with H&P & Baker on P/U BHA				6,896.0	6,896.0					
01:45	0.5	02:15	PROD, PRE DRL	HDL_BHA	NORMAL	Pick up 8.75" Drill Out BHA.				6,896.0	6,896.0					
02:15	3.25	05:30	PROD, PRE DRL	TIH_ELEV	NORMAL	TIH F/BHA T/6,709', correct displacement.				6,896.0	6,896.0					
05:30	0.5	06:00	PROD, PRE DRL	HDL_ROTHD	NORMAL	Install rotating head.				6,896.0	6,896.0					
Drill Strings																
BHA #4 , DRILL OUT																
Bit Run 3 8 3/4, CF611, 63440				Drill Bit				Bit Type PDC				Make ULTERRA				
Nozzles (1/32")				Bit Total Fluid Area (nozzles) (in²)			IADC Bit Dull			Hours Drilled By Bit (hr)			Depth Drilled By Bit (ft)			

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		
211	DRILL PIPE	5	3.50	6,659.54	6,709.50	129,861.0	130	RIG		
1	SUB - FILTER	6 11/16	3.31	3.77	49.96		0	DRILLING TOOLS INTERNATIONAL		
1	MOTOR - STABILIZER SLEEVE	7	3.00	41.28	46.19		0	GE/BAKER HUGHES		
1	SUB -BIT	6 3/4	3.50	3.96	4.91		0	RIG		
Mud Motors										
SN		Bend Angle		Bearing Type		Lobe Config		# Stages	Bit To Bend	
15869114		.25		SEALED		6:7		10.6	0.25	
Sensors										
Sensor Type		Sensor-Bit (ft)				Note				
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)
Last BOP Test										
Date		Test Type	Item Tested			Next Test Date		Com		
2/10/2023 01:15		BOP	BOP'S, 12/20/2022 03:00			3/3/2023 01:15		Test BOP 5000 High /250 Low		
Leak Off and Formation Integrity Tests										
Test Type					Depth (ftKB)			Dens Fluid (lb/gal)		
FORMATION INTEGRITY					1,945.0			12.98		
Casing Pressure Test										
Test Type	Test Subtype	Date		Item Tested			Failed?	Time (min)	P (psi)	
CASING	STANDARD	11/8/2022 11:00		SURFACE, 1,936.0ftKB			No	30.00	1,000.0	
Kick Offs & Key Depths										
Date		Type	Top Depth (ftKB)			Depth Top (TVD) (ftKB)				
No Data										
Casing Strings										
Description	Set Depth (ftKB)		Set Depth (TVD) (ftKB)		OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)	
CONDUCTOR	106.0		106.0		20	H40	78.67			
SURFACE	1,936.0		1,935.6		13 3/8	J55	54.50	BTC		
INTERMEDIATE	6,883.0		6,852.4		9 5/8	L80-IC	40.00	BTC		
Gas Emissions - Flare										
Type		Method		Dur (Min)		Amount		Units	Com	
No Data										
Job Supply Amounts										
Supply Item Des	Type	Unit Label	Received	Consumed	Returned	Note		Cum On Loc	Cum Consumed	
DIESEL	FUEL	GAL	25934			Transferred from' UNIVERSITY 7-20C 3H'		25,934	13694	
DIESEL	MUD	GAL	12142			Transferred from' UNIVERSITY 7-20C 3H'		12,142	2300	
WATER	FRESH	BBL	0	0	0	Water Meter Start: 6,765		0	12660.16	
Mud Additive Amounts										
Des	Type	Units	Rec	Consumed		On Loc		Cum Cons		
Pump Operations										
Pump #	Make		Model		Liner Size (in)	Stroke (in)	Vol/Stk (bbl/stk)	P Max (psi)		
1	GARDNER-DENVER		PZ-11-1600		5 1/2	11.00	0.081	7,500.0		
2	GARDNER-DENVER		PZ-11-1600		5 1/2	11.00	0.081	7,500.0		
3	GARDNER-DENVER		PZ-11-1600		5 1/2	11.00	0.081	7,500.0		
Pump Checks										
Pump #	Depth (ftKB)		Time	P (psi)	Strokes (spm)		Q Flow (gpm)		Eff (%)	
No Data										
Deviation Surveys										
Date			Description			Job				
11/3/2022 04:30			AS DRILL SURVEY			ODR, 11/3/2022 01:30				
Formations										
Formation Name			Prog Top Override (TVD SS) (ft(elv))		Prog Top MD (ftKB)	Prog Top (TVD) (ftKB)	Final Top MD (ftKB)	Final Top (TVD) (ftKB)		
267_0_SPBY_U_A1/267_0_SPBY			-5,440.0			8,430.0	8,610.0			
267_5_SPBY_M_A1			-5,753.0			8,743.0	9,002.0			
268_5_SPBY_L_A1			-5,984.0			8,974.0				
ALT_ICP2			-6,134.0			9,124.0				
268_5_SPBY_L_A2			-6,033.0			9,023.0				
268_5_SPBY_L_A3			-6,117.0			9,107.0				
268_6_SPBY_L_B1/JO MILL			-6,272.0			9,262.0				
268_7_SPBY_L_C1/LOWER SPRABERRY SHALE			-6,321.0			9,311.0				
ILP			-6,580.0			9,570.0				
PBHL/TD			-6,562.0			9,552.0				
269_0_DEAN			-6,639.0			9,629.0				
304_0_STRAWN			-8,065.0			11,055.0				
Daily Contacts										
Job Contact				Title		Office	Mobile	Email		
RICHARDSON, KEN, AREA DRILLING SUPERINTENDENT				AREA DRILLING SUPERINTENDENT		432-571-2557	432-557-8128	KEN.RICHARDSON@PXD.COM		

SPACEK, KYLE, ENGINEER	ENGINEER	432-571-2800	432-438-0187	KYLE.SPACEK@PXD.COM
LUTHER, JACKIE, ENGINEER	ENGINEER	972-969-5626	303-512-3803	JACKIE.LUTHER@PXD.COM
JAY, JON, SUPERINTENDENT	SUPERINTENDENT	432-571-2454	432-234-2702	JON.JAY@PXD.COM
TRANSIER, KENNETH, SUPERINTENDENT	SUPERINTENDENT		318-481-3868	KENNETH.TRANSIER@PXD.COM
SATTERFIELD, JOHN, WELLSITE SUPERVISOR	WELLSITE SUPERVISOR		337-578-5339	JOHN.SATTERFIELD@PXD.COM
ASH, WARREN, WELLSITE SUPERVISOR	WELLSITE SUPERVISOR		661-333-4101	WARREN.ASH@PXD.COM
WIEST, JUSTIN, MUD ENGINEER	MUD ENGINEER		308-249-2818	JUSTIN.WIEST@PXD.COM
RIG-H&P 417, RIG PHONE	RIG PHONE	361-489-3691		DL-HP417@PXD.COM
Personnel Log				
Company				Count
PIONEER NATURAL RESOURCES USA INC				2
PIONEER NATURAL RESOURCES USA INC				1
HELMERICH & PAYNE INTERNATIONAL DRILLING CO				13
BAKER HUGHES OILFIELD OPERATIONS INC				3
MID CONTINENT WELL LOGGING SERVICE INC				2
STALLION SOLIDS CONTROL INC				1

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Accept:	12/20/2022
Release:	
Days Since LTI:	559.00
Days Since RI:	559.00

Daily Drilling Report

PERMIAN ASSET TEAM	
Job:	ODR
Report Date:	02/11/2023
Report #:	11
DFS:	7
AFE #:	9019713
Total AFE + Sup:	\$3,798,607.26
Daily Field Est. (Cost):	\$55,634.98

API/UWI 42-003-48491-0000		Well Profile HORIZONTAL		Open Formation LOWER SPRABERRY SHALE (SPBY L C1)			Field Name SPRABERRY (TREND AREA)				
SSN ID00003259		Property Sub	KB-Grd (ft) 26.00		Orig KB Elevation (ft) 2,990.00		Ground Elevation (ft) 2,964.00		Spud Date 11/3/2022	TD Date	
Jobs											
Responsible Grp 2			Responsible Grp 3			Job Type	Start Date		End Date	Job Status	
DRL ENG - JACKIE LUTHER			AREA TEAM 2			ODR	11/3/2022 01:30			IN PROGRESS	
Job Dates (ex. Estimated Pad Release, TXRRC Calls)											
Type	Subtype		Date	Note							
MILESTONE	ESTIMATED PAD RELEASE		3/5/2023	Batch Drilling 5th Prod. well on 6 well pad (Updated 2/10/23)plus one C/O and run prod casing.							
Daily Operations											
Footage/Meterage (ft) 784.00		Drilling Hours 4.25	% Rotating Time 100.00		End Depth (ftKB) 7,680.0		Target Depth (ftKB) 24,992.0		Daily Field Est Total \$55,634.98		Cum Field Est To Date \$1,717,157.35
24 HR ROP (ft/hr) 184.5	Circulating Hours	% Sliding Time 0.00	End Depth (TVD) (ftKB) 7,649.0		Target Depth Depth (TVD) (ftKB) 9,552.6		Daily Mud Field Est Total \$3,465.80		Cum Mud Field Est \$46,280.47	Total AFE + Sup \$3,798,607.26	
Daily Goal Description DRILLED FEET			Daily Goal - Last 24 500.0			Daily Goal - Next 24 1,800.0			Goal Comments Goal met		
Backbuild Yes	Lateral Inclination Toe Flat	Last Casing String INTERMEDIATE, 6,883.0ftKB					Next Casing String PROPOSED PRODUCTION, 24,993.0ftKB				
Avg Connection Gas 0.00		Avg Trip Gas 71.00		Avg Background Gas 54.00		Max Connection Gas 0.00		Max Trip Gas 72.00		Max Drill Gas 56.00	
Operations Summary Pressure test casing to 2500 psi. drill cmt & ST, drill 10' new formation, circ, perform FIT, TOH for 8.5" RSS BHA', PU 8.5" Baker RSS BHA, TIH, Drill 8.5" Prod Vert. w/RSS T/ 7,680' SD: 7,371', Inc: 0.14°, Amz:330.42°, Avg DLS: 2.35°, Below:3.91', Left:9.97'											
Operations Next Report Period Drill 8.5" Prod Vert. w/RSS T/8,979', Drill Prod Curve w/RSS.											
Operations At Report Time Drilling Prod Vert w/RSS @ 7,680'.											
Remarks No Accidents, Incidents or Spills Reported Surface: 100% Complete Intermediate1: 100% Complete Production Vert: 41% Complete Production Curve: 0 % Complete Production Lateral: 0% Complete Savor Sub:774' Daily NPT:0 H&P:5 3rd Party:8.25 Pioneer: 0											
Time Log											
Start Time	Dur (hr)	End Time	Phase	Operation	Ops Category	Com		Start Depth (ftKB)	End Depth (ftKB)	Prob Hrs	Prob Ref #
06:00	1	07:00	PROD, PRE DRL	CSG_TEST	NORMAL	Test Csg to 2,500psi for 30 mins, good test.		6,896.0	6,896.0		
07:00	2	09:00	PROD, PRE DRL	DRL_OUT	NORMAL	Drill out cement & shoe track F/6,773' T/6,870', RPM:30, GPM's:335, WOB:5-10, TQ:7K. F/C: 6,773' Shoe 6,870' Rat hole 6,896'		6,896.0	6,896.0		
09:00	0.25	09:15	PROD, PRE DRL	DRL	NORMAL	Drill 10' New Formation F/6,896' T/6,906', (10' @ 40 fph), WOB:10, RPM:30, GPM:335, SPP:700 psi, Diff:300 psi, TQ:.6K, with full returns.		6,896.0	6,906.0		
09:15	1.25	10:30	PROD, PRE DRL	CIRC	NORMAL	Circulate BU, displace hole w/OBM prior to FIT.		6,906.0	6,906.0		
10:30	0.5	11:00	PROD, PRE DRL	SFTY	NORMAL	Safety stand down on dropped objects, communication, accountability, Taking the time to do things right, Culture, Safety awareness, stopping the Job		6,906.0	6,906.0		
11:00	0.5	11:30	PROD, PRE DRL	FIT	NORMAL	Perform FIT to EMW:9.5 w/ AMW:8.5 @ 355 psi. Test good.		6,906.0	6,906.0		
11:30	0.5	12:00	PROD, PRE DRL	FLOW_CHK	NORMAL	Flow check, well static.		6,906.0	6,906.0		
12:00	0.5	12:30	PROD, PRE DRL	HDL_ROT HD	NORMAL	Remove Rot. head & install trip nipple.		6,906.0	6,906.0		
12:30	2.5	15:00	PROD, PRE DRL	TOOH_ELEV	NORMAL	TOH for 8.5" Dir BHA F/6,880' T/BHA, hole taking		6,906.0	6,906.0		

						correct fill.				
15:00	0.25	15:15	PROD, PRE DRL	SFTY	NORMAL	Safety Meeting clean rig floor prior to PU RSS	6,906.0	6,906.0		
15:15	0.25	15:30	PROD, PRE DRL	LD_DIR	NORMAL	Break bit & LD DO Mtr.	6,906.0	6,906.0		
15:30	1	16:30	PROD, PRE DRL	PU_DIR	NORMAL	Pick up 8.5" Baker RSS BHA #4 Bit:8.5" Reed TKC66 RSS AutoTrak	6,906.0	6,906.0		
16:30	2	18:30	PROD, PRE DRL	TIH_ELEV	NORMAL	TIH F/BHA T/3110, with proper displacemnet Strap In hole	6,906.0	6,906.0		
18:30	1	19:30	PROD, PRE DRL	CIRC	NORMAL	Sending diagnostic DKL	6,906.0	6,906.0		
19:30	2.25	21:45	PROD, PRE DRL	TIH_ELEV	NORMAL	TIH F/3,110'T/6,730', with proper displacemnet Strap In hole	6,906.0	6,906.0		
21:45	1.5	23:15	PROD, PRE DRL	SLIP_CUT	NORMAL	Slip & cut drill line.	6,906.0	6,906.0		
23:15	0.25	23:30	PROD, PRE DRL	HDL_ROT HD	NORMAL	Pull trip nipple, Install rotaing head	6,906.0	6,906.0		
23:30	6.5	06:00	PROD, PRE DRL	DRL	NORMAL	Drill 8.5" Prod Vert F/6,906' T/7,680' (774' @ 119 fph), WOB:35, GPM 450, SPP:1,700, Diff:900, RPM:40, TQ:10K, with full returns. SD: 7,371', Inc: 0.14°, Amz:330.42°, Avg DLS: 2.35°, Below:3.91', Left:9.97'	6,906.0	7,680.0		

Drill Strings

BHA #4 , DRILL OUT

Bit Run	Drill Bit	Bit Type	Make
3	8 3/4, CF611, 63440	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	1-1-WT-A-X-0-NO-TD	4.25
BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)
	784.00	184.5	6,896.0
			Depth Out (ftKB)
			7,680.0

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)	Wt (lbf)	Cum Wt (1000lbf)	Make
217	DRILL PIPE	5	3.50	6,856.04	6,906.00	133,692.8	134	RIG
1	SUB - FILTER	6 11/16	3.31	3.77	49.96		0	DRILLING TOOLS INTERNATIONAL
1	MOTOR - STABILIZER SLEEVE	7	3.00	41.28	46.19		0	GE/BAKER HUGHES
1	SUB -BIT	6 3/4	3.50	3.96	4.91		0	RIG

Mud Motors

SN	Bend Angle	Bearing Type	Lobe Config	# Stages	Lwr Defln Type	Bit To Bend
15869114	.25	SEALED	6:7	10.6		0.25

Sensors

Sensor Type	Sensor-Bit (ft)	Note
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BHA #5 , PRODUCTION - VERTICAL/CURVE

Bit Run	Drill Bit	Bit Type	Make
5	8 1/2, TKC66-A1, A274931	PDC	REED
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	-----	4.25
BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)
4.25	784.00	184.5	6,896.0
			Depth Out (ftKB)
			7,680.0

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)	Wt (lbf)	Cum Wt (1000lbf)	Make
240	DRILL PIPE	5	4.28	7,558.72	7,680.00	147,395.0	147	RIG
1	SUB - FILTER	6 3/4	2.25	3.77	121.28		0	GE/BAKER HUGHES
1	MOTOR - STABILIZER SLEEVE	7 1/8	1.75	41.28	117.51		0	GE/BAKER HUGHES
1	ANTI-STALL TOOL	7	3.00	26.53	76.23		0	ARSENAL
1	STABILIZER	7	2.88	11.13	49.70		0	GE/BAKER HUGHES
1	MWD TOOL - NON-RETRIEVABLE	7	4.83	12.65	38.57		0	GE/BAKER HUGHES
1	RSS TOOL	7	3.25	15.58	25.92		0	GE/BAKER HUGHES
1	RSS TOOL	7	4.33	9.34	10.34		0	GE/BAKER HUGHES

Mud Motors

SN	Bend Angle	Bearing Type	Lobe Config	# Stages	Lwr Defln Type	Bit To Bend
15869114	.25	SEALED	6:7	10.6		3.25

Sensors

Sensor Type	Sensor-Bit (ft)	Note
NEAR BIT INCLINOMETER	6.93	
GAMMA	22.44	

Drilling Parameters

Start Time	End Time	Start Depth (ftKB)	Int Depth (ft)	Int ROP (ft/hr)	WOB (1000lbf)	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 (°)
23:30	06:00	6,896.0	784.00	184.5	25	27	700.0	466	2,071.0	70.0	152	152	152	152	10.0	5.0	

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)
8.50	8.60	77.3	1.4	192.2	284.5	13.1	115.0	135.34	93.84	354.42

Mud Checks

Time		Mud Company			Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (° F)
2/10/2023 19:00		PIONEER DRILLING FLUIDS			OIL BASE	6,906.0	8.50	63	60.0
pV (cP)	YP (lb/100ft³)	Vis 3rpm	Vis 6rpm	Filtrate (mL/30min)	HTHP Filtrate (mL/30min)		HTHP Temperature (° F)		HTHP Pressure (psi)

	10.000	5	5		9.4	250.0	500.0	
Solids (%)	Low Gravity Solids (%)			Sand (%)	MBT (lb/bbl)	Pm (mL/mL)	Pf (mL/mL)	
9.5	8.2							
Chlorides (mg/L)	Calcium (mg/L)	CaCl (ppm)	Oil Water Ratio		Electric Stab (V)	Lime (lb/bbl)	pH	
24,000	3,200.000	0	79.6/20.4		631.0	2.6		
Gel 10 sec (lb/100ft²)			Gel 10 min (lb/100ft²)			Gel 30 min (lb/100ft²)		
8.000			13.000			15.000		
Comment								
CCI - NO PSI								
Mud Checks								
Time	Mud Company			Type	Depth (ftKB)	Density (lb/gal)	T Flowline (° F)	
2/10/2023 07:00	PIONEER DRILLING FLUIDS			OIL BASE	6,896.0	8.50	65	50.0
pV (cP)	YP (lb/100ft²)	Vis 3rpm	Vis 6rpm	Filtrate (mL/30min)	HTHP Filtrate (mL/30min)	HTHP Temperature (° F)	HTHP Pressure (psi)	
	8.000	5	5		8.8	250.0	500.0	
Solids (%)	Low Gravity Solids (%)			Sand (%)	MBT (lb/bbl)	Pm (mL/mL)	Pf (mL/mL)	
9.5	8.2							
Chlorides (mg/L)	Calcium (mg/L)	CaCl (ppm)	Oil Water Ratio		Electric Stab (V)	Lime (lb/bbl)	pH	
23,000	3,200.000	0	79.6/20.4		625.0	2.6		
Gel 10 sec (lb/100ft²)			Gel 10 min (lb/100ft²)			Gel 30 min (lb/100ft²)		
8.000			13.000			15.000		
Comment								
CCI - NO PSI								
Last BOP Test								
Date	Test Type	Item Tested			Next Test Date	Com		
2/10/2023 01:15	BOP	BOP'S, 12/20/2022 03:00			3/3/2023 01:15	Test BOP 5000 High /250 Low		
Leak Off and Formation Integrity Tests								
Test Type				Depth (ftKB)		Dens Fluid (lb/gal)		
FORMATION INTEGRITY				1,945.0		12.98		
FORMATION INTEGRITY				6,870.0		9.50		
Casing Pressure Test								
Test Type	Test Subtype	Date	Item Tested			Failed?	Time (min)	P (psi)
CASING	STANDARD	11/8/2022 11:00	SURFACE, 1,936.0ftKB			No	30.00	1,000.0
CASING	STANDARD	2/10/2023 06:00	PROPOSED INTERMEDIATE, 6,882.0ftKB			No	30.00	2,500.0
Kick Offs & Key Depths								
Date	Type	Top Depth (ftKB)			Depth Top (TVD) (ftKB)			
No Data								
Casing Strings								
Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)	
CONDUCTOR	106.0	106.0	20	H40	78.67			
SURFACE	1,936.0	1,935.6	13 3/8	J55	54.50	BTC		
INTERMEDIATE	6,883.0	6,852.4	9 5/8	L80-IC	40.00	BTC	3,375.0	
Gas Emissions - Flare								
Type	Method	Dur (Min)		Amount	Units	Com		
No Data								
Job Supply Amounts								
Supply Item Des	Type	Unit Label	Received	Consumed	Returned	Note	Cum On Loc	Cum Consumed
DIESEL	FUEL	GAL		2109		Rig Fuel	23,825	15803
DIESEL	MUD	GAL		925		Mud Diesel	11,217	3225
Mud Additive Amounts								
Des			Type	Units	Rec	Consumed	On Loc	Cum Cons
DRILLING FLUID TECH			SUPERVISION	EA	1	1	0.0	6
TRUCKING			MISCELLANEOUS	EA	1	1	0.0	4
BULK BARITE - BARIUM SULFATE			WEIGHTING MATERIAL	TON	41.53	4	37.53	45
PMDHYPDF-A200			SHAKER SCREEN	EA	35	6	29.0	6
DD WET			WETTING AGENT	GAL	700	10	690.0	10
TECH SERVICE SUPPORT			SUPERVISION	EA	350	350	0.0	2,100
Pump Operations								
Pump #	Make	Model	Liner Size (in)	Stroke (in)	Vol/Stk (bbl/stk)		P Max (psi)	
1	GARDNER-DENVER	PZ-11-1600	5 1/2	11.00	0.081		7,500.0	
2	GARDNER-DENVER	PZ-11-1600	5 1/2	11.00	0.081		7,500.0	
3	GARDNER-DENVER	PZ-11-1600	5 1/2	11.00	0.081		7,500.0	
Pump Checks								
Pump #	Depth (ftKB)	Time	P (psi)	Strokes (spm)	Q Flow (gpm)		Eff (%)	
No Data								
Deviation Surveys								
Date		Description	Job					
11/3/2022 04:30		AS DRILL SURVEY	ODR, 11/3/2022 01:30					
Survey Data - All surveys for 24 hr reporting period								
MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	
6,993.00	0.11	105.87	6,962.42	-96.68	221.47	484.48	1.29	
7,088.00	4.31	234.53	7,057.33	-95.33	219.37	481.66	4.61	
7,182.00	3.40	246.16	7,151.12	-93.57	216.19	476.23	1.27	

7,276.00	2.19	225.32	7,245.01	-92.19	213.80	472.40	1.66
7,371.00	0.14	330.42	7,339.99	-91.38	212.63	471.06	2.35
Formations							
Formation Name		Prog Top Override (TVD SS) (ft(elv))	Prog Top MD (ftKB)	Prog Top (TVD) (ftKB)	Final Top MD (ftKB)	Final Top (TVD) (ftKB)	
267_0_SPBY_U_A1/267_0_SPBY		-5,440.0		8,430.0	8,610.0		
267_5_SPBY_M_A1		-5,753.0		8,743.0	9,002.0		
268_5_SPBY_L_A1		-5,984.0		8,974.0			
ALT_ICP2		-6,134.0		9,124.0			
268_5_SPBY_L_A2		-6,033.0		9,023.0			
268_5_SPBY_L_A3		-6,117.0		9,107.0			
268_6_SPBY_L_B1/JO MILL		-6,272.0		9,262.0			
268_7_SPBY_L_C1/LOWER SPRABERRY SHALE		-6,321.0		9,311.0			
ILP		-6,580.0		9,570.0			
PBHL/TD		-6,562.0		9,552.0			
269_0_DEAN		-6,639.0		9,629.0			
304_0_STRAWN		-8,065.0		11,055.0			
Daily Contacts							
Job Contact		Title	Office	Mobile	Email		
RICHARDSON, KEN, AREA DRILLING SUPERINTENDENT		AREA DRILLING SUPERINTENDENT	432-571-2557	432-557-8128	KEN.RICHARDSON@PXD.COM		
SPACEK, KYLE, ENGINEER		ENGINEER	432-571-2800	432-438-0187	KYLE.SPACEK@PXD.COM		
LUTHER, JACKIE, ENGINEER		ENGINEER	972-969-5626	303-512-3803	JACKIE.LUTHER@PXD.COM		
JAY, JON, SUPERINTENDENT		SUPERINTENDENT	432-571-2454	432-234-2702	JON.JAY@PXD.COM		
TRANSIER, KENNETH, SUPERINTENDENT		SUPERINTENDENT		318-481-3868	KENNETH.TRANSIER@PXD.COM		
SATTERFIELD, JOHN, WELLSITE SUPERVISOR		WELLSITE SUPERVISOR		337-578-5339	JOHN.SATTERFIELD@PXD.COM		
ASH, WARREN, WELLSITE SUPERVISOR		WELLSITE SUPERVISOR		661-333-4101	WARREN.ASH@PXD.COM		
WIEST, JUSTIN, MUD ENGINEER		MUD ENGINEER		308-249-2818	JUSTIN.WIEST@PXD.COM		
RIG-H&P 417, RIG PHONE		RIG PHONE	361-489-3691		DL-HP417@PXD.COM		
Personnel Log							
Company							Count
PIONEER NATURAL RESOURCES USA INC							2
PIONEER NATURAL RESOURCES USA INC							1
HELMERICH & PAYNE INTERNATIONAL DRILLING CO							13
BAKER HUGHES OILFIELD OPERATIONS INC							3
MID CONTINENT WELL LOGGING SERVICE INC							2
STALLION SOLIDS CONTROL INC							1

H & P 417	
Accept:	12/20/2022
Release:	
Days Since LTI:	560.00
Days Since RI:	560.00

PERMIAN ASSET TEAM	
Job:	ODR
Report Date:	02/12/2023
Report #:	12
DFS:	8
AFE #:	9019713
Total AFE + Sup:	\$3,798,607.26
Daily Field Est. (Cost):	\$139,680.01

Daily Drilling Report

API/UWI 42-003-48491-0000		Well Profile HORIZONTAL		Open Formation LOWER SPRABERRY SHALE (SPBY L C1)			Field Name SPRABERRY (TREND AREA)				
SSN ID00003259		Property Sub	KB-Grd (ft) 26.00		Orig KB Elevation (ft) 2,990.00		Ground Elevation (ft) 2,964.00		Spud Date 11/3/2022	TD Date	
Jobs											
Responsible Grp 2			Responsible Grp 3			Job Type	Start Date		End Date	Job Status	
DRL ENG - JACKIE LUTHER			AREA TEAM 2			ODR	11/3/2022 01:30			IN PROGRESS	
Job Dates (ex. Estimated Pad Release, TXRRC Calls)											
Type	Subtype		Date	Note							
MILESTONE	ESTIMATED PAD RELEASE		3/5/2023	Batch Drilling 5th Prod. well on 6 well pad (Updated 2/10/23)plus one C/O and run prod casing.							
Daily Operations											
Footage/Meterage (ft) 2,273.00		Drilling Hours 23.58	% Rotating Time 100.00		End Depth (ftKB) 9,953.0	Target Depth (ftKB) 24,992.0		Daily Field Est Total \$139,680.01		Cum Field Est To Date \$1,867,774.16	
24 HR ROP (ft/hr) 96.4	Circulating Hours 0.36	% Sliding Time 0.00	End Depth (TVD) (ftKB) 9,545.0		Target Depth Depth (TVD) (ftKB) 9,552.6		Daily Mud Field Est Total \$9,607.40		Cum Mud Field Est \$55,887.87	Total AFE + Sup \$3,798,607.26	
Daily Goal Description DRILLED FEET			Daily Goal - Last 24 1,800.0			Daily Goal - Next 24 3,500.0			Goal Comments Goal met		
Backbuild Yes	Lateral Inclination Toe Flat	Last Casing String INTERMEDIATE, 6,883.0ftKB				Next Casing String PROPOSED PRODUCTION, 24,993.0ftKB					
Avg Connection Gas 214.00		Avg Trip Gas 0.00	Avg Background Gas 171.00		Max Connection Gas 518.00		Max Trip Gas 0.00		Max Drill Gas 568.00		
Operations Summary											
Drill 8.5" Prod Vert. w/RSS T/8,979', Drill Prod Curve w/RSS and land at 9,953 SD:9,819', Inc: 79.58°, Amz:166.76°, Avg DLS: 11.32°, Above:48.99', Right 4.22'											
Operations Next Report Period											
Drill Prod Lateral w/RSS.											
Operations At Report Time											
Drilling Prod Lateral w/RSS at 9,953'											
Remarks											
No Accidents, Incidents or Spills Reported											
Surface: 100% Complete											
Intermediate1: 100% Complete											
Production Vert: 100% Complete											
Production Curve: 100 % Complete											
Production Lateral: 0% Complete											
Savor Sub:3057'											
Daily NPT:.0											
H&P:5											
3rd Party:8.25											
Pioneer: .5											
Time Log											
Start Time	Dur (hr)	End Time	Phase	Operation	Ops Category	Com		Start Depth (ftKB)	End Depth (ftKB)	Prob Hrs	Prob Ref #
06:00	9.25	15:15	PROD, DRL	DRL	NORMAL	Drill 8.5" Prod Vert F/7680 T/8979 (1,299 @ 173 fph), WOB:35, GPM 550, SPP:2600, Diff:800, RPM:60, TQ:10K, with full returns.		7,680.0	8,979.0		
15:15	14.75	06:00	PROD, DRL CURVE	DRL	NORMAL	Drill 8.5" Prod Curve F/8,979 T/9,953' (974' @ 6 fph), WOB:30, GPM 600, SPP:2,600, Diff:600, RPM:50, TQ:8K, . (LANDED) LANDED) SD:9,819', Inc: 79.58°, Amz:166.76°, Avg DLS: 11.32°, Above:48.99', Right 4.22'		8,979.0	9,953.0		
Drill Strings											
BHA #5 , PRODUCTION - VERTICAL/CURVE											
Bit Run		Drill Bit 5 8 1/2, TKC66-A1, A274931				Bit Type PDC		Make REED			
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) 23.58		Depth Drilled By Bit (ft) 2,273.00			
BHA Drilling Time (hr) 23.58		BHA Depth Drilled (ft) 2,273.00		BHA ROP (ft/hr) 96.4		Depth In (ftKB) 7,680.0		Depth Out (ftKB) 9,953.0			
Drill String Components											
Jts	Item Des			OD (in)	ID (in)	Len (ft)	Cum Len (ft)	Wt (lbf)	Cum Wt (1000lbf)	Make	

312	DRILL PIPE	5	4.28	9,831.72	9,953.00	191,718.5	192	RIG													
1	SUB - FILTER	6 3/4	2.25	3.77	121.28		0	GE/BAKER HUGHES													
1	MOTOR - STABILIZER SLEEVE	7 1/8	1.75	41.28	117.51		0	GE/BAKER HUGHES													
1	ANTI-STALL TOOL	7	3.00	26.53	76.23		0	ARSENAL													
1	STABILIZER	7	2.88	11.13	49.70		0	GE/BAKER HUGHES													
1	MWD TOOL - NON-RETRIEVABLE	7	4.83	12.65	38.57		0	GE/BAKER HUGHES													
1	RSS TOOL	7	3.25	15.58	25.92		0	GE/BAKER HUGHES													
1	RSS TOOL	7	4.33	9.34	10.34		0	GE/BAKER HUGHES													
Mud Motors																					
SN		Bend Angle		Bearing Type		Lobe Config		# Stages	Lwr Defin Type		Bit To Bend										
15869114		.25		SEALED		6:7		10.6				3.25									
Sensors																					
Sensor Type			Sensor-Bit (ft)				Note														
NEAR BIT INCLINOMETER			6.93																		
GAMMA			22.44																		
Drilling Parameters																					
Start Time	End Time	Start Depth (ftKB)	Int Depth (ft)	Int ROP (ft/hr)	WOB (1000lbf)	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	08:27	7,680.0	464.00	189.4	34	39	700.0	560	3,038.0	234.0	158	158	158	152	10.0	5.0					
08:38	13:13	8,144.0	835.00	182.3	33	37	700.0	536	2,970.0	215.0	168	168	168	152	10.0	5.0					
13:14	13:25	8,979.0	0.00		4	30	700.0	455	1,675.0	0.0	215	215	215	152	10.0	5.0					
13:25	22:03	8,979.0	452.00	52.4	29	51	700.0	521	2,421.0	58.0	191	191	191	152	10.0	5.0					
22:06	22:17	9,431.0	0.00		0	22	700.0	593	2,366.0	0.0	221	221	221	152	10.0	5.0					
22:17	04:25	9,431.0	409.00	66.3	30	60	700.0	595	2,930.0	70.0	190	190	190	152	10.0	5.0					
04:25	06:00	9,840.0	113.00	64.6	30	60	700.0	595	2,930.0	70.0	190	190	190	152	10.0	5.0					
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)	
8.40		8.58		159.1		2.8		245.5		458.4		16.7		678.8		175.71		139.03		354.42	
Mud Checks																					
Time			Mud Company				Type		Depth (ftKB)		Density (lb/gal)		Funnel Viscosity (s/qt)			T Flowline (° F)					
2/11/2023 19:00			PIONEER DRILLING FLUIDS				OIL BASE		9,190.0		8.40		60			100.0					
pV (cP)		YP (lb/100ft²)		Vis 3rpm		Vis 6rpm		Filtrate (mL/30min)		HTHP Filtrate (mL/30min)			HTHP Temperature (° F)			HTHP Pressure (psi)					
		9.000		6		7				8.8			250.0			500.0					
Solids (%)			Low Gravity Solids (%)					Sand (%)		MBT (lb/bbl)			Pm (mL/mL)			Pf (mL/mL)					
8.0			6.5																		
Chlorides (mg/L)			Calcium (mg/L)			CaCl (ppm)			Oil Water Ratio			Electric Stab (V)			Lime (lb/bbl)		pH				
26,000			3,200.000			0			71.7/28.3			704.0			2.7						
Gel 10 sec (lb/100ft²)					Gel 10 min (lb/100ft²)					Gel 30 min (lb/100ft²)											
14.000					18.000					20.000											
Comment																					
Mud Checks																					
Time			Mud Company				Type		Depth (ftKB)		Density (lb/gal)		Funnel Viscosity (s/qt)			T Flowline (° F)					
2/11/2023 07:00			PIONEER DRILLING FLUIDS				OIL BASE		7,450.0		8.60		68			95.0					
pV (cP)		YP (lb/100ft²)		Vis 3rpm		Vis 6rpm		Filtrate (mL/30min)		HTHP Filtrate (mL/30min)			HTHP Temperature (° F)			HTHP Pressure (psi)					
		10.000		5		6				9.2			250.0			500.0					
Solids (%)			Low Gravity Solids (%)					Sand (%)		MBT (lb/bbl)			Pm (mL/mL)			Pf (mL/mL)					
9.0			7.7																		
Chlorides (mg/L)			Calcium (mg/L)			CaCl (ppm)			Oil Water Ratio			Electric Stab (V)			Lime (lb/bbl)		pH				
24,000			3,200.000			0			75.8/24.2			664.0			2.6						
Gel 10 sec (lb/100ft²)					Gel 10 min (lb/100ft²)					Gel 30 min (lb/100ft²)											
10.000					14.000					15.000											
Comment																					
Last BOP Test																					
Date			Test Type		Item Tested				Next Test Date			Com									
2/10/2023 01:15			BOP		BOP'S, 12/20/2022 03:00				3/3/2023 01:15			Test BOP 5000 High /250 Low									
Leak Off and Formation Integrity Tests																					
Test Type								Depth (ftKB)				Dens Fluid (lb/gal)									
FORMATION INTEGRITY								1,945.0				12.98									
FORMATION INTEGRITY								6,870.0				9.50									
Casing Pressure Test																					
Test Type		Test Subtype		Date			Item Tested				Failed?		Time (min)		P (psi)						
CASING		STANDARD		11/8/2022 11:00			SURFACE, 1,936.0ftKB				No		30.00		1,000.0						
CASING		STANDARD		2/10/2023 06:00			INTERMEDIATE, 6,883.0ftKB				No		30.00		2,500.0						
Kick Offs & Key Depths																					
Date				Type			Top Depth (ftKB)				Depth Top (TVD) (ftKB)										
2/11/2023 15:15				KICK OFF			8,979.0				8,947.8										
2/12/2023 06:00				HEEL			9,953.0				9,545.0										
Casing Strings																					
Description		Set Depth (ftKB)			Set Depth (TVD) (ftKB)			OD (in)		Grade		Wt/Len (lb/ft)		Top Thread		P LeakOff (psi)					
CONDUCTOR		106.0			106.0			20		H40		78.67									

SURFACE		1,936.0		1,935.6	13 3/8	J55	54.50	BTC	1,311.0		
INTERMEDIATE		6,883.0		6,852.4	9 5/8	L80-IC	40.00	BTC	3,375.0		
Gas Emissions - Flare											
Type		Method		Dur (Min)		Amount		Units	Com		
No Data											
Job Supply Amounts											
Supply Item Des	Type	Unit Label	Received	Consumed	Returned	Note		Cum On Loc	Cum Consumed		
DIESEL	FUEL	GAL	7521			Rig Fuel (Ticket #56115)		31,346	15803		
DIESEL	MUD	GAL	7515	8500		Mud Diesel (Ticket #5615)		10,232	11725		
Mud Additive Amounts											
Des			Type			Units	Rec	Consumed	On Loc	Cum Cons	
DRILLING FLUID TECH			SUPERVISION			EA	1	1	0.0	7	
KCL			POTASSIUM CHLORIDE			LB		6	124.0	6	
PMDHYPDF-A200			SHAKER SCREEN			EA		9	20.0	15	
SOLTEX			FILTRATE CONTROL			LB SACK		12	80.0	37	
XMP GILSONITE			FILTRATE CONTROL			LB SACK		14	74.0	26	
DD TONE			ORGANOPHILLIC CLAY			LB SACK		37	151.0	37	
CALCIUM CHLORIDE			CALCIUM CHLORIDE			LB SACK		56	248.0	56	
LIME			ALKALINITY CONTROL			LB SACK		60	200.0	91	
DD LEM			LOW END MODIFIER			GAL		200	1,185.0	200	
TECH SERVICE SUPPORT			SUPERVISION			EA	350	350	0.0	2,450	
DIESEL - FOR MUD			OIL MUD ADDITIVE			GAL	7515	8500	31,091.0	10,800	
Pump Operations											
Pump #	Make			Model		Liner Size (in)		Stroke (in)	Vol/Stk (bbl/stk)		P Max (psi)
1	GARDNER-DENVER			PZ-11-1600		5 1/2		11.00	0.081		7,500.0
2	GARDNER-DENVER			PZ-11-1600		5 1/2		11.00	0.081		7,500.0
3	GARDNER-DENVER			PZ-11-1600		5 1/2		11.00	0.081		7,500.0
Pump Checks											
Pump #		Depth (ftKB)		Time	P (psi)	Strokes (spm)		Q Flow (gpm)		Eff (%)	
No Data											
Deviation Surveys											
Date			Description			Job					
11/3/2022 04:30			AS DRILL SURVEY			ODR, 11/3/2022 01:30					
Survey Data - All surveys for 24 hr reporting period											
MD (ftKB)		Incl (°)	Azm (°)	TVD (ftKB)		VS (ft)		NS (ft)	EW (ft)	DLS (°/100ft)	
7,750.00		0.75	178.52	7,718.98		-90.62		211.69	470.43	0.72	
7,838.00		0.06	188.94	7,806.98		-90.02		211.07	470.44	0.79	
7,932.00		0.31	100.15	7,900.98		-89.87		210.98	470.68	0.33	
8,027.00		1.68	113.81	7,995.96		-88.90		210.37	472.21	1.45	
8,122.00		1.60	352.08	8,090.94		-89.37		211.12	473.30	3.02	
8,216.00		2.84	202.06	8,184.91		-88.79		210.26	472.25	4.58	
8,311.00		1.90	334.52	8,279.87		-88.44		209.50	470.68	4.58	
8,406.00		2.64	175.63	8,374.84		-87.82		208.74	470.17	4.70	
8,501.00		0.63	202.52	8,469.80		-85.25		206.08	470.14	2.21	
8,596.00		0.20	276.07	8,564.80		-84.89		205.61	469.78	0.64	
8,691.00		0.40	281.23	8,659.80		-85.08		205.69	469.29	0.21	
8,785.00		0.39	169.44	8,753.80		-84.91		205.44	469.02	0.70	
8,873.00		0.09	114.36	8,841.80		-84.56		205.12	469.14	0.39	
8,968.00		0.15	61.36	8,936.80		-84.55		205.15	469.32	0.13	
9,063.00		11.86	167.66	9,031.12		-74.79		195.64	471.52	12.53	
9,158.00		22.13	163.55	9,121.85		-47.08		168.87	478.69	10.88	
9,252.00		34.05	164.61	9,204.63		-2.92		126.36	490.73	12.69	
9,347.00		40.79	170.44	9,280.06		54.69		70.04	502.96	8.01	
9,441.00		47.87	174.71	9,347.28		119.84		4.95	511.29	8.17	
9,536.00		55.67	168.71	9,406.05		193.99		-68.75	522.24	9.59	
9,630.00		60.78	163.02	9,455.56		273.82		-146.14	541.84	7.48	
9,725.00		69.33	163.78	9,495.59		359.80		-228.61	566.41	9.03	
9,819.00		79.58	166.76	9,520.76		450.22		-316.08	589.35	11.32	
Formations											
Formation Name	Prog Top Override (TVD SS) (ft(elv))			Prog Top MD (ftKB)		Prog Top (TVD) (ftKB)		Final Top MD (ftKB)		Final Top (TVD) (ftKB)	
ILP	-6,580.0					9,570.0					
PBHL/TD	-6,562.0					9,552.0					
269_0_DEAN	-6,639.0					9,629.0					
304_0_STRAWN	-8,065.0					11,055.0					
Daily Contacts											
Job Contact				Title		Office	Mobile	Email			
RICHARDSON, KEN, AREA DRILLING SUPERINTENDENT				AREA DRILLING SUPERINTENDENT		432-571-2557	432-557-8128	KEN.RICHARDSON@PXD.COM			
SPACEK, KYLE, ENGINEER				ENGINEER		432-571-2800	432-438-0187	KYLE.SPACEK@PXD.COM			
LUTHER, JACKIE, ENGINEER				ENGINEER		972-969-5626	303-512-3803	JACKIE.LUTHER@PXD.COM			
JAY, JON, SUPERINTENDENT				SUPERINTENDENT		432-571-2454	432-234-2702	JON.JAY@PXD.COM			

TRANSIER, KENNETH, SUPERINTENDENT	SUPERINTENDENT		318-481-3868	KENNETH.TRANSIER@PXD.COM
SATTERFIELD, JOHN, WELLSITE SUPERVISOR	WELLSITE SUPERVISOR		337-578-5339	JOHN.SATTERFIELD@PXD.COM
ASH, WARREN, WELLSITE SUPERVISOR	WELLSITE SUPERVISOR		661-333-4101	WARREN.ASH@PXD.COM
WIEST, JUSTIN, MUD ENGINEER	MUD ENGINEER		308-249-2818	JUSTIN.WIEST@PXD.COM
RIG-H&P 417, RIG PHONE	RIG PHONE	361-489-3691		DL-HP417@PXD.COM
Personnel Log				
Company				Count
PIONEER NATURAL RESOURCES USA INC				2
PIONEER NATURAL RESOURCES USA INC				1
HELMERICH & PAYNE INTERNATIONAL DRILLING CO				13
BAKER HUGHES OILFIELD OPERATIONS INC				3
MID CONTINENT WELL LOGGING SERVICE INC				2
STALLION SOLIDS CONTROL INC				1

H & P 417

Accept:12/20/2022

Release:

Days Since LTI:561.00

Days Since RI:561.00

Daily Drilling Report

PERMIAN ASSET TEAM

Job:ODR

Report Date:02/13/2023

Report #:13

DFS:9

AFE #:9019713

Total AFE + Sup:\$3,798,607.26

Daily Field Est. (Cost):\$126,664.43

API/UWI 42-003-48491-0000		Well Profile HORIZONTAL		Open Formation LOWER SPRABERRY SHALE (SPBY L C1)			Field Name SPRABERRY (TREND AREA)				
SSN ID00003259		Property Sub	KB-Grd (ft) 26.00		Orig KB Elevation (ft) 2,990.00		Ground Elevation (ft) 2,964.00		Spud Date 11/3/2022	TD Date	
Jobs											
Responsible Grp 2			Responsible Grp 3			Job Type	Start Date		End Date	Job Status	
DRL ENG - JACKIE LUTHER			AREA TEAM 2			ODR	11/3/2022 01:30			IN PROGRESS	
Job Dates (ex. Estimated Pad Release, TXRRC Calls)											
Type	Subtype		Date	Note							
MILESTONE	ESTIMATED PAD RELEASE		3/5/2023	Batch Drilling 5th Prod. well on 6 well pad (Updated 2/13/23)plus one C/O and run prod casing.							
Daily Operations											
Footage/Meterage (ft) 2,887.00		Drilling Hours 22.60	% Rotating Time 100.00		End Depth (ftKB) 12,800.0	Target Depth (ftKB) 24,992.0		Daily Field Est Total \$126,664.43		Cum Field Est To Date \$2,003,003.90	
24 HR ROP (ft/hr) 127.7	Circulating Hours 0.75	% Sliding Time 0.00	End Depth (TVD) (ftKB) 9,572.5		Target Depth Depth (TVD) (ftKB) 9,552.6		Daily Mud Field Est Total \$13,374.50		Cum Mud Field Est \$69,262.37	Total AFE + Sup \$3,798,607.26	
Daily Goal Description DRILLED FEET			Daily Goal - Last 24 3,500.0			Daily Goal - Next 24 3,000.0			Goal Comments Goal not met		
Backbuild Yes	Lateral Inclination Toe Flat	Last Casing String INTERMEDIATE, 6,883.0ftKB				Next Casing String PROPOSED PRODUCTION, 24,993.0ftKB					
Avg Connection Gas 284.00		Avg Trip Gas 0.00		Avg Background Gas 302.00		Max Connection Gas 423.00		Max Trip Gas 0.00		Max Drill Gas 472.00	
Operations Summary Drill Prod Lateral w/RSS T/10,875', (NPT) Baker MWD, Drill Prod Lateral w/RSS T/12,800' SD 12,648', Inc: 89.21°, Amz:165.96°, Avg DLS: 2.09°, Below:4.56', Left 2.74'											
Operations Next Report Period Drill Prod Lateral w/RSS at 12,800'											
Operations At Report Time Drilling Prod Lateral w/RSS at 12,800'											
Remarks No Accidents, Incidents or Spills Reported Surface: 100% Complete Intermediate1: 100% Complete Production Vert: 100% Complete Production Curve: 100 % Complete Production Lateral: 19% Complete Savor Sub:5,944' Daily NPT:.225 H&P:5 3rd Party:10.5 Pioneer: .5											
Time Log											
Start Time	Dur (hr)	End Time	Phase	Operation	Ops Category	Com		Start Depth (ftKB)	End Depth (ftKB)	Prob Hrs	Prob Ref #
06:00	8.5	14:30	PROD, DRL LAT	DRL	NORMAL	Drill 8.5" Prod Lateral F/9913 T/10875' (962' @ 120 fph), WOB:45, GPM 600, SPP:3400, Diff:600, RPM:90, TQ:8K, MW 8.5		9,913.0	10,875.0		
14:30	0.5	15:00	PROD, DRL LAT	RIG_SVC	NORMAL	Rig Service C/O Inline screen		10,875.0	10,875.0		
15:00	2.25	17:15	PROD, DRL LAT	3RD_PTY	NORMAL	C/O Dak,Comm Cable (Baker Hughes)		10,875.0	10,875.0	2.25	4
17:15	12.75	06:00	PROD, DRL LAT	DRL	NORMAL	Drill 8.5" Prod Lateral F/10,875" T/12800' (1,975' @ 155 fph), WOB:45, GPM 600, SPP:3600, Diff:800, RPM:100, TQ:16K, MW 8.5 SD 12,648', Inc: 89.21°, Amz:165.96°, Avg DLS: 2.09°, Below:4.56', Left 2.74'		10,875.0	12,800.0		
Interval Problems											
DIRECTIONAL, 10,875.0ftKB, 2/12/2023 15:00											
Ref #	Dur (hr)	Exclude From Problem Time Calcs?		SubType		Problem Description	Est Cost OR (Cost)	Accountable Party		Comment	
4	2.25	No		DIRECTIONAL CONTROL		EQUIPMENT		BAKER HUGHES OILFIELD OPERATIONS INC		C/O Dak,Comm Cable (Baker Hughes)	
Drill Strings											
BHA #5 , PRODUCTION - VERTICAL/CURVE											

Bit Run	Drill Bit		Bit Type	Make
4	8 1/2, TKC66-A1, A274931		PDC	REED
Nozzles (1/32")	Bit Total Fluid Area (nozzles) (in²)	IADC Bit Dull	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)
13/13/13/13/13/13	0.78	-----	52.33	5,894.00
BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)
52.33	5,894.00	112.6	6,906.0	12,800.0

Drill String Components								
Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)	Wt (lbf)	Cum Wt (1000lbf)	Make
402	DRILL PIPE	5	4.28	12,678.72	12,800.00	247,235.0	247	RIG
1	SUB - FILTER	6 3/4	2.25	3.77	121.28		0	GE/BAKER HUGHES
1	MOTOR - STABILIZER SLEEVE	7 1/8	1.75	41.28	117.51		0	GE/BAKER HUGHES
1	ANTI-STALL TOOL	7	3.00	26.53	76.23		0	ARSENAL
1	STABILIZER	7	2.88	11.13	49.70		0	GE/BAKER HUGHES
1	MWD TOOL - NON-RETRIEVABLE	7	4.83	12.65	38.57		0	GE/BAKER HUGHES
1	RSS TOOL	7	3.25	15.58	25.92		0	GE/BAKER HUGHES
1	RSS TOOL	7	4.33	9.34	10.34		0	GE/BAKER HUGHES

Mud Motors						
SN	Bend Angle	Bearing Type	Lobe Config	# Stages	Lwr DefIn Type	Bit To Bend
15869114	.25	SEALED	6:7	10.6		3.25

Sensors		
Sensor Type	Sensor-Bit (ft)	Note
NEAR BIT INCLINOMETER	6.93	
GAMMA	22.44	

Drilling Parameters																	
Start Time	End Time	Start Depth (ftKB)	Int Depth (ft)	Int ROP (ft/hr)	WOB (1000lbf)	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	07:01	9,913.0	119.00	116.7	35	70	430.0	594	3,051.0	95.0	185	185	185	185	9.0	9.0	
07:12	14:20	10,032.0	836.00	117.3	37	83	460.0	598	3,178.0	132.0	180	180	180	180	10.0	10.0	
14:22	14:39	10,868.0	0.00		0	28	0.0	594	2,715.0	0.0	220	220	220	220	0.0	0.0	
14:44	14:50	10,868.0	7.00	70.0	32	58	303.0	598	3,043.0	72.0	183	183	183	183	9.0	9.0	
14:50	15:18	10,875.0	0.00		14	0	0.0	481	2,083.0	0.0	201	201	201	201	0.0	0.0	
17:35	04:41	10,875.0	1,794.00	161.6	38	95	744.0	597	3,558.0	198.0	174	174	174	174	13.0	13.0	
04:41	06:00	12,669.0	131.00	40.3	38	95	744.0	597	3,558.0	198.0	174	174	174	174	13.0	13.0	

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)	
8.40	8.65	160.7	2.8	246.3	461.5	16.7	681.1	226.28	269.71	354.42	

Mud Checks											
Time		Mud Company			Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)		T Flowline (° F)	
2/12/2023 19:00		PIONEER DRILLING FLUIDS			OIL BASE	11,050.0	8.40	58		105.0	
pV (cP)	YP (lbF/100ft²)	Vis 3rpm	Vis 6rpm	Filtrate (mL/30min)	HTHP Filtrate (mL/30min)		HTHP Temperature (° F)		HTHP Pressure (psi)		
	9.000	5	6		8.6		250.0		500.0		
Solids (%)		Low Gravity Solids (%)			Sand (%)		MBT (lb/bbl)		Pm (mL/mL)		Pf (mL/mL)
9.0		7.4									
Chlorides (mg/L)		Calcium (mg/L)		CaCl (ppm)	Oil Water Ratio		Electric Stab (V)		Lime (lb/bbl)		pH
28,000		3,200.000		0	72.5/27.5		615.0		2.6		
Gel 10 sec (lbF/100ft²)				Gel 10 min (lbF/100ft²)			Gel 30 min (lbF/100ft²)				
13.000				17.000			19.000				
Comment											

Mud Checks													
Time		Mud Company			Type	Depth (ftKB)		Density (lb/gal)		Funnel Viscosity (s/qt)		T Flowline (° F)	
2/12/2023 07:00		PIONEER DRILLING FLUIDS			OIL BASE	10,030.0		8.40		58		100.0	
pV (cP)	YP (lbF/100ft²)	Vis 3rpm	Vis 6rpm	Filtrate (mL/30min)		HTHP Filtrate (mL/30min)			HTHP Temperature (° F)		HTHP Pressure (psi)		
	9.000	6	7			9.4			250.0		500.0		
Solids (%)		Low Gravity Solids (%)			Sand (%)		MBT (lb/bbl)			Pm (mL/mL)		Pf (mL/mL)	
9.0					7.5								
Chlorides (mg/L)		Calcium (mg/L)			CaCl (ppm)		Oil Water Ratio		Electric Stab (V)		Lime (lb/bbl)		pH
27,000		3,200.000			0		72.5/27.5		654.0		2.7		
Gel 10 sec (lbF/100ft²)				Gel 10 min (lbF/100ft²)				Gel 30 min (lbF/100ft²)					
14.000				18.000				20.000					

Last BOP Test				
Date	Test Type	Item Tested		Com
2/10/2023 01:15	BOP	BOP'S, 12/20/2022 03:00		Test BOP 5000 High /250 Low

Leak Off and Formation Integrity Tests		
Test Type	Depth (ftKB)	Dens Fluid (lb/gal)
FORMATION INTEGRITY	1,945.0	12.98
FORMATION INTEGRITY	6,870.0	9.50

Casing Pressure Test						
Test Type	Test Subtype	Date	Item Tested	Failed?	Time (min)	P (psi)
CASING	STANDARD	11/8/2022 11:00	SURFACE, 1,936.0ftKB	No	30.00	1,000.0
CASING	STANDARD	2/10/2023 06:00	INTERMEDIATE, 6,883.0ftKB	No	30.00	2,500.0

Kick Offs & Key Depths									
Date		Type		Top Depth (ftKB)		Depth Top (TVD) (ftKB)			
2/11/2023 15:15		KICK OFF		8,979.0		8,947.8			
2/12/2023 06:00		HEEL		9,953.0		9,529.6			
Casing Strings									
Description	Set Depth (ftKB)		Set Depth (TVD) (ftKB)		OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
CONDUCTOR	106.0		106.0		20	H40	78.67		
SURFACE	1,936.0		1,935.6		13 3/8	J55	54.50	BTC	1,311.0
INTERMEDIATE	6,883.0		6,852.4		9 5/8	L80-IC	40.00	BTC	3,375.0
Gas Emissions - Flare									
Type		Method		Dur (Min)		Amount		Units	Com
No Data									
Job Supply Amounts									
Supply Item Des	Type	Unit Label	Received	Consumed	Returned	Note		Cum On Loc	Cum Consumed
DIESEL	MUD	GAL	7524	7100		Mud Diesel (Ticket # 3325)		10,656	18825
DIESEL	FUEL	GAL		2800		Rig Fuel		26,421	20728
Mud Additive Amounts									
Des		Type			Units	Rec	Consumed	On Loc	Cum Cons
DRILLING FLUID TECH		SUPERVISION			EA	1	1	0.0	8
KCL		POTASSIUM CHLORIDE			LB		3	121.0	9
XMP GILSONITE		FILTRATE CONTROL			LB SACK		10	64.0	36
DD TONE		ORGANOPHILIC CLAY			LB SACK		20	131.0	57
LIME		ALKALINITY CONTROL			LB SACK		60	140.0	151
CALCIUM CHLORIDE		CALCIUM CHLORIDE			LB SACK		112	136.0	168
DDF MUL		ALL IN ONE EMULSIFIER			GAL		275	1,295.0	275
DD LEM		LOW END MODIFIER			GAL		275	910.0	475
TECH SERVICE SUPPORT		SUPERVISION			EA	350	350	0.0	2,800
DIESEL - FOR MUD		OIL MUD ADDITIVE			GAL	7524	7100	31,515.0	17,900
Pump Operations									
Pump #	Make		Model		Liner Size (in)	Stroke (in)	Vol/Stk (bbl/stk)		P Max (psi)
1	GARDNER-DENVER		PZ-11-1600		5 1/2	11.00	0.081		7,500.0
2	GARDNER-DENVER		PZ-11-1600		5 1/2	11.00	0.081		7,500.0
3	GARDNER-DENVER		PZ-11-1600		5 1/2	11.00	0.081		7,500.0
Pump Checks									
Pump #	Depth (ftKB)		Time	P (psi)	Strokes (spm)		Q Flow (gpm)		Eff (%)
No Data									
Deviation Surveys									
Date			Description			Job			
11/3/2022 04:30			AS DRILL SURVEY			ODR, 11/3/2022 01:30			
Survey Data - All surveys for 24 hr reporting period									
MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)		
10,008.00	89.70	161.15	9,529.91	638.58	-498.06	638.07	5.20		
10,102.00	90.81	165.59	9,529.49	732.47	-588.10	664.97	4.87		
10,197.00	91.27	163.88	9,527.77	827.43	-679.73	689.97	1.86		
10,291.00	91.49	161.80	9,525.50	921.26	-769.52	717.70	2.22		
10,385.00	89.05	161.98	9,525.06	1,015.02	-858.85	746.91	2.60		
10,473.00	90.26	162.99	9,525.59	1,102.86	-942.77	773.40	1.79		
10,568.00	89.70	165.65	9,525.62	1,197.82	-1,034.22	799.07	2.86		
10,663.00	88.13	166.36	9,527.42	1,292.80	-1,126.38	822.04	1.81		
10,757.00	89.83	165.09	9,529.09	1,386.78	-1,217.46	845.21	2.26		
10,851.00	85.72	165.70	9,532.74	1,480.68	-1,308.33	868.89	4.42		
10,946.00	90.38	171.32	9,535.98	1,575.47	-1,401.32	887.79	7.68		
11,041.00	90.01	164.39	9,535.65	1,670.35	-1,494.13	907.76	7.31		
11,135.00	87.58	168.57	9,537.63	1,764.30	-1,585.48	929.73	5.14		
11,230.00	88.66	167.29	9,540.75	1,859.18	-1,678.33	949.58	1.76		
11,324.00	88.75	168.24	9,542.87	1,953.11	-1,770.17	969.50	1.01		
11,419.00	89.18	167.17	9,544.59	2,048.04	-1,862.97	989.72	1.21		
11,513.00	88.56	167.32	9,546.44	2,142.00	-1,954.63	1,010.47	0.68		
11,607.00	89.30	164.89	9,548.20	2,235.97	-2,045.86	1,033.04	2.70		
11,702.00	86.22	167.39	9,551.91	2,330.88	-2,138.00	1,055.78	4.17		
11,796.00	90.78	168.02	9,554.37	2,424.78	-2,229.79	1,075.78	4.90		
11,891.00	88.35	163.15	9,555.09	2,519.74	-2,321.76	1,099.42	5.73		
11,985.00	89.95	167.03	9,556.49	2,613.69	-2,412.57	1,123.60	4.46		
12,079.00	88.47	166.44	9,557.78	2,707.67	-2,504.05	1,145.16	1.69		
12,174.00	88.44	165.57	9,560.34	2,802.64	-2,596.19	1,168.13	0.92		
12,269.00	88.84	165.91	9,562.60	2,897.61	-2,688.24	1,191.52	0.55		
12,364.00	88.87	166.02	9,564.50	2,992.59	-2,780.39	1,214.56	0.12		
12,459.00	89.89	165.82	9,565.53	3,087.58	-2,872.53	1,237.67	1.09		
12,553.00	87.51	164.98	9,567.66	3,181.55	-2,963.46	1,261.35	2.68		
12,648.00	89.21	165.96	9,570.38	3,276.50	-3,055.38	1,285.18	2.07		

Formations					
Formation Name	Prog Top Override (TVD SS) (ft(elv))	Prog Top MD (ftKB)	Prog Top (TVD) (ftKB)	Final Top MD (ftKB)	Final Top (TVD) (ftKB)
269_0_DEAN	-6,639.0		9,629.0		
304_0_STRAWN	-8,065.0		11,055.0		
Daily Contacts					
Job Contact	Title	Office	Mobile	Email	
RICHARDSON, KEN, AREA DRILLING SUPERINTENDENT	AREA DRILLING SUPERINTENDENT	432-571-2557	432-557-8128	KEN.RICHARDSON@PXD.COM	
SPACEK, KYLE, ENGINEER	ENGINEER	432-571-2800	432-438-0187	KYLE.SPACEK@PXD.COM	
LUTHER, JACKIE, ENGINEER	ENGINEER	972-969-5626	303-512-3803	JACKIE.LUTHER@PXD.COM	
JAY, JON, SUPERINTENDENT	SUPERINTENDENT	432-571-2454	432-234-2702	JON.JAY@PXD.COM	
TRANSIER, KENNETH, SUPERINTENDENT	SUPERINTENDENT		318-481-3868	KENNETH.TRANSIER@PXD.COM	
SATTERFIELD, JOHN, WELLSITE SUPERVISOR	WELLSITE SUPERVISOR		337-578-5339	JOHN.SATTERFIELD@PXD.COM	
ASH, WARREN, WELLSITE SUPERVISOR	WELLSITE SUPERVISOR		661-333-4101	WARREN.ASH@PXD.COM	
WIEST, JUSTIN, MUD ENGINEER	MUD ENGINEER		308-249-2818	JUSTIN.WIEST@PXD.COM	
RIG-H&P 417, RIG PHONE	RIG PHONE	361-489-3691		DL-HP417@PXD.COM	
Personnel Log					
Company					Count
PIONEER NATURAL RESOURCES USA INC					2
PIONEER NATURAL RESOURCES USA INC					1
HELMERICH & PAYNE INTERNATIONAL DRILLING CO					13
BAKER HUGHES OILFIELD OPERATIONS INC					3
MID CONTINENT WELL LOGGING SERVICE INC					2
STALLION SOLIDS CONTROL INC					1

H & P 417	
Accept:	12/20/2022
Release:	
Days Since LTI:	562.00
Days Since RI:	562.00

Daily Drilling Report

PERMIAN ASSET TEAM	
Job:	ODR
Report Date:	02/14/2023
Report #:	14
DFS:	10
AFE #:	9019713
Total AFE + Sup:	\$3,798,607.26
Daily Field Est. (Cost):	\$161,290.80

API/UWI 42-003-48491-0000		Well Profile HORIZONTAL		Open Formation LOWER SPRABERRY SHALE (SPBY L C1)			Field Name SPRABERRY (TREND AREA)			
SSN ID00003259		Property Sub	KB-Grd (ft) 26.00		Orig KB Elevation (ft) 2,990.00		Ground Elevation (ft) 2,964.00		Spud Date 11/3/2022	TD Date
Jobs										
Responsible Grp 2			Responsible Grp 3			Job Type	Start Date		End Date	Job Status
DRL ENG - JACKIE LUTHER			AREA TEAM 2			ODR	11/3/2022 01:30			IN PROGRESS
Job Dates (ex. Estimated Pad Release, TXRRC Calls)										
Type	Subtype		Date	Note						
MILESTONE	ESTIMATED PAD RELEASE		3/5/2023	Batch Drilling 5th Prod. well on 6 well pad (Updated 2/13/23)plus one C/O and run prod casing.						
Daily Operations										
Footage/Meterage (ft) 2,616.00		Drilling Hours 23.14	% Rotating Time 100.00		End Depth (ftKB) 15,416.0	Target Depth (ftKB) 24,992.0		Daily Field Est Total \$161,290.80		Cum Field Est To Date \$2,167,448.70
24 HR ROP (ft/hr) 113.1	Circulating Hours 0.27	% Sliding Time 0.00	End Depth (TVD) (ftKB) 9,561.3		Target Depth Depth (TVD) (ftKB) 9,552.6		Daily Mud Field Est Total \$20,328.54		Cum Mud Field Est \$89,590.91	Total AFE + Sup \$3,798,607.26
Daily Goal Description DRILLED FEET			Daily Goal - Last 24 3,000.0			Daily Goal - Next 24 3,500.0			Goal Comments Goal not met	
Backbuild Yes	Lateral Inclination Toe Flat	Last Casing String INTERMEDIATE, 6,883.0ftKB				Next Casing String PROPOSED PRODUCTION, 24,993.0ftKB				
Avg Connection Gas 274.00		Avg Trip Gas 0.00	Avg Background Gas 237.00		Max Connection Gas 393.00		Max Trip Gas 0.00		Max Drill Gas 472.00	
Operations Summary Drill Prod Lateral w/RSS T/15,416' SD 15,203', Inc: 89.55°, Amz:166.74°, Avg DLS: 0.51°, Above:10.61', Left 3.06'										
Operations Next Report Period Drill Prod Lateral w/RSS at 18,916										
Operations At Report Time Drilling Prod Lateral w/RSS at 15,416'										
Remarks No Accidents, Incidents or Spills Reported Surface: 100% Complete Intermediate1: 100% Complete Production Vert: 100% Complete Production Curve: 100 % Complete Production Lateral: 37% Complete Savor Sub:8,560' Daily NPT:.0 H&P:5 3rd Party:10.5 Pioneer: .5										
Time Log										
Start Time	Dur (hr)	End Time	Phase	Operation	Ops Category	Com	Start Depth (ftKB)	End Depth (ftKB)	Prob Hrs	Prob Ref #
06:00	8.75	14:45	PROD, DRL LAT	DRL	NORMAL	Drill 8.5" Prod Lateral F/12800 T/14188 (1388' @ 165 fph), WOB:45, GPM 600, SPP:3800, Diff:700, RPM:90, TQ:14K, MW 8.6	12,800.0	14,188.0		
14:45	0.5	15:15	PROD, DRL LAT	RIG_SVC	NORMAL	Rig Service C/O Inline screen	14,188.0	14,188.0		
15:15	14.75	06:00	PROD, DRL LAT	DRL	NORMAL	Drill 8.5" Prod Lateral F/14188' T/15,416 (1,228' @ 83.25 fph), WOB:45, GPM 600, SPP:4100, Diff:700, RPM:85, TQ:16K, MW 8.5 SD 15,203', Inc: 89.55°, Amz:166.74°, Avg DLS: 0.51°, Above:10.61', Left 3.06'	14,188.0	15,416.0		
Drill Strings										
BHA #5 , PRODUCTION - VERTICAL/CURVE/LATERAL										
Bit Run 4			Drill Bit 8 1/2, TKC66-A1, A274931				Bit Type PDC		Make REED	
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) 75.47		Depth Drilled By Bit (ft) 8,510.00	
BHA Drilling Time (hr) 75.47			BHA Depth Drilled (ft) 8,510.00		BHA ROP (ft/hr) 112.8		Depth In (ftKB) 6,906.0		Depth Out (ftKB) 15,416.0	
Drill String Components										

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)	Wt (lb)	Cum Wt (1000lb)	Make													
486	DRILL PIPE	5	4.28	15,294.72	15,416.00	298,247.0	298	RIG													
1	SUB - FILTER	6 3/4	2.25	3.77	121.28		0	GE/BAKER HUGHES													
1	MOTOR - STABILIZER SLEEVE	7 1/8	1.75	41.28	117.51		0	GE/BAKER HUGHES													
1	ANTI-STALL TOOL	7	3.00	26.53	76.23		0	ARSENAL													
1	STABILIZER	7	2.88	11.13	49.70		0	GE/BAKER HUGHES													
1	MWD TOOL - NON-RETRIEVABLE	7	4.83	12.65	38.57		0	GE/BAKER HUGHES													
1	RSS TOOL	7	3.25	15.58	25.92		0	GE/BAKER HUGHES													
1	RSS TOOL	7	4.33	9.34	10.34		0	GE/BAKER HUGHES													
Mud Motors																					
SN		Bend Angle		Bearing Type		Lobe Config		# Stages	Lwr Defln Type		Bit To Bend										
15869114		.25		SEALED		6:7		10.6				3.25									
Sensors																					
Sensor Type			Sensor-Bit (ft)				Note														
NEAR BIT INCLINOMETER			6.93																		
GAMMA			22.44																		
Drilling Parameters																					
Start Time	End Time	Start Depth (ftKB)	Int Depth (ft)	Int ROP (ft/hr)	WOB (1000lb)	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	14:40	12,800.0	1,388.00	160.1	39	95	535.0	597	3,705.0	167.0	176	176	176	176	14.0	14.0					
14:44	15:00	14,188.0	0.00		8	1	0.0	313	1,417.0	0.0	202	202	202	202	0.0	0.0					
15:11	23:24	14,188.0	548.00	66.7	30	65	374.0	597	3,555.0	85.0	183	183	183	183	13.0	13.0					
23:35	23:55	14,736.0	23.00	69.7	20	61	309.0	597	3,495.0	45.0	191	191	191	191	11.0	11.0					
00:06	04:55	14,759.0	568.00	117.8	38	75	628.0	596	3,871.0	128.0	175	175	175	175	15.0	15.0					
04:55	06:00	15,327.0	89.00	80.9	38	75	628.0	596	3,871.0	75.0	175	175	175	175	15.0	15.0					
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)	
8.50		8.81		161.8		2.9		245.9		465.4		16.7		679.9		272.74		389.78		354.42	
Mud Checks																					
Time			Mud Company				Type		Depth (ftKB)		Density (lb/gal)		Funnel Viscosity (s/qt)			T Flowline (° F)					
2/13/2023 19:00			PIONEER DRILLING FLUIDS				OIL BASE		14,400.0		8.50		63			110.0					
pV (cP)		YP (lb/100ft²)		Vis 3rpm		Vis 6rpm		Filtrate (mL/30min)		HTHP Filtrate (mL/30min)			HTHP Temperature (° F)			HTHP Pressure (psi)					
		11.000		6		7				8.2			250.0			500.0					
Solids (%)			Low Gravity Solids (%)					Sand (%)			MBT (lb/bbl)			Pm (mL/mL)			Pf (mL/mL)				
9.0			7.3																		
Chlorides (mg/L)			Calcium (mg/L)			CaCl (ppm)			Oil Water Ratio			Electric Stab (V)			Lime (lb/bbl)			pH			
30,000			3,200.000			0			72.5/27.5			677.0			3.1						
Gel 10 sec (lb/100ft²)						Gel 10 min (lb/100ft²)						Gel 30 min (lb/100ft²)									
14.000						19.000						21.000									
Comment																					
Mud Checks																					
Time			Mud Company				Type		Depth (ftKB)		Density (lb/gal)		Funnel Viscosity (s/qt)			T Flowline (° F)					
2/13/2023 07:00			PIONEER DRILLING FLUIDS				OIL BASE		13,030.0		8.60		60			105.0					
pV (cP)		YP (lb/100ft²)		Vis 3rpm		Vis 6rpm		Filtrate (mL/30min)		HTHP Filtrate (mL/30min)			HTHP Temperature (° F)			HTHP Pressure (psi)					
		10.000		6		6				8.8			250.0			500.0					
Solids (%)			Low Gravity Solids (%)					Sand (%)			MBT (lb/bbl)			Pm (mL/mL)			Pf (mL/mL)				
9.0			7.4																		
Chlorides (mg/L)			Calcium (mg/L)			CaCl (ppm)			Oil Water Ratio			Electric Stab (V)			Lime (lb/bbl)			pH			
29,000			3,200.000			0			72.5/27.5			645.0			2.9						
Gel 10 sec (lb/100ft²)						Gel 10 min (lb/100ft²)						Gel 30 min (lb/100ft²)									
14.000						18.000						20.000									
Comment																					
Last BOP Test																					
Date			Test Type		Item Tested				Next Test Date			Com									
2/10/2023 01:15			BOP		BOP'S, 12/20/2022 03:00				3/3/2023 01:15			Test BOP 5000 High /250 Low									
Leak Off and Formation Integrity Tests																					
Test Type						Depth (ftKB)				Dens Fluid (lb/gal)											
FORMATION INTEGRITY						1,945.0				12.98											
FORMATION INTEGRITY						6,870.0				9.50											
Casing Pressure Test																					
Test Type		Test Subtype		Date			Item Tested				Failed?		Time (min)		P (psi)						
CASING		STANDARD		11/8/2022 11:00			SURFACE, 1,936.0ftKB				No		30.00		1,000.0						
CASING		STANDARD		2/10/2023 06:00			INTERMEDIATE, 6,883.0ftKB				No		30.00		2,500.0						
Kick Offs & Key Depths																					
Date				Type			Top Depth (ftKB)				Depth Top (TVD) (ftKB)										
2/11/2023 15:15				KICK OFF			8,979.0				8,947.8										
2/12/2023 06:00				HEEL			9,953.0				9,529.6										
Casing Strings																					
Description		Set Depth (ftKB)			Set Depth (TVD) (ftKB)			OD (in)		Grade		Wt/Len (lb/ft)		Top Thread		P LeakOff (psi)					
CONDUCTOR		106.0			106.0			20		H40		78.67									

SURFACE		1,936.0		1,935.6	13 3/8	J55	54.50	BTC	1,311.0
INTERMEDIATE		6,883.0		6,852.4	9 5/8	L80-IC	40.00	BTC	3,375.0
Gas Emissions - Flare									
Type		Method		Dur (Min)		Amount		Units	Com
No Data									
Job Supply Amounts									
Supply Item Des	Type	Unit Label	Received	Consumed	Returned	Note		Cum On Loc	Cum Consumed
DIESEL	FUEL	GAL	6118	3942		Rig Fuel (Ticket #56296)		28,597	24670
DIESEL	MUD	GAL	8525	4000		Mud Diesel (Ticket # 56276)		15,181	22825
Mud Additive Amounts									
Des		Type			Units	Rec	Consumed	On Loc	Cum Cons
DRILLING FLUID TECH		SUPERVISION			EA	1	1	0.0	9
KCL		POTASSIUM CHLORIDE			LB		2	119.0	11
PMDHYPDF-A200		SHAKER SCREEN			EA	12	4	28.0	19
XMP GILSONITE		FILTRATE CONTROL			LB SACK		10	54.0	46
SOLTEX		FILTRATE CONTROL			LB SACK		20	60.0	57
DD TONE		ORGANOPHILIC CLAY			LB SACK		29	102.0	86
CALCIUM CHLORIDE		CALCIUM CHLORIDE			LB SACK		56	80.0	224
LIME		ALKALINITY CONTROL			LB SACK		60	80.0	211
DD WET		WETTING AGENT			GAL		100	590.0	110
DD LEM		LOW END MODIFIER			GAL		275	635.0	750
TECH SERVICE SUPPORT		SUPERVISION			EA	350	350	0.0	3,150
DDF MUL		ALL IN ONE EMULSIFIER			GAL		550	745.0	825
DIESEL - FOR MUD		OIL MUD ADDITIVE			GAL	8525	4000	36,040.0	21,900
Pump Operations									
Pump #	Make		Model		Liner Size (in)		Stroke (in)	Vol/Stk (bbl/stk)	P Max (psi)
1	GARDNER-DENVER		PZ-11-1600		5 1/2		11.00	0.081	7,500.0
2	GARDNER-DENVER		PZ-11-1600		5 1/2		11.00	0.081	7,500.0
3	GARDNER-DENVER		PZ-11-1600		5 1/2		11.00	0.081	7,500.0
Pump Checks									
Pump #		Depth (ftKB)		Time	P (psi)	Strokes (spm)		Q Flow (gpm)	Eff (%)
No Data									
Deviation Surveys									
Date			Description			Job			
11/3/2022 04:30			AS DRILL SURVEY			ODR, 11/3/2022 01:30			
Survey Data - All surveys for 24 hr reporting period									
MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)		DLS (°/100ft)	
12,838.00	89.64	166.80	9,571.21	3,466.50	-3,239.83	1,330.72		1.07	
12,933.00	90.69	167.25	9,570.94	3,561.47	-3,332.41	1,352.05		1.20	
13,028.00	89.52	164.75	9,570.77	3,656.47	-3,424.58	1,375.03		2.91	
13,123.00	90.60	165.10	9,570.67	3,751.45	-3,516.30	1,399.74		1.20	
13,218.00	90.63	165.73	9,569.65	3,846.44	-3,608.24	1,423.66		0.66	
13,313.00	90.19	165.84	9,568.97	3,941.44	-3,700.33	1,446.99		0.48	
13,409.00	90.10	165.71	9,568.72	4,037.44	-3,793.38	1,470.58		0.16	
13,504.00	89.58	165.73	9,568.99	4,132.44	-3,885.45	1,494.01		0.55	
13,599.00	89.64	164.88	9,569.64	4,227.43	-3,977.34	1,518.11		0.90	
13,694.00	89.98	167.00	9,569.95	4,322.42	-4,069.48	1,541.19		2.26	
13,789.00	89.76	166.73	9,570.17	4,417.41	-4,162.00	1,562.77		0.37	
13,884.00	90.16	166.89	9,570.23	4,512.40	-4,254.49	1,584.45		0.45	
13,979.00	90.35	167.32	9,569.81	4,607.37	-4,347.09	1,605.65		0.49	
14,074.00	90.96	166.05	9,568.72	4,702.36	-4,439.53	1,627.53		1.48	
14,169.00	87.67	166.77	9,569.86	4,797.33	-4,531.85	1,649.85		3.55	
14,264.00	92.66	166.35	9,569.59	4,892.29	-4,624.22	1,671.92		5.27	
14,358.00	93.55	160.80	9,564.49	4,986.04	-4,714.22	1,698.45		5.97	
14,452.00	89.55	164.92	9,561.95	5,079.84	-4,803.97	1,726.13		6.11	
14,547.00	89.76	165.27	9,562.52	5,174.83	-4,895.77	1,750.56		0.43	
14,642.00	90.35	163.35	9,562.43	5,269.78	-4,987.23	1,776.25		2.11	
14,736.00	90.56	165.43	9,561.68	5,363.74	-5,077.75	1,801.54		2.22	
14,831.00	90.72	167.08	9,560.62	5,458.73	-5,170.03	1,824.11		1.74	
14,926.00	90.47	165.68	9,559.63	5,553.72	-5,262.35	1,846.48		1.50	
15,021.00	90.78	168.11	9,558.60	5,648.69	-5,354.86	1,868.02		2.58	
15,108.00	89.21	167.08	9,558.61	5,735.65	-5,439.82	1,886.71		2.16	
15,203.00	89.55	166.74	9,559.63	5,830.63	-5,532.35	1,908.22		0.51	
Formations									
Formation Name	Prog Top Override (TVD SS) (ft(elv))			Prog Top MD (ftKB)	Prog Top (TVD) (ftKB)		Final Top MD (ftKB)	Final Top (TVD) (ftKB)	
ILP	-6,580.0				9,570.0				
269_0_DEAN	-6,639.0				9,629.0				
304_0_STRAWN	-8,065.0				11,055.0				
Daily Contacts									
Job Contact				Title		Office	Mobile	Email	

RICHARDSON, KEN, AREA DRILLING SUPERINTENDENT	AREA DRILLING SUPERINTENDENT	432-571-2557	432-557-8128	KEN.RICHARDSON@PXD.COM
SPACEK, KYLE, ENGINEER	ENGINEER	432-571-2800	432-438-0187	KYLE.SPACEK@PXD.COM
LUTHER, JACKIE, ENGINEER	ENGINEER	972-969-5626	303-512-3803	JACKIE.LUTHER@PXD.COM
JAY, JON, SUPERINTENDENT	SUPERINTENDENT	432-571-2454	432-234-2702	JON.JAY@PXD.COM
TRANSIER, KENNETH, SUPERINTENDENT	SUPERINTENDENT		318-481-3868	KENNETH.TRANSIER@PXD.COM
SATTERFIELD, JOHN, WELLSITE SUPERVISOR	WELLSITE SUPERVISOR		337-578-5339	JOHN.SATTERFIELD@PXD.COM
ASH, WARREN, WELLSITE SUPERVISOR	WELLSITE SUPERVISOR		661-333-4101	WARREN.ASH@PXD.COM
WIEST, JUSTIN, MUD ENGINEER	MUD ENGINEER		308-249-2818	JUSTIN.WIEST@PXD.COM
RIG-H&P 417, RIG PHONE	RIG PHONE	361-489-3691		DL-HP417@PXD.COM
Personnel Log				
Company				Count
PIONEER NATURAL RESOURCES USA INC				2
PIONEER NATURAL RESOURCES USA INC				1
HELMERICH & PAYNE INTERNATIONAL DRILLING CO				13
BAKER HUGHES OILFIELD OPERATIONS INC				3
MID CONTINENT WELL LOGGING SERVICE INC				2
STALLION SOLIDS CONTROL INC				1

H & P 417

Accept:

12/20/2022

Release:

Days Since LTI:

563.00

Days Since RI:

563.00

PERMIAN ASSET TEAM

Job:

ODR

Report Date:

02/15/2023

Report #:

15

DFS:

11

AFE #:

9019713

Total AFE + Sup:

\$3,798,607.26

Daily Field Est. (Cost):

\$121,254.95

Daily Drilling Report

API/UWI 42-003-48491-0000		Well Profile HORIZONTAL		Open Formation LOWER SPRABERRY SHALE (SPBY L C1)			Field Name SPRABERRY (TREND AREA)				
SSN ID00003259		Property Sub	KB-Grd (ft) 26.00		Orig KB Elevation (ft) 2,990.00		Ground Elevation (ft) 2,964.00		Spud Date 11/3/2022	TD Date	
Jobs											
Responsible Grp 2			Responsible Grp 3			Job Type	Start Date		End Date	Job Status	
DRL ENG - JACKIE LUTHER			AREA TEAM 2			ODR	11/3/2022 01:30			IN PROGRESS	
Job Dates (ex. Estimated Pad Release, TXRRC Calls)											
Type	Subtype		Date	Note							
MILESTONE	ESTIMATED PAD RELEASE		3/5/2023	Batch Drilling 5th Prod. well on 6 well pad (Updated 2/13/23)plus one C/O and run prod casing.							
Daily Operations											
Footage/Meterage (ft) 2,139.00		Drilling Hours 23.07	% Rotating Time 92.63		End Depth (ftKB) 17,555.0	Target Depth (ftKB) 24,992.0		Daily Field Est Total \$121,254.95		Cum Field Est To Date \$2,282,862.11	
24 HR ROP (ft/hr) 92.7	Circulating Hours 0.48	% Sliding Time 7.37	End Depth (TVD) (ftKB) 9,550.9		Target Depth Depth (TVD) (ftKB) 9,552.6		Daily Mud Field Est Total \$14,881.79		Cum Mud Field Est \$104,472.70	Total AFE + Sup \$3,798,607.26	
Daily Goal Description DRILLED FEET			Daily Goal - Last 24 3,500.0			Daily Goal - Next 24 3,000.0			Goal Comments Goal not met		
Backbuild Yes	Lateral Inclination Toe Flat	Last Casing String INTERMEDIATE, 6,883.0ftKB				Next Casing String PROPOSED PRODUCTION, 24,993.0ftKB					
Avg Connection Gas 313.00		Avg Trip Gas 0.00	Avg Background Gas 305.00		Max Connection Gas 381.00		Max Trip Gas 0.00		Max Drill Gas 417.00		
Operations Summary Drill Prod Lateral w/RSS T/17,555' SD 17,341', Inc: 89.55°, Amz:165.56°, Avg DLS: 1.34°, Above:9.39', Left 8.28'											
Operations Next Report Period Drill Prod Lateral w/RSS at 20,555'											
Operations At Report Time Drilling Prod Lateral w/RSS at 17,555'											
Remarks No Accidents, Incidents or Spills Reported Surface: 100% Complete Intermediate1: 100% Complete Production Vert: 100% Complete Production Curve: 100 % Complete Production Lateral: 51% Complete Savor Sub:10,699' Daily NPT:.0 H&P:5 3rd Party:10.5 Pioneer: .5											
Time Log											
Start Time	Dur (hr)	End Time	Phase	Operation	Ops Category	Com		Start Depth (ftKB)	End Depth (ftKB)	Prob Hrs	Prob Ref #
06:00	22	04:00	PROD, DRL LAT	DRL	NORMAL	Drill 8.5" Prod Lateral F/15,416 T/17,360 (1,944' @ 88.36 fph), WOB:45, GPM 600, SPP:4400, Diff:600, RPM:90, TQ:18K, MW 8.5 Safety stand down on dropped objects, communication, accountability, Taking the time to do things right, Culture, Safety awareness, stopping the Job (Day crew stayed over 1 hr)		15,416.0	17,360.0		
04:00	0.5	04:30	PROD, DRL LAT	RIG_SVC	NORMAL	Rig Service C/O Inline screen		17,360.0	17,360.0		
04:30	1.5	06:00	PROD, DRL LAT	DRL	NORMAL	Drill 8.5" Prod Lateral F/17,360' T/17,555 (195' @ 130.0 fph), WOB:45, GPM 600, SPP:4400, Diff:600, RPM:90, TQ:16K, MW 8.5 SD 17,341', Inc: 89.55°, Amz:165.56°, Avg DLS: 1.34°, Above:9.39', Left 8.28'		17,360.0	17,555.0		
Drill Strings											
BHA #5 , PRODUCTION - VERTICAL/CURVE/LATERAL											
Bit Run			Drill Bit 4 8 1/2, TKC66-A1, A274931			Bit Type PDC		Make REED			
Nozzles (1/32")			Bit Total Fluid Area (nozzles) (in²)		IADC Bit Dull		Hours Drilled By Bit (hr)		Depth Drilled By Bit (ft)		

13/13/13/13/13		0.78		-----		98.54		10,649.00									
BHA Drilling Time (hr)		BHA Depth Drilled (ft)		BHA ROP (ft/hr)		Depth In (ftKB)		Depth Out (ftKB)									
98.54		10,649.00		108.1		6,906.0		17,555.0									
Drill String Components																	
Jts	Item Des		OD (in)	ID (in)	Len (ft)	Cum Len (ft)	Wt (lbf)	Cum Wt (1000lbf)	Make								
553	DRILL PIPE		5	4.28	17,433.72	17,555.00	339,957.5	340	RIG								
1	SUB - FILTER		6 3/4	2.25	3.77	121.28		0	GE/BAKER HUGHES								
1	MOTOR - STABILIZER SLEEVE		7 1/8	1.75	41.28	117.51		0	GE/BAKER HUGHES								
1	ANTI-STALL TOOL		7	3.00	26.53	76.23		0	ARSENAL								
1	STABILIZER		7	2.88	11.13	49.70		0	GE/BAKER HUGHES								
1	MWD TOOL - NON-RETRIEVABLE		7	4.83	12.65	38.57		0	GE/BAKER HUGHES								
1	RSS TOOL		7	3.25	15.58	25.92		0	GE/BAKER HUGHES								
1	RSS TOOL		7	4.33	9.34	10.34		0	GE/BAKER HUGHES								
Mud Motors																	
SN		Bend Angle	Bearing Type		Lobe Config		# Stages	Lwr Defin Type	Bit To Bend								
15869114		.25	SEALED		6:7		10.6		3.25								
Sensors																	
Sensor Type			Sensor-Bit (ft)				Note										
NEAR BIT INCLINOMETER			6.93														
GAMMA			22.44														
Drilling Parameters																	
Start Time	End Time	Start Depth (ftKB)	Int Depth (ft)	Int ROP (ft/hr)	WOB (1000lbf)	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	01:25	15,416.0	1,693.00	87.2	36	81	401.0	582	3,945.0	107.0	179	179	179	179	15.0	15.0	
01:28	01:40	17,109.0	0.00		0	0	0.0	460	2,703.0	0.0	248	248	248	248	0.0	0.0	
01:52	03:49	17,109.0	255.00	130.8	41	90	674.0	596	4,446.0	141.0	184	184	184	184	18.0	18.0	
04:00	04:17	17,364.0	0.00		4	0	0.0	597	3,733.0	0.0	219	219	219	219	0.0	0.0	
04:17	06:00	17,364.0	191.00	112.4	4	0	0.0	597	3,733.0	0.0	219	219	219	219	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)				
8.60	8.95	164.5		2.9	246.3	472.5	16.7		681.1		310.73	487.96	354.42				
Mud Checks																	
Time		Mud Company				Type	Depth (ftKB)		Density (lb/gal)		Funnel Viscosity (s/qt)			T Flowline (° F)			
2/14/2023 19:00		PIONEER DRILLING FLUIDS				OIL BASE	16,520.0		8.60		63			105.0			
pV (cP)	YP (lbf/100ft²)	Vis 3rpm	Vis 6rpm	Filtrate (mL/30min)		HTHP Filtrate (mL/30min)		HTHP Temperature (° F)		HTHP Pressure (psi)							
	8.000	5	6			7.8		250.0		500.0							
Solids (%)		Low Gravity Solids (%)				Sand (%)		MBT (lb/bbl)		Pm (mL/mL)		Pf (mL/mL)					
10.0		8.3															
Chlorides (mg/L)		Calcium (mg/L)		CaCl (ppm)		Oil Water Ratio		Electric Stab (V)		Lime (lb/bbl)		pH					
30,000		3,200.000		0		72.2/27.8		615.0		2.6							
Gel 10 sec (lbf/100ft²)				Gel 10 min (lbf/100ft²)				Gel 30 min (lbf/100ft²)									
14.000				18.000				20.000									
Comment																	
Mud Checks																	
Time		Mud Company				Type	Depth (ftKB)		Density (lb/gal)		Funnel Viscosity (s/qt)			T Flowline (° F)			
2/14/2023 07:00		PIONEER DRILLING FLUIDS				OIL BASE	15,590.0		8.50		63			105.0			
pV (cP)	YP (lbf/100ft²)	Vis 3rpm	Vis 6rpm	Filtrate (mL/30min)		HTHP Filtrate (mL/30min)		HTHP Temperature (° F)		HTHP Pressure (psi)							
	10.000	5	6			8.4		250.0		500.0							
Solids (%)		Low Gravity Solids (%)				Sand (%)		MBT (lb/bbl)		Pm (mL/mL)		Pf (mL/mL)					
9.0		7.4															
Chlorides (mg/L)		Calcium (mg/L)		CaCl (ppm)		Oil Water Ratio		Electric Stab (V)		Lime (lb/bbl)		pH					
28,000		3,200.000		0		72.5/27.5		636.0		2.9							
Gel 10 sec (lbf/100ft²)				Gel 10 min (lbf/100ft²)				Gel 30 min (lbf/100ft²)									
14.000				18.000				20.000									
Comment																	
Last BOP Test																	
Date		Test Type	Item Tested				Next Test Date		Com								
2/10/2023 01:15		BOP	BOP'S, 12/20/2022 03:00				3/3/2023 01:15		Test BOP 5000 High /250 Low								
Leak Off and Formation Integrity Tests																	
Test Type					Depth (ftKB)			Dens Fluid (lb/gal)									
FORMATION INTEGRITY					1,945.0			12.98									
FORMATION INTEGRITY					6,870.0			9.50									
Casing Pressure Test																	
Test Type	Test Subtype		Date		Item Tested			Failed?	Time (min)	P (psi)							
CASING	STANDARD		11/8/2022 11:00		SURFACE, 1,936.0ftKB			No	30.00	1,000.0							
CASING	STANDARD		2/10/2023 06:00		INTERMEDIATE, 6,883.0ftKB			No	30.00	2,500.0							
Kick Offs & Key Depths																	
Date			Type		Top Depth (ftKB)			Depth Top (TVD) (ftKB)									
2/11/2023 15:15			KICK OFF		8,979.0			8,947.8									
2/12/2023 06:00			HEEL		9,953.0			9,529.6									

Casing Strings									
Description	Set Depth (ftKB)		Set Depth (TVD) (ftKB)		OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
CONDUCTOR	106.0		106.0		20	H40	78.67		
SURFACE	1,936.0		1,935.6		13 3/8	J55	54.50	BTC	1,311.0
INTERMEDIATE	6,883.0		6,852.4		9 5/8	L80-IC	40.00	BTC	3,375.0
Gas Emissions - Flare									
Type		Method		Dur (Min)		Amount		Units	Com
No Data									
Job Supply Amounts									
Supply Item Des	Type	Unit Label	Received	Consumed	Returned	Note		Cum On Loc	Cum Consumed
DIESEL	MUD	GAL	7095	7000		Mud Diesel (Ticket # 56403)		15,276	29825
DIESEL	FUEL	GAL		3004		Rig Fuel		25,593	27674
Mud Additive Amounts									
Des		Type			Units	Rec	Consumed	On Loc	Cum Cons
DRILLING FLUID TECH		SUPERVISION			EA	1	1	0.0	10
TRUCKING		MISCELLANEOUS			EA	1	1	0.0	5
PMDHYPDF-A200		SHAKER SCREEN			EA		5	23.0	24
XMP GILSONITE		FILTRATE CONTROL			LB SACK		9	45.0	55
SOLTEX		FILTRATE CONTROL			LB SACK		10	50.0	67
DD TONE		ORGANOPHILLIC CLAY			LB SACK	50	34	118.0	120
LIME		ALKALINITY CONTROL			LB SACK	150	55	175.0	266
CALCIUM CHLORIDE		CALCIUM CHLORIDE			LB SACK	224	80	224.0	304
DD WET		WETTING AGENT			GAL		90	500.0	200
DDF MUL		ALL IN ONE EMULSIFIER			GAL	550	160	1,135.0	985
DD LEM		LOW END MODIFIER			GAL	550	270	915.0	1,020
TECH SERVICE SUPPORT		SUPERVISION			EA	350	350	0.0	3,500
DIESEL - FOR MUD		OIL MUD ADDITIVE			GAL	7095	7000	36,135.0	28,900
Pump Operations									
Pump #	Make		Model		Liner Size (in)		Stroke (in)	Vol/Stk (bbl/stk)	P Max (psi)
1	GARDNER-DENVER		PZ-11-1600		5 1/2		11.00	0.081	7,500.0
2	GARDNER-DENVER		PZ-11-1600		5 1/2		11.00	0.081	7,500.0
3	GARDNER-DENVER		PZ-11-1600		5 1/2		11.00	0.081	7,500.0
Pump Checks									
Pump #	Depth (ftKB)		Time	P (psi)	Strokes (spm)		Q Flow (gpm)		Eff (%)
No Data									
Deviation Surveys									
Date			Description			Job			
11/3/2022 04:30			AS DRILL SURVEY			ODR, 11/3/2022 01:30			
Survey Data - All surveys for 24 hr reporting period									
MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)		
15,486.00	90.01	166.76	9,560.37	6,113.59	-5,807.84	1,972.98	0.44		
15,580.00	89.83	165.33	9,560.50	6,207.59	-5,899.06	1,995.65	1.53		
15,675.00	89.36	165.95	9,561.17	6,302.59	-5,991.09	2,019.21	0.82		
15,769.00	90.72	167.73	9,561.11	6,396.57	-6,082.61	2,040.61	2.38		
15,864.00	92.07	163.66	9,558.79	6,491.52	-6,174.62	2,064.07	4.51		
15,959.00	91.00	166.48	9,556.25	6,586.46	-6,266.37	2,088.54	3.17		
16,053.00	90.32	167.94	9,555.17	6,680.43	-6,358.03	2,109.34	1.71		
16,148.00	91.40	163.34	9,553.74	6,775.39	-6,450.02	2,132.90	4.97		
16,243.00	91.52	166.63	9,551.32	6,870.33	-6,541.74	2,157.50	3.46		
16,338.00	90.69	168.54	9,549.49	6,965.27	-6,634.49	2,177.91	2.19		
16,432.00	92.48	172.57	9,546.89	7,058.90	-6,727.16	2,193.33	4.69		
16,522.00	90.93	161.27	9,544.20	7,148.70	-6,814.64	2,213.66	12.67		
16,611.00	89.79	164.61	9,543.64	7,237.56	-6,899.71	2,239.77	3.97		
16,702.00	90.50	164.30	9,543.41	7,328.53	-6,987.38	2,264.15	0.85		
16,792.00	89.70	163.76	9,543.25	7,418.48	-7,073.91	2,288.92	1.07		
16,882.00	89.55	164.10	9,543.84	7,508.43	-7,160.39	2,313.83	0.41		
16,971.00	90.38	163.51	9,543.90	7,597.37	-7,245.85	2,338.65	1.14		
17,062.00	89.27	164.58	9,544.17	7,688.32	-7,333.34	2,363.66	1.69		
17,152.00	88.72	167.50	9,545.75	7,778.29	-7,420.66	2,385.37	3.30		
17,246.00	88.78	164.55	9,547.80	7,872.26	-7,511.85	2,408.06	3.14		
17,341.00	89.55	165.56	9,549.19	7,967.24	-7,603.62	2,432.56	1.34		
Formations									
Formation Name	Prog Top Override (TVD SS) (ft(elv))		Prog Top MD (ftKB)	Prog Top (TVD) (ftKB)	Final Top MD (ftKB)		Final Top (TVD) (ftKB)		
ILP	-6,580.0			9,570.0					
PBHL/TD	-6,562.0			9,552.0					
269_0_DEAN	-6,639.0			9,629.0					
304_0_STRAWN	-8,065.0			11,055.0					
Daily Contacts									
Job Contact			Title		Office	Mobile	Email		
RICHARDSON, KEN, AREA DRILLING SUPERINTENDENT			AREA DRILLING SUPERINTENDENT		432-571-2557	432-557-8128	KEN.RICHARDSON@PXD.COM		

SPACEK, KYLE, ENGINEER	ENGINEER	432-571-2800	432-438-0187	KYLE.SPACEK@PXD.COM
LUTHER, JACKIE, ENGINEER	ENGINEER	972-969-5626	303-512-3803	JACKIE.LUTHER@PXD.COM
JAY, JON, SUPERINTENDENT	SUPERINTENDENT	432-571-2454	432-234-2702	JON.JAY@PXD.COM
TRANSIER, KENNETH, SUPERINTENDENT	SUPERINTENDENT		318-481-3868	KENNETH.TRANSIER@PXD.COM
SATTERFIELD, JOHN, WELLSITE SUPERVISOR	WELLSITE SUPERVISOR		337-578-5339	JOHN.SATTERFIELD@PXD.COM
ASH, WARREN, WELLSITE SUPERVISOR	WELLSITE SUPERVISOR		661-333-4101	WARREN.ASH@PXD.COM
WIEST, JUSTIN, MUD ENGINEER	MUD ENGINEER		308-249-2818	JUSTIN.WIEST@PXD.COM
RIG-H&P 417, RIG PHONE	RIG PHONE	361-489-3691		DL-HP417@PXD.COM
Personnel Log				
Company				Count
PIONEER NATURAL RESOURCES USA INC				2
PIONEER NATURAL RESOURCES USA INC				1
HELMERICH & PAYNE INTERNATIONAL DRILLING CO				13
BAKER HUGHES OILFIELD OPERATIONS INC				3
MID CONTINENT WELL LOGGING SERVICE INC				2
STALLION SOLIDS CONTROL INC				1

H & P 417	
Accept:	12/20/2022
Release:	
Days Since LTI:	564.00
Days Since RI:	564.00

PERMIAN ASSET TEAM	
Job:	ODR
Report Date:	02/16/2023
Report #:	16
DFS:	12
AFE #:	9019713
Total AFE + Sup:	\$3,798,607.26
Daily Field Est. (Cost):	\$130,326.12

Daily Drilling Report

API/UWI 42-003-48491-0000		Well Profile HORIZONTAL		Open Formation LOWER SPRABERRY SHALE (SPBY L C1)			Field Name SPRABERRY (TREND AREA)				
SSN ID00003259		Property Sub	KB-Grd (ft) 26.00		Orig KB Elevation (ft) 2,990.00		Ground Elevation (ft) 2,964.00		Spud Date 11/3/2022	TD Date	
Jobs											
Responsible Grp 2			Responsible Grp 3			Job Type	Start Date		End Date	Job Status	
DRL ENG - JACKIE LUTHER			AREA TEAM 2			ODR	11/3/2022 01:30			IN PROGRESS	
Job Dates (ex. Estimated Pad Release, TXRRC Calls)											
Type	Subtype		Date	Note							
MILESTONE	ESTIMATED PAD RELEASE		3/5/2023	Batch Drilling 5th Prod. well on 6 well pad (Updated 2/13/23)plus one C/O and run prod casing.							
Daily Operations											
Footage/Meterage (ft) 841.00		Drilling Hours 9.52	% Rotating Time 100.00		End Depth (ftKB) 18,396.0	Target Depth (ftKB) 24,992.0		Daily Field Est Total \$130,326.12		Cum Field Est To Date \$2,413,188.23	
24 HR ROP (ft/hr) 88.3	Circulating Hours 0.40	% Sliding Time 0.00	End Depth (TVD) (ftKB) 9,549.9		Target Depth Depth (TVD) (ftKB) 9,552.6		Daily Mud Field Est Total \$18,216.40		Cum Mud Field Est \$122,689.10	Total AFE + Sup \$3,798,607.26	
Daily Goal Description DRILLED FEET			Daily Goal - Last 24 3,000.0			Daily Goal - Next 24 1,500.0			Goal Comments Goal not met		
Backbuild Yes	Lateral Inclination Toe Flat	Last Casing String INTERMEDIATE, 6,883.0ftKB				Next Casing String PROPOSED PRODUCTION, 24,993.0ftKB					
Avg Connection Gas 342.00		Avg Trip Gas 114.00		Avg Background Gas 351.00		Max Connection Gas 434.00		Max Trip Gas 347.00		Max Drill Gas 429.00	
Operations Summary Drill Prod Lateral w/RSS T/18,396', Trouble shoot mud motor, TOH for BHA F/18,396' T/BHA. SD 18,286', Inc: 88.90°, Amz:167.64°, Avg DLS: 2.30°, Below:1', Left 3'											
Operations Next Report Period TIH, Drill Prod Lateral w/RSS											
Operations At Report Time TOH for Directional BHA.											
Remarks No Accidents, Incidents or Spills Reported Surface: 100% Complete Intermediate1: 100% Complete Production Vert: 100% Complete Production Curve: 100 % Complete Production Lateral: 56% Complete Savor Sub:11,540' Daily NPT:13.75 H&P:5 3rd Party:24.25 Pioneer: 0.5											
Time Log											
Start Time	Dur (hr)	End Time	Phase	Operation	Ops Category	Com		Start Depth (ftKB)	End Depth (ftKB)	Prob Hrs	Prob Ref #
06:00	10.25	16:15	PROD, DRL LAT	DRL	NORMAL	Drill 8.5" Prod Lateral F/17,555' T/18,396' (841' @ 82 fph), WOB:45, GPM 600, SPP:4,400, Diff:600, RPM:90, TQ:16K, MW 8.5 SD 18,286', Inc: 88.90°, Amz:167.64°, Avg DLS: 2.30°, Below:1', Left 3'		17,555.0	18,396.0		
16:15	0.5	16:45	PROD, DRL LAT	CIRC	NORMAL	Trouble shoot BHA due to PR.		18,396.0	18,396.0	0.50	5
16:45	0.5	17:15	PROD, DRL LAT	TOOH_ELEV	NORMAL	TOH pull 10 stds wet, F/18,396' T/17,460', hole taking proper fill.		18,396.0	18,396.0	0.50	5
17:15	0.25	17:30	PROD, DRL LAT	FLOW_CHK	NORMAL	Flow check, well static.		18,396.0	18,396.0	0.25	5
17:30	9.25	02:45	PROD, DRL LAT	TOOH_ELEV	NORMAL	TOH for BHA due to DMF, F/17,460' T/6,229', hole taking proper fill. (Change breaks on DP & HWDP)		18,396.0	18,396.0	9.25	5
02:45	0.5	03:15	PROD, DRL LAT	HDL_ROT HD	NORMAL	Pull Rot head & install trip nipple.		18,396.0	18,396.0	0.50	5
03:15	2.75	06:00	PROD, DRL LAT	TOOH_ELEV	NORMAL	TOH for BHA, F/6,229' T/BHA, hole taking proper fill.		18,396.0	18,396.0	2.75	5
Interval Problems											
DIRECTIONAL, 18,396.0ftKB, 2/15/2023 16:15											
Ref #	Dur (hr)	Exclude From Problem Time Calcs?		SubType	Problem Description		Est Cost OR (Cost)	Accountable Party		Comment	

5	No		MOTOR	DOWNHOLE EQUIPMENT		0.00	BAKER HUGHES OILFIELD OPERATIONS INC	TOH for DMF.									
Drill Strings																	
BHA #5 , PRODUCTION - VERTICAL/CURVE/LATERAL																	
Bit Run		Drill Bit				Bit Type		Make									
4		8 1/2, TKC66-A1, A274931				PDC		REED									
Nozzles (1/32")		Bit Total Fluid Area (nozzles) (in²)		IADC Bit Dull		Hours Drilled By Bit (hr)		Depth Drilled By Bit (ft)									
13/13/13/13/13/13		0.78		-----		108.06		11,490.00									
BHA Drilling Time (hr)		BHA Depth Drilled (ft)		BHA ROP (ft/hr)		Depth In (ftKB)		Depth Out (ftKB)									
108.06		11,490.00		106.3		6,906.0		18,396.0									
Drill String Components																	
Jts	Item Des		OD (in)	ID (in)	Len (ft)	Cum Len (ft)	Wt (lbf)	Cum Wt (1000lbf)	Make								
576	DRILL PIPE		5	4.28	18,274.72	18,396.00	356,357.0	356	RIG								
1	SUB - FILTER		6 3/4	2.25	3.77	121.28		0	GE/BAKER HUGHES								
1	MOTOR - STABILIZER SLEEVE		7 1/8	1.75	41.28	117.51		0	GE/BAKER HUGHES								
1	ANTI-STALL TOOL		7	3.00	26.53	76.23		0	ARSENAL								
1	STABILIZER		7	2.88	11.13	49.70		0	GE/BAKER HUGHES								
1	MWD TOOL - NON-RETRIEVABLE		7	4.83	28.23	38.57		0	GE/BAKER HUGHES								
1	RSS TOOL		7	4.33	9.34	10.34		0	GE/BAKER HUGHES								
Mud Motors																	
SN		Bend Angle	Bearing Type		Lobe Config		# Stages	Lwr Defin Type	Bit To Bend								
15869114		.25	SEALED		6:7		10.6		3.25								
Sensors																	
Sensor Type			Sensor-Bit (ft)			Note											
NEAR BIT INCLINOMETER			6.93														
GAMMA			22.44														
Drilling Parameters																	
Start Time	End Time	Start Depth (ftKB)	Int Depth (ft)	Int ROP (ft/hr)	WOB (1000lbf)	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	13:03	17,555.0	603.00	85.5	43	77	483.0	596	4,216.0	101.0	186	186	186	186	18.0	18.0	
13:21	14:12	18,158.0	72.00	84.7	42	52	446.0	596	4,301.0	109.0	187	187	187	187	17.0	17.0	
14:24	16:01	18,230.0	166.00	102.5	41	76	394.0	596	4,244.0	108.0	186	186	186	186	18.0	18.0	
16:18	16:42	18,396.0	0.00		1	30	0.0	549	3,193.0	0.0	231	231	231	231	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)		
8.55	8.90	127.2		2.2	226.5	397.2	15.4		626.3		325.86		526.56		354.42		
Mud Checks																	
Time		Mud Company				Type	Depth (ftKB)		Density (lb/gal)		Funnel Viscosity (s/qt)			T Flowline (° F)			
2/15/2023 19:00		PIONEER DRILLING FLUIDS				OIL BASE	18,396.0		8.50		62			90.0			
pV (cP)	YP (lb/100ft²)		Vis 3rpm	Vis 6rpm	Filtrate (mL/30min)		HTHP Filtrate (mL/30min)			HTHP Temperature (° F)			HTHP Pressure (psi)				
	9.000		5	6			7.8			250.0			500.0				
Solids (%)		Low Gravity Solids (%)				Sand (%)		MBT (lb/bbl)		Pm (mL/mL)		Pf (mL/mL)					
9.0		7.2															
Chlorides (mg/L)			Calcium (mg/L)			CaCl (ppm)		Oil Water Ratio		Electric Stab (V)			Lime (lb/bbl)		pH		
31,000			3,200.000			0		72.5/27.5		640.0			2.6				
Gel 10 sec (lb/100ft²)					Gel 10 min (lb/100ft²)					Gel 30 min (lb/100ft²)							
17.000					21.000					23.000							
Comment																	
CCI - NO PSI																	
Mud Checks																	
Time		Mud Company				Type	Depth (ftKB)		Density (lb/gal)		Funnel Viscosity (s/qt)			T Flowline (° F)			
2/15/2023 07:00		PIONEER DRILLING FLUIDS				OIL BASE	17,570.0		8.55		62			105.0			
pV (cP)	YP (lb/100ft²)		Vis 3rpm	Vis 6rpm	Filtrate (mL/30min)		HTHP Filtrate (mL/30min)			HTHP Temperature (° F)			HTHP Pressure (psi)				
	9.000		5	6			8.2			250.0			500.0				
Solids (%)		Low Gravity Solids (%)				Sand (%)		MBT (lb/bbl)		Pm (mL/mL)		Pf (mL/mL)					
9.5		7.8															
Chlorides (mg/L)			Calcium (mg/L)			CaCl (ppm)		Oil Water Ratio		Electric Stab (V)			Lime (lb/bbl)		pH		
30,000			3,200.000			0		72.4/27.6		621.0			2.6				
Gel 10 sec (lb/100ft²)					Gel 10 min (lb/100ft²)					Gel 30 min (lb/100ft²)							
15.000					19.000					21.000							
Comment																	
CCI - NO PSI																	
Last BOP Test																	
Date		Test Type	Item Tested				Next Test Date		Com								
2/10/2023 01:15		BOP	BOP'S, 12/20/2022 03:00				3/3/2023 01:15		Test BOP 5000 High /250 Low								
Leak Off and Formation Integrity Tests																	
Test Type					Depth (ftKB)			Dens Fluid (lb/gal)									
FORMATION INTEGRITY					1,945.0			12.98									
FORMATION INTEGRITY					6,870.0			9.50									
Casing Pressure Test																	
Test Type	Test Subtype		Date			Item Tested			Failed?	Time (min)		P (psi)					
CASING	STANDARD		11/8/2022 11:00			SURFACE, 1,936.0ftKB			No	30.00		1,000.0					

CASING	STANDARD	2/10/2023 06:00	INTERMEDIATE, 6,883.0ftKB			No	30.00	2,500.0
Kick Offs & Key Depths								
Date		Type		Top Depth (ftKB)		Depth Top (TVD) (ftKB)		
2/11/2023 15:15		KICK OFF		8,979.0		8,947.8		
2/12/2023 06:00		HEEL		9,913.0		9,529.5		
Casing Strings								
Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)		OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
CONDUCTOR	106.0	106.0		20	H40	78.67		
SURFACE	1,936.0	1,935.6		13 3/8	J55	54.50	BTC	1,311.0
INTERMEDIATE	6,883.0	6,852.4		9 5/8	L80-IC	40.00	BTC	3,375.0
Gas Emissions - Flare								
Type		Method		Dur (Min)		Amount		Units
Com								
No Data								
Job Supply Amounts								
Supply Item Des	Type	Unit Label	Received	Consumed	Returned	Note	Cum On Loc	Cum Consumed
DIESEL	FUEL	GAL	7520	2903		Rig Fuel (Ticket #56482)	30,210	30577
DIESEL	MUD	GAL	7530	4500		Mud Diesel (Ticket # 56492)	18,306	34325
Mud Additive Amounts								
Des		Type			Units	Rec	Consumed	On Loc
Cum Cons								
DRILLING FLUID TECH		SUPERVISION			EA	1	1	0.0
11								
PMDHYPDF-A200		SHAKER SCREEN			EA		1	22.0
25								
KCL		POTASSIUM CHLORIDE			LB		2	117.0
13								
BULK BARITE - BARIUM SULFATE		WEIGHTING MATERIAL			TON		4	33.53
49								
XMP GILSONITE		FILTRATE CONTROL			LB SACK		10	35.0
65								
SOLTEX		FILTRATE CONTROL			LB SACK		15	35.0
82								
DD TONE		ORGANOPHILLIC CLAY			LB SACK		30	88.0
150								
LIME		ALKALINITY CONTROL			LB SACK		55	120.0
321								
CALCIUM CHLORIDE		CALCIUM CHLORIDE			LB SACK		89	135.0
393								
DD WET		WETTING AGENT			GAL		175	325.0
375								
DDF MUL		ALL IN ONE EMULSIFIER			GAL		265	870.0
1,250								
DD LEM		LOW END MODIFIER			GAL		275	640.0
1,295								
TECH SERVICE SUPPORT		SUPERVISION			EA	350	350	0.0
3,850								
DIESEL - FOR MUD		OIL MUD ADDITIVE			GAL		4500	31,635.0
33,400								
Pump Operations								
Pump #	Make		Model		Liner Size (in)	Stroke (in)	Vol/Stk (bbl/stk)	P Max (psi)
1	GARDNER-DENVER		PZ-11-1600		5 1/2	11.00	0.081	7,500.0
2	GARDNER-DENVER		PZ-11-1600		5 1/2	11.00	0.081	7,500.0
3	GARDNER-DENVER		PZ-11-1600		5 1/2	11.00	0.081	7,500.0
Pump Checks								
Pump #	Depth (ftKB)		Time	P (psi)	Strokes (spm)		Q Flow (gpm)	Eff (%)
No Data								
Deviation Surveys								
Date			Description			Job		
11/3/2022 04:30			AS DRILL SURVEY			ODR, 11/3/2022 01:30		
Survey Data - All surveys for 24 hr reporting period								
MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	
17,625.00	88.96	165.98	9,553.69	8,251.19	-7,878.70	2,503.04	1.15	
17,720.00	91.00	166.17	9,553.72	8,346.19	-7,970.90	2,525.90	2.16	
17,814.00	91.34	166.67	9,551.80	8,440.16	-8,062.25	2,547.96	0.64	
17,909.00	90.32	167.06	9,550.43	8,535.14	-8,154.76	2,569.55	1.15	
18,003.00	90.81	166.40	9,549.50	8,629.12	-8,246.24	2,591.12	0.87	
18,097.00	90.41	165.27	9,548.50	8,723.12	-8,337.38	2,614.13	1.28	
18,191.00	90.75	165.41	9,547.55	8,817.11	-8,428.31	2,637.91	0.39	
18,286.00	88.90	167.64	9,547.84	8,912.09	-8,520.69	2,660.05	3.05	
Formations								
Formation Name	Prog Top Override (TVD SS) (ft(elv))			Prog Top MD (ftKB)	Prog Top (TVD) (ftKB)	Final Top MD (ftKB)	Final Top (TVD) (ftKB)	
ILP	-6,580.0				9,570.0			
PBHL/TD	-6,562.0				9,552.0			
269_0_DEAN	-6,639.0				9,629.0			
304_0_STRAWN	-8,065.0				11,055.0			
Daily Contacts								
Job Contact			Title		Office	Mobile	Email	
RICHARDSON, KEN, AREA DRILLING SUPERINTENDENT			AREA DRILLING SUPERINTENDENT		432-571-2557	432-557-8128	KEN.RICHARDSON@PXD.COM	
SPACEK, KYLE, ENGINEER			ENGINEER		432-571-2800	432-438-0187	KYLE.SPACEK@PXD.COM	
LUTHER, JACKIE, ENGINEER			ENGINEER		972-969-5626	303-512-3803	JACKIE.LUTHER@PXD.COM	
JAY, JON, SUPERINTENDENT			SUPERINTENDENT		432-571-2454	432-234-2702	JON.JAY@PXD.COM	
TRANSIER, KENNETH, SUPERINTENDENT			SUPERINTENDENT			318-481-3868	KENNETH.TRANSIER@PXD.COM	
SATTERFIELD, JOHN, WELLSITE SUPERVISOR			WELLSITE SUPERVISOR			337-578-5339	JOHN.SATTERFIELD@PXD.COM	
HEFNER, KENNETH, WELLSITE SUPERVISOR			WELLSITE SUPERVISOR			432-559-9070	KENNETH.HEFNER@PXD.COM	
WIEST, JUSTIN, MUD ENGINEER			MUD ENGINEER			308-249-2818	JUSTIN.WIEST@PXD.COM	

RIG-H&P 417, RIG PHONE	RIG PHONE	361-489-3691		DL-HP417@PXD.COM
Personnel Log				
Company				Count
PIONEER NATURAL RESOURCES USA INC				2
PIONEER NATURAL RESOURCES USA INC				1
HELMERICH & PAYNE INTERNATIONAL DRILLING CO				14
BAKER HUGHES OILFIELD OPERATIONS INC				3
MID CONTINENT WELL LOGGING SERVICE INC				2
STALLION SOLIDS CONTROL INC				1

Interval Problems																					
DIRECTIONAL, 18,396.0ftKB, 2/15/2023 16:15																					
Ref #	Dur (hr)	Exclude From Problem Time Calcs?	SubType	Problem Description				Est Cost OR (Cost)		Accountable Party				Comment							
5	30.50	No	MOTOR	DOWNHOLE EQUIPMENT				0.00		BAKER HUGHES OILFIELD OPERATIONS INC				TOH for PR & DMF.							
Drill Strings																					
BHA #5 , PRODUCTION - VERTICAL/CURVE/LATERAL																					
Bit Run			Drill Bit						Bit Type			Make									
4			8 1/2, TKC66-A1, A274931						PDC			REED									
Nozzles (1/32")			Bit Total Fluid Area (nozzles) (in²)			IADC Bit Dull			Hours Drilled By Bit (hr)			Depth Drilled By Bit (ft)									
13/13/13/13/13/13			0.78			2-5-WT-S-X-1-BT-PR			108.06			11,490.00									
BHA Drilling Time (hr)			BHA Depth Drilled (ft)			BHA ROP (ft/hr)			Depth In (ftKB)			Depth Out (ftKB)									
108.06			11,490.00			106.3			6,906.0			18,396.0									
Drill String Components																					
Jts	Item Des			OD (in)	ID (in)	Len (ft)	Cum Len (ft)	Wt (lbf)	Cum Wt (1000lbf)			Make									
576	DRILL PIPE			5	4.28	18,274.72	18,396.00	356,357.0	356			RIG									
1	SUB - FILTER			6 3/4	2.25	3.77	121.28		0			GE/BAKER HUGHES									
1	MOTOR - STABILIZER SLEEVE			7 1/8	1.75	41.28	117.51		0			GE/BAKER HUGHES									
1	ANTI-STALL TOOL			7	3.00	26.53	76.23		0			ARSENAL									
1	STABILIZER			7	2.88	11.13	49.70		0			GE/BAKER HUGHES									
1	MWD TOOL - NON-RETRIEVABLE			7	4.83	28.23	38.57		0			GE/BAKER HUGHES									
1	RSS TOOL			7	4.33	9.34	10.34		0			GE/BAKER HUGHES									
Mud Motors																					
SN		Bend Angle		Bearing Type		Lobe Config		# Stages		Lwr Defln Type			Bit To Bend								
15869114		.25		SEALED		6:7		10.6					3.25								
Sensors																					
Sensor Type				Sensor-Bit (ft)				Note													
NEAR BIT INCLINOMETER				6.93																	
GAMMA				22.44																	
BHA #6 , PRODUCTION - LATERAL																					
Bit Run			Drill Bit						Bit Type			Make									
5			8 1/2, TKC66-Q1, A288932						PDC			REED									
Nozzles (1/32")			Bit Total Fluid Area (nozzles) (in²)			IADC Bit Dull			Hours Drilled By Bit (hr)			Depth Drilled By Bit (ft)									
13/13/13/13/13/13			0.78			-----			6.34			869.00									
BHA Drilling Time (hr)			BHA Depth Drilled (ft)			BHA ROP (ft/hr)			Depth In (ftKB)			Depth Out (ftKB)									
6.34			869.00			137.1			18,396.0			19,265.0									
Drill String Components																					
Jts	Item Des			OD (in)	ID (in)	Len (ft)	Cum Len (ft)	Wt (lbf)	Cum Wt (1000lbf)			Make									
66	DRILL PIPE			5	4.28	2,053.93	19,265.00	40,051.6	395			RIG									
24	HWDP			5	3.00	719.21	17,211.07	35,960.5	355			RIG									
519	DRILL PIPE			5	4.28	16,363.47	16,491.86	319,087.7	319			RIG									
1	SUB - FILTER			6 3/4	2.25	3.77	128.39		0			GE/BAKER HUGHES									
1	MOTOR - STABILIZER SLEEVE			7	3.00	43.00	124.62		0			GE/BAKER HUGHES									
1	ANTI-STALL TOOL			7 1/8	1.75	26.48	81.62		0			ARSENAL									
1	DRILL COLLAR - PONY			7	3.00	11.91	55.14		0			GE/BAKER HUGHES									
1	STABILIZER			6 3/4	2.75	4.24	43.23		0			GE/BAKER HUGHES									
1	MWD TOOL - NON-RETRIEVABLE			7	4.83	28.36	38.99		0			GE/BAKER HUGHES									
1	RSS TOOL			7	4.33	9.33	10.63		0			GE/BAKER HUGHES									
Mud Motors																					
SN		Bend Angle		Bearing Type		Lobe Config		# Stages		Lwr Defln Type			Bit To Bend								
15060628		0		SEALED		7:8		6.4					0								
Sensors																					
Sensor Type				Sensor-Bit (ft)				Note													
NEAR BIT INCLINOMETER				7.23																	
GAMMA				13.40																	
Drilling Parameters																					
Start Time	End Time	Start Depth (ftKB)	Int Depth (ft)	Int ROP (ft/hr)	WOB (1000lbf)	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 (°)				
22:21	22:50	18,396.0	0.00		0	50	0.0	452	2,434.0	0.0	234	234	234	234	0.0	0.0					
22:52	22:58	18,396.0	15.00	150.0	19	50	349.0	451	3,203.0	143.0	204	204	204	204	20.0	20.0					
23:09	00:07	18,411.0	94.00	96.9	34	68	428.0	452	3,147.0	97.0	203	203	203	203	19.0	19.0					
00:18	03:34	18,505.0	473.00	144.6	35	71	545.0	584	4,485.0	181.0	191	191	191	191	21.0	21.0					
03:47	04:27	18,978.0	95.00	141.8	38	76	485.0	592	4,485.0	142.0	196	196	196	196	18.0	18.0					
04:27	06:00	19,073.0	192.00	144.4	38	76	485.0	592	4,485.0	142.0	196	196	196	196	18.0	18.0					
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)	
8.70		9.12		162.3		2.9		244.2		470.0		16.6		675.4		334.83		566.32		354.42	
Mud Checks																					
Time		Mud Company				Type		Depth (ftKB)		Density (lb/gal)		Funnel Viscosity (s/qt)			T Flowline (° F)						
2/16/2023 19:00		PIONEER DRILLING FLUIDS				OIL BASE		18,396.0		8.70		65			75.0						

pV (cP)	YP (lbf/100ft²)	Vis 3rpm	Vis 6rpm	Filtrate (mL/30min)	HTHP Filtrate (mL/30min)	HTHP Temperature (° F)	HTHP Pressure (psi)			
	9.000	5	6		8.6	250.0	500.0			
Solids (%)		Low Gravity Solids (%)			Sand (%)	MBT (lb/bbl)	Pm (mL/mL)	Pf (mL/mL)		
9.5		7.7								
Chlorides (mg/L)		Calcium (mg/L)		CaCl (ppm)	Oil Water Ratio		Electric Stab (V)	Lime (lb/bbl)	pH	
31,000		3,200.000		0	72.4/27.6		631.0	2.6		
Gel 10 sec (lbf/100ft²)				Gel 10 min (lbf/100ft²)			Gel 30 min (lbf/100ft²)			
17.000				21.000			23.000			
Comment										
Mud Checks										
Time		Mud Company			Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (° F)	
2/16/2023 07:00		PIONEER DRILLING FLUIDS			OIL BASE	18,396.0	8.80	65	50.0	
pV (cP)	YP (lbf/100ft²)	Vis 3rpm	Vis 6rpm	Filtrate (mL/30min)	HTHP Filtrate (mL/30min)	HTHP Temperature (° F)	HTHP Pressure (psi)			
	9.000	5	6		8.6	250.0	500.0			
Solids (%)		Low Gravity Solids (%)			Sand (%)	MBT (lb/bbl)	Pm (mL/mL)	Pf (mL/mL)		
10.0		8.2								
Chlorides (mg/L)		Calcium (mg/L)		CaCl (ppm)	Oil Water Ratio		Electric Stab (V)	Lime (lb/bbl)	pH	
31,000		3,200.000		0	72.2/27.8		626.0	2.6		
Gel 10 sec (lbf/100ft²)				Gel 10 min (lbf/100ft²)			Gel 30 min (lbf/100ft²)			
17.000				21.000			23.000			
Comment										
Last BOP Test										
Date		Test Type	Item Tested			Next Test Date		Com		
2/10/2023 01:15		BOP	BOP'S, 12/20/2022 03:00			3/3/2023 01:15		Test BOP 5000 High /250 Low		
Leak Off and Formation Integrity Tests										
Test Type					Depth (ftKB)		Dens Fluid (lb/gal)			
FORMATION INTEGRITY					1,945.0		12.98			
FORMATION INTEGRITY					6,870.0		9.50			
Casing Pressure Test										
Test Type	Test Subtype	Date			Item Tested		Failed?	Time (min)	P (psi)	
CASING	STANDARD	11/8/2022 11:00			SURFACE, 1,936.0ftKB		No	30.00	1,000.0	
CASING	STANDARD	2/10/2023 06:00			INTERMEDIATE, 6,883.0ftKB		No	30.00	2,500.0	
Kick Offs & Key Depths										
Date		Type			Top Depth (ftKB)		Depth Top (TVD) (ftKB)			
2/11/2023 15:15		KICK OFF			8,979.0		8,947.8			
2/12/2023 06:00		HEEL			9,913.0		9,529.5			
Casing Strings										
Description	Set Depth (ftKB)		Set Depth (TVD) (ftKB)		OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)	
CONDUCTOR	106.0		106.0		20	H40	78.67			
SURFACE	1,936.0		1,935.6		13 3/8	J55	54.50	BTC	1,311.0	
INTERMEDIATE	6,883.0		6,852.4		9 5/8	L80-IC	40.00	BTC	3,375.0	
Gas Emissions - Flare										
Type		Method			Dur (Min)		Amount	Units	Com	
No Data										
Job Supply Amounts										
Supply Item Des		Type	Unit Label	Received	Consumed	Returned	Note	Cum On Loc	Cum Consumed	
DIESEL		MUD	GAL	0	0		Mud Diesel	18,306	34325	
DIESEL		FUEL	GAL	0	952		Rig Fuel	29,258	31529	
Mud Additive Amounts										
Des				Type		Units	Rec	Consumed	On Loc	Cum Cons
DRILLING FLUID TECH				SUPERVISION		EA	1	1	0.0	12
TECH SERVICE SUPPORT				SUPERVISION		EA	350	350	0.0	4,200
Pump Operations										
Pump #	Make			Model	Liner Size (in)	Stroke (in)	Vol/Stk (bbl/stk)		P Max (psi)	
1	GARDNER-DENVER			PZ-11-1600	5 1/2	11.00	0.081		7,500.0	
2	GARDNER-DENVER			PZ-11-1600	5 1/2	11.00	0.081		7,500.0	
3	GARDNER-DENVER			PZ-11-1600	5 1/2	11.00	0.081		7,500.0	
Pump Checks										
Pump #	Depth (ftKB)		Time		P (psi)	Strokes (spm)	Q Flow (gpm)		Eff (%)	
1	18,980.0		2/17/2023 03:45		680.0	40	129		95	
1	18,980.0		2/17/2023 03:45		820.0	50	161		95	
1	18,980.0		2/17/2023 03:45		580.0	30	97		95	
2	18,980.0		2/17/2023 03:45		685.0	40	129		95	
2	18,980.0		2/17/2023 03:45		790.0	50	161		95	
2	18,980.0		2/17/2023 03:45		590.0	30	97		95	
Deviation Surveys										
Date			Description			Job				
11/3/2022 04:30			AS DRILL SURVEY			ODR, 11/3/2022 01:30				
Survey Data - All surveys for 24 hr reporting period										
MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)			
18,482.00	91.01	164.50	9,547.15	9,108.05	-8,710.76	2,707.71	1.41			
18,576.00	90.39	164.51	9,546.00	9,202.02	-8,801.34	2,732.82	0.66			

18,671.00	90.67	164.94	9,545.12	9,296.99	-8,892.98	2,757.85	0.54
18,766.00	90.76	166.01	9,543.94	9,391.98	-8,984.93	2,781.67	1.13
18,860.00	91.04	165.99	9,542.46	9,485.97	-9,076.13	2,804.41	0.30
18,955.00	91.13	166.11	9,540.66	9,580.95	-9,168.31	2,827.31	0.16
Formations							
Formation Name	Prog Top Override (TVD SS) (ft(elv))		Prog Top MD (ftKB)	Prog Top (TVD) (ftKB)	Final Top MD (ftKB)	Final Top (TVD) (ftKB)	
ILP	-6,580.0			9,570.0			
PBHL/TD	-6,562.0			9,552.0			
269_0_DEAN	-6,639.0			9,629.0			
304_0_STRAWN	-8,065.0			11,055.0			
Daily Contacts							
Job Contact			Title	Office	Mobile	Email	
RICHARDSON, KEN, AREA DRILLING SUPERINTENDENT			AREA DRILLING SUPERINTENDENT	432-571-2557	432-557-8128	KEN.RICHARDSON@PXD.COM	
SPACEK, KYLE, ENGINEER			ENGINEER	432-571-2800	432-438-0187	KYLE.SPACEK@PXD.COM	
LUTHER, JACKIE, ENGINEER			ENGINEER	972-969-5626	303-512-3803	JACKIE.LUTHER@PXD.COM	
JAY, JON, SUPERINTENDENT			SUPERINTENDENT	432-571-2454	432-234-2702	JON.JAY@PXD.COM	
TRANSIER, KENNETH, SUPERINTENDENT			SUPERINTENDENT		318-481-3868	KENNETH.TRANSIER@PXD.COM	
SATTERFIELD, JOHN, WELLSITE SUPERVISOR			WELLSITE SUPERVISOR		337-578-5339	JOHN.SATTERFIELD@PXD.COM	
HEFNER, KENNETH, WELLSITE SUPERVISOR			WELLSITE SUPERVISOR		432-559-9070	KENNETH.HEFNER@PXD.COM	
WIEST, JUSTIN, MUD ENGINEER			MUD ENGINEER		308-249-2818	JUSTIN.WIEST@PXD.COM	
RIG-H&P 417, RIG PHONE			RIG PHONE	361-489-3691		DL-HP417@PXD.COM	
Personnel Log							
Company							Count
PIONEER NATURAL RESOURCES USA INC							2
PIONEER NATURAL RESOURCES USA INC							1
HELMERICH & PAYNE INTERNATIONAL DRILLING CO							13
BAKER HUGHES OILFIELD OPERATIONS INC							3
MID CONTINENT WELL LOGGING SERVICE INC							3
STALLION SOLIDS CONTROL INC							1

H & P 417	
Accept:	12/20/2022
Release:	
Days Since LTI:	566.00
Days Since RI:	566.00

Daily Drilling Report

PERMIAN ASSET TEAM	
Job:	ODR
Report Date:	02/18/2023
Report #:	18
DFS:	14
AFE #:	9019713
Total AFE + Sup:	\$3,798,607.26
Daily Field Est. (Cost):	\$144,952.37

API/UWI 42-003-48491-0000		Well Profile HORIZONTAL		Open Formation LOWER SPRABERRY SHALE (SPBY L C1)			Field Name SPRABERRY (TREND AREA)				
SSN ID00003259		Property Sub	KB-Grd (ft) 26.00		Orig KB Elevation (ft) 2,990.00		Ground Elevation (ft) 2,964.00		Spud Date 11/3/2022	TD Date	
Jobs											
Responsible Grp 2			Responsible Grp 3			Job Type	Start Date		End Date	Job Status	
DRL ENG - JACKIE LUTHER			AREA TEAM 2			ODR	11/3/2022 01:30			IN PROGRESS	
Job Dates (ex. Estimated Pad Release, TXRRC Calls)											
Type	Subtype		Date	Note							
MILESTONE	ESTIMATED PAD RELEASE		3/5/2023	Batch Drilling 5th Prod. well on 6 well pad (Updated 2/13/23)plus one C/O and run prod casing.							
Daily Operations											
Footage/Meterage (ft) 3,488.00		Drilling Hours 21.26	% Rotating Time 100.00		End Depth (ftKB) 22,753.0	Target Depth (ftKB) 24,992.0		Daily Field Est Total \$144,952.37		Cum Field Est To Date \$2,640,253.45	
24 HR ROP (ft/hr) 164.1	Circulating Hours	% Sliding Time 0.00	End Depth (TVD) (ftKB) 9,518.9		Target Depth Depth (TVD) (ftKB) 9,552.6		Daily Mud Field Est Total \$15,515.80		Cum Mud Field Est \$139,674.90	Total AFE + Sup \$3,798,607.26	
Daily Goal Description DRILLED FEET			Daily Goal - Last 24 3,000.0			Daily Goal - Next 24 2,000.0			Goal Comments Goal Met		
Backbuild Yes	Lateral Inclination Toe Flat	Last Casing String INTERMEDIATE, 6,883.0ftKB				Next Casing String PRODUCTION, 24,887.0ftKB					
Avg Connection Gas 374.00		Avg Trip Gas 0.00	Avg Background Gas 322.00		Max Connection Gas 592.00		Max Trip Gas 0.00		Max Drill Gas 611.00		
Operations Summary Drill lateral T/20,860', rig service, drill lateral T/21,280', trouble shoot rig power, Drill 8.5" Prod Lateral w/RSS T/22,753'. SD: 22,444', Inc: 90.54°, Amz:166.12°, Avg DLS: 1.86°, Above:8', Left:8'											
Operations Next Report Period Drill 8.5" Prod Lat. w/RSS to TD @ 24,993'+/-, Circ. K&M.											
Operations At Report Time Drilling 8.5" Production Lateral w/RSS @ 22,753'.											
Remarks No Accidents, Incidents or Spills Reported Surface: 100% Complete Intermediate1: 100% Complete Production Vert: 100% Complete Production Curve: 100 % Complete Production Lateral: 85% Complete Savor Sub:15,897' Daily NPT:0 H&P:5 3rd Party:41.0 Pioneer: 0.5											
Time Log											
Start Time	Dur (hr)	End Time	Phase	Operation	Ops Category	Com		Start Depth (ftKB)	End Depth (ftKB)	Prob Hrs	Prob Ref #
06:00	9	15:00	PROD, DRL LAT	DRL	NORMAL	Drill F/19,265' T/20,860' (1595' @ 177 fph), WOB:50, GPM:610, SPP:4,600, Diff:700, RPM:90, TQ:25K, with full returns. MW 8.6		19,265.0	20,860.0		
15:00	0.5	15:30	PROD, DRL LAT	RIG_SVC	NORMAL	Rig Service		20,860.0	20,860.0		
15:30	3.25	18:45	PROD, DRL LAT	DRL	NORMAL	Drill 8.5" Prod Lat. w/Baker RSS F/20,860' T/21,280' (420' @ 130 fph), WOB:50, GPM:610, SPP:4,600, Diff:700, RPM:80, TQ:28K, with full returns.		20,860.0	21,280.0		
18:45	0.75	19:30	PROD, DRL LAT	RIG_RPR	NORMAL	Trouble shoot rig power issue with gens.		21,280.0	21,280.0	0.75	6
19:30	10.5	06:00	PROD, DRL LAT	DRL	NORMAL	Drill 8.5" Prod Lat. w/Baker RSS F/21,280' T/22,753' (1,473' @ 140 fph), WOB:45, GPM:550, SPP:4,000, Diff:700, RPM:80, TQ:28K, with full returns. SD: 22,444', Inc: 90.54°, Amz:166.12°, Avg DLS: 1.86°, Above:8', Left:8'		21,280.0	22,753.0		
Interval Problems											
RIG, 21,280.0ftKB, 2/17/2023 18:45											
Ref	Dur	Exclude From Problem		SubType	Problem	Est Cost OR	Accountable Party		Comment		

#	(hr)	Time Calcs?	POWER SYSTEMS	Description	(Cost)	HELMERICH & PAYNE INTERNATIONAL DRILLING CO	Generator #2 issue, mechanic to repairs, over heating.														
6	0.75	No		GENERATOR																	
Drill Strings																					
BHA #6 , PRODUCTION - LATERAL																					
Bit Run		Drill Bit				Bit Type		Make													
5		8 1/2, TKC66-Q1, A288932				PDC		REED													
Nozzles (1/32")		Bit Total Fluid Area (nozzles) (in²)		IADC Bit Dull		Hours Drilled By Bit (hr)		Depth Drilled By Bit (ft)													
13/13/13/13/13/13		0.78		-----		27.60		4,357.00													
BHA Drilling Time (hr)		BHA Depth Drilled (ft)		BHA ROP (ft/hr)		Depth In (ftKB)		Depth Out (ftKB)													
27.60		4,357.00		157.9		18,396.0		22,753.0													
Drill String Components																					
Jts	Item Des			OD (in)	ID (in)	Len (ft)	Cum Len (ft)	Wt (lbf)	Cum Wt (1000lbf)	Make											
174	DRILL PIPE			5	4.28	5,541.93	22,753.00	108,067.6	463	RIG											
24	HWDP			5	3.00	719.21	17,211.07	35,960.5	355	RIG											
519	DRILL PIPE			5	4.28	16,363.47	16,491.86	319,087.7	319	RIG											
1	SUB - FILTER			6 3/4	2.25	3.77	128.39		0	GE/BAKER HUGHES											
1	MOTOR - STABILIZER SLEEVE			7	3.00	43.00	124.62		0	GE/BAKER HUGHES											
1	ANTI-STALL TOOL			7 1/8	1.75	26.48	81.62		0	ARSENAL											
1	DRILL COLLAR - PONY			7	3.00	11.91	55.14		0	GE/BAKER HUGHES											
1	STABILIZER			6 3/4	2.75	4.24	43.23		0	GE/BAKER HUGHES											
1	MWD TOOL - NON-RETRIEVABLE			7	4.83	28.36	38.99		0	GE/BAKER HUGHES											
1	RSS TOOL			7	4.33	9.33	10.63		0	GE/BAKER HUGHES											
Mud Motors																					
SN		Bend Angle		Bearing Type		Lobe Config		# Stages		Lwr Defln Type		Bit To Bend									
15060628		0		SEALED		7:8		6.4				0									
Sensors																					
Sensor Type			Sensor-Bit (ft)				Note														
NEAR BIT INCLINOMETER			7.23																		
GAMMA			13.40																		
Drilling Parameters																					
Start Time	End Time	Start Depth (ftKB)	Int Depth (ft)	Int ROP (ft/hr)	WOB (1000lbf)	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	15:03	19,265.0	1,596.00	176.4	42	70	439.0	611	4,947.0	210.0	179	179	179	179	22.0	22.0					
15:46	16:25	20,861.0	125.00	192.3	34	83	158.0	615	4,864.0	194.0	184	184	184	184	22.0	22.0					
16:55	17:05	20,986.0	36.00	211.8	41	79	443.0	609	5,156.0	273.0	176	176	176	176	25.0	25.0					
17:31	18:49	21,022.0	261.00	200.8	42	80	543.0	614	5,255.0	241.0	175	175	175	175	25.0	25.0					
19:26	19:52	21,283.0	78.00	181.4	18	78	215.0	541	4,122.0	213.0	202	202	202	202	17.0	17.0					
20:06	23:23	21,361.0	445.00	135.7	34	79	106.0	503	4,049.0	184.0	187	187	187	187	22.0	22.0					
23:36	04:57	21,806.0	851.00	159.1	37	80	457.0	552	4,615.0	193.0	180	180	180	180	24.0	24.0					
04:57	06:00	22,657.0	96.00	93.2	37	80	506.0	552	4,604.0	203.0	181	181	181	181	24.0	24.0					
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)	
8.55		9.04		129.3		2.3		227.7		401.6		15.5		629.7		396.79		726.41		354.42	
Mud Checks																					
Time		Mud Company				Type		Depth (ftKB)		Density (lb/gal)		Funnel Viscosity (s/qt)			T Flowline (° F)						
2/17/2023 19:00		PIONEER DRILLING FLUIDS				OIL BASE		21,270.0		8.55		65			110.0						
pV (cP)		YP (lbf/100ft²)		Vis 3rpm		Vis 6rpm		Filtrate (mL/30min)		HTHP Filtrate (mL/30min)		HTHP Temperature (° F)			HTHP Pressure (psi)						
		10.000		6		7				8.2		250.0			500.0						
Solids (%)		Low Gravity Solids (%)				Sand (%)		MBT (lb/bbl)		Pm (mL/mL)			Pf (mL/mL)								
10.0		8.2																			
Chlorides (mg/L)		Calcium (mg/L)				CaCl (ppm)		Oil Water Ratio		Electric Stab (V)			Lime (lb/bbl)		pH						
32,000		3,200.000				0		72.2/27.8		642.0			2.7								
Gel 10 sec (lbf/100ft²)					Gel 10 min (lbf/100ft²)					Gel 30 min (lbf/100ft²)											
18.000					24.000					27.000											
Comment																					
Mud Checks																					
Time		Mud Company				Type		Depth (ftKB)		Density (lb/gal)		Funnel Viscosity (s/qt)			T Flowline (° F)						
2/17/2023 07:00		PIONEER DRILLING FLUIDS				OIL BASE		19,380.0		8.55		65			100.0						
pV (cP)		YP (lbf/100ft²)		Vis 3rpm		Vis 6rpm		Filtrate (mL/30min)		HTHP Filtrate (mL/30min)		HTHP Temperature (° F)			HTHP Pressure (psi)						
		10.000		6		6				7.8		250.0			500.0						
Solids (%)		Low Gravity Solids (%)				Sand (%)		MBT (lb/bbl)		Pm (mL/mL)			Pf (mL/mL)								
10.0		8.2																			
Chlorides (mg/L)		Calcium (mg/L)				CaCl (ppm)		Oil Water Ratio		Electric Stab (V)			Lime (lb/bbl)		pH						
31,000		3,200.000				0		72.2/27.8		627.0			2.6								
Gel 10 sec (lbf/100ft²)					Gel 10 min (lbf/100ft²)					Gel 30 min (lbf/100ft²)											
17.000					21.000					23.000											
Comment																					
Last BOP Test																					
Date		Test Type		Item Tested				Next Test Date			Com										

2/10/2023 01:15	BOP	BOP'S, 12/20/2022 03:00	3/3/2023 01:15	Test BOP 5000 High /250 Low				
Leak Off and Formation Integrity Tests								
Test Type			Depth (ftKB)		Dens Fluid (lb/gal)			
FORMATION INTEGRITY			1,945.0		12.98			
FORMATION INTEGRITY			6,870.0		9.50			
Casing Pressure Test								
Test Type	Test Subtype	Date	Item Tested			Failed?	Time (min)	P (psi)
CASING	STANDARD	11/8/2022 11:00	SURFACE, 1,936.0ftKB			No	30.00	1,000.0
CASING	STANDARD	2/10/2023 06:00	INTERMEDIATE, 6,883.0ftKB			No	30.00	2,500.0
Kick Offs & Key Depths								
Date		Type	Top Depth (ftKB)		Depth Top (TVD) (ftKB)			
2/11/2023 15:15		KICK OFF	8,979.0		8,947.8			
2/12/2023 06:00		HEEL	9,913.0		9,529.5			
Casing Strings								
Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)	
CONDUCTOR	106.0	106.0	20	H40	78.67			
SURFACE	1,936.0	1,935.6	13 3/8	J55	54.50	BTC	1,311.0	
INTERMEDIATE	6,883.0	6,852.4	9 5/8	L80-IC	40.00	BTC	3,375.0	
Gas Emissions - Flare								
Type		Method	Dur (Min)		Amount	Units	Com	
No Data								
Job Supply Amounts								
Supply Item Des	Type	Unit Label	Received	Consumed	Returned	Note	Cum On Loc	Cum Consumed
DIESEL	MUD	GAL	7523	9000		Mud Diesel (Ticket # 56680)	16,829	43325
DIESEL	FUEL	GAL	0	3885		Rig Fuel	25,373	35414
Mud Additive Amounts								
Des		Type		Units	Rec	Consumed	On Loc	Cum Cons
TRUCKING		MISCELLANEOUS		EA	1	1	0.0	6
DRILLING FLUID TECH		SUPERVISION		EA	1	1	0.0	13
XMP GILSONITE		FILTRATE CONTROL		LB SACK	50	10	75.0	75
DD TONE		ORGANOPHILLIC CLAY		LB SACK	50	40	98.0	190
LIME		ALKALINITY CONTROL		LB SACK	100	70	150.0	391
CALCIUM CHLORIDE		CALCIUM CHLORIDE		LB SACK	224	135	224.0	528
DDF MUL		ALL IN ONE EMULSIFIER		GAL	550	250	1,170.0	1,500
DD LEM		LOW END MODIFIER		GAL	275	275	640.0	1,570
TECH SERVICE SUPPORT		SUPERVISION		EA	350	350	0.0	4,550
DIESEL - FOR MUD		OIL MUD ADDITIVE		GAL	7523	9000	37,688.0	42,400
Pump Operations								
Pump #	Make		Model	Liner Size (in)	Stroke (in)	Vol/Stk (bbl/stk)		P Max (psi)
1	GARDNER-DENVER		PZ-11-1600	5 1/2	11.00	0.081		7,500.0
2	GARDNER-DENVER		PZ-11-1600	5 1/2	11.00	0.081		7,500.0
3	GARDNER-DENVER		PZ-11-1600	5 1/2	11.00	0.081		7,500.0
Pump Checks								
Pump #	Depth (ftKB)		Time	P (psi)	Strokes (spm)	Q Flow (gpm)		Eff (%)
1	21,808.0		2/17/2023 23:30	710.0	40	129		95
1	21,808.0		2/17/2023 23:30	620.0	30	97		95
1	21,808.0		2/17/2023 23:30	820.0	50	161		95
2	21,808.0		2/17/2023 23:30	830.0	50	161		95
2	21,808.0		2/17/2023 23:30	690.0	40	129		95
2	21,808.0		2/17/2023 23:30	590.0	30	97		95
Deviation Surveys								
Date			Description	Job				
11/3/2022 04:30			AS DRILL SURVEY	ODR, 11/3/2022 01:30				
Survey Data - All surveys for 24 hr reporting period								
MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	
19,334.00	91.13	166.34	9,537.84	9,959.93	-9,535.98	2,919.21	1.07	
19,430.00	91.34	166.05	9,535.77	10,055.91	-9,629.19	2,942.11	0.37	
19,525.00	91.19	164.60	9,533.67	10,150.88	-9,721.06	2,966.17	1.53	
19,619.00	90.57	164.63	9,532.23	10,244.84	-9,811.68	2,991.11	0.66	
19,714.00	91.28	165.88	9,530.69	10,339.82	-9,903.54	3,015.28	1.51	
19,808.00	89.99	165.31	9,529.65	10,433.81	-9,994.58	3,038.67	1.50	
19,903.00	91.47	166.83	9,528.44	10,528.80	-10,086.77	3,061.53	2.23	
19,997.00	89.87	165.75	9,527.34	10,622.79	-10,178.08	3,083.81	2.05	
20,092.00	90.14	166.35	9,527.33	10,717.79	-10,270.28	3,106.71	0.69	
20,177.00	89.13	165.92	9,527.87	10,802.78	-10,352.80	3,127.08	1.29	
20,271.00	90.57	166.12	9,528.12	10,896.78	-10,444.01	3,149.79	1.55	
20,366.00	89.74	165.05	9,527.86	10,991.78	-10,536.02	3,173.44	1.43	
20,460.00	89.03	165.91	9,528.87	11,085.77	-10,627.01	3,197.00	1.19	
20,555.00	91.56	165.87	9,528.38	11,180.76	-10,719.14	3,220.16	2.66	
20,649.00	89.10	165.28	9,527.84	11,274.75	-10,810.16	3,243.57	2.69	

20,743.00	89.28	166.59	9,529.17	11,368.74	-10,901.33	3,266.41	1.41
20,837.00	89.68	167.08	9,530.02	11,462.72	-10,992.86	3,287.82	0.67
20,932.00	89.56	166.62	9,530.65	11,557.70	-11,085.37	3,309.43	0.50
21,026.00	90.54	167.28	9,530.57	11,651.69	-11,176.94	3,330.66	1.26
21,121.00	90.85	167.31	9,529.42	11,746.65	-11,269.60	3,351.55	0.33
21,215.00	90.64	166.14	9,528.20	11,840.63	-11,361.08	3,373.13	1.26
21,310.00	90.57	166.10	9,527.19	11,935.62	-11,453.30	3,395.92	0.08
21,405.00	90.33	165.05	9,526.45	12,030.62	-11,545.30	3,419.59	1.13
21,499.00	90.05	164.62	9,526.14	12,124.60	-11,636.03	3,444.18	0.55
21,594.00	90.14	164.75	9,525.98	12,219.58	-11,727.66	3,469.27	0.17
21,688.00	90.11	166.13	9,525.77	12,313.57	-11,818.64	3,492.90	1.47
21,783.00	90.02	166.01	9,525.67	12,408.57	-11,910.84	3,515.77	0.16
21,877.00	90.14	165.33	9,525.54	12,502.57	-12,001.92	3,539.04	0.73
21,971.00	89.80	165.96	9,525.58	12,596.57	-12,092.98	3,562.34	0.76
22,066.00	90.02	165.87	9,525.73	12,691.57	-12,185.12	3,585.46	0.25
22,161.00	90.45	165.79	9,525.34	12,786.57	-12,277.23	3,608.72	0.46
22,255.00	90.94	165.10	9,524.20	12,880.56	-12,368.21	3,632.34	0.90
22,350.00	90.70	166.08	9,522.84	12,975.55	-12,460.21	3,655.98	1.06
22,444.00	90.54	166.12	9,521.83	13,069.54	-12,551.45	3,678.56	0.18

Formations					
Formation Name	Prog Top Override (TVD SS) (ft(elv))	Prog Top MD (ftKB)	Prog Top (TVD) (ftKB)	Final Top MD (ftKB)	Final Top (TVD) (ftKB)
ILP	-6,580.0		9,570.0		
PBHL/TD	-6,562.0		9,552.0		
269_0_DEAN	-6,639.0		9,629.0		
304_0_STRAWN	-8,065.0		11,055.0		

Daily Contacts				
Job Contact	Title	Office	Mobile	Email
RICHARDSON, KEN, AREA DRILLING SUPERINTENDENT	AREA DRILLING SUPERINTENDENT	432-571-2557	432-557-8128	KEN.RICHARDSON@PXD.COM
SPACEK, KYLE, ENGINEER	ENGINEER	432-571-2800	432-438-0187	KYLE.SPACEK@PXD.COM
LUTHER, JACKIE, ENGINEER	ENGINEER	972-969-5626	303-512-3803	JACKIE.LUTHER@PXD.COM
JAY, JON, SUPERINTENDENT	SUPERINTENDENT	432-571-2454	432-234-2702	JON.JAY@PXD.COM
TRANSIER, KENNETH, SUPERINTENDENT	SUPERINTENDENT		318-481-3868	KENNETH.TRANSIER@PXD.COM
SATTERFIELD, JOHN, WELLSITE SUPERVISOR	WELLSITE SUPERVISOR		337-578-5339	JOHN.SATTERFIELD@PXD.COM
HEFNER, KENNETH, WELLSITE SUPERVISOR	WELLSITE SUPERVISOR		432-559-9070	KENNETH.HEFNER@PXD.COM
WIEST, JUSTIN, MUD ENGINEER	MUD ENGINEER		308-249-2818	JUSTIN.WIEST@PXD.COM
RIG-H&P 417, RIG PHONE	RIG PHONE	361-489-3691		DL-HP417@PXD.COM

Personnel Log	
Company	Count
PIONEER NATURAL RESOURCES USA INC	2
PIONEER NATURAL RESOURCES USA INC	1
HELMERICH & PAYNE INTERNATIONAL DRILLING CO	13
BAKER HUGHES OILFIELD OPERATIONS INC	3
MID CONTINENT WELL LOGGING SERVICE INC	3
STALLION SOLIDS CONTROL INC	1

H & P 417	
Accept:	12/20/2022
Release:	
Days Since LTI:	567.00
Days Since RI:	567.00

Daily Drilling Report

PERMIAN ASSET TEAM	
Job:	ODR
Report Date:	02/19/2023
Report #:	19
DFS:	15
AFE #:	9019713
Total AFE + Sup:	\$3,798,607.26
Daily Field Est. (Cost):	\$143,523.33

API/UWI 42-003-48491-0000		Well Profile HORIZONTAL		Open Formation LOWER SPRABERRY SHALE (SPBY L C1)			Field Name SPRABERRY (TREND AREA)			
SSN ID00003259	Property Sub	KB-Grd (ft) 26.00	Orig KB Elevation (ft) 2,990.00		Ground Elevation (ft) 2,964.00		Spud Date 11/3/2022	TD Date 2/19/2023		
Jobs										
Responsible Grp 2			Responsible Grp 3		Job Type	Start Date		End Date	Job Status	
DRL ENG - JACKIE LUTHER			AREA TEAM 2		ODR	11/3/2022 01:30			IN PROGRESS	
Job Dates (ex. Estimated Pad Release, TXRRC Calls)										
Type	Subtype		Date	Note						
MILESTONE	ESTIMATED PAD RELEASE		3/5/2023	Batch Drilling 5th Prod. well on 6 well pad (Updated 2/13/23)plus one C/O and run prod casing.						
Daily Operations										
Footage/Meterage (ft) 2,169.00		Drilling Hours 18.98	% Rotating Time 100.00	End Depth (ftKB) 24,922.0	Target Depth (ftKB) 24,992.0	Daily Field Est Total \$143,523.33		Cum Field Est To Date \$2,783,776.78		
24 HR ROP (ft/hr) 114.3	Circulating Hours	% Sliding Time 0.00	End Depth (TVD) (ftKB) 9,509.3	Target Depth Depth (TVD) (ftKB) 9,552.6	Daily Mud Field Est Total \$15,240.70		Cum Mud Field Est \$154,915.60	Total AFE + Sup \$3,798,607.26		
Daily Goal Description DRILLED FEET			Daily Goal - Last 24 2,000.0		Daily Goal - Next 24 0.0		Goal Comments Goal Met			
Backbuild Yes	Lateral Inclination Toe Flat	Last Casing String INTERMEDIATE, 6,883.0ftKB				Next Casing String PRODUCTION, 24,897.0ftKB				
Avg Connection Gas 324.00		Avg Trip Gas 0.00	Avg Background Gas 283.00		Max Connection Gas 441.00		Max Trip Gas 0.00	Max Drill Gas 424.00		
Operations Summary Drill 8.5" Prod Lateral w/RSS to TD @ 24,922', Circ. K&M.										
Operations Next Report Period Cont. K&M, TOH for 5.5" Prod Csg.										
Operations At Report Time Circulate K&M @ 24,922										
Remarks No Accidents, Incidents or Spills Reported Surface: 100% Complete Intermediate1: 100% Complete Production Vert: 100% Complete Production Curve: 100 % Complete Production Lateral: 100% Complete Savor Sub:18,066' Daily NPT:0 H&P:5 3rd Party:41.0 Pioneer: 0.5										
Time Log										
Start Time	Dur (hr)	End Time	Phase	Operation	Ops Category	Com	Start Depth (ftKB)	End Depth (ftKB)	Prob Hrs	Prob Ref #
06:00	3	09:00	PROD, DRL LAT	DRL	NORMAL	Drill F/22,753' T/23,223' (470' @ 157 fph), WOB:50, GPM:610, SPP:4,600, Diff:700, RPM:90, TQ:25K, with full returns. MW 8.6	22,753.0	23,223.0		
09:00	0.5	09:30	PROD, DRL LAT	RIG_SVC	NORMAL	Rig Service	23,223.0	23,223.0		
09:30	16.75	02:15	PROD, DRL LAT	DRL	NORMAL	Drill 8.5" Prod Lat. w/Baker RSS F/23,223' T/24,922' (1,699' @ 102 fph), WOB:50, GPM:610, SPP:4,600, Diff:700, RPM:80, TQ:28K, with full returns. (Control drill due to rig power)	23,223.0	24,922.0		
02:15	3.75	06:00	PROD, POST DRL	K&M_CLEANUP	NORMAL	Circ K&M clean up cycle of 3 Btms up out of a total of 7 btms up recomended by K&M. GPM: 625, RPM 100 UP/ RPM 100 DN. ***Downlink tool out of center mode prior to TOH***	24,922.0	24,922.0		
Drill Strings										
BHA #6 , PRODUCTION - LATERAL										
Bit Run			Drill Bit			Bit Type		Make		
5 8 1/2, TKC66-Q1, A288932						PDC		REED		
Nozzles (1/32")			Bit Total Fluid Area (nozzles) (in²)		IADC Bit Dull	Hours Drilled By Bit (hr)		Depth Drilled By Bit (ft)		

13/13/13/13/13		0.78		-----		46.58		6,526.00											
BHA Drilling Time (hr)		BHA Depth Drilled (ft)		BHA ROP (ft/hr)		Depth In (ftKB)		Depth Out (ftKB)											
46.58		6,526.00		140.1		18,396.0		24,922.0											
Drill String Components																			
Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)	Wt (lbf)	Cum Wt (1000lbf)	Make											
243	DRILL PIPE	5	4.28	7,710.93	24,922.00	150,363.1	505	RIG											
24	HWDP	5	3.00	719.21	17,211.07	35,960.5	355	RIG											
519	DRILL PIPE	5	4.28	16,363.47	16,491.86	319,087.7	319	RIG											
1	SUB - FILTER	6 3/4	2.25	3.77	128.39		0	GE/BAKER HUGHES											
1	MOTOR - STABILIZER SLEEVE	7	3.00	43.00	124.62		0	GE/BAKER HUGHES											
1	ANTI-STALL TOOL	7 1/8	1.75	26.48	81.62		0	ARSENAL											
1	DRILL COLLAR - PONY	7	3.00	11.91	55.14		0	GE/BAKER HUGHES											
1	STABILIZER	6 3/4	2.75	4.24	43.23		0	GE/BAKER HUGHES											
1	MWD TOOL - NON-RETRIEVABLE	7	4.83	28.36	38.99		0	GE/BAKER HUGHES											
1	RSS TOOL	7	4.33	9.33	10.63		0	GE/BAKER HUGHES											
Mud Motors																			
SN		Bend Angle		Bearing Type		Lobe Config		# Stages											
15060628		0		SEALED		7:8		6.4											
Sensors																			
Sensor Type		Sensor-Bit (ft)				Note													
NEAR BIT INCLINOMETER		7.23																	
GAMMA		13.40																	
Drilling Parameters																			
Start Time	End Time	Start Depth (ftKB)	Int Depth (ft)	Int ROP (ft/hr)	WOB (1000lbf)	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	08:50	22,753.0	470.00	166.1	34	80	358.0	552	4,646.0	164.0	182	182	182	182	24.0	24.0			
09:23	10:05	23,223.0	147.00	210.0	44	90	613.0	614	5,558.0	230.0	176	176	176	176	26.0	26.0			
10:23	19:47	23,370.0	1,073.00	114.1	30	83	297.0	596	5,079.0	132.0	187	187	187	187	22.0	22.0			
19:59	22:11	24,443.0	194.00	88.2	30	72	287.0	591	4,922.0	99.0	196	196	196	196	20.0	20.0			
22:25	02:16	24,637.0	285.00	74.0	28	79	250.0	612	5,134.0	93.0	198	198	198	198	20.0	20.0			
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)
8.60		9.22		177.3		3.1		252.5		496.5		17.1		698.2		435.31		825.97	354.42
Mud Checks																			
Time		Mud Company				Type		Depth (ftKB)		Density (lb/gal)		Funnel Viscosity (s/qt)		T Flowline (° F)					
2/18/2023 19:00		PIONEER DRILLING FLUIDS				OIL BASE		24,370.0		8.60		67		110.0					
pV (cP)	YP (lbf/100ft²)	Vis 3rpm	Vis 6rpm	Filtrate (mL/30min)			HTHP Filtrate (mL/30min)			HTHP Temperature (° F)			HTHP Pressure (psi)						
	10.000	5	6				8.6			250.0			500.0						
Solids (%)		Low Gravity Solids (%)				Sand (%)		MBT (lb/bbl)			Pm (mL/mL)		Pf (mL/mL)						
10.0		8.3																	
Chlorides (mg/L)			Calcium (mg/L)			CaCl (ppm)		Oil Water Ratio		Electric Stab (V)			Lime (lb/bbl)		pH				
30,000			3,200.000			0		72.2/27.8		540.0			3.0						
Gel 10 sec (lbf/100ft²)					Gel 10 min (lbf/100ft²)					Gel 30 min (lbf/100ft²)									
15.000					19.000					22.000									
Comment																			
Mud Checks																			
Time		Mud Company				Type		Depth (ftKB)		Density (lb/gal)		Funnel Viscosity (s/qt)		T Flowline (° F)					
2/18/2023 07:00		PIONEER DRILLING FLUIDS				OIL BASE		22,950.0		8.60		75		110.0					
pV (cP)	YP (lbf/100ft²)	Vis 3rpm	Vis 6rpm	Filtrate (mL/30min)			HTHP Filtrate (mL/30min)			HTHP Temperature (° F)			HTHP Pressure (psi)						
	9.000	5	6				8.8			250.0			500.0						
Solids (%)		Low Gravity Solids (%)				Sand (%)		MBT (lb/bbl)			Pm (mL/mL)		Pf (mL/mL)						
10.0		8.2																	
Chlorides (mg/L)			Calcium (mg/L)			CaCl (ppm)		Oil Water Ratio		Electric Stab (V)			Lime (lb/bbl)		pH				
31,000			3,200.000			0		72.2/27.8		599.0			2.7						
Gel 10 sec (lbf/100ft²)					Gel 10 min (lbf/100ft²)					Gel 30 min (lbf/100ft²)									
17.000					21.000					23.000									
Comment																			
Last BOP Test																			
Date		Test Type		Item Tested				Next Test Date			Com								
2/10/2023 01:15		BOP		BOP'S, 12/20/2022 03:00				3/3/2023 01:15			Test BOP 5000 High /250 Low								
Leak Off and Formation Integrity Tests																			
Test Type						Depth (ftKB)				Dens Fluid (lb/gal)									
FORMATION INTEGRITY						1,945.0				12.98									
FORMATION INTEGRITY						6,870.0				9.50									
Casing Pressure Test																			
Test Type		Test Subtype		Date			Item Tested				Failed?		Time (min)		P (psi)				
CASING		STANDARD		11/8/2022 11:00			SURFACE, 1,936.0ftKB				No		30.00		1,000.0				
CASING		STANDARD		2/10/2023 06:00			INTERMEDIATE, 6,883.0ftKB				No		30.00		2,500.0				
Kick Offs & Key Depths																			
Date				Type			Top Depth (ftKB)				Depth Top (TVD) (ftKB)								

2/11/2023 15:15	KICK OFF	8,979.0	8,947.8
2/12/2023 06:00	HEEL	9,913.0	9,529.5
2/19/2023 02:15	TOE	24,922.0	9,509.3

Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
CONDUCTOR	106.0	106.0	20	H40	78.67		
SURFACE	1,936.0	1,935.6	13 3/8	J55	54.50	BTC	1,311.0
INTERMEDIATE	6,883.0	6,852.4	9 5/8	L80-IC	40.00	BTC	3,375.0

Type	Method	Dur (Min)	Amount	Units	Com
No Data					

Supply Item Des	Type	Unit Label	Received	Consumed	Returned	Note	Cum On Loc	Cum Consumed
WATER	FRESH	BBL	0	0		Water Meter End: 6,765	0	12660.16
DIESEL	FUEL	GAL	7520	3448		Rig Fuel (Ticket #56772)	29,445	38862
DIESEL	MUD	GAL	7222	12000		Mud Diesel (Ticket #56778)	12,051	55325

Des	Type	Units	Rec	Consumed	On Loc	Cum Cons
DRILLING FLUID TECH	SUPERVISION	EA	1	1	0.0	14
PMDHYPDF-A200	SHAKER SCREEN	EA		5	17.0	30
KCL	POTASSIUM CHLORIDE	LB		5	112.0	18
XMP GILSONITE	FILTRATE CONTROL	LB SACK		10	65.0	85
SOLTEX	FILTRATE CONTROL	LB SACK		20	55.0	102
DD TONE	ORGANOPHILLIC CLAY	LB SACK		30	68.0	220
LIME	ALKALINITY CONTROL	LB SACK		55	95.0	446
CALCIUM CHLORIDE	CALCIUM CHLORIDE	LB SACK		89	135.0	617
DDF MUL	ALL IN ONE EMULSIFIER	GAL		275	895.0	1,775
DD LEM	LOW END MODIFIER	GAL		275	365.0	1,845
TECH SERVICE SUPPORT	SUPERVISION	EA	350	350	0.0	4,900
DIESEL - FOR MUD	OIL MUD ADDITIVE	GAL		12000	25,688.0	54,400

Pump #	Make	Model	Liner Size (in)	Stroke (in)	Vol/Stk (bbl/stk)	P Max (psi)
1	GARDNER-DENVER	PZ-11-1600	5 1/2	11.00	0.081	7,500.0
2	GARDNER-DENVER	PZ-11-1600	5 1/2	11.00	0.081	7,500.0
3	GARDNER-DENVER	PZ-11-1600	5 1/2	11.00	0.081	7,500.0

Pump #	Depth (ftKB)	Time	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)
1	24,639.0	2/18/2023 23:30	790.0	50	161	95
1	24,639.0	2/18/2023 23:30	670.0	40	129	95
1	24,639.0	2/18/2023 23:30	580.0	30	97	95
2	24,639.0	2/18/2023 23:30	585.0	30	97	95
2	24,639.0	2/18/2023 23:30	650.0	40	129	95
2	24,639.0	2/18/2023 23:30	780.0	50	161	95

Date	Description	Job
11/3/2022 04:30	AS DRILL SURVEY	ODR, 11/3/2022 01:30

MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
22,823.00	90.67	166.23	9,518.71	13,448.51	-12,919.84	3,767.54	0.52
22,917.00	89.47	165.03	9,518.59	13,542.51	-13,010.90	3,790.86	1.81
23,012.00	90.14	165.63	9,518.92	13,637.50	-13,102.80	3,814.92	0.95
23,106.00	90.14	165.77	9,518.69	13,731.50	-13,193.89	3,838.14	0.15
23,200.00	90.67	165.76	9,518.02	13,825.50	-13,285.00	3,861.25	0.56
23,295.00	90.70	165.89	9,516.89	13,920.49	-13,377.10	3,884.52	0.14
23,389.00	90.70	165.88	9,515.74	14,014.48	-13,468.25	3,907.44	0.01
23,483.00	89.90	165.55	9,515.25	14,108.48	-13,559.35	3,930.63	0.92
23,577.00	90.02	165.44	9,515.31	14,202.48	-13,650.35	3,954.18	0.17
23,672.00	90.02	166.03	9,515.28	14,297.48	-13,742.42	3,977.58	0.62
23,766.00	89.77	166.15	9,515.45	14,391.48	-13,833.66	4,000.18	0.30
23,860.00	90.45	166.70	9,515.27	14,485.47	-13,925.04	4,022.24	0.93
23,954.00	90.45	166.84	9,514.53	14,579.46	-14,016.54	4,043.76	0.15
24,049.00	90.61	166.68	9,513.65	14,674.44	-14,109.01	4,065.51	0.24
24,143.00	90.64	165.66	9,512.63	14,768.43	-14,200.28	4,087.98	1.09
24,237.00	90.20	165.65	9,511.94	14,862.43	-14,291.34	4,111.27	0.47
24,331.00	90.45	164.88	9,511.41	14,956.42	-14,382.25	4,135.18	0.86
24,426.00	90.08	165.65	9,510.97	15,051.41	-14,474.12	4,159.34	0.90
24,520.00	90.14	165.52	9,510.79	15,145.41	-14,565.16	4,182.74	0.15
24,614.00	89.90	165.94	9,510.75	15,239.41	-14,656.26	4,205.91	0.51
24,708.00	90.17	165.64	9,510.70	15,333.41	-14,747.39	4,228.99	0.43
24,803.00	90.42	165.61	9,510.21	15,428.41	-14,839.41	4,252.57	0.27

24,897.00	90.42	165.53	9,509.52	15,522.41	-14,930.44	4,276.00	0.09
Formations							
Formation Name	Prog Top Override (TVD SS) (ft(elv))		Prog Top MD (ftKB)	Prog Top (TVD) (ftKB)	Final Top MD (ftKB)	Final Top (TVD) (ftKB)	
ILP	-6,580.0			9,570.0			
PBHL/TD	-6,562.0			9,552.0			
269_0_DEAN	-6,639.0			9,629.0			
304_0_STRAWN	-8,065.0			11,055.0			
Daily Contacts							
Job Contact			Title	Office	Mobile	Email	
RICHARDSON, KEN, AREA DRILLING SUPERINTENDENT			AREA DRILLING SUPERINTENDENT	432-571-2557	432-557-8128	KEN.RICHARDSON@PXD.COM	
SPACEK, KYLE, ENGINEER			ENGINEER	432-571-2800	432-438-0187	KYLE.SPACEK@PXD.COM	
LUTHER, JACKIE, ENGINEER			ENGINEER	972-969-5626	303-512-3803	JACKIE.LUTHER@PXD.COM	
JAY, JON, SUPERINTENDENT			SUPERINTENDENT	432-571-2454	432-234-2702	JON.JAY@PXD.COM	
TRANSIER, KENNETH, SUPERINTENDENT			SUPERINTENDENT		318-481-3868	KENNETH.TRANSIER@PXD.COM	
SATTERFIELD, JOHN, WELLSITE SUPERVISOR			WELLSITE SUPERVISOR		337-578-5339	JOHN.SATTERFIELD@PXD.COM	
HEFNER, KENNETH, WELLSITE SUPERVISOR			WELLSITE SUPERVISOR		432-559-9070	KENNETH.HEFNER@PXD.COM	
WIEST, JUSTIN, MUD ENGINEER			MUD ENGINEER		308-249-2818	JUSTIN.WIEST@PXD.COM	
RIG-H&P 417, RIG PHONE			RIG PHONE	361-489-3691		DL-HP417@PXD.COM	
Personnel Log							
Company							Count
PIONEER NATURAL RESOURCES USA INC							2
PIONEER NATURAL RESOURCES USA INC							1
HELMERICH & PAYNE INTERNATIONAL DRILLING CO							13
BAKER HUGHES OILFIELD OPERATIONS INC							3
MID CONTINENT WELL LOGGING SERVICE INC							3
STALLION SOLIDS CONTROL INC							1

H & P 417

Accept:

12/20/2022

Release:

Days Since LTI:

568.00

Days Since RI:

568.00

PERMIAN ASSET TEAM

Job:

ODR

Report Date:

02/20/2023

Report #:

20

DFS:

16

AFE #:

9019713

Total AFE + Sup:

\$3,798,607.26

Daily Field Est. (Cost):

\$58,888.35

Daily Drilling Report

API/UWI 42-003-48491-0000		Well Profile HORIZONTAL		Open Formation LOWER SPRABERRY SHALE (SPBY L C1)			Field Name SPRABERRY (TREND AREA)								
SSN ID00003259		Property Sub		KB-Grd (ft) 26.00		Orig KB Elevation (ft) 2,990.00		Ground Elevation (ft) 2,964.00		Spud Date 11/3/2022		TD Date 2/19/2023			
Jobs															
Responsible Grp 2				Responsible Grp 3			Job Type		Start Date			End Date		Job Status	
DRL ENG - JACKIE LUTHER				AREA TEAM 2			ODR		11/3/2022 01:30					IN PROGRESS	
Job Dates (ex. Estimated Pad Release, TXRRC Calls)															
Type		Subtype			Date		Note								
MILESTONE		ESTIMATED PAD RELEASE			3/10/2023		Batch Drilling 5th Prod. well on 6 well pad (Updated 2/20/23)plus one C/O and run prod casing.								
TXRRC CALL		CEMENT PROD			2/19/2023 18:30		Christina Operator #7								
Daily Operations															
Footage/Meterage (ft) 0.00			Drilling Hours		% Rotating Time		End Depth (ftKB) 24,922.0		Target Depth (ftKB) 24,992.0		Daily Field Est Total \$58,888.35		Cum Field Est To Date \$2,842,665.13		
24 HR ROP (ft/hr)		Circulating Hours		% Sliding Time		End Depth (TVD) (ftKB) 9,509.3		Target Depth Depth (TVD) (ftKB) 9,552.6		Daily Mud Field Est Total \$12,758.05		Cum Mud Field Est \$167,673.65		Total AFE + Sup \$3,798,607.26	
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, 6,883.0ftKB					Next Casing String PRODUCTION, 24,897.0ftKB						
Avg Connection Gas 285.00			Avg Trip Gas 133.00		Avg Background Gas 272.00			Max Connection Gas 294.00			Max Trip Gas 171.00		Max Drill Gas 297.00		
Operations Summary Circulate K&M, TOH T/6,870", pull rotating head & install trip nipple, TOH T/BHA, laydown BHA, pull wear bushing, change saver sub, slip & cut.															
Operations Next Report Period Rig up & Run 5.5" Prod Csg.															
Operations At Report Time Slip & Cut prior to running 5.5" Prod Csg.															
Remarks No Accidents, Incidents or Spills Reported Surface: 100% Complete Intermediate1: 100% Complete Production Vert: 100% Complete Production Curve: 100 % Complete Production Lateral: 100% Complete Savor Sub:0' Daily NPT:0 H&P:5 3rd Party:41.0 Pioneer: 0.5															
Time Log															
Start Time		Dur (hr)	End Time	Phase	Operation	Ops Category	Com			Start Depth (ftKB)		End Depth (ftKB)		Prob Hrs	Prob Ref #
06:00		5	11:00	PROD, POST DRL	K&M_CLEANUP	NORMAL	Circ K&M clean up cycle of 7 Btms up out of a Total of 7 Btms up Recomendded by K&M. GPM 620 RPM 50 UP/ RPM 90 DN. **Downlink tool out of center mode prior to TOH***			24,922.0		24,922.0			
11:00		0.25	11:15	PROD, POST DRL	FLOW_CHK	NORMAL	Flow check, well static.			24,922.0		24,922.0			
11:15		1	12:15	PROD, POST DRL	TOOH_ELEV	NORMAL	TOOH 10 stds wet F/24,922T/23,834' hole taking proper fill. PU 350K			24,922.0		24,922.0			
12:15		0.25	12:30	PROD, POST DRL	FLOW_CHK	NORMAL	Flow check, well static, pump slug.			24,922.0		24,922.0			
12:30		10	22:30	PROD, POST DRL	TOOH_ELEV	NORMAL	TOOH for 5.5" Prod Csg F/23,834' T/6,870', hole taking proper fill. (Tight tooljoint connection using rig tongs) Changed breaks LD single			24,922.0		24,922.0			
22:30		0.5	23:00	PROD, POST DRL	HDL_ROT HD	NORMAL	Pull rotating head and install trip nipple, flow check at shoe well static.			24,922.0		24,922.0			
23:00		3	02:00	PROD, POST	TOOH_ELEV	NORMAL	TOH F/6,870' T/BHA, hole taking correct fill. (Tight			24,922.0		24,922.0			

			DRL			tooljoint connection using rig tongs				
02:00	0.25	02:15	PROD, POST DRL	SFTY	NORMAL	PJSM with rig crew & Baker directional on L/D BHA.	24,922.0	24,922.0		
02:15	1	03:15	PROD, POST DRL	LD_DIR	NORMAL	Lay down all directional BHA.	24,922.0	24,922.0		
03:15	0.75	04:00	PROD, POST DRL	WRBSH	NORMAL	Pull Wear Bushing, clean & prep rig floor.	24,922.0	24,922.0		
04:00	1	05:00	PROD, POST DRL	RIG_RPR	NORMAL	Change saver sub.	24,922.0	24,922.0	1.00	7
05:00	1	06:00	PROD, POST DRL	SLIP_CUT	NORMAL	Slip & cut drill line.	24,922.0	24,922.0		

Interval Problems										
RIG, 24,922.0ftKB, 2/20/2023 04:00										
Ref #	Dur (hr)	Exclude From Problem Time Calcs?	SubType	Problem Description	Est Cost OR (Cost)	Accountable Party	Comment			
7	1.00	No	ROTARY SYSTEM	SAVER SUB		HELMERICH & PAYNE INTERNATIONAL DRILLING CO	Change saver sub per PNR footage @ 18,066'.			

Drill Strings										
BHA #6 , PRODUCTION - LATERAL										
Bit Run			Drill Bit			Bit Type		Make		
5			8 1/2, TKC66-Q1, A288932			PDC		REED		
Nozzles (1/32")			Bit Total Fluid Area (nozzles) (in²)		IADC Bit Dull	Hours Drilled By Bit (hr)		Depth Drilled By Bit (ft)		
13/13/13/13/13			0.78		1-1-WT-A-X-0-NO-TD	46.58		6,526.00		
BHA Drilling Time (hr)			BHA Depth Drilled (ft)		BHA ROP (ft/hr)	Depth In (ftKB)		Depth Out (ftKB)		
46.58			6,526.00		140.1	18,396.0		24,922.0		

Drill String Components										
Jts	Item Des			OD (in)	ID (in)	Len (ft)	Cum Len (ft)	Wt (lbf)	Cum Wt (1000lbf)	Make
243	DRILL PIPE			5	4.28	7,710.93	24,922.00	150,363.1	505	RIG
24	HWDP			5	3.00	719.21	17,211.07	35,960.5	355	RIG
519	DRILL PIPE			5	4.28	16,363.47	16,491.86	319,087.7	319	RIG
1	SUB - FILTER			6 3/4	2.25	3.77	128.39		0	GE/BAKER HUGHES
1	MOTOR - STABILIZER SLEEVE			7	3.00	43.00	124.62		0	GE/BAKER HUGHES
1	ANTI-STALL TOOL			7 1/8	1.75	26.48	81.62		0	ARSENAL
1	DRILL COLLAR - PONY			7	3.00	11.91	55.14		0	GE/BAKER HUGHES
1	STABILIZER			6 3/4	2.75	4.24	43.23		0	GE/BAKER HUGHES
1	MWD TOOL - NON-RETRIEVABLE			7	4.83	28.36	38.99		0	GE/BAKER HUGHES
1	RSS TOOL			7	4.33	9.33	10.63		0	GE/BAKER HUGHES

Mud Motors										
SN		Bend Angle		Bearing Type		Lobe Config		# Stages	Lwr Defin Type	Bit To Bend
15060628		0		SEALED		7:8		6.4		0

Sensors										
Sensor Type			Sensor-Bit (ft)			Note				
NEAR BIT INCLINOMETER			7.23							
GAMMA			13.40							

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		Mud Company			Type	Depth (ftKB)		Density (lb/gal)	Funnel Viscosity (s/qt)		T Flowline (° F)
2/19/2023 19:00		PIONEER DRILLING FLUIDS			OIL BASE	24,922.0		8.80	62		80.0
pV (cP)	YP (lbf/100ft²)	Vis 3rpm	Vis 6rpm	Filtrate (mL/30min)		HTHP Filtrate (mL/30min)		HTHP Temperature (° F)		HTHP Pressure (psi)	
	8.000	5	5			9.0		250.0		500.0	
Solids (%)		Low Gravity Solids (%)			Sand (%)		MBT (lb/bbl)		Pm (mL/mL)		Pf (mL/mL)
10.0		8.3									
Chlorides (mg/L)		Calcium (mg/L)		CaCl (ppm)		Oil Water Ratio		Electric Stab (V)		Lime (lb/bbl)	pH
30,000		3,200.000		0		72.2/27.8		527.0		2.6	
Gel 10 sec (lbf/100ft²)				Gel 10 min (lbf/100ft²)				Gel 30 min (lbf/100ft²)			
14.000				17.000				19.000			

Mud Checks												
Time		Mud Company			Type	Depth (ftKB)		Density (lb/gal)		Funnel Viscosity (s/qt)		T Flowline (° F)
2/19/2023 07:00		PIONEER DRILLING FLUIDS			OIL BASE	24,922.0		8.70		63		110.0
pV (cP)	YP (lbf/100ft²)	Vis 3rpm	Vis 6rpm	Filtrate (mL/30min)		HTHP Filtrate (mL/30min)		HTHP Temperature (° F)		HTHP Pressure (psi)		
	9.000	5	6			8.8		250.0		500.0		
Solids (%)		Low Gravity Solids (%)			Sand (%)		MBT (lb/bbl)		Pm (mL/mL)		Pf (mL/mL)	
10.0		8.3										
Chlorides (mg/L)		Calcium (mg/L)		CaCl (ppm)		Oil Water Ratio		Electric Stab (V)		Lime (lb/bbl)	pH	
30,000		3,200.000		0		72.2/27.8		536.0		2.7		
Gel 10 sec (lbf/100ft²)				Gel 10 min (lbf/100ft²)				Gel 30 min (lbf/100ft²)				
15.000				18.000				21.000				
Comment												

CCI - NO PSI

Last BOP Test								
Date	Test Type	Item Tested		Next Test Date		Com		
2/10/2023 01:15	BOP	BOP'S, 12/20/2022 03:00		3/3/2023 01:15		Test BOP 5000 High /250 Low		
Leak Off and Formation Integrity Tests								
Test Type			Depth (ftKB)		Dens Fluid (lb/gal)			
FORMATION INTEGRITY			1,945.0		12.98			
FORMATION INTEGRITY			6,870.0		9.50			
Casing Pressure Test								
Test Type	Test Subtype	Date	Item Tested		Failed?	Time (min)	P (psi)	
CASING	STANDARD	11/8/2022 11:00	SURFACE, 1,936.0ftKB		No	30.00	1,000.0	
CASING	STANDARD	2/10/2023 06:00	INTERMEDIATE, 6,883.0ftKB		No	30.00	2,500.0	
Kick Offs & Key Depths								
Date		Type	Top Depth (ftKB)		Depth Top (TVD) (ftKB)			
2/11/2023 15:15		KICK OFF	8,979.0		8,947.8			
2/12/2023 06:00		HEEL	9,913.0		9,529.5			
2/19/2023 02:15		TOE	24,922.0		9,509.3			
Casing Strings								
Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)		OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
CONDUCTOR	106.0	106.0		20	H40	78.67		
SURFACE	1,936.0	1,935.6		13 3/8	J55	54.50	BTC	1,311.0
INTERMEDIATE	6,883.0	6,852.4		9 5/8	L80-IC	40.00	BTC	3,375.0
Gas Emissions - Flare								
Type	Method		Dur (Min)		Amount	Units	Com	
No Data								
Job Supply Amounts								
Supply Item Des	Type	Unit Label	Received	Consumed	Returned	Note	Cum On Loc	Cum Consumed
DIESEL	MUD	GAL	0	4500		Mud Diesel	7,551	59825
DIESEL	FUEL	GAL	0	3200		Rig Fuel	26,245	42062
Mud Additive Amounts								
Des		Type		Units	Rec	Consumed	On Loc	Cum Cons
DRILLING FLUID TECH		SUPERVISION		EA	1	1	0.0	15
TRUCKING		MISCELLANEOUS		EA	1	1	0.0	7
XMP GILSONITE		FILTRATE CONTROL		LB SACK		5	60.0	90
DD TONE		ORGANOPHILLIC CLAY		LB SACK		15	53.0	235
BULK BARITE - BARIUM SULFATE		WEIGHTING MATERIAL		TON	19.58	17	36.11	66
LIME		ALKALINITY CONTROL		LB SACK		20	75.0	466
DD WET		WETTING AGENT		GAL		50	550.0	425
DD LEM		LOW END MODIFIER		GAL		125	240.0	1,970
DDF MUL		ALL IN ONE EMULSIFIER		GAL		150	745.0	1,925
TECH SERVICE SUPPORT		SUPERVISION		EA	350	350	0.0	5,250
DIESEL - FOR MUD		OIL MUD ADDITIVE		GAL	7222	4500	28,410.0	58,900
Pump Operations								
Pump #	Make	Model	Liner Size (in)	Stroke (in)	Vol/Stk (bbl/stk)		P Max (psi)	
1	GARDNER-DENVER	PZ-11-1600	5 1/2	11.00	0.081		7,500.0	
2	GARDNER-DENVER	PZ-11-1600	5 1/2	11.00	0.081		7,500.0	
3	GARDNER-DENVER	PZ-11-1600	5 1/2	11.00	0.081		7,500.0	
Pump Checks								
Pump #	Depth (ftKB)	Time	P (psi)	Strokes (spm)	Q Flow (gpm)		Eff (%)	
No Data								
Deviation Surveys								
Date		Description		Job				
11/3/2022 04:30		AS DRILL SURVEY		ODR, 11/3/2022 01:30				
Formations								
Formation Name	Prog Top Override (TVD SS) (ft(elv))		Prog Top MD (ftKB)	Prog Top (TVD) (ftKB)	Final Top MD (ftKB)		Final Top (TVD) (ftKB)	
ILP	-6,580.0			9,570.0				
PBHL/TD	-6,562.0			9,552.0				
269_0_DEAN	-6,639.0			9,629.0				
304_0_STRAWN	-8,065.0			11,055.0				
Daily Contacts								
Job Contact			Title	Office	Mobile	Email		
RICHARDSON, KEN, AREA DRILLING SUPERINTENDENT			AREA DRILLING SUPERINTENDENT	432-571-2557	432-557-8128	KEN.RICHARDSON@PXD.COM		
SPACEK, KYLE, ENGINEER			ENGINEER	432-571-2800	432-438-0187	KYLE.SPACEK@PXD.COM		
LUTHER, JACKIE, ENGINEER			ENGINEER	972-969-5626	303-512-3803	JACKIE.LUTHER@PXD.COM		
JAY, JON, SUPERINTENDENT			SUPERINTENDENT	432-571-2454	432-234-2702	JON.JAY@PXD.COM		
TRANSIER, KENNETH, SUPERINTENDENT			SUPERINTENDENT		318-481-3868	KENNETH.TRANSIER@PXD.COM		
SATTERFIELD, JOHN, WELLSITE SUPERVISOR			WELLSITE SUPERVISOR		337-578-5339	JOHN.SATTERFIELD@PXD.COM		
HEFNER, KENNETH, WELLSITE SUPERVISOR			WELLSITE SUPERVISOR		432-559-9070	KENNETH.HEFNER@PXD.COM		
WIEST, JUSTIN, MUD ENGINEER			MUD ENGINEER		308-249-2818	JUSTIN.WIEST@PXD.COM		
RIG-H&P 417, RIG PHONE			RIG PHONE	361-489-3691		DL-HP417@PXD.COM		

H & P 417	
Accept:	12/20/2022
Release:	
Days Since LTI:	569.00
Days Since RI:	569.00

PERMIAN ASSET TEAM	
Job:	ODR
Report Date:	02/21/2023
Report #:	21
DFS:	17
AFE #:	9019713
Total AFE + Sup:	\$3,798,607.26
Daily Field Est. (Cost):	\$876,629.44

Daily Drilling Report

API/UWI 42-003-48491-0000			Well Profile HORIZONTAL		Open Formation LOWER SPRABERRY SHALE (SPBY L C1)			Field Name SPRABERRY (TREND AREA)										
SSN ID00003259		Property Sub		KB-Grd (ft) 26.00		Orig KB Elevation (ft) 2,990.00		Ground Elevation (ft) 2,964.00		Spud Date 11/3/2022		TD Date 2/19/2023						
Jobs																		
Responsible Grp 2				Responsible Grp 3			Job Type		Start Date		End Date		Job Status					
DRL ENG - JACKIE LUTHER				AREA TEAM 2			ODR		11/3/2022 01:30				IN PROGRESS					
Job Dates (ex. Estimated Pad Release, TXRRC Calls)																		
Type		Subtype			Date		Note											
MILESTONE		ESTIMATED PAD RELEASE			3/10/2023		Batch Drilling 5th Prod. well on 6 well pad (Updated 2/20/23)plus one C/O and run prod casing.											
Daily Operations																		
Footage/Meterage (ft) 0.00			Drilling Hours		% Rotating Time		End Depth (ftKB) 24,922.0		Target Depth (ftKB) 24,992.0		Daily Field Est Total \$876,629.44		Cum Field Est To Date \$3,793,675.47					
24 HR ROP (ft/hr)		Circulating Hours		% Sliding Time		End Depth (TVD) (ftKB) 9,509.3		Target Depth Depth (TVD) (ftKB) 9,552.6		Daily Mud Field Est Total \$1,470.00		Cum Mud Field Est \$169,143.65		Total AFE + Sup \$3,798,607.26				
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, 6,883.0ftKB					Next Casing String PRODUCTION, 24,897.0ftKB									
Avg Connection Gas 0.00			Avg Trip Gas 110.00		Avg Background Gas 0.00			Max Connection Gas 0.00		Max Trip Gas 135.00		Max Drill Gas 0.00						
Operations Summary Rig up casing tools, run 5.5" production casing T/21,061'.																		
Operations Next Report Period Run 5.5" Prod Csg & land @ 24,897', Burst air lock, Circ, Cmt Csg, Back out landing joint, set packoff & BPV, Install TA cap, Release Rig to University 7-20E 5H.																		
Operations At Report Time Running 5.5" Production Casing @ 21,061'.																		
Remarks No Accidents, Incidents or Spills Reported Surface: 100% Complete Intermediate1: 100% Complete Production Vert: 100% Complete Production Curve: 100 % Complete Production Lateral: 100% Complete Savor Sub:0' Daily NPT:0 H&P:5 3rd Party:41.0 Pioneer: 0.5																		
Time Log																		
Start Time		Dur (hr)	End Time	Phase	Operation	Ops Category	Com			Start Depth (ftKB)		End Depth (ftKB)		Prob Hrs	Prob Ref #			
06:00		0.25	06:15	PROD, POST DRL	SFTY	NORMAL	PJSM with H&P & Casing Crews.			24,922.0		24,922.0						
06:15		1	07:15	PROD, CASE & CMT	RU_CSG	NORMAL	Rig Up Casing Crew.			24,922.0		24,922.0						
07:15		0.25	07:30	PROD, CASE & CMT	SFTY	NORMAL	PJSM on running 5.5" production casing			24,922.0		24,922.0						
07:30		0.25	07:45	PROD, CASE & CMT	RU_CSG	NORMAL	P/U Joint of casing perform dump test, L/D Joint.			24,922.0		24,922.0						
07:45		0.25	08:00	PROD, CASE & CMT	MU_SHOE_TRK	NORMAL	Pick Up Wet Shoe Joint & Pump Through Float collar			24,922.0		24,922.0						
08:00		22	06:00	PROD, CASE & CMT	CSG_W/O ROTATION	NORMAL	Run 5.5" 20# P-110,-IC, W441 Casing F/45' T/21,061' hole giving proper displacment.			24,922.0		24,922.0						
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		Mud Company				Type		Depth (ftKB)		Density (lb/gal)		Funnel Viscosity (s/qt)			T Flowline (° F)			

2/20/2023 19:00				PIONEER DRILLING FLUIDS				OIL BASE		24,922.0		8.70		64		75.0			
pV (cP)		YP (lb/100ft²)		Vis 3rpm		Vis 6rpm		Filtrate (mL/30min)		HTHP Filtrate (mL/30min)			HTHP Temperature (° F)			HTHP Pressure (psi)			
		8.000		5		5				9.0			250.0			500.0			
Solids (%)			Low Gravity Solids (%)						Sand (%)		MBT (lb/bbl)			Pm (mL/mL)			Pf (mL/mL)		
10.0			8.3																
Chlorides (mg/L)			Calcium (mg/L)			CaCl (ppm)			Oil Water Ratio			Electric Stab (V)			Lime (lb/bbl)		pH		
30,000			3,200.000			0			72.2/27.8			521.0			2.6				
Gel 10 sec (lb/100ft²)						Gel 10 min (lb/100ft²)						Gel 30 min (lb/100ft²)							
14.000						17.000						19.000							
Comment																			
CCI - NO PSI																			
Mud Checks																			
Time		Mud Company						Type		Depth (ftKB)		Density (lb/gal)		Funnel Viscosity (s/qt)		T Flowline (° F)			
2/20/2023 07:00		PIONEER DRILLING FLUIDS						OIL BASE		24,922.0		8.80		65		75.0			
pV (cP)		YP (lb/100ft²)		Vis 3rpm		Vis 6rpm		Filtrate (mL/30min)		HTHP Filtrate (mL/30min)			HTHP Temperature (° F)			HTHP Pressure (psi)			
		8.000		5		5				9.4			250.0			500.0			
Solids (%)			Low Gravity Solids (%)						Sand (%)		MBT (lb/bbl)			Pm (mL/mL)			Pf (mL/mL)		
10.0			8.3																
Chlorides (mg/L)			Calcium (mg/L)			CaCl (ppm)			Oil Water Ratio			Electric Stab (V)			Lime (lb/bbl)		pH		
30,000			3,200.000			0			72.2/27.8			534.0			2.6				
Gel 10 sec (lb/100ft²)						Gel 10 min (lb/100ft²)						Gel 30 min (lb/100ft²)							
14.000						17.000						19.000							
Comment																			
CCI - NO PSI																			
Last BOP Test																			
Date		Test Type		Item Tested				Next Test Date				Com							
2/10/2023 01:15		BOP		BOP'S, 12/20/2022 03:00				3/3/2023 01:15				Test BOP 5000 High /250 Low							
Leak Off and Formation Integrity Tests																			
Test Type								Depth (ftKB)				Dens Fluid (lb/gal)							
FORMATION INTEGRITY								1,945.0				12.98							
FORMATION INTEGRITY								6,870.0				9.50							
Casing Pressure Test																			
Test Type		Test Subtype		Date		Item Tested				Failed?		Time (min)		P (psi)					
CASING		STANDARD		11/8/2022 11:00		SURFACE, 1,936.0ftKB				No		30.00		1,000.0					
CASING		STANDARD		2/10/2023 06:00		INTERMEDIATE, 6,883.0ftKB				No		30.00		2,500.0					
Kick Offs & Key Depths																			
Date				Type		Top Depth (ftKB)				Depth Top (TVD) (ftKB)									
2/11/2023 15:15				KICK OFF		8,979.0				8,947.8									
2/12/2023 06:00				HEEL		9,913.0				9,529.5									
2/19/2023 02:15				TOE		24,922.0				9,509.3									
Casing Strings																			
Description		Set Depth (ftKB)		Set Depth (TVD) (ftKB)		OD (in)		Grade		Wt/Len (lb/ft)		Top Thread		P LeakOff (psi)					
CONDUCTOR		106.0		106.0		20		H40		78.67									
SURFACE		1,936.0		1,935.6		13 3/8		J55		54.50		BTC		1,311.0					
INTERMEDIATE		6,883.0		6,852.4		9 5/8		L80-IC		40.00		BTC		3,375.0					
PRODUCTION		24,897.0		9,552.7		5 1/2		P110-IC		20.00		WEDGE 441							
Gas Emissions - Flare																			
Type			Method			Dur (Min)			Amount			Units			Com				
No Data																			
Job Supply Amounts																			
Supply Item Des		Type		Unit Label		Received		Consumed		Returned		Note		Cum On Loc		Cum Consumed			
DIESEL		FUEL		GAL		0		519				Rig Fuel		25,978		42329			
Mud Additive Amounts																			
Des						Type		Units		Rec		Consumed		On Loc		Cum Cons			
DRILLING FLUID TECH						SUPERVISION		EA		1		1		0.0		16			
TECH SERVICE SUPPORT						SUPERVISION		EA		350		350		0.0		5,600			
Pump Operations																			
Pump #		Make			Model		Liner Size (in)		Stroke (in)		Vol/Stk (bbl/stk)			P Max (psi)					
1		GARDNER-DENVER			PZ-11-1600		5 1/2		11.00		0.081			7,500.0					
2		GARDNER-DENVER			PZ-11-1600		5 1/2		11.00		0.081			7,500.0					
3		GARDNER-DENVER			PZ-11-1600		5 1/2		11.00		0.081			7,500.0					
Pump Checks																			
Pump #		Depth (ftKB)			Time		P (psi)		Strokes (spm)			Q Flow (gpm)			Eff (%)				
No Data																			
Deviation Surveys																			
Date				Description						Job									
11/3/2022 04:30				AS DRILL SURVEY						ODR, 11/3/2022 01:30									
Formations																			
Formation Name		Prog Top Override (TVD SS) (ft(elv))				Prog Top MD (ftKB)		Prog Top (TVD) (ftKB)		Final Top MD (ftKB)			Final Top (TVD) (ftKB)						
ILP		-6,580.0						9,570.0											
PBHL/TD		-6,562.0						9,552.0											
269_0_DEAN		-6,639.0						9,629.0											

304_0_STRAWN	-8,065.0		11,055.0	
Daily Contacts				
Job Contact	Title	Office	Mobile	Email
RICHARDSON, KEN, AREA DRILLING SUPERINTENDENT	AREA DRILLING SUPERINTENDENT	432-571-2557	432-557-8128	KEN.RICHARDSON@PXD.COM
SPACEK, KYLE, ENGINEER	ENGINEER	432-571-2800	432-438-0187	KYLE.SPACEK@PXD.COM
LUTHER, JACKIE, ENGINEER	ENGINEER	972-969-5626	303-512-3803	JACKIE.LUTHER@PXD.COM
JAY, JON, SUPERINTENDENT	SUPERINTENDENT	432-571-2454	432-234-2702	JON.JAY@PXD.COM
TRANSIER, KENNETH, SUPERINTENDENT	SUPERINTENDENT		318-481-3868	KENNETH.TRANSIER@PXD.COM
SATTERFIELD, JOHN, WELLSITE SUPERVISOR	WELLSITE SUPERVISOR		337-578-5339	JOHN.SATTERFIELD@PXD.COM
HEFNER, KENNETH, WELLSITE SUPERVISOR	WELLSITE SUPERVISOR		432-559-9070	KENNETH.HEFNER@PXD.COM
WIEST, JUSTIN, MUD ENGINEER	MUD ENGINEER		308-249-2818	JUSTIN.WIEST@PXD.COM
RIG-H&P 417, RIG PHONE	RIG PHONE	361-489-3691		DL-HP417@PXD.COM
Personnel Log				
Company				Count
PIONEER NATURAL RESOURCES USA INC				2
PIONEER NATURAL RESOURCES USA INC				1
HELMERICH & PAYNE INTERNATIONAL DRILLING CO				14
BAKER HUGHES OILFIELD OPERATIONS INC				3
MID CONTINENT WELL LOGGING SERVICE INC				3
STALLION SOLIDS CONTROL INC				1

H & P 417	
Accept:	12/20/2022
Release:	2/22/2023
Days Since LTI:	570.00
Days Since RI:	570.00

Daily Drilling Report

PERMIAN ASSET TEAM	
Job:	ODR
Report Date:	02/22/2023
Report #:	22
DFS:	18
AFE #:	9019713
Total AFE + Sup:	\$3,798,607.26
Daily Field Est. (Cost):	\$154,851.88

API/UWI 42-003-48491-0000			Well Profile HORIZONTAL		Open Formation LOWER SPRABERRY SHALE (SPBY L C1)			Field Name SPRABERRY (TREND AREA)							
SSN ID00003259		Property Sub		KB-Grd (ft) 26.00		Orig KB Elevation (ft) 2,990.00		Ground Elevation (ft) 2,964.00		Spud Date 11/3/2022		TD Date 2/19/2023			
Jobs															
Responsible Grp 2				Responsible Grp 3			Job Type		Start Date		End Date		Job Status		
DRL ENG - JACKIE LUTHER				AREA TEAM 2			ODR		11/3/2022 01:30		2/22/2023 06:00		COMPLETE		
Job Dates (ex. Estimated Pad Release, TXRRC Calls)															
Type		Subtype			Date		Note								
MILESTONE		ESTIMATED PAD RELEASE			3/10/2023		Batch Drilling 5th Prod. well on 6 well pad (Updated 2/20/23)plus one C/O and run prod casing.								
Daily Operations															
Footage/Meterage (ft) 0.00			Drilling Hours		% Rotating Time		End Depth (ftKB) 24,922.0		Target Depth (ftKB) 24,992.0		Daily Field Est Total \$154,851.88		Cum Field Est To Date \$3,948,527.35		
24 HR ROP (ft/hr)		Circulating Hours		% Sliding Time		End Depth (TVD) (ftKB) 9,509.4		Target Depth Depth (TVD) (ftKB) 9,552.6		Daily Mud Field Est Total \$5,731.03		Cum Mud Field Est \$174,874.68		Total AFE + Sup \$3,798,607.26	
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, 24,897.0ftKB					Next Casing String PRODUCTION, 24,897.0ftKB						
Avg Connection Gas 0.00			Avg Trip Gas 127.00		Avg Background Gas 0.00			Max Connection Gas 0.00		Max Trip Gas 399.00		Max Drill Gas 0.00			
Operations Summary Run 5.5" Prod Csg & land @ 24,897', Burst air lock, Circ, Cmt Csg, Back out landing joint, set packoff & BPV, Install TA cap, Release Rig to University 7-20E 5H.															
Operations Next Report Period Release Rig to University 7-20E 5H.															
Operations At Report Time Release Rig to University 7-20E 5H.															
Remarks No Accidents, Incidents or Spills Reported Surface: 100% Complete Intermediate1: 100% Complete Production Vert: 100% Complete Production Curve: 100 % Complete Production Lateral: 100% Complete Savor Sub:0' Daily NPT:0.5 H&P:5 3rd Party:41.5 Pioneer: 0.5															
Time Log															
Start Time	Dur (hr)	End Time	Phase	Operation	Ops Category	Com			Start Depth (ftKB)	End Depth (ftKB)	Prob Hrs	Prob Ref #			
06:00	2.5	08:30	PROD, CASE & CMT	CSG_W/O ROTATION	NORMAL	Run 5.5" 20# P-110,-IC, W441 Casing F/45' T/21,777 hole giving proper displacment.			24,922.0	24,922.0					
08:30	0.5	09:00	PROD, CASE & CMT	3RD_PTY	NORMAL	C/O CRT (TCI)			24,922.0	24,922.0	0.50	8			
09:00	7.5	16:30	PROD, CASE & CMT	CSG_W/ROTATION	NORMAL	Rotate 5.5" 20# P-110,-IC, W441 Casing F/21777' T/24,857' hole giving proper displacment.			24,922.0	24,922.0					
16:30	0.5	17:00	PROD, CASE & CMT	CSG_W/ROTATION	NORMAL	M/U Hanger and Land csg at 24897' W/140K			24,922.0	24,922.0					
17:00	0.5	17:30	PROD, CASE & CMT	RD_CSG	NORMAL	RD CRT and Casing equipment			24,922.0	24,922.0					
17:30	0.5	18:00	PROD, CASE & CMT	RU_CMT	NORMAL	RU cement equipment			24,922.0	24,922.0					
18:00	3.5	21:30	PROD, CASE & CMT	CIRC	NORMAL	Rupture Airlock @ 2,215psi, Burp Csg Circulate STS 8 bpm, 20,925 stks with full returns.			24,922.0	24,922.0					
21:30	0.5	22:00	PROD, CASE & CMT	SFTY	NORMAL	PJSM with H&P & American Cementing, swap lines.			24,922.0	24,922.0					
22:00	4.5	02:30	PROD, CASE &	CMT	NORMAL	Cementing 5-1/2" casing as follows.40 bbl of 9.5			24,922.0	24,922.0					

			CMT			ppg spacer, 239 bbl (262 sacks) of 9.5 ppg lead, 800 bbl (2,724 sacks) of 12.5 ppg tail, Drop 1K plug, displace with 5 bbls of retarded water, drop3 k top plug and pump 35 bbl retarder water, Total displacement 552 bbls. FCP @ 1,825', Ruptured Btm Plug @ 2,550 psi Pump 5bbls Bump top plug @ 2,891 psi, Held 5 min, Floats held 5.5 bbls back. Full returns till 520bbls in partial returns last 30bbls, 35bbls of Spacer to surface no cement.				
02:30	0.25	02:45	DEMOB, RIG DOWN	SFTY	NORMAL	PJSM with H&P & American Cementing on RD Equip.	24,922.0	24,922.0		
02:45	0.5	03:15	DEMOB, RIG DOWN	RD_CMT	NORMAL	RD American Cementers	24,922.0	24,922.0		
03:15	1	04:15	DEMOB, RIG DOWN	WH	NORMAL	Back out landing joint, install packoff, pressure test void between seals to 5,000 psi, pull test to 40k, and pressure test again to 5,000 psi for 15 min. Good tests. Set back pressure valve.	24,922.0	24,922.0		
04:15	1	05:15	DEMOB, RIG DOWN	ND_BOPE	NORMAL	ND BOP, remove flowline and RD flow line manifold, RD mud lines and choke line.	24,922.0	24,922.0		
05:15	0.75	06:00	DEMOB, RIG DOWN	WH	NORMAL	Install TA cap and test to 5,000 psi for 15 min. Good test. Release rig to University 7-20E 5H on 2/22/23 @ 06:00	24,922.0	24,922.0		

Interval Problems										
3RD PARTY, 24,922.0ftKB, 2/21/2023 08:30										
Ref #	Dur (hr)	Exclude From Problem Time Calcs?	SubType	Problem Description	Est Cost OR (Cost)	Accountable Party	Comment			
8	0.50	No	PIPE HANDLING	CASING RUNNING TOOL	0.00	TCI CASING SPECIALTIES LLC	Issues with CRT, change out CRT.			

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		Mud Company			Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)		T Flowline (° F)		
2/21/2023 19:00		PIONEER DRILLING FLUIDS			OIL BASE	24,922.0	8.70	62		85.0		
pV (cP)	YP (lbf/100ft²)	Vis 3rpm	Vis 6rpm	Filtrate (mL/30min)	HTHP Filtrate (mL/30min)		HTHP Temperature (° F)		HTHP Pressure (psi)			
	8.000	5	5		8.8		250.0		500.0			
Solids (%)		Low Gravity Solids (%)			Sand (%)		MBT (lb/bbl)		Pm (mL/mL)		Pf (mL/mL)	
10.0		8.3										
Chlorides (mg/L)		Calcium (mg/L)			CaCl (ppm)		Oil Water Ratio		Electric Stab (V)		Lime (lb/bbl)	pH
30,000		3,200.000			0		72.2/27.8		538.0		2.6	
Gel 10 sec (lbf/100ft²)				Gel 10 min (lbf/100ft²)				Gel 30 min (lbf/100ft²)				
14.000				17.000				19.000				

Mud Checks											
Time		Mud Company			Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)		T Flowline (° F)	
2/21/2023 07:00		PIONEER DRILLING FLUIDS			OIL BASE	24,922.0	8.70	65		70.0	
pV (cP)	YP (lb/100ft²)	Vis 3rpm	Vis 6rpm	Filtrate (mL/30min)		HTHP Filtrate (mL/30min)		HTHP Temperature (° F)		HTHP Pressure (psi)	
	8.000	5	5			9.2		250.0		500.0	
Solids (%)		Low Gravity Solids (%)			Sand (%)		MBT (lb/bbl)		Pm (mL/mL)	Pf (mL/mL)	
10.0		8.3									
Chlorides (mg/L)		Calcium (mg/L)		CaCl (ppm)		Oil Water Ratio		Electric Stab (V)		Lime (lb/bbl)	pH
30,000		3,200.000		0		72.2/27.8		524.0		2.6	
Gel 10 sec (lb/100ft²)				Gel 10 min (lb/100ft²)				Gel 30 min (lb/100ft²)			
14.000				17.000				19.000			
Comment											
CCI - NO PSI											

Last BOP Test				
Date	Test Type	Item Tested	Next Test Date	Com
2/10/2023 01:15	BOP	BOP'S, 12/20/2022 03:00	3/3/2023 01:15	Test BOP 5000 High /250 Low

Leak Off and Formation Integrity Tests		
Test Type	Depth (ftKB)	Dens Fluid (lb/gal)
FORMATION INTEGRITY	1,945.0	12.98
FORMATION INTEGRITY	6,870.0	9.50

Casing Pressure Test						
Test Type	Test Subtype	Date	Item Tested	Failed?	Time (min)	P (psi)
CASING	STANDARD	11/8/2022 11:00	SURFACE, 1,936.0ftKB	No	30.00	1,000.0
CASING	STANDARD	2/10/2023 06:00	INTERMEDIATE, 6,883.0ftKB	No	30.00	2,500.0

Kick Offs & Key Depths			
Date	Type	Top Depth (ftKB)	Depth Top (TVD) (ftKB)
2/11/2023 15:15	KICK OFF	8,979.0	8,947.8
2/12/2023 06:00	HEEL	9,913.0	9,529.5

2/19/2023 02:15		TOE		24,922.0		9,509.4		
Casing Strings								
Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)	
CONDUCTOR	106.0	106.0	20	H40	78.67			
SURFACE	1,936.0	1,935.6	13 3/8	J55	54.50	BTC	1,311.0	
INTERMEDIATE	6,883.0	6,852.5	9 5/8	L80-IC	40.00	BTC	3,375.0	
PRODUCTION	24,897.0	9,509.6	5 1/2	P110-IC	20.00	WEDGE 441		
Cement								
Cement Fluids								
Fluid Type	Estimated Top (ftKB)	Estimated Bottom (ftKB)	Class	Yield (ft³/sack)	Density (lb/gal)			
SPACER	29.5	29.5			9.50			
Fluid Type	Estimated Top (ftKB)	Estimated Bottom (ftKB)	Class	Yield (ft³/sack)	Density (lb/gal)			
LEAD CMT	4,192.0	8,829.0	CLASS C	5.12	9.50			
Fluid Type	Estimated Top (ftKB)	Estimated Bottom (ftKB)	Class	Yield (ft³/sack)	Density (lb/gal)			
TAIL CMT	8,829.0	24,897.0	CLASS H	1.65	12.50			
Fluid Type	Estimated Top (ftKB)	Estimated Bottom (ftKB)	Class	Yield (ft³/sack)	Density (lb/gal)			
DSPLMT	29.5	24,897.0			8.34			
Cement Stages								
Description	Final Top Depth	Btm (ftKB)	Top Pl...	Btm Pl...				
5.5" Production Casing	29.5	24,897.0	Yes	Yes				
Q Pump Init	Q Pump Final	Q Pump Avg	P Pump Final	P Plug Bump	Float	Recip?	Rotated?	
5	4	7	1,825.0	975.0	No	No	No	
PRODUCTION CASING CEMENT casing 2/21/2023 22:00								
Cmtg End Date	Wellbore	Technical Result	Comment					
2/22/2023 02:30	ORIGINAL	SUCCESS						
Gas Emissions - Flare								
Type	Method	Dur (Min)	Amount	Units	Com			
No Data								
Job Supply Amounts								
Supply Item Des	Type	Unit Label	Received	Consumed	Returned	Note	Cum On Loc	Cum Consumed
DIESEL	MUD	GAL	0	0		Mud Diesel	7,551	59825
DIESEL	FUEL	GAL	0	1339		Rig Fuel	24,639	43668
DIESEL	MUD	GAL			7551	Transferred to 'UNIVERSITY 7-20E 5H'	0	59825
DIESEL	FUEL	GAL			24639	Transferred to 'UNIVERSITY 7-20E 5H'	0	43668
Mud Additive Amounts								
Des	Type	Units	Rec	Consumed	On Loc	Cum Cons		
DRILLING FLUID TECH	SUPERVISION	EA	1	1	0.0	17		
TRUCKING	MISCELLANEOUS	EA	1	1	0.0	8		
CALCIUM CHLORIDE	CALCIUM CHLORIDE	LB SACK	280	7	0.0	624		
DD TONE	ORGANOPHILLIC CLAY	LB SACK	100	8	0.0	243		
DD LEM	LOW END MODIFIER	GAL	825	30	0.0	2,000		
DDF MUL	ALL IN ONE EMULSIFIER	GAL	550	155	0.0	2,080		
TECH SERVICE SUPPORT	SUPERVISION	EA	350	350	0.0	5,950		
DIESEL - FOR MUD	OIL MUD ADDITIVE	GAL		11908	0.0	70,808		
Pump Operations								
Pump #	Make	Model	Liner Size (in)	Stroke (in)	Vol/Stk (bbl/stk)	P Max (psi)		
1	GARDNER-DENVER	PZ-11-1600	5 1/2	11.00	0.081	7,500.0		
2	GARDNER-DENVER	PZ-11-1600	5 1/2	11.00	0.081	7,500.0		
3	GARDNER-DENVER	PZ-11-1600	5 1/2	11.00	0.081	7,500.0		
Pump Checks								
Pump #	Depth (ftKB)	Time	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)		
No Data								
Deviation Surveys								
Date	Description	Job						
11/3/2022 04:30	AS DRILL SURVEY	ODR, 11/3/2022 01:30						
Date	Description	Job						
2/19/2023 08:27	FINAL SURVEY	ODR, 11/3/2022 01:30						
Formations								
Formation Name	Prog Top Override (TVD SS) (ft(elv))	Prog Top MD (ftKB)	Prog Top (TVD) (ftKB)	Final Top MD (ftKB)	Final Top (TVD) (ftKB)			
ILP	-6,580.0		9,570.0					
PBHL/TD	-6,562.0		9,552.0					
269_0_DEAN	-6,639.0		9,629.0					
304_0_STRAWN	-8,065.0		11,055.0					
Daily Contacts								
Job Contact	Title	Office	Mobile	Email				
RICHARDSON, KEN, AREA DRILLING SUPERINTENDENT	AREA DRILLING SUPERINTENDENT	432-571-2557	432-557-8128	KEN.RICHARDSON@PXD.COM				
SPACEK, KYLE, ENGINEER	ENGINEER	432-571-2800	432-438-0187	KYLE.SPACEK@PXD.COM				
LUTHER, JACKIE, ENGINEER	ENGINEER	972-969-5626	303-512-3803	JACKIE.LUTHER@PXD.COM				
HAHN, MICHAEL, SUPERINTENDENT	SUPERINTENDENT	281-532-5976	361-564-8443	MICHAEL.HAHN@PXD.COM				
TRANSIER, KENNETH, SUPERINTENDENT	SUPERINTENDENT		318-481-3868	KENNETH.TRANSIER@PXD.COM				
SATTERFIELD, JOHN, WELLSITE SUPERVISOR	WELLSITE SUPERVISOR		337-578-5339	JOHN.SATTERFIELD@PXD.COM				

HEFNER, KENNETH, WELLSITE SUPERVISOR	WELLSITE SUPERVISOR		432-559-9070	KENNETH.HEFNER@PXD.COM
WIEST, JUSTIN, MUD ENGINEER	MUD ENGINEER		308-249-2818	JUSTIN.WIEST@PXD.COM
RIG-H&P 417, RIG PHONE	RIG PHONE	361-489-3691		DL-HP417@PXD.COM
Personnel Log				
Company				Count
PIONEER NATURAL RESOURCES USA INC				2
PIONEER NATURAL RESOURCES USA INC				1
HELMERICH & PAYNE INTERNATIONAL DRILLING CO				13
BAKER HUGHES OILFIELD OPERATIONS INC				3
MID CONTINENT WELL LOGGING SERVICE INC				3
STALLION SOLIDS CONTROL INC				1