

Daily Drilling Report

UTL 1308J 3814H				DELAWARE	
H & P - 650				Job:	ODR
Accept: 8/5/2021				Report Date:	8/5/2021
Days Since LTI:				Report #:	3
Release:				DFS:	1
Days Since RI:				AFE #:	9015117
				Total AFE + Sup:	\$4,368,347.65
				Daily Field Est. (Cost):	\$1,494.00

API/UWI 42-475-38230-0000		Well Profile HORIZONTAL		Open Formation BONE SPRING 3 (BSPG 3)		Field Name SPRABERRY (TREND AREA)				
SSN ID00056173	Property Sub	KB-Grd (ft) 26.50	Orig KB Elev (ft) 2,730.50	Ground Elevation (ft) 2,704.00	Spud Date 7/13/2021	TD Date				
Jobs										
Responsible Grp 2		Responsible Grp 3		Job Type	Start Date	End Date	Job Status			
DRL ENG - ALEXANDER LINDBLAD		AREA TEAM 1		ODR	7/13/2021 00:00		IN PROGRESS			
Job Dates (ex. Estimated Pad Release, TXRRRC Calls)										
Type		Subtype		Date	Note					
Daily Operations										
Footage/Meterage (ft) 0.00		Drilling Hours (hr)		% Rotating Time (%)	End Depth (ftKB) 990.5	Target Depth (ftKB) 21,797.0	Daily Field Est Total (Cost) 1,494.00	Cum Field Est To Date (Cost) 283,290.51		
24 HR ROP (ft/hr)		Circulating Hours (hr)		% Sliding Time (%)	End Depth (TVD) (ftKB) 990.1	Target Depth (TVD) (ftKB) 10,880.1	Daily Mud Field Est (Cost)	Cum Mud Field Est (Cost) 4,368,347.65		
Daily Goal Description		Daily Goal - Last 24			Daily Goal - Next 24		Goal Comments			
Backbuild		Lateral Inclination	Last Casing String SURFACE, 968.3ftKB			Next Casing String				
Avg Connection Gas		Avg Trip Gas		Avg Background Gas		Max Connection Gas	Max Trip Gas	Max Drill Gas		
Operations Summary R/D, Prepare to move from the Brooks Leonard 48P 16H										
Operations Next Report Period Rig down, Prepare all loads for rig move, Work with RDL trucking to move rig to the UTL 1308J 3814H										
Operations at Report Time R/D, Prepare to move from the Brooks Leonard 48P 16H										
Remarks Rig NPT - Well: 0.0 Total hrs 3rd Party NPT Well: 0 Total hrs Pioneer NPT Well: 0 Total hr 0 hrs										
Surf-100%, INT1- 0%, INT2- 0%, Curve- 0%, Prod- 0%										
Time Log										
Start Time	Dur (hr)	End Time	Phase	Operation	Ops Category	Com	Start Depth (ftKB)	End Depth (ftKB)	Prob Hrs (hr)	Prob Ref #
04:30	1.5	06:00	MOB, MOVE	RD RDMO	NORMAL	R/D, Prepare to move from Brooks Leonard 48P 16H	990.5	990.5		
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)	
PV (cP)	YP (lb/100ft²)	Vis 3rpm	Vis 6rpm	Filtrate (mL/30min)	HTHP Filtrate (mL/30min)		HTHP Temperature (°F)		HTHP Pressure (psi)	
Solids (%)		Low Gravity Solids (%)		Sand (%)		MBT (lb/bbl)		Pm (mL/mL)		Pf (mL/mL)
Chlorides (mg/L)		Calcium (mg/L)		CaCl (ppm)	Oil Water Ratio	Electric Stab (V)		Lime (lb/bbl)	pH	
Gel 10 sec (lb/100ft²)				Gel 10 min (lb/100ft²)			Gel 30 min (lb/100ft²)			
Comment										
Last BOP Test										
Date		Test Type		Item Tested		Next Test Date	Com			
Leak Off and Formation Integrity Tests										
Test Type				Depth (ftKB)			Dens Fluid (lb/gal)			
Casing Pressure Test										
Test Type		Test Subtype			Date	Item Tested		Failed?	Time (min)	P (psi)
CASING		STANDARD			7/23/2021	SURFACE, 968.3ftKB		No	30.00	1,000.0
Kick Offs & Key Depths										
Date				Type		Top Depth (ftKB)		Depth Top (TVD) (ftKB)		
Casing Strings										
Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)			
CONDUCTOR	106.0		20	H40	78.67					
SURFACE	968.3	967.9	13 3/8	J55	54.50	BTC				
Gas Emissions - Flare										
Type	Method	Dur (min)	Amount	Units	Com					
Job Supply Amounts										
Supply Item Des	Type	Unit Label	Received	Consumed	Returned	Note	Cum On Loc	Cum Consumed		
DIESEL	FUEL	GAL	4,534			Transferred from' BROOKS-LEONARD 48P 16H'	4,534	1,556.0		
DIESEL	MUD	GAL	1,318			Transferred from' BROOKS-LEONARD 48P 16H'	1,318	0.0		
WATER	FRESH	BBL	0			Transferred from' BROOKS-LEONARD 48P 16H'	0	0.0		
Mud Additive Amounts										
Des	Type	Units	Rec	Consumed	On Loc	Cum Cons				
Daily Drilling Report										

Daily Drilling Report

H & P - 650

Release:
Days Since RI:

Job:	ODR
Report Date:	8/5/2021
Report #:	3
DFS:	1
AFE #:	9015117
Total AFE + Sup:	\$4,368,347.65
Daily Field Est. (Cost):	\$1,494.00

Printed: Thursday, August 5, 2021

Daily Drilling Report

UTL 1308J 3814H				DELAWARE	
H & P - 650				Job:	ODR
Accept: 8/5/2021				Report Date:	8/6/2021
Days Since LTI: 73.00				Report #:	4
Release:				DFS:	2
Days Since RI: 131.00				AFE #:	9015117
				Total AFE + Sup:	\$4,368,347.65
				Daily Field Est. (Cost):	\$38,136.55

API/UWI 42-475-38230-0000		Well Profile HORIZONTAL		Open Formation BONE SPRING 3 (BSPG 3)		Field Name SPRABERRY (TREND AREA)									
SSN ID00056173	Property Sub	KB-Grd (ft) 26.50	Orig KB Elev (ft) 2,730.50	Ground Elevation (ft) 2,704.00	Spud Date 7/13/2021	TD Date									
Jobs															
Responsible Grp 2 DRL ENG - ALEXANDER LINDBLAD		Responsible Grp 3 AREA TEAM 1		Job Type ODR	Start Date 7/13/2021 00:00	End Date		Job Status IN PROGRESS							
Job Dates (ex. Estimated Pad Release, TXRRC Calls)															
Type		Subtype		Date		Note									
MILESTONE		ESTIMATED PAD RELEASE													
Daily Operations															
Footage/Meterage (ft) 0.00		Drilling Hours (hr)		% Rotating Time (%)		End Depth (ftKB) 990.5		Target Depth (ftKB) 21,797.0		Daily Field Est Total (Cost) 38,136.55		Cum Field Est To Date (Cost) 321,427.06			
24 HR ROP (ft/hr)		Circulating Hours (hr)		% Sliding Time (%)		End Depth (TVD) (ftKB) 990.1		Target Depth (TVD) (ftKB) 10,880.1		Daily Mud Field Est (Cost)		Cum Mud Field Est (Cost)		Total AFE + Sup (Cost) 4,368,347.65	
Daily Goal Description DRILLED FEET				Daily Goal - Last 24 0.0				Daily Goal - Next 24 0.0				Goal Comments 0			
Backbuild		Lateral Inclination		Last Casing String SURFACE, 968.3ftKB				Next Casing String PROPOSED INTERMEDIATE, 8,350.0ftKB							
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 Rig Down Derrick, Subs, Pits & Remaining Rig Components. Haul All Tubulars. Load Out & Haul To Location. Rig Down Camps, Move To Location & Set Up Same. Set In Gens & Backyard.															
100% Rigged Down 85% Moved 40% Rigged Up 3 cranes, 20 slickbacks, 10 haul trucks Estimated spud date and time 8/7/21 @ 10:00 am															
Operations Next Report Period Transport Derrick & Subs, Rig up															
Operations at Report Time R/U miscellaneous. Wait on daylight															
Remarks Rig NPT - Well: 0.0 Total hrs 3rd Party NPT Well: 0 Total hrs Pioneer NPT Well: 0 Total hr 0 hrs															
Surf-100%, INT1- 0%, INT2- 0%, Curve- 0%, Prod- 0%															
Time Log															
Start Time	Dur (hr)	End Time	Phase	Operation	Ops Category	Com		Start Depth (ftKB)	End Depth (ftKB)	Prob Hrs (hr)	Prob Ref #				
06:00	4	10:00	MOB, MOVE	RD RDMO	NORMAL	Rig down gens, pumps and pits, shack out on Brook Leonard pad. Lower derrick and subs. Haul drill pipe and collars to location. Finish inspecting 5" drill pipe.		990.5	990.5						
10:00	8	18:00	MOB, MOVE	MOVE	NORMAL	Load out and haul gens, pumps, pits, scr, mcc, gas buster, flowline manifolds and stands. Set in pits, pumps, gens and backyard. Lower derrick and split on dollies. Squat subs, pull rotary table from center steel and replace with rebuilt unit. Roll out cable tray and replace bad cable. Complete 5" pipe inspection.		990.5	990.5						
18:00	12	06:00	MOB, MOVE	RU MIRU	NORMAL	R/U miscellaneous. Wait on daylight		990.5	990.5						
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)						
PV (cP)	YP (lb/100ft²)	Vis 3rpm	Vis 6rpm	Filtrate (mL/30min)	HTHP Filtrate (mL/30min)	HTHP Temperature (°F)	HTHP Pressure (psi)								
Solids (%)		Low Gravity Solids (%)		Sand (%)	MBT (lb/bbl)	Pm (mL/mL)	Pf (mL/mL)								
Chlorides (mg/L)		Calcium (mg/L)		CaCl (ppm)	Oil Water Ratio	Electric Stab (V)	Lime (lb/bbl)	pH							
Gel 10 sec (lb/100ft²)				Gel 10 min (lb/100ft²)				Gel 30 min (lb/100ft²)							
Comment															
Last BOP Test															
Date	Test Type			Item Tested		Next Test Date	Com								
Leak Off and Formation Integrity Tests															
Test Type				Depth (ftKB)				Dens Fluid (lb/gal)							
Casing Pressure Test															
Test Type		Test Subtype			Date	Item Tested		Failed?	Time (min)	P (psi)					
CASING		STANDARD			7/23/2021	SURFACE, 968.3ftKB		No	30.00	1,000.0					
Daily Drilling Report															

Daily Drilling Report

UTL 1308J 3814H	
H & P - 650	
Accept: 8/5/2021	Release:
Days Since LTI: 73.00	Days Since RI: 131.00

DELAWARE	
Job:	ODR
Report Date:	8/6/2021
Report #:	4
DFS:	2
AFE #:	9015117
Total AFE + Sup:	\$4,368,347.65
Daily Field Est. (Cost):	\$38,136.55

Kick Offs & Key Depths									
Date			Type		Top Depth (ftKB)		Depth Top (TVD) (ftKB)		
Casing Strings									
Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)		
CONDUCTOR	106.5		20	H40	78.67				
SURFACE	968.3	967.9	13 3/8	J55	54.50	BTC			
Gas Emissions - Flare									
Type	Method	Dur (min)	Amount	Units	Com				
Job Supply Amounts									
Supply Item Des	Type	Unit Label	Received	Consumed	Returned	Note	Cum On Loc	Cum Consumed	
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	6,335.0		
2	GARDNER-DENVER		PZ-11-1600	5 1/2	11.00	0.081	6,335.0		
3	GARDNER-DENVER		PZ-11-1600	5 1/2	11.00	0.081	6,335.0		
Pump Checks									
Pump #	Depth (ftKB)	Time	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)			
Deviation Surveys									
Date	Description FINAL SURVEY					Job			
Date 7/14/2021	Description AS DRILL SURVEY					Job ODR, 7/13/2021 00:00			
Formations									
Formation Name			Prog Top (TVD SS) Override (ft(elv))	Prog Top MD (ftKB)	Prog Top (TVD) (ftKB)	Final Top MD (ftKB)	Final Top (TVD) (ftKB)		
251_0_SLDO			1,630.0		1,100.5				
263_BELL CANYON			-2,340.0		5,070.5				
263_5_TOP_CHERRY_CANYON			-3,230.0		5,960.5				
264_5_TOP_BRUSHY_CANYON			-4,505.0		7,235.5				
264_AVLN			-5,360.0		8,090.5				
ALT_ICP1			-5,560.0		8,290.5				
265_BSPG1			-5,790.0		8,520.5				
267_BSPG2			-7,160.0		9,890.5				
268_BSPG3			-7,630.0		10,360.5				
268_PHANTOM FIELD TOP			-7,630.0		10,360.5				
ICP1			-7,780.0		10,510.5				
268_BSPG3 BASE CARBONATE			-8,170.0		10,900.5				
TOT			-8,340.0		11,070.5				
BOT			-8,390.0		11,120.5				
FTP			-8,365.0		11,095.5				
PBHL/TD			-8,150.0		10,880.5				
Daily Contacts									
Job Contact			Title	Office	Mobile	Email			
HARDIN, JOE, AREA DRILLING SUPERINTENDENT			AREA DRILLING SUPERINTENDENT	361-452-2118	361-318-8762	THOMAS.HARDIN@PXD.COM			
KUMAR, DEV, ENGINEER			ENGINEER		469-865-6956	DEV.KUMAR@PXD.COM			
BROWN, DAN, SUPERINTENDENT			SUPERINTENDENT		469-203-9731	DAN.BROWN@PXD.COM			
JOHNSON, STEVEN, SUPERINTENDENT			SUPERINTENDENT		580-504-9863	STEVEN.JOHNSON@PXD.COM			
CREEL, GREG, WELLSITE SUPERVISOR			WELLSITE SUPERVISOR		307-461-0366	GREG.CREEL@PXD.COM			
THOMPSON, SCOTT, WELLSITE SUPERVISOR			WELLSITE SUPERVISOR		432-934-9393	SCOTT.THOMPSON@PXD.COM			
TRUPE, CODY, MUD ENGINEER			MUD ENGINEER		405-664-3414	CODY.TRUPE@PXD.COM			
RIG-H&P 650, RIG PHONE			RIG PHONE	432-538-3406		DL-HP650@PXD.COM			
Personnel Log									
Company							Count		
PIONEER NATURAL RESOURCES USA INC							3		
HELMERICH & PAYNE INTERNATIONAL DRILLING CO							13		
PHOENIX TECHNOLOGY SERVICES USA INC							0		
AERION RENTAL SERVICES							1		
STRATAGRAPH INC							0		

Daily Drilling Report

UTL 1308J 3814H				DELAWARE	
H & P - 650				Job:	ODR
Accept: 8/5/2021				Report Date:	8/7/2021
Days Since LTI: 74.00				Report #:	5
Release:				DFS:	3
Days Since RI: 132.00				AFE #:	9015117
				Total AFE + Sup:	\$4,368,347.65
				Daily Field Est. (Cost):	\$241,911.09

API/UWI 42-475-38230-0000		Well Profile HORIZONTAL		Open Formation BONE SPRING 3 (BSPG 3)		Field Name SPRABERRY (TREND AREA)				
SSN ID00056173	Property Sub	KB-Grd (ft) 26.50	Orig KB Elev (ft) 2,730.50	Ground Elevation (ft) 2,704.00	Spud Date 7/13/2021	TD Date				
Jobs										
Responsible Grp 2 DRL ENG - ALEXANDER LINDBLAD		Responsible Grp 3 AREA TEAM 1		Job Type ODR	Start Date 7/13/2021 00:00	End Date		Job Status IN PROGRESS		
Job Dates (ex. Estimated Pad Release, TXRRRC Calls)										
Type MILESTONE		Subtype ESTIMATED PAD RELEASE		Date 10/30/2021		Note Nipple up on 1st well of 3 well pad, drilling sequentially.				
Daily Operations										
Footage/Meterage (ft) 0.00		Drilling Hours (hr)		% Rotating Time (%)		End Depth (ftKB) 990.5		Target Depth (ftKB) 21,797.0		
24 HR ROP (ft/hr)		Circulating Hours (hr)		% Sliding Time (%)		End Depth (TVD) (ftKB) 990.1		Target Depth (TVD) (ftKB) 10,880.1		
Daily Goal Description DRILLED FEET		Daily Goal - Last 24 0.0		Daily Goal - Next 24 2,010.0		Goal Comments				
Backbuild		Lateral Inclination		Last Casing String SURFACE, 968.3ftKB				Next Casing String PROPOSED INTERMEDIATE, 8,350.0ftKB		
Avg Connection Gas		Avg Trip Gas		Avg Background Gas		Max Connection Gas		Max Trip Gas		
Avg Drill Gas										
Operations Summary Trans Derrick, Subs, Draw Works & Center Steel, Set Subs, Pin, Dress & Raise Derrick, Dress-Out Rig, N/U BOP W/ MPD Choke,										
Operations Next Report Period Finish nipple up and test BOP, P/U BHA, TIH, Drill out shoe track, FIT test to 12.5. Drill to 3,000'										
Operations at Report Time Nipple up BOP										
Remarks Rig NPT - Well: 0.0 Total hrs 3rd Party NPT Well: 0 Total hrs Pioneer NPT Well: 0 Total hr 0 hrs										
100% on location, 100% rigged up										
Surf-100%, INT1- 0%, INT2- 0%, Curve- 0%, Prod- 0%										
Time Log										
Start Time	Dur (hr)	End Time	Phase	Operation	Ops Category	Com	Start Depth (ftKB)	End Depth (ftKB)	Prob Hrs (hr)	Prob Ref #
06:00	11	17:00	MOB, MOVE	RU MIRU	NORMAL	Pin skid rails and starter peice, set and pin mud boat, set draw works. Center and pin subs, raise. pin derrick, perform inspection and raise. Set in catwalk, v-door, shakers, gas buster. Power up rig at 19:30 N/U rotating head & orbit valve to 30" mud cross with 4 1/16" HCR valve and Weatherford MPD choke. N/U 36" 10k spool to the 10k QDC.	990.5	990.5		
17:00	7	00:00	MOB, RIG UP	RU MIRU	NORMAL	Unpin MRC's and retract, Extend driller cabin service arm and plug in electrical wires, Raise BOP to install spacer spool and rotating head assembly. Install same	990.5	990.5		
00:00	6	06:00	MOB, RIG UP	NU_BOPE	NORMAL	Raise BOP, Attach to wrangler. Stem on HCR hitting arm on wrangler. L/D BOP. Nipple down MPD and HCR, Turn HCR and nipple up. Nipple down single gate and turn one hole. Test choke manifold offline	990.5	990.5		
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)	
PV (cP)	YP (lbf/100ft²)	Vis 3rpm	Vis 6rpm	Filtrate (mL/30min)	HTHP Filtrate (mL/30min)	HTHP Temperature (°F)	HTHP Pressure (psi)			
Solids (%)		Low Gravity Solids (%)		Sand (%)	MBT (lb/bbl)	Pm (mL/mL)	Pf (mL/mL)			
Chlorides (mg/L)		Calcium (mg/L)		CaCl (ppm)	Oil Water Ratio	Electric Stab (V)	Lime (lb/bbl)		pH	
Gel 10 sec (lbf/100ft²)				Gel 10 min (lbf/100ft²)			Gel 30 min (lbf/100ft²)			
Comment										
Last BOP Test										
Date	Test Type			Item Tested		Next Test Date	Com			
Leak Off and Formation Integrity Tests										
Test Type				Depth (ftKB)			Dens Fluid (lb/gal)			
Casing Pressure Test										
Test Type		Test Subtype			Date	Item Tested	Failed?	Time (min)	P (psi)	
CASING		STANDARD			7/23/2021	SURFACE, 968.3ftKB	No	30.00	1,000.0	
Kick Offs & Key Depths										
Date				Type			Top Depth (ftKB)		Depth Top (TVD) (ftKB)	
Daily Drilling Report										

Daily Drilling Report

UTL 1308J 3814H	
H & P - 650	
Accept: 8/5/2021	Release:
Days Since LTI: 74.00	Days Since RI: 132.00

DELAWARE	
Job:	ODR
Report Date:	8/7/2021
Report #:	5
DFS:	3
AFE #:	9015117
Total AFE + Sup:	\$4,368,347.65
Daily Field Est. (Cost):	\$241,911.09

Casing Strings								
Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)	
CONDUCTOR	106.5		20	H40	78.67			
SURFACE	968.3	967.9	13 3/8	J55	54.50	BTC		
Gas Emissions - Flare								
Type	Method	Dur (min)	Amount	Units	Com			
Job Supply Amounts								
Supply Item Des	Type	Unit Label	Received	Consumed	Returned	Note	Cum On Loc	Cum Consumed
DIESEL	FUEL	GAL	7,220				8,754	1,556.0
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	6,335.0	
2	GARDNER-DENVER		PZ-11-1600	5 1/2	11.00	0.081	6,335.0	
3	GARDNER-DENVER		PZ-11-1600	5 1/2	11.00	0.081	6,335.0	
Pump Checks								
Pump #	Depth (ftKB)	Time	P (psi)	Strokes (spm)	Q Flow (gpm)		Eff (%)	
Deviation Surveys								
Date	Description					Job		
	FINAL SURVEY							
Date	Description					Job		
7/14/2021	AS DRILL SURVEY					ODR, 7/13/2021 00:00		
Formations								
Formation Name			Prog Top (TVD SS) Override (ft(elv))	Prog Top MD (ftKB)	Prog Top (TVD) (ftKB)	Final Top MD (ftKB)	Final Top (TVD) (ftKB)	
251_0_SLDO			1,630.0		1,100.5			
263_BELL CANYON			-2,340.0		5,070.5			
263_5_TOP_CHERRY_CANYON			-3,230.0		5,960.5			
264_5_TOP_BRUSHY_CANYON			-4,505.0		7,235.5			
264_AVLN			-5,360.0		8,090.5			
ALT_ICP1			-5,560.0		8,290.5			
265_BSPG1			-5,790.0		8,520.5			
267_BSPG2			-7,160.0		9,890.5			
268_BSPG3			-7,630.0		10,360.5			
268_PHANTOM FIELD TOP			-7,630.0		10,360.5			
ICP1			-7,780.0		10,510.5			
268_BSPG3 BASE CARBONATE			-8,170.0		10,900.5			
TOT			-8,340.0		11,070.5			
BOT			-8,390.0		11,120.5			
FTP			-8,365.0		11,095.5			
PBHL/TD			-8,150.0		10,880.5			
Daily Contacts								
Job Contact			Title	Office	Mobile	Email		
HARDIN, JOE, AREA DRILLING SUPERINTENDENT			AREA DRILLING SUPERINTENDENT	361-452-2118	361-318-8762	THOMAS.HARDIN@PXD.COM		
KUMAR, DEV, ENGINEER			ENGINEER		469-865-6956	DEV.KUMAR@PXD.COM		
BROWN, DAN, SUPERINTENDENT			SUPERINTENDENT		469-203-9731	DAN.BROWN@PXD.COM		
JOHNSON, STEVEN, SUPERINTENDENT			SUPERINTENDENT		580-504-9863	STEVEN.JOHNSON@PXD.COM		
CREEL, GREG, WELLSITE SUPERVISOR			WELLSITE SUPERVISOR		307-461-0366	GREG.CREEL@PXD.COM		
THOMPSON, SCOTT, WELLSITE SUPERVISOR			WELLSITE SUPERVISOR		432-934-9393	SCOTT.THOMPSON@PXD.COM		
TRUPE, CODY, MUD ENGINEER			MUD ENGINEER		405-664-3414	CODY.TRUPE@PXD.COM		
RIG-H&P 650, RIG PHONE			RIG PHONE	432-538-3406		DL-HP650@PXD.COM		
Personnel Log								
Company							Count	
PIONEER NATURAL RESOURCES USA INC							3	
HELMERICH & PAYNE INTERNATIONAL DRILLING CO							13	
PHOENIX TECHNOLOGY SERVICES USA INC							0	
AERION RENTAL SERVICES							1	
STRATAGRAPH INC							0	
Daily Drilling Report								
Page 2/2				Printed: Saturday, August 7, 2021				

Daily Drilling Report

UTL 1308J 3814H				DELAWARE	
H & P - 650				Job:	ODR
Accept: 8/5/2021				Report Date:	8/8/2021
Days Since LTI: 75.00				Report #:	6
Release:				DFS:	4
Days Since RI: 133.00				AFE #:	9015117
				Total AFE + Sup:	\$4,368,347.65
				Daily Field Est. (Cost):	\$76,326.55

API/UWI 42-475-38230-0000		Well Profile HORIZONTAL		Open Formation BONE SPRING 3 (BSPG 3)		Field Name SPRABERRY (TREND AREA)				
SSN ID00056173	Property Sub	KB-Grd (ft) 26.50	Orig KB Elev (ft) 2,730.50	Ground Elevation (ft) 2,704.00	Spud Date 7/13/2021		TD Date			
Jobs										
Responsible Grp 2		Responsible Grp 3		Job Type	Start Date		End Date	Job Status		
DRL ENG - ALEXANDER LINDBLAD		AREA TEAM 1		ODR	7/13/2021 00:00			IN PROGRESS		
Job Dates (ex. Estimated Pad Release, TXRRC Calls)										
Type		Subtype		Date		Note				
MILESTONE		ESTIMATED PAD RELEASE		10/30/2021		Drilling intermediate on 1st well of 3 well pad, drilling sequentially.				
Daily Operations										
Footage/Meterage (ft) 0.00	Drilling Hours (hr)	% Rotating Time (%)	End Depth (ftKB) 990.5	Target Depth (ftKB) 21,797.0	Daily Field Est Total (Cost) 76,326.55	Cum Field Est To Date (Cost) 488,244.16				
24 HR ROP (ft/hr)	Circulating Hours (hr)	% Sliding Time (%)	End Depth (TVD) (ftKB) 990.1	Target Depth (TVD) (ftKB) 10,880.1	Daily Mud Field Est (Cost) 2,530.00	Cum Mud Field Est (Cost) 2,530.00	Total AFE + Sup (Cost) 4,368,347.65			
Daily Goal Description DRILLED FEET		Daily Goal - Last 24 2,010.0		Daily Goal - Next 24 2,500.0		Goal Comments Goal not met due to nipple up				
Backbuild	Lateral Inclination	Last Casing String SURFACE, 968.3ftKB			Next Casing String PROPOSED INTERMEDIATE, 8,350.0ftKB					
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 N/U BOP, MPD & Test, P/U Int BHA, TIH. Service rig, Drill out shoe track, 10' of new formation to 1,009', Perform FIT test to 12.5 EMW										
Operations Next Report Period Drill intermediate hole section to 3,509' w/ no HSE events										
Operations at Report Time Performing FIT test to 12.5 EMW										
Remarks Rig NPT - Well: 0.0 Total hrs 3rd Party NPT Well: 0 Total hrs Pioneer NPT Well: 0 Total hr 0 hrs										
Surf-100%, INT1- 0%, INT2- 0%, Curve- 0%, Prod- 0%										
Time Log										
Start Time	Dur (hr)	End Time	Phase	Operation	Ops Category	Com	Start Depth (ftKB)	End Depth (ftKB)	Prob Hrs (hr)	Prob Ref #
06:00	2.5	08:30	MOB, RIG UP	ND_BOPE	NORMAL	Discovered wellhead set deeper than reported, 36" spacer spool short by 12", N/D and remove from QDC. Continue rigging up while waiting on 48" spool to be delivered to continue the N/U and test.	990.5	990.5		
08:30	3.25	11:45	MOB, RIG UP	RU MIRU	NORMAL	Rig Up: flare line and stack, super choke. stage subs for BHA on rig floor. Offline inspecting 4.5" drill pipe, receiving 10# brine in active pits.	990.5	990.5		
11:45	3	14:45	MOB, RIG UP	NU_BOPE	NORMAL	N/U 10k 48" spool, BOP & choke line. Nipple up flowline.	990.5	990.5		
14:45	3.25	18:00	MOB, RIG UP	TEST_BOPE	NORMAL	Perform Full BOP Test: Test all rams at 10k psi high and 250 psi for 5 minutes each. Test annular at 3,500 psi high and 250 psi low for 5 minute each. Test back to pumps at 5,600 psi high and 250 psi low for 5 minutes each.	990.5	990.5		
18:00	6	00:00	INT, PRE DRL	NU_BOPE	NORMAL	R/U drilling choke, Change llow line rigging to seperate mud bucket return line line and MPD line. Install phoenix fittings and accumulator hoses to HCR on MPD. Pressure up accumulator and test.	990.5	990.5		
00:00	0.25	00:15	INT, PRE DRL	SFTY	NORMAL	PJSM on picking up BHA	990.5	990.5		
00:15	1.5	01:45	INT, PRE DRL	PU_DIR	NORMAL	P/U intermediate BHA. P/U motor, stab, monels, scribe, install mwd, M/U bit. TIH, P/U stab, thruster	990.5	990.5		
01:45	1.25	03:00	INT, PRE DRL	PU_DP	NORMAL	P/U HWDP while TIH to 871'	990.5	990.5		
03:00	0.5	03:30	INT, PRE DRL	RIG_SVC	NORMAL	Rig service, Drops inspection	990.5	990.5		
03:30	0.25	03:45	INT, PRE DRL	PU_DP	NORMAL	TIH F/ 871 T/ 927' Tag float collar	990.5	990.5		
03:45	0.75	04:30	INT, PRE DRL	DRL_OUT	NORMAL	Drill out shoe track F/ 927' T/ 969'. Drill rathole F/ 969' T/ 999'	990.5	990.5		
04:30	0.25	04:45	INT, DRL	DRL	NORMAL	Drill 10' of new formation F/ 999' T/ 1,009'	990.5	1,009.0		
04:45	0.5	05:15	INT, DRL	CIRC	NORMAL	Circulate 2 bottoms up, Balance out mud weight.	1,009.0	1,009.0		
05:15	0.75	06:00	INT, DRL	FIT	NORMAL	Performing FIT test to 12.5 EMW	1,009.0	1,009.0		
Drill Strings										
BHA #2 , INTERMEDIATE										
Bit Run 2		Drill Bit 12 1/4in, SPL 616, 56313			Bit Type PDC		Make ULTERRA			
Nozzles (1/32") 11/11/11/11/11/12/12/12		Bit Total Fluid Area (nozzles) (in²) 0.91		IADC Bit Dull -----		Hours Drilled By Bit (hr)		Depth Drilled By Bit (ft)		
BHA Drilling Time (hr)		BHA Depth Drilled (ft)		BHA ROP (ft/hr)		Depth In (ftKB)		Depth Out (ftKB)		
Daily Drilling Report										
Page 1/3										
Printed: Sunday, August 8, 2021										

Daily Drilling Report

UTL 1308J 3814H				DELAWARE			
H & P - 650				Job:	ODR		
Accept: 8/5/2021				Report Date:	8/8/2021		
Days Since LTI: 75.00				Report #:	6		
Release:				DFS:	4		
Days Since RI: 133.00				AFE #:	9015117		
				Total AFE + Sup:	\$4,368,347.65		
				Daily Field Est. (Cost):	\$76,326.55		

Drill String Components										
Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)	Wt (lbf)	Cum Wt (1000lbf)	Make		
1	DRILLING JARS - HYDRAULIC	6.63	2.88	31.77	1,480.93		66	KNIGHT OIL TOOLS LLC		
45	HWDP	6 1/2	3.00	1,333.64	1,449.16	65,748.5	66	RIG		
1	SUB - XO	7.84	2.81	3.30	115.52		0	AMEGA WEST		
1	SUB - SHOCK	8	3.25	26.77	112.22		0	COUGAR		
1	STABILIZER	8	3.25	7.29	85.45		0	AMEGA WEST		
1	MWD TOOL	8.08	4.00	3.45	78.16		0	PHOENIX		
1	MWD TOOL	8 1/16	6.05	8.53	74.71		0	PHOENIX		
1	MWD TOOL	8.2	4.85	3.72	66.18		0	PHOENIX		
1	MWD TOOL	8	2.82	2.82	62.46		0	PHOENIX		
1	DRILL COLLAR - PONY, NON MAG	7.88	2.81	14.41	59.64		0	AMEGA WEST		
1	STABILIZER	8.24	2.94	7.28	45.23		0	AMEGA WEST		
1	MOTOR - STABILIZER SLEEVE	9	0.10	36.45	37.95		0	PHOENIX		
Mud Motors										
SN	Bend Angle	Bearing Type	Lobe Config	# Stages	Lwr DefIn Type	Bit To Bend				
PHX-900-030	1.83	NOT SEALED	7:8	7		6.83				
Sensors										
Sensor Type	Sensor-Bit (ft)			Note						
GAMMA	67.74									
DIRECTIONAL	71.00									
Hydraulic Calculations										
Dens Mud (lb/gal)	ECD End (lb/gal)	Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Jet Vel (ft/s)	Bit dP (psi)	Min Open Hole AV (ft/min)	Max Open Hole AV (ft/min)	Vol DrillString (bbl)	Vol Bit to Shoe (bbl)	Vol Shoe to Top (bbl)
Mud Checks										
Time	Mud Company			Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (°F)		
23:00	PIONEER DRILLING FLUIDS			WATER BASE	990.0	10.00	28			
PV (cP)	YP (lbf/100ft²)	Vis 3rpm	Vis 6rpm	Filtrate (mL/30min)	HTHP Filtrate (mL/30min)	HTHP Temperature (°F)		HTHP Pressure (psi)		
1.0	2.000	1	1	0.0						
Solids (%)		Low Gravity Solids (%)		Sand (%)	MBT (lb/bbl)	Pm (mL/mL)		Pf (mL/mL)		
11.0		0.4		0.0	0.0	0.100				
Chlorides (mg/L)		Calcium (mg/L)		CaCl (ppm)	Oil Water Ratio	Electric Stab (V)		Lime (lb/bbl)		pH
180,000		1,680			0/100					7.0
Gel 10 sec (lbf/100ft²)				Gel 10 min (lbf/100ft²)			Gel 30 min (lbf/100ft²)			
1.000				1.000			1.000			
Comment										
Maintain mw of 10-10.5 ppg in active pits with brine water. Add lime as needed for a pH of 9.5-10.5. High viscosity sweeps: 80 bbls brine water, 16 sacks of Zeo Gel, 5 sx Barazan D Plus. Pump 30-40 bbls every other stand or as directed by co man. Received spud load, 1 full truck of sack barite, and 2 loads of Bulk Barite. All shakers have been dressed in API 140s. Bulk silos have all been rigged up and tested. Mudwatcher has been turned on but still lack communication with Pason. Pits are filled with brine water and trucks will										
Last BOP Test										
Date	Test Type		Item Tested		Next Test Date	Com				
8/7/2021	BOP				8/28/2021					
Leak Off and Formation Integrity Tests										
Test Type			Depth (ftKB)			Dens Fluid (lb/gal)				
FORMATION INTEGRITY			1,009.0							
Casing Pressure Test										
Test Type		Test Subtype		Date	Item Tested		Failed?	Time (min)	P (psi)	
CASING		STANDARD		7/23/2021	SURFACE, 968.3ftKB		No	30.00	1,000.0	
Kick Offs & Key Depths										
Date			Type		Top Depth (ftKB)		Depth Top (TVD) (ftKB)			
Casing Strings										
Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread		P LeakOff (psi)		
CONDUCTOR	106.5	106.5	20	H40	78.67					
SURFACE	968.3	967.9	13 3/8	J55	54.50	BTC		0.0		
Gas Emissions - Flare										
Type	Method	Dur (min)	Amount	Units	Com					
Job Supply Amounts										
Supply Item Des		Type	Unit Label	Received	Consumed	Returned	Note	Cum On Loc	Cum Consumed	
DIESEL		FUEL	GAL	3,500			Recieved split load 3500 gal	12,254	1,556.0	
DIESEL		FUEL	GAL		456			11,798	2,012.0	
DIESEL		MUD	GAL	3,718			Recieved split load 3718 gal	5,036	0.0	
Mud Additive Amounts										
Des		Type	Units	Rec	Consumed	On Loc		Cum Cons		
BA.FORKLIFT 8000 LB W/OPR		MISCELLANEOUS	EA	230	230	0.0		230		
TRANSPORTATION		MISCELLANEOUS	MILE	2,300	2,300	0.0		2,300		
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	6,335.0		
2	GARDNER-DENVER			PZ-11-1600	5 1/2	11.00	0.081	6,335.0		
3	GARDNER-DENVER			PZ-11-1600	5 1/2	11.00	0.081	6,335.0		
Daily Drilling Report										

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Printed: Sunday, August 8, 2021

Daily Drilling Report

H & P - 650

Release:

Days Since RI: 133.00

\$76,326.55

Patient Information	
Full Name	
Date of Birth	
Gender	
Address	
City	
State	
Zip	
Phone	
Medical History	
Current Medications	
Previous Surgeries	
Chronic Conditions	
Family History	
Physical Examination	
General	
Head	
Eyes	
Ears	
Nose	
Throat	
Heart	
Lungs	
Abdomen	
Extremities	
Vital Signs	
Temperature	
Pulse	
Respiration	
Blood Pressure	
Laboratory Tests	
Complete Blood Count	
Basic Metabolic Panel	
Urine Analysis	
Imaging Studies	
X-Ray	
Ultrasound	
CT Scan	
MRI	
Treatment Plan	
Medications	
Procedures	
Follow-up	
Patient Education	
Instructions	
Referrals	
Physician Signature	
Signature	
Print Name	
MD	
Nurse Signature	
Signature	
Print Name	
RN	

Daily Drilling Report

UTL 1308J 3814H				DELAWARE	
H & P - 650				Job:	ODR
Accept: 8/5/2021				Report Date:	8/9/2021
Days Since LTI: 76.00				Report #:	7
Release:				DFS:	5
Days Since RI: 134.00				AFE #:	9015117
				Total AFE + Sup:	\$4,368,347.65
				Daily Field Est. (Cost):	\$76,350.60

P/I/UWI 42-475-38230-0000		Well Profile HORIZONTAL		Open Formation BONE SPRING 3 (BSPG 3)		Field Name SPRABERRY (TREND AREA)						
SSN ID00056173		Property Sub		KB-Grd (ft) 26.50	Orig KB Elev (ft) 2,730.50	Ground Elevation (ft) 2,704.00	Spud Date 7/13/2021	TD Date				
Jobs												
Responsible Grp 2		Responsible Grp 3		Job Type	Start Date		End Date		Job Status			
DRL ENG - ALEXANDER LINDBLAD		AREA TEAM 1		ODR	7/13/2021 00:00				IN PROGRESS			
Job Dates (ex. Estimated Pad Release, TXRRC Calls)												
Type			Subtype		Date		Note					
MILESTONE			ESTIMATED PAD RELEASE		10/30/2021		Drilling intermediate on 1st well of 3 well pad, drilling sequentially.					
Daily Operations												
Footage/Meterage (ft) 3,703.00		Drilling Hours (hr) 22.25		% Rotating Time (%) 83.15		End Depth (ftKB) 4,819.0		Target Depth (ftKB) 21,797.0		Daily Field Est Total (Cost) 76,350.60	Cum Field Est To Date (Cost) 562,064.76	
24 HR ROP (ft/hr) 166.4		Circulating Hours (hr) 1.75		% Sliding Time (%) 16.85		End Depth (TVD) (ftKB) 4,744.4		Target Depth (TVD) (ftKB) 10,880.1		Daily Mud Field Est (Cost) 1,753.05	Cum Mud Field Est (Cost) 1,753.05	Total AFE + Sup (Cost) 4,368,347.65
Daily Goal Description DRILLED FEET				Daily Goal - Last 24 2,500.0				Daily Goal - Next 24 2,000.0		Goal Comments Goal met		
Backbuild		Lateral Inclination		Last Casing String SURFACE, 968.3ftKB				Next Casing String PROPOSED INTERMEDIATE, 8,350.0ftKB				
Avg Connection Gas 11.00		Avg Trip Gas 6.00		Avg Background Gas 8.00		Max Connection Gas 50.00		Max Trip Gas 7.00		Max Drill Gas 1,107.00		
Operations Summary Drill 12.25" Int F/ 1,009' T/ 1,684'. Replace stand pipe O'ring, Drill 12.25" Int F/ 1,684' T/ 2,037', Install rotating head, Drill 12.25" Int F/ 2,037' T/ 2,608', Service rig,Drill 12.25" Int F/ 2,608' T/ 4,502', Service rig, Drill 12.25" Int F/ 4,502' T/ 4,819', Full returns (16.85% Sliding, 12.0° tangent, 16.0' above, 4.5' left Operations Next Report Period Drill intermediate hole section to 6,819' w/ no HSE events Operations at Report Time Drlg Int 1 @ 4,819' Full returns Remarks Rig NPT - Well: 1.0 Total hrs 3rd Party NPT Well: 0 Total hrs Pioneer NPT Well: 0 Total hr 1 hrs Surf-100%, INT1- 49.9%, INT2- 0%, Curve- 0%, Prod- 0%												
Time Log												
Start Time	Dur (hr)	End Time	Phase	Operation	Ops Category	Com	Start Depth (ftKB)	End Depth (ftKB)	Prob Hrs (hr)	Prob Ref #		
06:00	4	10:00	INT, DRL	DRL	NORMAL	Drill 12.25" Int F/ 1,009' T/ 1,684', 675' @ 168.7 fph. Build and hold 12° tangent. Adjusting parameters to minimize Stick/Slip and achieve best ROP. Step test ineffective as formation lithology constantly changing. Overall best parameter set at 25k wob, 46 rpm, 570 diff at 900 gpm. Best efforts to keep bit engaged and acceptable depth of cut.	1,009.0	1,684.0				
10:00	0.5	10:30	INT, DRL	RIG_RPR	NORMAL	Replace leaking stand pipe O-Ring	1,684.0	1,684.0	0.50	2		
10:30	2	12:30	INT, DRL	DRL	NORMAL	Drill 12.25" Int F/ 1,684' T/ 2,037', 353' @ 176.5 fph. Adjusting parameters to minimize Stick/Slip and achieve best ROP	1,684.0	2,037.0				
12:30	0.5	13:00	INT, DRL	HDL_ROT HD	NORMAL	Pull trip nipple and install 1500# rotating head	2,037.0	2,037.0				
13:00	0.5	13:30	INT, DRL	RIG_RPR	NORMAL	Trough catching on the side deck of catwalk, remove deckplate.	2,037.0	2,037.0	0.50	3		
13:30	3	16:30	INT, DRL	DRL	NORMAL	Drill 12.25" Int F/ 2,037' T/ 2,608', 571' @ 190.3 fph. Adjusting parameters to minimize Stick/Slip and achieve best ROP. At 2,072' formation started changing allowing 50-60k wob with 350-450 rop. Dump and dilute to maintain +-10.0# MW, running centrifuge.	2,037.0	2,608.0				
16:30	0.5	17:00	INT, DRL	RIG_SVC	NORMAL	Rig Service	2,608.0	2,608.0				
17:00	10.25	03:15	INT, DRL	DRL	NORMAL	Drill 12.25" Int F/ 2,608' T/ 4,502', 1,894' @ 184.7 fph. Maintaining 12° tangent, staying within 10' of the line. Dump and dilute to maintain +-10.0# MW, running centrifuge.	2,608.0	4,502.0				
03:15	0.5	03:45	INT, DRL	RIG_SVC	NORMAL	Rig service, Drop inspection	4,502.0	4,502.0				
03:45	2.25	06:00	INT, DRL	DRL	NORMAL	Drill 12.25" Int F/ 4,502' T/ 4,819', 317' @ 158.5 fph. Maintaining 12° tangent, staying within 10' of the line. Dump and dilute to maintain +-10.0# MW, running centrifuge.	4,502.0	4,819.0				
Interval Problems												
RIG, 1,684.0ftKB, 8/8/2021 10:00												
Ref #	Dur (N...)	Ex...	Subtype	Problem Descript...	Est Cost OR (Cost)	Accountable Party	Comment					
2	0.50	No	CIRCULATING SYSTEM	PIPING		HELMERICH & PAYNE INTERNATIONAL DRILLING CO	Replace leaking stand pipe O-Ring					
RIG, 2,037.0ftKB, 8/8/2021 13:00												
Ref #	Dur (N...)	Ex...	Subtype	Problem Descript...	Est Cost OR (Cost)	Accountable Party	Comment					
3	0.50	No	PIPE HANDLING	LAYDOWN		HELMERICH & PAYNE INTERNATIONAL DRILLING CO	Trough catching on the side deck of catwalk, remove deckplate.					
Daily Drilling Report												
Page 1/5												
Printed: Monday, August 9, 2021												

Daily Drilling Report

H & P - 650

Accept: 8/5/2021

Days Since LTI: 76.00

Release:

Days Since RI: 134.00

DELAWARE

Job:

ODR

Report Date:

8/9/2021

Report #:

7

DFS:

5

AFE #:

9015117

Total AFE + Sup:

\$4,368,347.65

Daily Field Est. (Cost):

\$76,350.60

Interval Problems

RIG, 2,142.0ftKB, 8/8/2021 14:15

Ref #	Dur (N...)	Ex... Ye s	Subtype PIPE HANDLING	Problem Descript...	Est Cost OR (Cost)	Accountable Party HELMERICH & PAYNE INTERNATIONAL DRILLING CO	Comment Blew two hose on ST-80, drilling at reduced ROP while making repairs.
4				TONGS			

Drill Strings

BHA #2 , INTERMEDIATE

Bit Run 2	Drill Bit 12 1/4in, SPL 616, 56313	Bit Type PDC	Make ULTERRA	
Nozzles (1/32") 11/11/11/11/11/12/12/12/12	Bit Total Fluid Area (nozzles) (in²) 0.91	IADC Bit Dull -----	Hours Drilled By Bit (hr) 22.50	Depth Drilled By Bit (ft) 3,713.00
BHA Drilling Time (hr) 22.50	BHA Depth Drilled (ft) 3,713.00	BHA ROP (ft/hr) 165.0	Depth In (ftKB) 999.0	Depth Out (ftKB) 4,819.0

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)	Wt (lbf)	Cum Wt (1000lbf)	Make
100	DRILL PIPE	5	4.28	3,156.20	4,819.00	61,545.9	136	
5	HWDP	6 1/2	3.00	151.12	1,662.80	7,450.2	75	RIG
1	DRILLING JARS - HYDRAULIC	6.63	2.88	31.77	1,511.68		67	KNIGHT OIL TOOLS LLC
45	HWDP	6 1/2	3.00	1,364.39	1,479.91	67,264.4	67	RIG
1	SUB - XO	7.84	2.81	3.30	115.52		0	AMEGA WEST
1	SUB - SHOCK	8	3.25	26.77	112.22		0	COUGAR
1	STABILIZER	8	3.25	7.29	85.45		0	AMEGA WEST
1	MWD TOOL	8.08	4.00	3.45	78.16		0	PHOENIX
1	MWD TOOL	8 1/16	6.05	8.53	74.71		0	PHOENIX
1	MWD TOOL	8.2	4.85	3.72	66.18		0	PHOENIX
1	MWD TOOL	8	2.82	2.82	62.46		0	PHOENIX
1	DRILL COLLAR - PONY, NON MAG	7.88	2.81	14.41	59.64		0	AMEGA WEST
1	STABILIZER	8.24	2.94	7.28	45.23		0	AMEGA WEST
1	MOTOR - STABILIZER SLEEVE	9	0.10	36.45	37.95		0	PHOENIX

Mud Motors

SN	Bend Angle	Bearing Type	Lobe Config	# Stages	Lwr DefIn Type	Bit To Bend
PHX-900-030	1.83	NOT SEALED	7:8	7		6.83

Sensors

Sensor Type	Sensor-Bit (ft)	Note
GAMMA	67.74	
DIRECTIONAL	71.00	

Drilling Parameters

Start Time	End Time	Start Depth (ftKB)	Int Depth (ft)	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	ROP Average (ft/hr)	Drill Str Wt (1000lbf)	PU Str Wt (1000lbf)	SO Str Wt (1000lbf)	Off-Btm Str Wt (1000lbf)	Drill Tq	Off Btm Tq	TFO (°)
06:00	06:30	1,116.0	30.00	60.0	35	60	750.0	850	2,900.0	325.0	105	110	100	105	12,000.0	5,500.0	0
06:30	06:45	1,146.0	10.00	40.0	20	0	375.0	850	2,750.0	125.0	105	110	100	105	0.0	0.0	244
06:45	07:00	1,156.0	51.00	204.0	35	60	750.0	900	3,450.0	375.0	115	120	105	115	12,000.0	6,500.0	0
07:00	07:15	1,207.0	10.00	40.0	20	0	350.0	900	2,750.0	125.0	115	120	105	115	0.0	0.0	244
07:15	07:30	1,217.0	80.00	320.0	35	60	800.0	900	3,450.0	375.0	115	120	105	115	12,500.0	7,000.0	0
07:30	07:45	1,297.0	10.00	40.0	25	0	350.0	900	2,750.0	125.0	115	120	105	115	0.0	0.0	0
07:45	08:00	1,307.0	81.00	324.0	35	60	800.0	900	3,450.0	375.0	115	120	105	115	12,500.0	7,000.0	0
08:00	08:15	1,388.0	10.00	40.0	25	0	350.0	900	2,750.0	125.0	115	120	105	115	0.0	0.0	0
08:15	08:30	1,398.0	81.00	324.0	35	60	800.0	900	3,525.0	350.0	120	130	110	120	12,500.0	7,500.0	0
08:30	08:45	1,479.0	10.00	40.0	25	0	325.0	900	2,950.0	125.0	120	130	110	120	0.0	0.0	0
08:45	09:00	1,489.0	83.00	332.0	35	60	800.0	900	3,500.0	325.0	120	130	110	120	12,500.0	7,500.0	0
09:00	09:15	1,572.0	10.00	40.0	25	0	325.0	900	2,950.0	100.0	120	130	110	120	0.0	0.0	0
09:15	10:00	1,582.0	90.00	120.0	35	60	800.0	900	3,500.0	325.0	120	130	110	120	12,500.0	7,500.0	0
10:00	10:45	1,672.0	0.00		0	0	0.0	900	850.0	0.0	120	130	110	120	0.0	0.0	0
10:45	11:00	1,672.0	85.00	340.0	35	60	500.0	830	3,000.0	230.0	120	130	110	120	15,500.0	7,500.0	0
11:00	11:15	1,757.0	10.00	40.0	25	0	300.0	830	2,750.0	100.0	120	130	110	120	0.0	0.0	0
11:15	12:45	1,767.0	273.00	182.0	35	40	650.0	830	3,000.0	300.0	120	130	110	120	16,500.0	7,500.0	0
12:45	13:45	2,040.0	0.00		0	0	0.0	450	850.0	0.0	120	130	110	120	0.0	0.0	0
13:45	15:30	2,040.0	265.00	151.4	35	50	800.0	900	3,450.0	275.0	120	130	110	120	16,500.0	7,500.0	0

Daily Drilling Report

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Printed: Monday, August 9, 2021

Daily Drilling Report

Drilling Parameters																				
Start Time	End Time	Start Depth (ftKB)	Int Depth (ft)	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	ROP Average (ft/hr)	Drill Str Wt (1000lbf)	PU Str Wt (1000lbf)	SO Str Wt (1000lbf)	Off-Btm Str Wt (1000lbf)	Drill Tq	Off Btm Tq	TFO (°)			
15:30	15:45	2,305.0	10.00	40.0	25	0	350.0	900	3,125.0	125.0	120	130	110	120	0.0	0.0	220			
15:45	16:45	2,315.0	294.00	294.0	35	50	1,100.0	900	3,500.0	325.0	120	130	110	120	16,500.0	7,500.0	0			
16:45	17:00	2,609.0	10.00	40.0	25	0	375.0	900	3,675.0	125.0	140	150	135	140	0.0	0.0	215			
17:00	18:45	2,619.0	464.00	265.1	25	55	1,300.0	900	4,300.0	400.0	150	160	140	150	16,500.0	7,500.0	0			
18:45	19:00	3,083.0	12.00	48.0	15	0	300.0	900	3,300.0	75.0	150	160	140	150	0.0	0.0	30			
19:00	20:00	3,095.0	272.00	272.0	60	55	1,300.0	900	4,300.0	300.0	150	160	140	150	22,000.0	7,500.0	0			
20:00	20:30	3,367.0	18.00	36.0	35	0	300.0	900	3,300.0	60.0	150	160	140	150	0.0	0.0	30			
20:30	23:00	3,385.0	469.00	187.6	60	55	1,000.0	900	4,000.0	300.0	165	180	145	165	22,000.0	7,500.0	0			
23:00	23:15	3,854.0	12.00	48.0	40	0	250.0	900	4,000.0	60.0	165	180	145	165	0.0	0.0	200			
23:15	02:30	3,866.0	577.00	177.5	60	55	1,100.0	900	4,100.0	200.0	165	180	145	165	22,000.0	6,500.0	0			
02:30	03:00	4,443.0	20.00	40.0	30	0	275.0	900	4,300.0	60.0	165	180	145	165	0.0	0.0	150			
03:00	06:00	4,463.0	356.00	118.7	60	55	1,100.0	900	4,300.0	150.0	165	180	145	165	22,000.0	6,500.0	0			
Hydraulic Calculations																				
Dens Mud (lb/gal)		ECD End (lb/gal)		Bit Hydraulic Power (hp)		HP/Area (hp/in²)		Jet Vel (ft/s)		Bit dP (psi)		Min Open Hole AV (ft/min)		Max Open Hole AV (ft/min)		Vol DrillString (bbl)		Vol Bit to Shoe (bbl)		Vol Shoe to Top (bbl)
10.10		10.13		488.1		4.1		318.8		929.7		25.2		319.4		70.68		440.08		123.37
Mud Checks																				
Time 23:55		Mud Company PIONEER DRILLING FLUIDS					Type WATER BASE			Depth (ftKB) 3,950.0		Density (lb/gal) 10.10		Funnel Viscosity (s/qt) 28		T Flowline (°F) 98.0				
PV (cP) 1.0		YP (lb/100ft²) 2.000		Vis 3rpm 1		Vis 6rpm 1		Filtrate (mL/30min) 0.0			HTHP Filtrate (mL/30min)			HTHP Temperature (°F)			HTHP Pressure (psi)			
Solids (%) 13.0				Low Gravity Solids (%) 3.9			Sand (%) 0.0			MBT (lb/bbl) 0.0			Pm (mL/mL) 0.100			Pf (mL/mL)				
Chlorides (mg/L) 150,000				Calcium (mg/L) 2,100			CaCl (ppm)		Oil Water Ratio 0/100			Electric Stab (V)			Lime (lb/bbl)			pH 9.0		
Gel 10 sec (lb/100ft²) 1.000							Gel 10 min (lb/100ft²) 1.000							Gel 30 min (lb/100ft²) 1.000						
Comment																				
Last BOP Test																				
Date		Test Type				Item Tested				Next Test Date		Com								
8/7/2021		BOP				BOP'S, 8/5/2021 04:30, <class>				8/28/2021										
Leak Off and Formation Integrity Tests																				
Test Type						Depth (ftKB)						Dens Fluid (lb/gal)								
FORMATION INTEGRITY						1,009.0						12.57								
Casing Pressure Test																				
Test Type				Test Subtype				Date		Item Tested				Failed?	Time (min)		P (psi)			
CASING				STANDARD				7/23/2021		SURFACE, 968.3ftKB				No	30.00		1,000.0			
Kick Offs & Key Depths																				
Date						Type						Top Depth (ftKB)				Depth Top (TVD) (ftKB)				
Casing Strings																				
Description		Set Depth (ftKB)		Set Depth (TVD) (ftKB)		OD (in)		Grade		Wt/Len (lb/ft)		Top Thread		P LeakOff (psi)						
CONDUCTOR		106.5		106.5		20		H40		78.67										
SURFACE		968.3		967.9		13 3/8		J55		54.50		BTC		658.7						
Gas Emissions - Flare																				
Type		Method		Dur (min)		Amount		Units		Com										
Job Supply Amounts																				
Supply Item Des			Type	Unit Label		Received		Consumed		Returned	Note					Cum On Loc		Cum Consumed		
Mud Additive Amounts																				
Des				Type		Units		Rec		Consumed		On Loc		Cum Cons						
BARAZAN D PLUS				VISCOSIFIER		SACK		40		17		23.0		17						
EZ MUD				OIL MUD ADDITIVE		CAN		32		2		30.0		2						
LIME				ALKALINITY CONTROL		SACK		100		21		79.0		21						
ZEOGEL				SPECIALITY		SACK		200		48		152.0		48						
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			6,335.0					
2	GARDNER-DENVER					PZ-11-1600		5 1/2		11.00		0.081			6,335.0					
3	GARDNER-DENVER					PZ-11-1600		5 1/2		11.00		0.081			6,335.0					
Daily Drilling Report																				

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Printed: Monday, August 9, 2021

Daily Drilling Report

UTL 1308J 3814H

H & P - 650

Accept: 8/5/2021 Release:

Days Since LTI: 76.00 Days Since RI: 134.00

DELAWARE

Job: ODR

Report Date: 8/9/2021

Report #: 7

DFS: 5

AFE #: 9015117

Total AFE + Sup: \$4,368,347.65

Daily Field Est. (Cost): \$76,350.60

Pump Checks							
Pump #	Depth (ftKB)	Time	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)	
1	4,502.0	03:00	240.0	40	129	95	
1	4,502.0	03:00	315.0	60	193	95	
1	4,502.0	03:00	270.0	50	161	95	
2	4,502.0	03:00	235.0	30	97	95	
2	4,502.0	04:05	260.0	40	129	95	
2	4,502.0	04:05	300.0	50	161	95	
Deviation Surveys							
Date		Description				Job	
		FINAL SURVEY					
Date		Description				Job	
7/14/2021		AS DRILL SURVEY				ODR, 7/13/2021 00:00	
Survey Data - All surveys for 24 hr reporting period							
MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
1,136.00	3.76	231.39	1,135.32	-28.93	-12.57	-26.46	0.70
1,226.00	5.20	237.96	1,225.04	-35.58	-16.58	-32.23	1.70
1,317.00	6.54	242.87	1,315.56	-44.64	-21.13	-40.34	1.57
1,408.00	7.82	246.96	1,405.85	-55.88	-25.91	-50.65	1.51
1,501.00	9.04	247.63	1,497.84	-69.43	-31.17	-63.22	1.32
1,591.00	10.28	246.51	1,586.56	-84.43	-37.06	-77.13	1.39
1,686.00	10.48	246.21	1,680.01	-101.41	-43.93	-92.81	0.22
1,780.00	11.48	245.52	1,772.29	-119.14	-51.25	-109.14	1.07
1,875.00	11.97	245.11	1,865.30	-138.24	-59.31	-126.69	0.52
1,969.00	12.17	245.85	1,957.23	-157.69	-67.47	-144.57	0.27
2,064.00	12.42	245.93	2,050.05	-177.74	-75.73	-163.03	0.26
2,159.00	12.70	247.08	2,142.77	-198.23	-83.97	-181.98	0.40
2,254.00	12.91	247.36	2,235.41	-219.15	-92.12	-201.39	0.23
2,348.00	12.08	244.44	2,327.18	-239.30	-100.41	-219.96	1.11
2,443.00	12.01	243.70	2,420.09	-258.84	-109.07	-237.79	0.18
2,538.00	12.17	244.09	2,512.99	-278.45	-117.83	-255.65	0.19
2,632.00	11.60	244.72	2,604.97	-297.55	-126.19	-273.11	0.62
2,727.00	11.41	245.19	2,698.06	-316.28	-134.22	-290.28	0.22
2,822.00	11.30	244.66	2,791.20	-334.77	-142.14	-307.22	0.16
2,917.00	11.34	244.56	2,884.35	-353.18	-150.14	-324.07	0.05
3,012.00	11.26	243.64	2,977.51	-371.53	-158.27	-340.81	0.21
3,106.00	11.83	244.50	3,069.61	-390.08	-166.49	-357.73	0.63
3,201.00	11.81	243.53	3,162.60	-409.26	-175.02	-375.22	0.21
3,296.00	11.26	241.29	3,255.68	-427.89	-183.81	-392.06	0.75
3,391.00	12.30	243.18	3,348.68	-446.90	-192.83	-409.23	1.17
3,486.00	12.75	244.18	3,441.42	-467.19	-201.96	-427.69	0.53
3,580.00	13.16	245.09	3,533.02	-488.00	-210.98	-446.74	0.49
3,675.00	13.43	245.02	3,625.48	-509.59	-220.20	-466.54	0.28
3,770.00	13.54	245.42	3,717.86	-531.50	-229.48	-486.66	0.15
3,864.00	12.83	244.43	3,809.38	-552.69	-238.56	-506.08	0.79
3,959.00	12.62	244.13	3,902.05	-573.34	-247.65	-524.93	0.23
4,054.00	12.65	242.75	3,994.74	-593.78	-256.94	-543.52	0.32
4,149.00	12.37	241.68	4,087.49	-613.95	-266.53	-561.72	0.38
4,244.00	12.39	239.83	4,180.28	-633.80	-276.48	-579.49	0.42
4,338.00	12.40	239.08	4,272.09	-653.35	-286.73	-596.87	0.17
4,433.00	11.29	239.29	4,365.07	-672.23	-296.72	-613.62	1.17
4,527.00	10.57	237.87	4,457.36	-689.44	-306.01	-628.83	0.82
Formations							
Formation Name			Prog Top (TVD SS) Override (ft(elv))	Prog Top MD (ftKB)	Prog Top (TVD) (ftKB)	Final Top MD (ftKB)	Final Top (TVD) (ftKB)
263_BELL CANYON			-2,340.0		5,070.5		
263_5_TOP_CHERRY_CANYON			-3,230.0		5,960.5		
264_5_TOP_BRUSHY_CANYON			-4,505.0		7,235.5		
264_AVLN			-5,360.0		8,090.5		
ALT_ICP1			-5,560.0		8,290.5		
265_BSPG1			-5,790.0		8,520.5		
267_BSPG2			-7,160.0		9,890.5		
268_BSPG3			-7,630.0		10,360.5		
268_PHANTOM FIELD TOP			-7,630.0		10,360.5		
ICP1			-7,780.0		10,510.5		
268_BSPG3 BASE CARBONATE			-8,170.0		10,900.5		
TOT			-8,340.0		11,070.5		
BOT			-8,390.0		11,120.5		
FTP			-8,365.0		11,095.5		
PBHL/TD			-8,150.0		10,880.5		
Daily Contacts							
Job Contact		Title	Office	Mobile	Email		
HARDIN, JOE, AREA DRILLING SUPERINTENDENT		AREA DRILLING SUPERINTENDENT	361-452-2118	361-318-8762	THOMAS.HARDIN@PXD.COM		
KUMAR, DEV, ENGINEER		ENGINEER		469-865-6956	DEV.KUMAR@PXD.COM		
BROWN, DAN, SUPERINTENDENT		SUPERINTENDENT		469-203-9731	DAN.BROWN@PXD.COM		
Daily Drilling Report			Page 4/5		Printed: Monday, August 9, 2021		

Daily Drilling Report

H & P - 650	
Accept: 8/5/2021	Release:
Days Since LTI: 76.00	Days Since RI: 134.00

Job:	ODR
Report Date:	8/9/2021
Report #:	7
DFS:	5
AFE #:	9015117
Total AFE + Sup:	\$4,368,347.65
Daily Field Est. (Cost):	\$76,350.60

[illegible]

Daily Drilling Report

UTL 1308J 3814H				DELAWARE	
H & P - 650				Job:	ODR
Accept: 8/5/2021				Report Date:	8/10/2021
Days Since LTI: 77.00				Report #:	8
Release:				DFS:	6
Days Since RI: 135.00				AFE #:	9015117
				Total AFE + Sup:	\$4,368,347.65
				Daily Field Est. (Cost):	\$95,925.75

API/UWI 42-475-38230-0000		Well Profile HORIZONTAL		Open Formation BONE SPRING 3 (BSPG 3)		Field Name SPRABERRY (TREND AREA)									
SSN ID00056173		Property Sub		KB-Grd (ft) 26.50		Orig KB Elev (ft) 2,730.50		Ground Elevation (ft) 2,704.00		Spud Date 7/13/2021		TD Date			
Jobs															
Responsible Grp 2		Responsible Grp 3			Job Type		Start Date			End Date		Job Status			
DRL ENG - ALEXANDER LINDBLAD		AREA TEAM 1			ODR		7/13/2021 00:00					IN PROGRESS			
Job Dates (ex. Estimated Pad Release, TXRRC Calls)															
Type				Subtype			Date			Note					
MILESTONE				ESTIMATED PAD RELEASE			10/30/2021			Drilling intermediate on 1st well of 3 well pad, drilling sequentially.					
Daily Operations															
Footage/Meterage (ft) 2,810.00		Drilling Hours (hr) 24.00		% Rotating Time (%) 86.46		End Depth (ftKB) 7,629.0		Target Depth (ftKB) 21,797.0		Daily Field Est Total (Cost) 95,925.75		Cum Field Est To Date (Cost) 659,735.51			
24 HR ROP (ft/hr) 117.1		Circulating Hours (hr)		% Sliding Time (%) 13.54		End Depth (TVD) (ftKB) 7,553.0		Target Depth (TVD) (ftKB) 10,880.1		Daily Mud Field Est (Cost) 2,851.20		Cum Mud Field Est (Cost) 4,604.25		Total AFE + Sup (Cost) 4,368,347.65	
Daily Goal Description DRILLED FEET				Daily Goal - Last 24 2,000.0				Daily Goal - Next 24 721.0				Goal Comments Goal met			
Backbuild		Lateral Inclination		Last Casing String SURFACE, 968.3ftKB					Next Casing String PROPOSED INTERMEDIATE, 8,350.0ftKB						
Avg Connection Gas 63.00			Avg Trip Gas 57.00			Avg Background Gas 150.00			Max Connection Gas 198.00			Max Trip Gas 201.00		Max Drill Gas 469.00	
Operations Summary Drill 12.25" int F/ 4,819' T/ 6,881', Service rig, Drill 12.25" int F/ 6,881' T/ 7,629'. Losses began at 6,975', Loosing approx 200 bbls/hr.Pumping 30 bbl, 30 ppb LCM pills every stand. Drilling with reduced parameters due to losses															
(13.54% Sliding, 12.0° tangent, 19.0' below, 22' left															
Operations Next Report Period Drill intermediate hole section to 8,350 +/- casing point, Circ hole clean, TOO H to run 9 5/8' casing w/ no HSE events															
Operations at Report Time Drlg Int 1 @ 7,629', Losses approx 200 bbl/hr															
Remarks Rig NPT - Well: 1.0 Total hrs 3rd Party NPT Well: 0 Total hrs Pioneer NPT Well: 0 Total hr 1 hrs															
Surf-100%, INT1- 96.8%, INT2- 0%, Curve- 0%, Prod- 0%															
Time Log															
Start Time	Dur (hr)	End Time	Phase	Operation	Ops Category	Com				Start Depth (ftKB)	End Depth (ftKB)	Prob Hrs (hr)	Prob Ref #		
06:00	13	19:00	INT, DRL	DRL	NORMAL	Drill Int f/ 4,819' T/ 6,881', 2062' @ 158.6 fph, No flows, gas or loses observed after topping the Cherry. Reduced parameters 130' prior to Cherry top to 35 rpm, 45k wob & 700 gpm. Returns to full parameters 100' below top. Dump & Dilute to maintain a 10.0#+- MW, running centrifuge non stop. Pumping sweeps every other stand.				4,819.0	6,881.0				
19:00	0.5	19:30	INT, DRL	RIG_SVC	NORMAL	Rig service, Drop inspection				6,881.0	6,881.0				
19:30	10.5	06:00	INT, DRL	DRL	NORMAL	Drill Int f/ 6,881' T/ 7,629', 748' @ 71.23 fph, Dump & Dilute to maintain a 10.0#+- MW, running centrifuge non stop. Pumping sweeps every stand. Note: Partial losses began at 6,975'. Losses approx 200 bbls per hour. Pumping 20-30 bbl LCM pills with 20-30 PPB LCM. Drilling with reduced parameters due to losses				6,881.0	7,629.0	9.50	5		
Interval Problems															
RIG, 2,142.0ftKB, 8/8/2021 14:15															
Ref #	Dur (N...)	Ex...	Subtype	Problem Descript...	Est Cost OR (Cost)	Accountable Party			Comment						
4		Ye	PIPE HANDLING	TONGS		HELMERICH & PAYNE INTERNATIONAL DRILLING CO			Blew two hose on ST-80, drilling at reduced ROP while making repairs.						
DOWNHOLE CONDITIONS, 6,975.0ftKB, 8/9/2021 20:30															
Ref #	Dur (N...)	Ex...	Subtype	Problem Descript...	Est Cost OR (Cost)	Accountable Party			Comment						
5		No	WELLBORE	LOST CIRCULATIO N		PIONEER NATURAL RESOURCES USA INC			Seepage began at 6,975' (Approx 200 bbl/hr)						
Drill Strings															
BHA #2 , INTERMEDIATE															
Bit Run 2				Drill Bit 12 1/4in, SPL 616, 56313					Bit Type PDC			Make ULTERRA			
Nozzles (1/32") 11/11/11/11/11/12/12/12				Bit Total Fluid Area (nozzles) (in²) 0.91			IADC Bit Dull -----			Hours Drilled By Bit (hr) 46.50		Depth Drilled By Bit (ft) 6,523.00			
BHA Drilling Time (hr) 46.50				BHA Depth Drilled (ft) 6,523.00			BHA ROP (ft/hr) 140.3			Depth In (ftKB) 999.0		Depth Out (ftKB) 7,629.0			
Drill String Components															
Jts	Item Des				OD (in)	ID (in)	Len (ft)	Cum Len (ft)	Wt (lbf)	Cum Wt (1000lbf)	Make				
189	DRILL PIPE				5	4.28	5,966.20	7,629.00	116,340.9	191					
5	HWDP				6 1/2	3.00	151.12	1,662.80	7,450.2	75	RIG				
1	DRILLING JARS - HYDRAULIC				6.63	2.88	31.77	1,511.68		67	KNIGHT OIL TOOLS LLC				
45	HWDP				6 1/2	3.00	1,364.39	1,479.91	67,264.4	67	RIG				
1	SUB - XO				7.84	2.81	3.30	115.52		0	AMEGA WEST				
Daily Drilling Report															
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Printed: Tuesday, August 10, 2021															

Daily Drilling Report

UTL 1308J 3814H

H & P - 650

Accept: 8/5/2021 Release:

Days Since LTI: 77.00 Days Since RI: 135.00

DELAWARE

Job: ODR

Report Date: 8/10/2021

Report #: 8

DFS: 6

AFE #: 9015117

Total AFE + Sup: \$4,368,347.65

Daily Field Est. (Cost): \$95,925.75

Drill String Components																					
Jts	Item Des			OD (in)		ID (in)		Len (ft)		Cum Len (ft)		Wt (lbf)		Cum Wt (1000lbf)		Make					
1	SUB - SHOCK			8		3.25		26.77		112.22				0		COUGAR					
1	STABILIZER			8		3.25		7.29		85.45				0		AMEGA WEST					
1	MWD TOOL			8.08		4.00		3.45		78.16				0		PHOENIX					
1	MWD TOOL			8 1/16		6.05		8.53		74.71				0		PHOENIX					
1	MWD TOOL			8.2		4.85		3.72		66.18				0		PHOENIX					
1	MWD TOOL			8		2.82		2.82		62.46				0		PHOENIX					
1	DRILL COLLAR - PONY, NON MAG			7.88		2.81		14.41		59.64				0		AMEGA WEST					
1	STABILIZER			8.24		2.94		7.28		45.23				0		AMEGA WEST					
1	MOTOR - STABILIZER SLEEVE			9		0.10		36.45		37.95				0		PHOENIX					
Mud Motors																					
SN		Bend Angle		Bearing Type		Lobe Config		# Stages		Lwr Defln Type		Bit To Bend									
PHX-900-030		1.83		NOT SEALED		7:8		7				6.83									
Sensors																					
Sensor Type				Sensor-Bit (ft)						Note											
GAMMA				67.74																	
DIRECTIONAL				71.00																	
Drilling Parameters																					
Start Time	End Time	Start Depth (ftKB)	Int Depth (ft)	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	ROP Average (ft/hr)	Drill Str Wt (1000lbf)	PU Str Wt (1000lbf)	SO Str Wt (1000lbf)	Off-Btm Str Wt (1000lbf)	Drill Tq	Off Btm Tq	TFO (°)				
06:00	06:30	4,819.0	63.00	126.0	60	55	1,000.0	900	4,050.0	185.0	190	205	170	190	22,500.0	8,500.0	0				
06:30	06:45	4,882.0	20.00	80.0	30	0	350.0	900	3,650.0	60.0	190	205	170	190	0.0	0.0	150				
06:45	07:15	4,902.0	75.00	150.0	60	55	950.0	900	4,050.0	185.0	190	205	170	190	22,500.0	8,500.0	0				
07:15	07:45	4,977.0	20.00	40.0	30	0	350.0	900	3,600.0	55.0	190	205	170	190	0.0	0.0	150				
07:45	08:30	4,997.0	84.00	112.0	60	55	950.0	900	4,050.0	185.0	190	205	170	190	22,500.0	8,500.0	0				
08:30	08:45	5,081.0	30.00	120.0	30	0	350.0	900	3,600.0	55.0	190	205	170	190	0.0	0.0	180				
08:45	09:45	5,111.0	65.00	65.0	50	55	650.0	900	4,050.0	350.0	190	205	170	190	19,500.0	7,500.0	0				
09:45	10:00	5,176.0	24.00	96.0	30	0	325.0	900	3,650.0	100.0	190	205	170	190	0.0	0.0	180				
10:00	10:30	5,200.0	61.00	122.0	50	55	750.0	900	4,050.0	350.0	190	205	170	190	19,500.0	7,500.0	0				
10:30	10:45	5,261.0	23.00	92.0	30	0	325.0	900	3,650.0	100.0	190	205	170	190	0.0	0.0	80				
10:45	11:45	5,284.0	271.00	271.0	50	55	850.0	900	4,050.0	365.0	190	205	170	190	19,500.0	8,500.0	0				
11:45	12:30	5,555.0	18.00	24.0	30	0	300.0	900	3,650.0	100.0	190	205	170	190	0.0	0.0	70				
12:30	16:45	5,573.0	938.00	220.7	60	55	1,300.0	900	4,400.0	150.0	190	205	170	190	23,000.0	8,500.0	0				
16:45	17:00	6,511.0	15.00	60.0	30	0	300.0	900	3,700.0	60.0	200	215	170	200	0.0	0.0	120				
17:00	18:00	6,526.0	163.00	163.0	60	60	1,300.0	900	4,400.0	200.0	200	215	170	200	24,000.0	8,500.0	0				
18:00	18:15	6,689.0	10.00	40.0	36	0	300.0	900	3,700.0	40.0	200	215	170	200	0.0	0.0	70				
18:15	19:30	6,699.0	182.00	145.6	30	60	1,100.0	900	4,400.0	300.0	200	215	170	200	24,000.0	8,500.0	0				
19:30	20:00	6,881.0	15.00	30.0	33	0	300.0	900	3,700.0	20.0	200	215	170	200	0.0	0.0	30				
20:00	06:00	6,896.0	733.00	73.3	38	60	500.0	600	2,300.0	80.0	200	215	170	200	16,000.0	8,500.0	0				
Hydraulic Calculations																					
Dens Mud (lb/gal)		ECD End (lb/gal)		Bit Hydraulic Power (hp)		HP/Area (hp/in²)		Jet Vel (ft/s)		Bit dP (psi)		Min Open Hole AV (ft/min)		Max Open Hole AV (ft/min)		Vol DrillString (bbl)		Vol Bit to Shoe (bbl)		Vol Shoe to Top (bbl)	
9.70		9.71		138.9		1.2		212.5		396.8		16.8		212.9		120.68		781.47		123.37	

Daily Drilling Report

UTL 1308J 3814H				DELAWARE	
H & P - 650				Job:	ODR
Accept: 8/5/2021				Report Date:	8/10/2021
Days Since LTI: 77.00				Report #:	8
Release:				DFS:	6
Days Since RI: 135.00				AFE #:	9015117
				Total AFE + Sup:	\$4,368,347.65
				Daily Field Est. (Cost):	\$95,925.75

Mud Checks										
Time 23:55		Mud Company PIONEER DRILLING FLUIDS			Type WATER BASE	Depth (ftKB) 7,304.0	Density (lb/gal) 9.70	Funnel Viscosity (s/qt) 28	T Flowline (°F) 130.0	
PV (cP) 1.0	YP (lb/100ft²) 1.000	Vis 3rpm 1	Vis 6rpm 1	Filtrate (mL/30min) 0.0		HTHP Filtrate (mL/30min)		HTHP Temperature (°F)	HTHP Pressure (psi)	
Solids (%) 12.3		Low Gravity Solids (%) 0.3		Sand (%) 0.1		MBT (lb/bbl) 0.0		Pm (mL/mL) 0.300	Pf (mL/mL)	
Chlorides (mg/L) 175,000		Calcium (mg/L) 2,100		CaCl (ppm)	Oil Water Ratio 0/100		Electric Stab (V)		Lime (lb/bbl) pH 11.0	
Gel 10 sec (lb/100ft²) 1.000				Gel 10 min (lb/100ft²) 1.000			Gel 30 min (lb/100ft²) 1.000			
Comment Maintain mw of 9.6-9.8 ppg in active pits with brine water & fresh water. Add lime as needed for a pH of 9.5-10.5. High viscosity sweeps: 80 bbls brine water, 16 sacks of Zeo Gel, 5 sx Barazan D Plus, 3 sxs soda ash 16 sxs CArb 150 & 600; stop it 8 sxs; barofiber 8 sxs. Pump 30 bbls every other stand or as directed by co man.										
Last BOP Test										
Date	Test Type		Item Tested		Next Test Date	Com				
8/7/2021	BOP		BOP'S, 8/5/2021 04:30, <class>		8/28/2021					
Leak Off and Formation Integrity Tests										
Test Type			Depth (ftKB)			Dens Fluid (lb/gal)				
FORMATION INTEGRITY			1,009.0			12.57				
Casing Pressure Test										
Test Type		Test Subtype		Date	Item Tested		Failed?	Time (min)	P (psi)	
CASING		STANDARD		7/23/2021	SURFACE, 968.3ftKB		No	30.00	1,000.0	
Kick Offs & Key Depths										
Date		Type			Top Depth (ftKB)		Depth Top (TVD) (ftKB)			
Casing Strings										
Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)			
CONDUCTOR	106.5	106.5	20	H40	78.67					
SURFACE	968.3	967.9	13 3/8	J55	54.50	BTC	658.7			
Gas Emissions - Flare										
Type	Method	Dur (min)	Amount	Units	Com					
Job Supply Amounts										
Supply Item Des		Type	Unit Label	Received	Consumed	Returned	Note		Cum On Loc	Cum Consumed
DIESEL		FUEL	GAL		3,477				5,212	8,598.0
Mud Additive Amounts										
Des		Type	Units	Rec	Consumed	On Loc	Cum Cons			
BA. TTRANSPORTATION		MISCELLANEOUS	EA	1	1	0.0	1			
BA.FORKLIFT 8000 LB W/OPR		MISCELLANEOUS	EA	1	1	0.0	1			
BARACARB 150		LOST CIRCULATION	SACK		48	12.0	48			
BARACARB 600		LOST CIRCULATION	SACK		48	12.0	48			
BARAZAN D PLUS		VISCOSIFIER	SACK		3	20.0	20			
BAROFIBRE		LOST CIRCULATION	SACK		8	52.0	8			
EZ MUD		OIL MUD ADDITIVE	CAN		1	29.0	3			
LIME		ALKALINITY CONTROL	SACK		24	55.0	45			
SODA ASH		ALKALINITY CONTROL	EA	49	14	35.0	14			
STOPPIT		LOST CIRCULATION	SACK		16	32.0	16			
ZEOGEL		SPECIALITY	SACK		37	115.0	85			
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	6,335.0		
2	GARDNER-DENVER			PZ-11-1600	5 1/2	11.00	0.081	6,335.0		
3	GARDNER-DENVER			PZ-11-1600	5 1/2	11.00	0.081	6,335.0		
Pump Checks										
Pump #	Depth (ftKB)	Time	P (psi)	Strokes (spm)	Q Flow (gpm)		Eff (%)			
1	7,532.0	03:20	315.0	30	97		95			
1	7,532.0	03:20	355.0	40	129		95			
1	7,532.0	03:20	380.0	50	161		95			
2	7,532.0	03:20	320.0	30	97		95			
2	7,532.0	03:20	357.0	40	129		95			
2	7,532.0	03:20	387.0	50	161		95			
Deviation Surveys										
Date		Description FINAL SURVEY						Job		
Date 7/14/2021		Description AS DRILL SURVEY						Job ODR, 7/13/2021 00:00		
Survey Data - All surveys for 24 hr reporting period										
MD (ftKB)		Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)		
4,906.00		7.37	249.38	4,831.43	-748.73	-333.82	-682.47	1.24		
Daily Drilling Report					Page 3/4		Printed: Tuesday, August 10, 2021			

Daily Drilling Report

H & P - 650	
Accept: 8/5/2021	Release:
Days Since LTI: 77.00	Days Since RI: 135.00

Job:	ODR
Report Date:	8/10/2021
Report #:	8
DFS:	6
AFE #:	9015117
Total AFE + Sup:	\$4,368,347.65
Daily Field Est. (Cost):	\$95,925.75

Formations					
Formation Name	Prog Top (TVD SS) Override (ft(elv))	Prog Top MD (ftKB)	Prog Top (TVD) (ftKB)	Final Top MD (ftKB)	Final Top (TVD) (ftKB)
264_AVLN	-5,360.0		8,090.5		
ALT_ICP1	-5,560.0		8,290.5		
265_BSPG1	-5,790.0		8,520.5		
267_BSPG2	-7,160.0		9,890.5		
268_BSPG3	-7,630.0		10,360.5		
268_PHANTOM FIELD TOP	-7,630.0		10,360.5		
ICP1	-7,780.0		10,510.5		
268_BSPG3 BASE CARBONATE	-8,170.0		10,900.5		
TOT	-8,340.0		11,070.5		
BOT	-8,390.0		11,120.5		
FTP	-8,365.0		11,095.5		
PBHL/TD	-8,150.0		10,880.5		

Daily Contacts				
Job Contact	Title	Office	Mobile	Email
HARDIN, JOE, AREA DRILLING SUPERINTENDENT	AREA DRILLING SUPERINTENDENT	361-452-2118	361-318-8762	THOMAS.HARDIN@PXD.COM
KUMAR, DEV, ENGINEER	ENGINEER		469-865-6956	DEV.KUMAR@PXD.COM
BROWN, DAN, SUPERINTENDENT	SUPERINTENDENT		469-203-9731	DAN.BROWN@PXD.COM
JOHNSON, STEVEN, SUPERINTENDENT	SUPERINTENDENT		580-504-9863	STEVEN.JOHNSON@PXD.COM
CREEL, GREG, WELLSITE SUPERVISOR	WELLSITE SUPERVISOR		307-461-0366	GREG.CREEL@PXD.COM
THOMPSON, SCOTT, WELLSITE SUPERVISOR	WELLSITE SUPERVISOR		432-934-9393	SCOTT.THOMPSON@PXD.COM
TRUPE, CODY, MUD ENGINEER	MUD ENGINEER		405-664-3414	CODY.TRUPE@PXD.COM
RIG-H&P 650, RIG PHONE	RIG PHONE	432-538-3406		DL-HP650@PXD.COM

Personnel Log	
Company	Count
PIONEER NATURAL RESOURCES USA INC	3
HELMERICH & PAYNE INTERNATIONAL DRILLING CO	13
PHOENIX TECHNOLOGY SERVICES USA INC	4
AERION RENTAL SERVICES	1
STRATAGRAPH INC	2
SAFETY AUTOMATION TECHNOLOGY LLC	2

Daily Drilling Report

UTL 1308J 3814H				DELAWARE	
H & P - 650				Job:	ODR
Accept: 8/5/2021				Report Date:	8/11/2021
Days Since LTI: 78.00				Report #:	9
Release:				DFS:	7
Days Since RI: 136.00				AFE #:	9015117
				Total AFE + Sup:	\$4,368,347.65
				Daily Field Est. (Cost):	\$109,790.72

P/I/UWI 42-475-38230-0000		Well Profile HORIZONTAL		Open Formation BONE SPRING 3 (BSPG 3)		Field Name SPRABERRY (TREND AREA)											
SSN ID00056173		Property Sub		KB-Grd (ft) 26.50	Orig KB Elev (ft) 2,730.50	Ground Elevation (ft) 2,704.00	Spud Date 7/13/2021	TD Date									
Jobs																	
Responsible Grp 2		Responsible Grp 3		Job Type		Start Date		End Date		Job Status							
DRL ENG - ALEXANDER LINDBLAD		AREA TEAM 1		ODR		7/13/2021 00:00				IN PROGRESS							
Job Dates (ex. Estimated Pad Release, TXRRC Calls)																	
Type				Subtype		Date		Note									
MILESTONE				ESTIMATED PAD RELEASE		10/30/2021		Drilling intermediate on 1st well of 3 well pad, drilling sequentially.									
Daily Operations																	
Footage/Meterage (ft) 394.00		Drilling Hours (hr) 7.75		% Rotating Time (%) 64.52		End Depth (ftKB) 8,023.0		Target Depth (ftKB) 21,797.0		Daily Field Est Total (Cost) 109,790.72		Cum Field Est To Date (Cost) 773,002.63					
24 HR ROP (ft/hr) 50.8		Circulating Hours (hr) 2.00		% Sliding Time (%) 35.48		End Depth (TVD) (ftKB) 7,946.9		Target Depth (TVD) (ftKB) 10,880.1		Daily Mud Field Est (Cost) 6,553.85		Cum Mud Field Est (Cost) 11,158.10		Total AFE + Sup (Cost) 4,368,347.65			
Daily Goal Description DRILLED FEET				Daily Goal - Last 24 721.0				Daily Goal - Next 24 327.0				Goal Comments Goal not met due to trip for motor					
Backbuild		Lateral Inclination		Last Casing String SURFACE, 968.3ftKB					Next Casing String PROPOSED INTERMEDIATE, 8,350.0ftKB								
Avg Connection Gas 51.00			Avg Trip Gas 15.00			Avg Background Gas 45.00			Max Connection Gas 69.00			Max Trip Gas 55.00			Max Drill Gas 114.00		
Operations Summary Drill F/ 7,629' T/ 7,739', Full Returns @ 750 gpm, CUC F/ TOH Due to Motor Stalls. C/O motor and bit, P/U roller reamers.TIH. Drill f/ 7,739' T/ 8,023', Initial losses when back on bottom drilling 80-100 bbls/hr. Losses at report are 15-20 bbls/hr (24.51% Sliding, 12.0° tangent, 27.0' below, 30' left Operations Next Report Period Drill intermediate hole section to 8,350 +/- casing point, Circ hole clean, TOO H to run 9 5/8' casing,R/U casing crew, Run 9 5/8 casing w/ no HSE events Operations at Report Time Drlg Int 1 @ 8,023', Losses approx 15-20 bbls/hr Remarks Rig NPT - Well: 1.0 Total hrs 3rd Party NPT Well: 0 Total hrs Pioneer NPT Well: 0 Total hr 1 hrs Surf-100%, INT1- 97.6%, INT2- 0%, Curve- 0%, Prod- 0%																	
Time Log																	
Start Time	Dur (hr)	End Time	Phase	Operation	Ops Category	Com				Start Depth (ftKB)	End Depth (ftKB)	Prob Hrs (hr)	Prob Ref #				
06:00	1.5	07:30	INT, DRL	DRL	NORMAL	Drill f/ 7,629' T/ 7,739', MW @ 9.8#, increased rate to 750 gpm with the active pits closed in and getting full returns. Erratic torque swings and three motor stalls over 1900 diff. Decision made to trip for BHA.				7,629.0	7,739.0	1.50	5				
07:30	1.75	09:15	INT, DRL	CIRC	NORMAL	CUC, pumped remaining 40 Bbls LCM sweep, circ at 650 gpm while reciprocating a full stand while building a dry job. Hole clean.				7,739.0	7,739.0	1.75	6				
09:15	0.25	09:30	INT, DRL	FLOW_CHK	NORMAL	Flow Check - Static				7,739.0	7,739.0	0.25	6				
09:30	0.5	10:00	INT, DRL	TOOH_ELEV	NORMAL	Pull 7 stands wet to get above the top of losses.				7,739.0	7,739.0	0.50	6				
10:00	0.25	10:15	INT, DRL	CIRC	NORMAL	Pump slug				7,739.0	7,739.0	0.25	6				
10:15	3.25	13:30	INT, DRL	TOOH_ELEV	NORMAL	TOH F/ 7,739' T/ 2,941' filling over the top with 9.8#, taking 0.8-0.5 Bbls over fill volume. Slug not taking, pull wet.				7,739.0	7,739.0	3.25	6				
13:30	0.25	13:45	INT, DRL	HDL_ROT HD	NORMAL	Pull rotating head and install trip nipple				7,739.0	7,739.0	0.25	6				
13:45	2.75	16:30	INT, DRL	TOOH_ELEV	NORMAL	TOH F/ 2,941 T/ 1,630', pulling wet, hole taking correct fill volume.				7,739.0	7,739.0	2.75	6				
16:30	0.25	16:45	INT, DRL	FLOW_CHK	NORMAL	Flow Check - Static				7,739.0	7,739.0	0.25	6				
16:45	1.25	18:00	INT, DRL	HDL_BHA	NORMAL	Stand back 17 stands of 5 HWDP in derrick. Six tight connections require rotary tongs to break. Visual inspection of threads showed no damage.				7,739.0	7,739.0	1.25	6				
18:00	0.25	18:15	INT, DRL	SFTY	NORMAL	PJSM covering C/O bit and motor				7,739.0	7,739.0	0.25	6				
18:15	0.5	18:45	INT, DRL	LD_DIR	NORMAL	Stand back NMDC's, lay out both 11.75" stabilizers drain motor, break out bit and motor.				7,739.0	7,739.0	0.50	6				
18:45	0.5	19:15	INT, DRL	PU_DIR	NORMAL	Pick up 1.5" motor and Smith 12.25" bit. Replace stabs with 12.125" roller reamers				7,739.0	7,739.0	0.50	6				
19:15	1	20:15	INT, DRL	HDL_BHA	NORMAL	Run 17 stands 5" HWDP out of the derrick				7,739.0	7,739.0	1.00	6				
20:15	3.5	23:45	INT, DRL	TIH_ELEV	NORMAL	TIH F/ 1,677' T/ 7,739'. Wash last stand to btm. Correct displacement into the trip tanks				7,739.0	7,739.0	3.50	6				
23:45	6.25	06:00	INT, DRL	DRL	NORMAL	Drill f/ 7,739' T/ 8,023', 284' @ 45.44 fph, 750 GPM. Initial losses when back on bottom drilling 80-100 bbls/hr. Losses at report time approx 15-20 bbls/hr				7,739.0	8,023.0	6.25	6				
Interval Problems																	
RIG, 2,142.0ftKB, 8/8/2021 14:15																	
Ref #	Dur (N...	Ex...	Subtype	Problem Descript...	Est Cost OR (Cost)	Accountable Party				Comment							
4		s	PIPE HANDLING	TONGS		HELMERICH & PAYNE INTERNATIONAL DRILLING CO				Blew two hose on ST-80, drilling at reduced ROP while making repairs.							
Daily Drilling Report																	

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Printed: Wednesday, August 11, 2021

Daily Drilling Report

Interval Problems																			
DOWNHOLE CONDITIONS, 6,975.0ftKB, 8/9/2021 20:30																			
Ref #	Dur (N...)	Ex...	Subtype	Problem Descript...	Est Cost OR (Cost)	Accountable Party				Comment									
5	11.00	No	WELLBORE	LOST CIRCULATION		PIONEER NATURAL RESOURCES USA INC				Seepage began at 6,975' (Approx 200 bbl/hr)									
3RD PARTY, 7,739.0ftKB, 8/10/2021 07:30																			
Ref #	Dur (N...)	Ex...	Subtype	Problem Descript...	Est Cost OR (Cost)	Accountable Party				Comment									
6		No	DRILL STRING	BITS		PHOENIX TECHNOLOGY SERVICES USA INC				TOH to C/O BHA after 3 back to back 1900## motor stalls.									
Drill Strings																			
BHA #2 , INTERMEDIATE																			
Bit Run			Drill Bit						Bit Type			Make							
2			12 1/4in, SPL 616, 56313						PDC			ULTERRA							
Nozzles (1/32")			Bit Total Fluid Area (nozzles) (in²)			IADC Bit Dull			Hours Drilled By Bit (hr)			Depth Drilled By Bit (ft)							
11/11/11/11/11/12/12/12			0.91			1-3-BT-A-X-0-CT-BHA			48.00			6,633.00							
BHA Drilling Time (hr)			BHA Depth Drilled (ft)			BHA ROP (ft/hr)			Depth In (ftKB)			Depth Out (ftKB)							
48.00			6,633.00			138.2			999.0			7,739.0							
Drill String Components																			
Jts	Item Des				OD (in)		ID (in)		Len (ft)		Cum Len (ft)		Wt (lbf)		Cum Wt (1000lbf)		Make		
190	DRILL PIPE				5		4.28		6,076.20		7,739.00		118,485.9		193				
5	HWDP				6 1/2		3.00		151.12		1,662.80		7,450.2		75		RIG		
1	DRILLING JARS - HYDRAULIC				6.63		2.88		31.77		1,511.68				67		KNIGHT OIL TOOLS LLC		
45	HWDP				6 1/2		3.00		1,364.39		1,479.91		67,264.4		67		RIG		
1	SUB - XO				7.84		2.81		3.30		115.52				0		AMEGA WEST		
1	SUB - SHOCK				8		3.25		26.77		112.22				0		COUGAR		
1	STABILIZER				8		3.25		7.29		85.45				0		AMEGA WEST		
1	MWD TOOL				8.08		4.00		3.45		78.16				0		PHOENIX		
1	MWD TOOL				8 1/16		6.05		8.53		74.71				0		PHOENIX		
1	MWD TOOL				8.2		4.85		3.72		66.18				0		PHOENIX		
1	MWD TOOL				8		2.82		2.82		62.46				0		PHOENIX		
1	DRILL COLLAR - PONY, NON MAG				7.88		2.81		14.41		59.64				0		AMEGA WEST		
1	STABILIZER				8.24		2.94		7.28		45.23				0		AMEGA WEST		
1	MOTOR - STABILIZER SLEEVE				9		0.10		36.45		37.95				0		PHOENIX		
Mud Motors																			
SN			Bend Angle			Bearing Type			Lobe Config			# Stages			Lwr Defln Type			Bit To Bend	
PHX-900-030			1.83			NOT SEALED			7:8			7						6.83	
Sensors																			
Sensor Type				Sensor-Bit (ft)						Note									
GAMMA				67.74															
DIRECTIONAL				71.00															
Drilling Parameters																			
Start Time	End Time	Start Depth (ftKB)	Int Depth (ft)	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	ROP Average (ft/hr)	Drill Str Wt (1000lbf)	PU Str Wt (1000lbf)	SO Str Wt (1000lbf)	Off-Btm Str Wt (1000lbf)	Drill Tq	Off Btm Tq	TFO (°)		
06:00	07:30	7,629.0	110.00	73.3	38	60	500.0	600	2,300.0	65.0	200	215	170	200	16,000.0	8,500.0	0		
07:30	09:30	7,739.0	0.00	0.0	0	60	0.0	600	1,500.0	0.0	190	200	170	190	0.0	8,500.0	0		
BHA #3 , INTERMEDIATE																			
Bit Run			Drill Bit						Bit Type			Make							
3			12 1/4in, Z713S, JV3390						PDC			SMITH							
Nozzles (1/32")			Bit Total Fluid Area (nozzles) (in²)			IADC Bit Dull			Hours Drilled By Bit (hr)			Depth Drilled By Bit (ft)							
13/13/13/13/13/13/13			0.91			-----			6.25			284.00							
BHA Drilling Time (hr)			BHA Depth Drilled (ft)			BHA ROP (ft/hr)			Depth In (ftKB)			Depth Out (ftKB)							
6.25			284.00			45.4			7,739.0			8,023.0							
Drill String Components																			
Jts	Item Des				OD (in)		ID (in)		Len (ft)		Cum Len (ft)		Wt (lbf)		Cum Wt (1000lbf)		Make		
202	DRILL PIPE				5		4.28		6,345.82		8,023.00		123,743.5		198				
5	HWDP				6 1/2		3.00		151.12		1,677.18		7,450.2		75		RIG		
1	DRILLING JARS - HYDRAULIC				6.63		2.88		31.77		1,526.06				67		KNIGHT OIL TOOLS LLC		
45	HWDP - SPIRALED				6 1/2		3.00		1,364.39		1,494.29		67,264.4		67		RIG		
1	SUB - XO				6 1/2		2.81		2.81		129.90				0		AMEGA WEST		
1	SUB - SHOCK				8		3.25		26.77		127.09				0		COUGAR		
1	REAMER - ROLLER				8.24		2.88		6.51		100.32				0		RUBICON OILFIELD INTERNATIONAL		
1	DRILL COLLAR - PONY, NON MAG				8		3.50		14.79		93.81				0		AMEGA WEST		
1	MWD TOOL				8.08		4.00		3.45		79.02				0		PHOENIX		
1	MWD TOOL				8 1/16		6.05		8.53		75.57				0		PHOENIX		
1	MWD TOOL				8.2		4.85		3.72		67.04				0		PHOENIX		
1	MWD TOOL				8		2.82		2.82		63.32				0		PHOENIX		
1	DRILL COLLAR - PONY, NON MAG				7.88		2.81		14.41		60.50				0		AMEGA WEST		
1	REAMER - ROLLER				8 1/4		2.88		7.46		46.09				0		RUBICON OILFIELD INTERNATIONAL		
1	MOTOR - STABILIZER SLEEVE				9		0.10		37.28		38.63				0		PHOENIX		
Daily Drilling Report																			
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Printed: Wednesday, August 11, 2021																			

Daily Drilling Report

UTL 1308J 3814H	
H & P - 650	
Accept: 8/5/2021	Release:
Days Since LTI: 78.00	Days Since RI: 136.00

DELAWARE	
Job:	ODR
Report Date:	8/11/2021
Report #:	9
DFS:	7
AFE #:	9015117
Total AFE + Sup:	\$4,368,347.65
Daily Field Est. (Cost):	\$109,790.72

Mud Motors																					
SN		Bend Angle		Bearing Type		Lobe Config		# Stages		Lwr Defln Type		Bit To Bend									
PHX-900-031		1.5		NOT SEALED		7:8		7				7.1									
Sensors																					
Sensor Type				Sensor-Bit (ft)				Note													
GAMMA				67.74																	
DIRECTIONAL				71.00																	
Drilling Parameters																					
Start Time	End Time	Start Depth (ftKB)	Int Depth (ft)	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	ROP Average (ft/hr)	Drill Str Wt (1000lbf)	PU Str Wt (1000lbf)	SO Str Wt (1000lbf)	Off-Btm Str Wt (1000lbf)	Drill Tq	Off Btm Tq	TFO (°)				
23:45	01:30	7,739.0	104.00	59.4	45	60	200.0	750	3,100.0	60.0	243	270	235	243	15.0	8.5	0				
01:30	03:15	7,843.0	28.00	16.0	46	0	200.0	750	2,800.0	20.0	243	270	235	243	0.0	0.0	30				
03:15	04:30	7,871.0	67.00	53.6	50	60	400.0	750	3,000.0	70.0	243	270	235	243	16.0	8.5	0				
04:30	05:30	7,938.0	20.00	20.0	45	0	300.0	750	2,800.0	25.0	243	270	235	243	0.0	0.0	45				
05:30	06:00	7,958.0	65.00	130.0	50	60	400.0	750	3,000.0	70.0	243	270	235	243	18.0	8.5	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)	
9.70		9.71		270.4		2.3		265.2		617.9		21.0		266.2		127.38		828.81		123.37	
Mud Checks																					
Time		Mud Company				Type		Depth (ftKB)		Density (lb/gal)		Funnel Viscosity (s/qt)		T Flowline (°F)							
23:55		PIONEER DRILLING FLUIDS				WATER BASE		7,760.0		9.80		28		100.0							
PV (cP)		YP (lb/100ft²)		Vis 3rpm		Vis 6rpm		Filtrate (mL/30min)		HTHP Filtrate (mL/30min)		HTHP Temperature (°F)		HTHP Pressure (psi)							
1.0		1.000		1		1		0.0													
Solids (%)				Low Gravity Solids (%)				Sand (%)				MBT (lb/bbl)				Pm (mL/mL)				Pf (mL/mL)	
11.7				0.3				0.1				0.0				0.300					
Chlorides (mg/L)			Calcium (mg/L)			CaCl (ppm)			Oil Water Ratio			Electric Stab (V)			Lime (lb/bbl)			pH			
170,000									0/100									10.0			
Gel 10 sec (lb/100ft²)						Gel 10 min (lb/100ft²)						Gel 30 min (lb/100ft²)									
1.000						1.000						1.000									
Comment																					
Maintain mw of 9.6-9.8 ppg in active pits with brine water & fresh water. Add lime as needed for a pH of 10-11. High viscosity sweeps: 80 bbls brine water, 16 sacks of Zeo Gel, 5 sx Barazan D Plus, 3 sxs soda ash 16 sxs carb 150 & 600; stop it 8 sxs; barofiber 8 sxs. Pump 30 bbls every other stand or as directed by co man.																					
Last BOP Test																					
Date		Test Type				Item Tested				Next Test Date		Com									
8/7/2021		BOP				BOP'S, 8/5/2021 04:30, <class>				8/28/2021											
Leak Off and Formation Integrity Tests																					
Test Type						Depth (ftKB)						Dens Fluid (lb/gal)									
FORMATION INTEGRITY						1,009.0						12.57									
Casing Pressure Test																					
Test Type				Test Subtype				Date		Item Tested				Failed?		Time (min)		P (psi)			
CASING				STANDARD				7/23/2021		SURFACE, 968.3ftKB				No		30.00		1,000.0			
Kick Offs & Key Depths																					
Date						Type						Top Depth (ftKB)				Depth Top (TVD) (ftKB)					
Casing Strings																					
Description		Set Depth (ftKB)		Set Depth (TVD) (ftKB)		OD (in)		Grade		Wt/Len (lb/ft)		Top Thread		P LeakOff (psi)							
CONDUCTOR		106.5		106.5		20		H40		78.67											
SURFACE		968.3		967.9		13 3/8		J55		54.50		BTC		658.7							
Gas Emissions - Flare																					
Type		Method		Dur (min)		Amount		Units		Com											
Job Supply Amounts																					
Supply Item Des		Type		Unit Label		Received		Consumed		Returned		Note			Cum On Loc		Cum Consumed				
DIESEL		FUEL		GAL		7,210		1,673				Recieved 7,210 gal			10,749		10,271.0				
Mud Additive Amounts																					
Des				Type		Units		Rec		Consumed		On Loc		Cum Cons							
BARACARB 150				LOST CIRCULATION		SACK				17		7.0		65							
BARACARB 600				LOST CIRCULATION		SACK				24		0.0		72							
BARAZAN D PLUS				VISCOSIFIER		SACK				20		0.0		40							
BAROID 41 - TON (ST)				WEIGHTING MATERIAL		TON				7		35.03		7							
EZ MUD				OIL MUD ADDITIVE		CAN				4		25.0		7							
GS55/H2S SCAVENGER				SPECIALITY		DRUM		8		1		7.0		1							
LIME				ALKALINITY CONTROL		SACK				29		26.0		74							
SODA ASH				ALKALINITY CONTROL		EA				21		14.0		35							
STOPPIT				LOST CIRCULATION		SACK				24		8.0		40							
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Daily Drilling Report

H & P - 650

Release:

Days Since RI: 136.00

\$109,790.72

Pump Operations

Pump Checks

Deviation Surveys

Survey Data - All surveys for 24 hr reporting period

Formations

Daily Contacts

Personnel Log

Daily Drilling Report

Daily Drilling Report

UTL 1308J 3814H				DELAWARE	
H & P - 650				Job:	ODR
Accept: 8/5/2021				Report Date:	8/12/2021
Days Since LTI: 79.00				Report #:	10
Release:				DFS:	8
Days Since RI: 137.00				AFE #:	9015117
				Total AFE + Sup:	\$4,368,347.65
				Daily Field Est. (Cost):	\$202,176.44

TPI/UWI 42-475-38230-0000		Well Profile HORIZONTAL		Open Formation BONE SPRING 3 (BSPG 3)		Field Name SPRABERRY (TREND AREA)					
SSN ID00056173		Property Sub	KB-Grd (ft) 26.50	Orig KB Elev (ft) 2,730.50	Ground Elevation (ft) 2,704.00	Spud Date 7/13/2021		TD Date			
Jobs											
Responsible Grp 2		Responsible Grp 3		Job Type	Start Date		End Date	Job Status			
DRL ENG - ALEXANDER LINDBLAD		AREA TEAM 1		ODR	7/13/2021 00:00			IN PROGRESS			
Job Dates (ex. Estimated Pad Release, TXRRC Calls)											
Type			Subtype		Date		Note				
MILESTONE			ESTIMATED PAD RELEASE		10/30/2021		Drilling intermediate on 1st well of 3 well pad, drilling sequentially.				
Type TXRRC CALL			Subtype CEMENT INT		Date 8/11/2021		Note Mary				
Daily Operations											
Footage/Meterage (ft) 357.00		Drilling Hours (hr) 7.00		% Rotating Time (%) 89.29		End Depth (ftKB) 8,380.0		Target Depth (ftKB) 21,797.0	Daily Field Est Total (Cost) 202,176.44	Cum Field Est To Date (Cost) 975,179.07	
24 HR ROP (ft/hr) 51.0		Circulating Hours (hr) 3.25		% Sliding Time (%) 10.71		End Depth (TVD) (ftKB) 8,303.9		Target Depth (TVD) (ftKB) 10,880.1	Daily Mud Field Est (Cost) 4,401.57	Cum Mud Field Est (Cost) 15,559.67	Total AFE + Sup (Cost) 4,368,347.65
Daily Goal Description DRILLED FEET				Daily Goal - Last 24 327.0			Daily Goal - Next 24 250.0		Goal Comments Goal Met		
Backbuild	Lateral Inclination	Last Casing String SURFACE, 968.3ftKB						Next Casing String INTERMEDIATE, 8,370.0ftKB			
Avg Connection Gas 64.00		Avg Trip Gas 12.00		Avg Background Gas 75.00		Max Connection Gas 136.00		Max Trip Gas 28.00		Max Drill Gas 138.00	
Operations Summary Drill F/ 8,023' T/ 8,380', CUC, Spot LWL Pill, TOH, Remove MWD,Break bit, L/D motor, Service rig, Pull wear bushing, Safety meeting, R/U casing crew, Run 9 5/8 casing T/ 4,379', C/O slips, Run 9 5/8" casing T/ 5,800'. Correct displacement											
(10.71% Sliding, 12.0° tangent, 26.5' below, 32' left											
Operations Next Report Period Finish running casing, perform 2 stage cement job, Set packoff, P/U INT 2 BHA, TIH, Test DV/csg, Drill out shoe track, FIT test. Drill INT 2 T/ 8,630'											
Operations at Report Time Running 9 5/8 casing at 5,800'											
Remarks Rig NPT - Well: 1.0 Total hrs 3rd Party NPT Well: .5 Total hrs Pioneer NPT Well: 0 Total hr 1.5 hrs											
Surf-100%, INT1- 100%, INT2- 0%, Curve- 0%, Prod- 0%											
Time Log											
Start Time	Dur (hr)	End Time	Phase	Operation	Ops Category	Com		Start Depth (ftKB)	End Depth (ftKB)	Prob Hrs (hr)	Prob Ref #
06:00	6.75	12:45	INT, DRL	DRL	NORMAL	Drill F/ 8,023' T/ 8,380', 807' @ 119.5 fph, Losses at 5-20 bph. Slide to correct drift to the SW. Dump/dilute as needed and pumping LCM sweeps.		8,023.0	8,380.0	6.75	6
12:45	3.25	16:00	INT, POST DRL	CIRC	NORMAL	Circulate 2 sweeps, nut plug marker in 2nd sweep indicates a 16.75% washout. Spot 150 Bbl pad mud.		8,380.0	8,380.0	3.25	6
16:00	0.25	16:15	INT, POST DRL	FLOW_CHK	NORMAL	Flow Check - Static		8,380.0	8,380.0	0.25	6
16:15	0.5	16:45	INT, POST DRL	TOOH_ELEV	NORMAL	Pull 10 stands wet T/ 7,448'		8,380.0	8,380.0	0.50	6
16:45	0.25	17:00	INT, POST DRL	CIRC	NORMAL	Pump 40 Bbl dry job at 3# over		8,380.0	8,380.0	0.25	6
17:00	1	18:00	INT, POST DRL	TOOH_ELEV	NORMAL	TOH F/ 7,448' T/ 5,897' filling over the top from the trip tanks		8,380.0	8,380.0	1.00	6
18:00	0.25	18:15	INT, POST DRL	HDL_ROT HD	NORMAL	Pull rotating head and install trip nipple		8,380.0	8,380.0	0.25	6
18:15	0.25	18:30	INT, POST DRL	FLOW_CHK	NORMAL	Flow Check - Static		8,380.0	8,380.0	0.25	6
18:30	2	20:30	INT, POST DRL	HDL_BHA	NORMAL	TOH F/ 5,897' T/ 1,677' filling over the top from the trip tanks. Correct fill		8,380.0	8,380.0	2.00	6
20:30	0.75	21:15	INT, POST DRL	LD_DIR	NORMAL	Stand back HWDP, L/D MWD and stand back NMDC		8,380.0	8,380.0	0.75	6
21:15	0.5	21:45	INT, POST DRL	WRBSH	NORMAL	Drain and lay down motor, bit graded at 2-5-BT-A-X-0-CT		8,380.0	8,380.0	0.50	6
21:45	0.25	22:00	INT, POST DRL	SFTY	NORMAL	Retreive wear bushing		8,380.0	8,380.0	0.25	6
22:00	0.25	22:15	INT, POST DRL	SFTY	NORMAL	Clean and clear rig floor for casing ops		8,380.0	8,380.0	0.25	6
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Daily Drilling Report

DELAWARE	
Job:	ODR
Report Date:	8/12/2021
Report #:	10
DFS:	8
AFE #:	9015117
Total AFE + Sup:	\$4,368,347.65
Daily Field Est. (Cost):	\$202,176.44

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Daily Drilling Report

Drilling Parameters																		
Start Time	End Time	Start Depth (ftKB)	Int Depth (ft)	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	ROP Average (ft/hr)	Drill Str Wt (1000lbf)	PU Str Wt (1000lbf)	SO Str Wt (1000lbf)	Off-Btm Str Wt (1000lbf)	Drill Tq	Off Btm Tq	TFO (°)	
06:00	07:15	8,023.0	22.00	17.6	40	55	600.0	750	3,500.0	60.0	245	260	235	245	16,000.0	7,500.0	0	
07:15	08:00	8,045.0	20.00	26.7	40	0	250.0	750	3,500.0	30.0	245	260	235	245	0.0	0.0	50	
08:00	12:45	8,065.0	315.00	63.0	55	55	600.0	880	3,500.0	65.0	245	260	235	245	16,000.0	7,500.0	0	
12:45	16:30	8,380.0	0.00	0.0	0	55	0.0	850	2,900.0	0.0	245	260	235	245	0.0	0.0	0	
Hydraulic Calculations																		
Dens Mud (lb/gal)	ECD End (lb/gal)	Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Jet Vel (ft/s)	Bit dP (psi)	Min Open Hole AV (ft/min)	Max Open Hole AV (ft/min)	Vol DrillString (bbl)	Vol Bit to Shoe (bbl)	Vol Shoe to Top (bbl)								
9.70	9.72	393.6	3.3	300.6	793.7	23.8	301.7	133.72	872.19	123.37								
Mud Checks																		
Time		Mud Company				Type		Depth (ftKB)		Density (lb/gal)		Funnel Viscosity (s/qt)		T Flowline (°F)				
23:55		PIONEER DRILLING FLUIDS				WATER BASE		8,350.0		9.90		28		95.0				
PV (cP)	YP (lb/100ft²)	Vis 3rpm	Vis 6rpm	Filtrate (mL/30min)				HTHP Filtrate (mL/30min)		HTHP Temperature (°F)		HTHP Pressure (psi)						
1.0	1.000	1	1	0.0														
Solids (%)		Low Gravity Solids (%)		Sand (%)				MBT (lb/bbl)		Pm (mL/mL)		Pf (mL/mL)						
10.5		1.2		0.1				0.0		0.200								
Chlorides (mg/L)		Calcium (mg/L)		CaCl (ppm)		Oil Water Ratio		Electric Stab (V)		Lime (lb/bbl)		pH						
158,000		2,000				0/100						9.5						
Gel 10 sec (lb/100ft²)				Gel 10 min (lb/100ft²)				Gel 30 min (lb/100ft²)										
1.000				1.000				1.000										
Comment																		
Maintain MW 9.7-9.8 ppg in active pits with brine water, while dumping & diluting with fresh water. Add lime as needed for a pH of 10-11. High viscosity sweeps: 80 bbls brine water, 16 sacks of Zeo Gel, 5 sx Barazan D Plus, 3 sxs soda ash, 10 ppb/each Carb 150 & 600; 5 ppb stop it; 5 ppb barofiber, ½ pail PHPA . Pump 20-30 bbls every other stand or as directed by co man																		
Last BOP Test																		
Date		Test Type			Item Tested				Next Test Date		Com							
8/7/2021		BOP			BOP'S, 8/5/2021 04:30, <class>				8/28/2021									
Leak Off and Formation Integrity Tests																		
Test Type				Depth (ftKB)				Dens Fluid (lb/gal)										
FORMATION INTEGRITY				1,009.0				12.57										
Casing Pressure Test																		
Test Type			Test Subtype				Date		Item Tested			Failed?	Time (min)		P (psi)			
CASING			STANDARD				7/23/2021		SURFACE, 968.3ftKB			No	30.00		1,000.0			
Kick Offs & Key Depths																		
Date				Type				Top Depth (ftKB)				Depth Top (TVD) (ftKB)						
Casing Strings																		
Description		Set Depth (ftKB)		Set Depth (TVD) (ftKB)		OD (in)		Grade		Wt/Len (lb/ft)		Top Thread		P LeakOff (psi)				
CONDUCTOR		106.5		106.5		20		H40		78.67								
SURFACE		968.3		967.9		13 3/8		J55		54.50		BTC		658.7				
Gas Emissions - Flare																		
Type		Method		Dur (min)		Amount		Units		Com								
Job Supply Amounts																		
Supply Item Des		Type		Unit Label		Received		Consumed		Returned		Note			Cum On Loc		Cum Consumed	
DIESEL		FUEL		GAL				2,446							8,303		12,717.0	
Mud Additive Amounts																		
Des			Type			Units		Rec		Consumed		On Loc		Cum Cons				
BARACARB 600			LOST CIRCULATION			SACK				2		0.0		74				
BAROID 41 - TON (ST)			WEIGHTING MATERIAL			TON				6		29.03		13				
EZ MUD			OIL MUD ADDITIVE			CAN				3		22.0		10				
LIME			ALKALINITY CONTROL			SACK				13		13.0		87				
PAC-L			FLUID LOSS ADDITIVES			SACK				4		36.0		4				
SODA ASH			ALKALINITY CONTROL			EA				3		11.0		38				
STOPPIT			LOST CIRCULATION			SACK				5		3.0		45				
TRANSPORTATION			MISCELLANEOUS			EA		1,165		1,165		0.0		2,215				
ZEOGEL			SPECIALITY			SACK		250		150		265.0		300				
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		6,335.0				
2		GARDNER-DENVER				PZ-11-1600		5 1/2		11.00		0.081		6,335.0				
3		GARDNER-DENVER				PZ-11-1600		5 1/2		11.00		0.081		6,335.0				
Daily Drilling Report																		

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Printed: Thursday, August 12, 2021

Daily Drilling Report

H & P - 650	
Accept: 8/5/2021	Release:
Days Since LTI: 79.00	Days Since RI: 137.00

Job:	ODR
Report Date:	8/12/2021
Report #:	10
DFS:	8
AFE #:	9015117
Total AFE + Sup:	\$4,368,347.65
Daily Field Est. (Cost):	\$202,176.44

Daily Drilling Report Page 4/4 Printed: Thursday, August 12, 2021

Daily Drilling Report

UTL 1308J 3814H

H & P - 650

Accept: 8/5/2021
Days Since LTI: 80.00

Release:
Days Since RI: 138.00

DELAWARE

Job:
Report Date:
Report #:
DFS:
AFE #:
Total AFE + Sup:
Daily Field Est. (Cost):

ODR
8/13/2021
11
9
9015117
\$4,368,347.65
\$552,601.85

P/UWI 42-475-38230-0000		Well Profile HORIZONTAL		Open Formation BONE SPRING 3 (BSPG 3)		Field Name SPRABERRY (TREND AREA)						
SSN ID00056173	Property Sub	KB-Grd (ft) 26.50	Orig KB Elev (ft) 2,730.50	Ground Elevation (ft) 2,704.00	Spud Date 7/13/2021		TD Date					
Jobs												
Responsible Grp 2		Responsible Grp 3		Job Type	Start Date		End Date		Job Status			
DRL ENG - ALEXANDER LINDBLAD		AREA TEAM 1		ODR	7/13/2021 00:00				IN PROGRESS			
Job Dates (ex. Estimated Pad Release, TXRRC Calls)												
Type			Subtype		Date		Note					
MILESTONE			ESTIMATED PAD RELEASE		10/30/2021		Drilling intermediate 2 on 1st well of 3 well pad, drilling sequentially.					
Daily Operations												
Footage/Meterage (ft) 0.00		Drilling Hours (hr)		% Rotating Time (%)		End Depth (ftKB) 8,380.0		Target Depth (ftKB) 21,797.0		Daily Field Est Total (Cost) 552,601.85	Cum Field Est To Date (Cost) 1,529,706.52	
24 HR ROP (ft/hr)		Circulating Hours (hr)		% Sliding Time (%)		End Depth (TVD) (ftKB) 8,303.9		Target Depth (TVD) (ftKB) 10,880.1		Daily Mud Field Est (Cost) 58.50	Cum Mud Field Est (Cost) 15,618.17	Total AFE + Sup (Cost) 4,368,347.65
Daily Goal Description DRILLED FEET			Daily Goal - Last 24 250.0			Daily Goal - Next 24 1,500.0			Goal Comments Did not meet goal due to washing down casing			
Backbuild		Lateral Inclination		Last Casing String INTERMEDIATE, 8,372.0ftKB				Next Casing String PROPOSED INTERMEDIATE 2, 10,595.0ftKB				
Avg Connection Gas 0.00		Avg Trip Gas 15.00		Avg Background Gas 10.00		Max Connection Gas 0.00		Max Trip Gas 33.00		Max Drill Gas 0.00		
Operations Summary Run Csg F/ 5,800' T/ 7,806', Tag, Wash & Work Csg T/ 8,110', Run On elevators T/ Landed On Hanger @ 8,372', Packed Off & Stuck - Pump In @ 7 bpm w/ 730 SPP, Pump 1st Stage W/ No Returns, Bump & Set Pkr, Open DV & Break Circ, Pump 2nd Stage, R/D SLB, Set packoff, P/U BHA, TIH, Test csg, Drill out DV, Test csg, TIH F/ 6,142' T/ 8,278'												
Operations Next Report Period Drill out shoe track and 10' of new formation, FIT test to 11.5 EMW, Drill 8 3/4 INT 2 T/ 9.880'												
Operations at Report Time TIH @ 8,278' to drill out shoe track												
Remarks Rig NPT - Well: 1.0 Total hrs 3rd Party NPT Well: .5 Total hrs Pioneer NPT Well: 0 Total hr 1.5 hrs												
Surf-100%, INT1- 100%, INT2- 0%, Curve- 0%, Prod- 0%												
Time Log												
Start Time	Dur (hr)	End Time	Phase	Operation	Ops Category	Com		Start Depth (ftKB)	End Depth (ftKB)	Prob Hrs (hr)	Prob Ref #	
06:00	2	08:00	INT, CASE & CMT	CSG_W/O ROTATION	NORMAL	Run Csg f/ 5,800' T/ 7,806' displacing into the active and filling on the fly. Break circ every 40 jts.		8,380.0	8,380.0			
08:00	3	11:00	INT, CASE & CMT	CSG_W/WASH	NORMAL	Tag @ 7,806', engage CRT and wash down with 225 gpm to 7,827'. Tagging hard, wash at 297 gpm and working pipe T/ 8,110'.		8,380.0	8,380.0	3.00	8	
11:00	0.25	11:15	INT, CASE & CMT	CSG_W/O ROTATION	NORMAL	Run csg on elevators F/ 8,110' and land on hanger with 246k @ 8,372'.		8,380.0	8,380.0	0.25	8	
11:15	1.5	12:45	INT, CASE & CMT	CIRC	NORMAL	Casing packed off, pumping into formation at 7 bpm @ 740 psi. Un-able to move pipe. Discussed with DE, DS and PDC, decision made to reduce 1st stage Lead cmt volume to cover from shoe to the DV plus the Tail cmt. Calculated volume covers 1,000' above DV to 5,147'		8,380.0	8,380.0	1.50	8	
12:45	0.25	13:00	INT, CASE & CMT	SFTY	NORMAL	PJSM covering cmt ops		8,380.0	8,380.0			
13:00	0.5	13:30	INT, CASE & CMT	RU_CMT	NORMAL	M/U swage and cement head		8,380.0	8,380.0			
13:30	3.5	17:00	INT, CASE & CMT	CMT	NORMAL	Pressure test to 7,000 psi, Pump 10 Bbls fresh water. swage leaked at 200 psi, R/D head and swage, clean and grease then re-install. Still leaked, removed and wrapped with an entire roll of teflon tape, installed and held. Pump 254 sx 11.0# Lead (125 bbls) and 262 sx 14.8# Tail (62 bbls) with no returns at 6 bpm w/ 500 psi. Witness dropping wiper plug. displace with 627 Bbls 9.8 mud from active pits at 6.5 bpm with no returns. Average 530 psi till 420 Bbls pumped, pressure started climbing up to 1,275 psi. Slowed rate to 3.3 bpm for last 30 Bbls. Bumped on time at 1,100 psi, held for 3 minutes, bleed back 2 Bbls. Float Held.		8,380.0	8,380.0			
17:00	1	18:00	INT, CASE & CMT	CMT	NORMAL	Pressure up to 1600 psi, observed pressure drop indicating packer opened. Pumped 1 bbl inflating packer with 2200 psi. Bleed off pressure, 1/4 Bbls under total indicating packer set in gauge hole. Drop DV opening bomb and left fall for 30 minutes. Pressure up to 850 psi shifting the DV open. Pumped 10 Bbls thru DV with instant returns.		8,380.0	8,380.0			
Daily Drilling Report												
Page 1/4					Printed: Friday, August 13, 2021							

Daily Drilling Report

UTL 1308J 3814H			
H & P - 650			
Accept: 8/5/2021		Release:	
Days Since LTI: 80.00		Days Since RI: 138.00	

DELAWARE		Job:	ODR
		Report Date:	8/13/2021
		Report #:	11
		DFS:	9
		AFE #:	9015117
		Total AFE + Sup:	\$4,368,347.65
		Daily Field Est. (Cost):	\$552,601.85

Time Log											
Start Time	Dur (hr)	End Time	Phase	Operation	Ops Category	Com	Start Depth (ftKB)	End Depth (ftKB)	Prob Hrs (hr)	Prob Ref #	
18:00	3	21:00	INT, CASE & CMT	CMT	NORMAL	Pump 50 Bbls 11# MPE, 1,451 sx 11# Lead cmt (713 Bbls) and 236 sx 14.8# Tail cmt (56 Bbls) with full returns. Witness dropping top wiper plug. Displace with 465 bbls 9.8# active mud with full displacement. Slowed rate to 3.3 for last 30 Bbls. Bumped plug on time at 600 psi and pressured up to 2600 psi closing the DV tool. Bleed back 4 Bbls. No cement to surface. 10 bbls of spacer to surface	8,380.0	8,380.0			
21:00	0.25	21:15	INT, CASE & CMT	SFTY	NORMAL	PJSM on rigging down cementers	8,380.0	8,380.0			
21:15	0.5	21:45	INT, CASE & CMT	RD_CMT	NORMAL	R/D cementers	8,380.0	8,380.0			
21:45	0.75	22:30	INT, CASE & CMT	WH	NORMAL	L/D landing JT. Set packoff, Test to 5K, Good test	8,380.0	8,380.0			
22:30	0.25	22:45	INT2, PRE DRL	WRBSH	NORMAL	Install wear bushing	8,380.0	8,380.0			
22:45	0.25	23:00	INT2, PRE DRL	SFTY	NORMAL	PJSM on picking up BHA	8,380.0	8,380.0			
23:00	1	00:00	INT2, PRE DRL	PU_DIR	NORMAL	P/U 8 3/4" directional BHA, Witness scribe	8,380.0	8,380.0			
00:00	2.5	02:30	INT2, PRE DRL	TIH_ELEV	NORMAL	TIH F/ 98' T/ 6,142' Tag DV tool	8,380.0	8,380.0			
02:30	0.25	02:45	INT2, PRE DRL	HDL_ROTHD	NORMAL	Remove trip nipple, Install rotating head	8,380.0	8,380.0			
02:45	0.25	03:00	INT2, PRE DRL	CSG_TEST	NORMAL	Test casing to 2500# for 5 min, Good test.	8,380.0	8,380.0			
03:00	0.75	03:45	INT2, PRE DRL	DRL_OUT	NORMAL	Drill out DV tool 6,142'	8,380.0	8,380.0			
03:45	0.5	04:15	INT2, PRE DRL	CIRC	NORMAL	Circulate bottoms up	8,380.0	8,380.0			
04:15	0.5	04:45	INT2, PRE DRL	CSG_TEST	NORMAL	Test casing to 2500# for 30 minutes, Good test	8,380.0	8,380.0			
04:45	1.25	06:00	INT2, PRE DRL	TIH_ELEV	NORMAL	TIH F/ 6,142' T/ 8,278'	8,380.0	8,380.0			
Interval Problems											
DOWNHOLE CONDITIONS, 7,806.0ftKB, 8/12/2021 08:00											
Ref #	Dur (N...)	Ex...	Subtype	Problem Descript...	Est Cost OR (Cost)	Accountable Party	Comment				
8	4.75	No	WELLBORE	FORMATION INSTABILITY		PIONEER NATURAL RESOURCES USA INC	Wash down T/ 7,828' Work pipe down T/ 8,110'				
Drill Strings											
BHA #4 , INTERMEDIATE											
Bit Run				Drill Bit			Bit Type		Make		
4				8 3/4in, XZ616, JV2830			PDC		SMITH		
Nozzles (1/32")				Bit Total Fluid Area (nozzles) (in²)		IADC Bit Dull	Hours Drilled By Bit (hr)		Depth Drilled By Bit (ft)		
12/12/12/12/14/14				0.74		-----					
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
215	DRILL PIPE				5	4.28	6,766.18	8,380.00	131,940.5	207	RIG
50	HWDP - SPIRALED				6 1/2	3.00	1,515.51	1,613.82	74,714.6	75	RIG
1	STABILIZER				6 1/2	2.75	4.13	98.31		0	DRILLING TOOLS INTERNATIONAL
1	DRILL COLLAR - NON MAG				6 1/2	3.25	28.60	94.18		0	AMEGA WEST
1	MWD TOOL				6 9/16	3.69	3.55	65.58		0	PHOENIX
1	MWD TOOL				6 7/16	4.49	8.54	62.03		0	PHOENIX
1	MWD TOOL				6 5/8	3.78	3.52	53.49		0	PHOENIX
1	MWD TOOL				6 7/16	2.81	1.74	49.97		0	PHOENIX
1	DRILL COLLAR - PONY, NON MAG				6 11/16	3.25	9.30	48.23		0	AMEGA WEST
1	STABILIZER				6 3/4	2.88	3.70	38.93		0	DRILLING TOOLS INTERNATIONAL
1	MOTOR - STABILIZER SLEEVE				7 1/4	0.10	34.23	35.23		0	PHOENIX
Mud Motors											
SN		Bend Angle		Bearing Type		Lobe Config		# Stages		Lwr Defln Type	
PHX725-099		1.5		NOT SEALED		7:8		8.5			
Sensors											
Sensor Type				Sensor-Bit (ft)			Note				
GAMMA				56.05							
DIRECTIONAL				59.00							
Hydraulic Calculations											
Dens Mud (lb/gal)	ECD End (lb/gal)	Bit Hydraulic Power (hp)		HP/Area (hp/in²)	Jet Vel (ft/s)	Bit dP (psi)	Min Open Hole AV (ft/min)	Max Open Hole AV (ft/min)	Vol DrillString (bbl)	Vol Bit to Shoe (bbl)	Vol Shoe to Top (bbl)
Daily Drilling Report											
Page 2/4						Printed: Friday, August 13, 2021					

Daily Drilling Report

UTL 1308J 3814H				DELAWARE	
H & P - 650				Job:	ODR
Accept: 8/5/2021				Report Date:	8/13/2021
Days Since LTI: 80.00				Report #:	11
Release:				DFS:	9
Days Since RI: 138.00				AFE #:	9015117
				Total AFE + Sup:	\$4,368,347.65
				Daily Field Est. (Cost):	\$552,601.85

Mud Checks														
Time 22:00		Mud Company PIONEER DRILLING FLUIDS			Type WATER BASE		Depth (ftKB) 8,380.0		Density (lb/gal) 10.00		Funnel Viscosity (s/qt) 28		T Flowline (°F) 0.0	
PV (cP) 1.0	YP (lb/100ft²) 1.000	Vis 3rpm 1	Vis 6rpm 1	Filtrate (mL/30min) 0.0			HTHP Filtrate (mL/30min)		HTHP Temperature (°F)		HTHP Pressure (psi)			
Solids (%) 10.9		Low Gravity Solids (%) 1.3			Sand (%) 0.0			MBT (lb/bbl) 0.0		Pm (mL/mL) 0.200		Pf (mL/mL)		
Chlorides (mg/L) 165,000		Calcium (mg/L) 2,000		CaCl (ppm)		Oil Water Ratio 0/100		Electric Stab (V)		Lime (lb/bbl)		pH 9.5		
Gel 10 sec (lb/100ft²) 1.000				Gel 10 min (lb/100ft²) 1.000				Gel 30 min (lb/100ft²) 1.000						
Comment Maintain MW 10 ppg in active pits with brine water. If weight goes over a 10 ppg start dumping and diluting w/ outer reserve. Add lime as needed for a pH of 10-11. High viscosity sweeps: 80 bbls brine water, 16 sacks of Zeo Gel, 5 sx Barazan D Plus, 3 sxs soda ash, LCM: 10 ppb/each Carb 150 & 600; 5 ppb stop it; 5 ppb barofiber. Pump 20-30 bbls every other stand or as directed by co man.														
Last BOP Test														
Date	Test Type			Item Tested			Next Test Date		Com					
8/7/2021	BOP			BOP'S, 8/5/2021 04:30, <class>			8/28/2021							
Leak Off and Formation Integrity Tests														
Test Type				Depth (ftKB)				Dens Fluid (lb/gal)						
FORMATION INTEGRITY				1,009.0				12.57						
Casing Pressure Test														
Test Type		Test Subtype			Date		Item Tested		Failed?	Time (min)		P (psi)		
CASING		STANDARD			7/23/2021		SURFACE, 968.3ftKB		No	30.00		1,000.0		
Kick Offs & Key Depths														
Date			Type			Top Depth (ftKB)			Depth Top (TVD) (ftKB)					
Casing Strings														
Description	Set Depth (ftKB)		Set Depth (TVD) (ftKB)		OD (in)	Grade		Wt/Len (lb/ft)		Top Thread		P LeakOff (psi)		
CONDUCTOR	106.5		106.5		20	H40		78.67						
SURFACE	968.3		967.9		13 3/8	J55		54.50		BTC		658.7		
INTERMEDIATE	8,372.0		8,295.9		9 5/8	L80-IC		40.00		BTC				
Cement														
INTERMEDIATE CASING CEMENT, Casing, 8/12/2021 14:00														
Cementing End Date 8/12/2021 21:00		Wellbore ORIGINAL		Technical Result		Comment Intermediate 9 5/8"								
Cement Stages														
Description			Final Top De...	Btm (ftKB)	Top Pl...	Btm Pl...	Q Pump Init (...)	Q Pump Fina...	Q Pump Avg...	P Pump Final...	P Plug Bump...	Float...	Recip?	Rotated?
			975.0	8,380.0	Yes	No	5	8	7	800.0	1,480.0	No	No	No
Cement Fluids														
Fluid Type LEAD CMT				Estimated Top (ftKB) 620.0		Est Btm (ftKB) 5,688.8		Class TXI LITEWEIGHT		Yield (ft³/sack) 2.76		Density (lb/gal) 11.00		
Fluid Type TAIL CMT				Estimated Top (ftKB) 5,688.8		Est Btm (ftKB) 6,137.0		Class CLASS C		Yield (ft³/sack) 1.33		Density (lb/gal) 14.80		
Fluid Type DSPLMT				Estimated Top (ftKB) 6,137.0		Est Btm (ftKB) 8,380.0		Class		Yield (ft³/sack)		Density (lb/gal) 10.00		
Description			Final Top De...	Btm (ftKB)	Top Pl...	Btm Pl...	Q Pump Init (...)	Q Pump Fina...	Q Pump Avg...	P Pump Final...	P Plug Bump...	Float...	Recip?	Rotated?
			620.0	6,140.0	Yes	No	8	8	8	700.0	2,600.0	Yes	No	No
Cement Fluids														
Fluid Type MUDPUSH				Estimated Top (ftKB) 0.0		Est Btm (ftKB) 0.0		Class		Yield (ft³/sack)		Density (lb/gal) 8.40		
Fluid Type LEAD CMT				Estimated Top (ftKB) 0.0		Est Btm (ftKB) 0.0		Class TXI LITEWEIGHT		Yield (ft³/sack) 2.76		Density (lb/gal) 11.00		
Fluid Type TAIL CMT				Estimated Top (ftKB) 0.0		Est Btm (ftKB) 5,637.0		Class CLASS C		Yield (ft³/sack) 1.33		Density (lb/gal) 14.80		
Fluid Type DSPLMT				Estimated Top (ftKB) 0.0		Est Btm (ftKB) 0.0		Class		Yield (ft³/sack)		Density (lb/gal) 10.00		
Gas Emissions - Flare														
Type	Method		Dur (min)		Amount		Units	Com						
Job Supply Amounts														
Supply Item Des		Type	Unit Label	Received	Consumed	Returned	Note				Cum On Loc	Cum Consumed		
DIESEL		FUEL	GAL		971						7,332	13,688.0		
Mud Additive Amounts														
Des			Type		Units		Rec		Consumed		On Loc		Cum Cons	
LIME			ALKALINITY CONTROL		SACK				9		4.0		96	
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		6,335.0	
2	GARDNER-DENVER				PZ-11-1600		5 1/2		11.00		0.081		6,335.0	
3	GARDNER-DENVER				PZ-11-1600		5 1/2		11.00		0.081		6,335.0	
Pump Checks														
Pump #	Depth (ftKB)		Time	P (psi)	Strokes (spm)			Q Flow (gpm)			Eff (%)			
Deviation Surveys														
Date		Description FINAL SURVEY									Job			
Date 7/14/2021		Description AS DRILL SURVEY									Job ODR, 7/13/2021 00:00			
Daily Drilling Report														

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Printed: Friday, August 13, 2021

Daily Drilling Report

H & P - 650

Accept: 8/5/2021	Release:
Days Since LTI: 80.00	Days Since RI: 138.00

Job:	ODR
Report Date:	8/13/2021
Report #:	11
DFS:	9
AFE #:	9015117
Total AFE + Sup:	\$4,368,347.65
Daily Field Est. (Cost):	\$552,601.85

Formations					
Formation Name	Prog Top (TVD SS) Override (ft(elv))	Prog Top MD (ftKB)	Prog Top (TVD) (ftKB)	Final Top MD (ftKB)	Final Top (TVD) (ftKB)
265_BSPG1	-5,790.0		8,520.5		
267_BSPG2	-7,160.0		9,890.5		
268_BSPG3	-7,630.0		10,360.5		
268_PHANTOM FIELD TOP	-7,630.0		10,360.5		
ICP1	-7,780.0		10,510.5		
268_BSPG3 BASE CARBONATE	-8,170.0		10,900.5		
TOT	-8,340.0		11,070.5		
BOT	-8,390.0		11,120.5		
FTP	-8,365.0		11,095.5		
PBHL/TD	-8,150.0		10,880.5		

Daily Contacts				
Job Contact	Title	Office	Mobile	Email
POLYA, JOE, AREA DRILLING SUPERINTENDENT	AREA DRILLING SUPERINTENDENT	432-413-6147	432-352-3155	JOE.POLYA@PXD.COM
LINDBLAD, ALEXANDER, ENGINEER	ENGINEER	972-969-1749		ALEXANDER.LINDBLAD@PXD.COM
BROWN, DAN, SUPERINTENDENT	SUPERINTENDENT		469-203-9731	DAN.BROWN@PXD.COM
JOHNSON, STEVEN, SUPERINTENDENT	SUPERINTENDENT		580-504-9863	STEVEN.JOHNSON@PXD.COM
CREEL, GREG, WELLSITE SUPERVISOR	WELLSITE SUPERVISOR		307-461-0366	GREG.CREEL@PXD.COM
THOMPSON, SCOTT, WELLSITE SUPERVISOR	WELLSITE SUPERVISOR		432-934-9393	SCOTT.THOMPSON@PXD.COM
SMITH, KEITH, MUD ENGINEER	MUD ENGINEER		254-466-1541	KEITH.SMITH@PXD.COM
RIG-H&P 650, RIG PHONE	RIG PHONE	432-538-3406		DL-HP650@PXD.COM

Personnel Log	
Company	Count
PIONEER NATURAL RESOURCES USA INC	3
HELMERICH & PAYNE INTERNATIONAL DRILLING CO	13
PHOENIX TECHNOLOGY SERVICES USA INC	4
AERION RENTAL SERVICES	1
STRATAGRAPH INC	2
SAFETY AUTOMATION TECHNOLOGY LLC	2
SCHLUMBERGER TECHNOLOGY CORPORATION	4
BAKER HUGHES OILFIELD OPERATIONS INC	1
TCI CASING SPECIALTIES LLC	5
TENARIS GLOBAL SERVICES USA	1
CACTUS WELLHEAD LLC	1

Daily Drilling Report

UTL 1308J 3814H				DELAWARE	
H & P - 650				Job:	ODR
Accept: 8/5/2021				Report Date:	8/14/2021
Days Since LTI: 81.00				Report #:	12
Release:				DFS:	10
Days Since RI: 139.00				AFE #:	9015117
				Total AFE + Sup:	\$4,368,347.65
				Daily Field Est. (Cost):	\$113,368.07

P/U/UWI 42-475-38230-0000		Well Profile HORIZONTAL		Open Formation BONE SPRING 3 (BSPG 3)		Field Name SPRABERRY (TREND AREA)						
SSN ID00056173		Property Sub		KB-Grd (ft) 26.50	Orig KB Elev (ft) 2,730.50	Ground Elevation (ft) 2,704.00	Spud Date 7/13/2021	TD Date				
Jobs												
Responsible Grp 2		Responsible Grp 3		Job Type	Start Date		End Date		Job Status			
DRL ENG - ALEXANDER LINDBLAD		AREA TEAM 1		ODR	7/13/2021 00:00				IN PROGRESS			
Job Dates (ex. Estimated Pad Release, TXRRC Calls)												
Type			Subtype		Date		Note					
MILESTONE			ESTIMATED PAD RELEASE		10/30/2021		Drilling intermediate 2 on 1st well of 3 well pad, drilling sequentially.					
Daily Operations												
Footage/Meterage (ft) 579.00		Drilling Hours (hr) 7.00		% Rotating Time (%) 92.86		End Depth (ftKB) 8,959.0		Target Depth (ftKB) 21,797.0		Daily Field Est Total (Cost) 113,368.07	Cum Field Est To Date (Cost) 1,643,074.59	
24 HR ROP (ft/hr) 82.7		Circulating Hours (hr) 1.75		% Sliding Time (%) 7.14		End Depth (TVD) (ftKB) 8,882.6		Target Depth (TVD) (ftKB) 10,880.1		Daily Mud Field Est (Cost) 3,234.60	Cum Mud Field Est (Cost) 18,852.77	Total AFE + Sup (Cost) 4,368,347.65
Daily Goal Description DRILLED FEET				Daily Goal - Last 24 1,500.0			Daily Goal - Next 24 1,500.0			Goal Comments Goal not met due to replacing orbit valve		
Backbuild		Lateral Inclination		Last Casing String INTERMEDIATE, 8,372.0ftKB				Next Casing String PROPOSED INTERMEDIATE 2, 10,595.0ftKB				
Avg Connection Gas 80.00		Avg Trip Gas 11.00		Avg Background Gas 100.00		Max Connection Gas 200.00		Max Trip Gas 32.00		Max Drill Gas 389.00		
Operations Summary Drillout ST +10', CBU, FIT for a 11.2 EMW, Drill Int 2 Sec F 8,390' T/ 8,810', TOH T/ 8,372', C/O leaking orbit valve, TIH T/ 8,810' T/ 8,934',H2S alarm sounded. Shut in and muster, All clear given by Sheppard. Wet sensor. Drill F/ 8,941' T/ 8,959', Lost 400# pump pressure,Troubleshoot pumps,no issues,Flow check,Slight flow,Shut in well,No pressure increase. Open rams,flow stopped after 5 min.TOOH F/ 8,959' T/ 6,169. Flow check,Well flowing 1/4" stream. Spot 40 bbl,12# pill,Well static, TOO H F/ 6,169' T/ 600'.												
Operations Next Report Period Finish TOO H looking for wash out, Change bit, TIH. Drill INT 2 T/ 10,459												
Operations at Report Time TOOH @ 600' looking for a washout												
Remarks Rig NPT - Well: 1.0 Total hrs 3rd Party NPT Well: .5 Total hrs Pioneer NPT Well: 0 Total hr 1.5 hrs												
Surf-100%, INT1- 100%, INT2- 76%, Curve- 0%, Prod- 0%												
Time Log												
Start Time	Dur (hr)	End Time	Phase	Operation	Ops Category	Com		Start Depth (ftKB)	End Depth (ftKB)	Prob Hrs (hr)	Prob Ref #	
06:00	1.5	07:30	INT2, PRE DRL	DRL_OUT	NORMAL	Drill out shoe track F/ 8,276' T/ 7,372', cement hard. C/O rathole to 8,380'		8,380.0	8,380.0			
07:30	0.25	07:45	INT2, PRE DRL	DRL	NORMAL	Drill 10' new hole to 8,390'		8,380.0	8,390.0			
07:45	2	09:45	INT2, PRE DRL	CIRC	NORMAL	Circulate a STS at 600 gpm till hole clean and a 9.7# In/Out		8,390.0	8,390.0			
09:45	1	10:45	INT2, PRE DRL	FIT	NORMAL	Pump thru choke manifold, close upper VBR and align valves. Perform a FIT for a 11.2# EMW 8390-76'= 8,313' TVD x 0.052 x 1.8 = 778 psi needed. Step pressure up in 1/4 Bbl increments, observed pressure stabilized and pumping at 648 psi. Calculates for a 11.2# EMW. Bleed pressure off, 5 bbls back to the trip tanks, open VBR and re-align valves.		8,390.0	8,390.0			
10:45	1.5	12:15	INT2, DRL	DRL	NORMAL	Drill Int 2 Section F/ 8,390' T/ 8,713', 323' @ 215.3 fph. Slide for directional control before topping 1st Bone. Lower rpm @ 40 with 40k wob prior to topping the 1st Bone @ 8,658' MD. Fill and pump thru the gas buster. Orbit valve leaking by, arranged for new valve to be delivered and exchanged.		8,390.0	8,713.0			
12:15	0.5	12:45	INT2, DRL	RIG_SVC	NORMAL	Rig Service and SPR		8,713.0	8,713.0			
12:45	0.5	13:15	INT2, DRL	DRL	NORMAL	Drill Int 2 Section F/ 8,713' T/ 8,810', 98' @ 196 fph.		8,713.0	8,810.0			
13:15	0.5	13:45	INT2, DRL	CIRC	NORMAL	Circ a bottoms for short trip to shoe at 8,372'		8,810.0	8,810.0	0.50	9	
13:45	0.25	14:00	INT2, DRL	TOOH_ELEV	NORMAL	TOH to above the shoe at 8,372'		8,810.0	8,810.0	0.25	9	
14:00	5	19:00	INT2, DRL	3RD_PTY	NORMAL	Close upper VBR, align valves thru the super choke and circ at 4 spm. N/D flowline and leaking Orbit valve, install and N/U new Orbit valve to rotating head and the flowline. **Monitoring for any Gain/loss while circulating at 30 SPR.		8,810.0	8,810.0	5.00	9	
19:00	0.25	19:15	INT2, DRL	TIH_ELEV	NORMAL	TIH back to bottom @ 8,810'		8,810.0	8,810.0	0.25	9	
19:15	2.25	21:30	INT2, DRL	DRL	NORMAL	Drill F/ 8,810' T/ 8,934', 124' @ 55.11 fph		8,810.0	8,934.0			
21:30	0.5	22:00	INT2, DRL	H2S_FALSE	NORMAL	H2S alarm sounded. P/U and shut in. Muster all personnel to company man trailer and take head count. H2S tech gave the all clear. Wet sensor on rig floor		8,934.0	8,934.0	0.50	10	
Daily Drilling Report												
Page 1/4 Printed: Saturday, August 14, 2021												

Daily Drilling Report

UTL 1308J 3814H	
H & P - 650	
Accept: 8/5/2021	Release:
Days Since LTI: 81.00	Days Since RI: 139.00

DELAWARE	
Job:	ODR
Report Date:	8/14/2021
Report #:	12
DFS:	10
AFE #:	9015117
Total AFE + Sup:	\$4,368,347.65
Daily Field Est. (Cost):	\$113,368.07

Time Log																		
Start Time	Dur (hr)	End Time	Phase	Operation	Ops Category	Com					Start Depth (ftKB)	End Depth (ftKB)	Prob Hrs (hr)	Prob Ref #				
22:00	0.75	22:45	INT2, DRL	DRL	NORMAL	Drill F/ 8,941' T/ 8,959', 18' @ 24.0 fph. Lost 400 lbs of pump pressure. Check pumps, No issues					8,934.0	8,959.0						
22:45	0.5	23:15	INT2, DRL	FLOW_CHK	NORMAL	Well flowing 1/2" stream. Close pipe rams and monitor. No pressure increase. Open well back to trip tank. Flow stopped after 5 minutes					8,959.0	8,959.0						
23:15	0.25	23:30	INT2, DRL	SFTY	NORMAL	PJSM on tripping					8,959.0	8,959.0						
23:30	1.5	01:00	INT2, DRL	TOOH_ELEV	NORMAL	TOOH wet due to 400 # pressure loss F/ 8,959' T/ 6,169. Looking for washout. Proper hole fill observed on trip tanks					8,959.0	8,959.0						
01:00	0.75	01:45	INT2, DRL	FLOW_CHK	NORMAL	Flow check prior to pulling rotating head. Well flowing 1/4-1/2" stream. Spot 40 bbls, 12.0 ppg pill at 6,169'. Flow check, Well static					8,959.0	8,959.0						
01:45	2.25	04:00	INT2, DRL	TOOH_ELEV	NORMAL	TOOH wet due to 400 # pressure loss F/ 6,169' T/ 1,800'. Looking for washout. Proper hole fill observed on trip tanks					8,959.0	8,959.0						
04:00	0.25	04:15	INT2, DRL	HDL_ROT HD	NORMAL	Remove rotating head, Install trip nipple. Well static					8,959.0	8,959.0						
04:15	1.75	06:00	INT2, DRL	TOOH_ELEV	NORMAL	TOOH wet due to 400 # pressure loss F/ 1,800' T/ 600. Looking for washout. Using tongs on tight connections. Proper hole fill observed on trip tanks					8,959.0	8,959.0						
Interval Problems																		
3RD PARTY, 8,810.0ftKB, 8/13/2021 13:15																		
Ref #	Dur (N...)	Ex...	Subtype	Problem Descript...	Est Cost OR (Cost)	Accountable Party				Comment								
9	6.00	No	PRESSURE CONTROL	DIVERTER		BLACK GOLD RENTAL TOOLS INC				Orbit valve leaking, secure wellbore, C/O for new valve								
3RD PARTY, 8,934.0ftKB, 8/13/2021 21:30																		
Ref #	Dur (N...)	Ex...	Subtype	Problem Descript...	Est Cost OR (Cost)	Accountable Party				Comment								
10	0.50	No	SAFETY EQUIPMENT	H2S SENSOR		SAFETY INSTRUMENTATION INC				H2S sensor on rig floor got wet from floorhand cleaning rig floor								
Drill Strings																		
BHA #4 , INTERMEDIATE																		
Bit Run				Drill Bit					Bit Type				Make					
4				8 3/4in, XZ616, JV2830					PDC				SMITH					
Nozzles (1/32")				Bit Total Fluid Area (nozzles) (in²)					IADC Bit Dull				Hours Drilled By Bit (hr)					
12/12/12/12/14/14				0.74					-----				7.00					
BHA Drilling Time (hr)				BHA Depth Drilled (ft)					BHA ROP (ft/hr)				Depth In (ftKB)					
7.00				579.00					82.7				8,380.0					
8,959.0																		
Drill String Components																		
Jts	Item Des				OD (in)		ID (in)		Len (ft)		Cum Len (ft)		Wt (lbf)		Cum Wt (1000lbf)		Make	
215	DRILL PIPE				5		4.28		6,776.18		8,390.00		132,135.5		207		RIG	
50	HWDP - SPIRALED				6 1/2		3.00		1,515.51		1,613.82		74,714.6		75		RIG	
1	STABILIZER				6 1/2		2.75		4.13		98.31				0		DRILLING TOOLS INTERNATIONAL	
1	DRILL COLLAR - NON MAG				6 1/2		3.25		28.60		94.18				0		AMEGA WEST	
1	MWD TOOL				6 9/16		3.69		3.55		65.58				0		PHOENIX	
1	MWD TOOL				6 7/16		4.49		8.54		62.03				0		PHOENIX	
1	MWD TOOL				6 5/8		3.78		3.52		53.49				0		PHOENIX	
1	MWD TOOL				6 7/16		2.81		1.74		49.97				0		PHOENIX	
1	DRILL COLLAR - PONY, NON MAG				6 11/16		3.25		9.30		48.23				0		AMEGA WEST	
1	STABILIZER				6 3/4		2.88		3.70		38.93				0		DRILLING TOOLS INTERNATIONAL	
1	MOTOR - STABILIZER SLEEVE				7 1/4		0.10		34.23		35.23				0		PHOENIX	
Mud Motors																		
SN			Bend Angle			Bearing Type			Lobe Config			# Stages			Lwr Defn Type			Bit To Bend
PHX725-099			1.5			NOT SEALED			7:8			8.5						4.21
Sensors																		
Sensor Type				Sensor-Bit (ft)					Note									
GAMMA				56.05														
DIRECTIONAL				59.00														
Drilling Parameters																		
Start Time	End Time	Start Depth (ftKB)	Int Depth (ft)	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	ROP Average (ft/hr)	Drill Str Wt (1000lbf)	PU Str Wt (1000lbf)	SO Str Wt (1000lbf)	Off-Btm Str Wt (1000lbf)	Drill Tq	Off Btm Tq	TFO (°)	
07:30	07:45	8,380.0	10.00	40.0	20	20	300.0	600	2,200.0	60.0	245	265	235	245	10,000.0	8,500.0	0	
07:45	09:30	8,390.0	0.00	0.0	0	0	0.0	600	2,200.0	0.0	245	265	235	245	0.0	8,500.0	0	
09:30	10:30	8,390.0	57.00	57.0	25	40	700.0	700	3,100.0	60.0	245	265	235	245	17,000.0	8,500.0	0	
10:30	11:00	8,447.0	25.00	50.0	40	0	300.0	700	3,100.0	60.0	245	265	235	245	0.0	0.0	60	
11:00	13:00	8,472.0	339.00	169.5	40	40	700.0	700	3,100.0	60.0	245	265	235	245	17,000.0	8,500.0	0	
19:15	22:30	8,811.0	148.00	45.5	40	40	500.0	700	3,600.0	120.0	245	265	235	245	14,000.0	8,500.0	0	
Daily Drilling Report						Page 2/4					Printed: Saturday, August 14, 2021							

Daily Drilling Report

H & P - 650	
Accept: 8/5/2021	Release:
Days Since LTI: 81.00	Days Since RI: 139.00

Job:	ODR
Report Date:	8/14/2021
Report #:	12
DFS:	10
AFE #:	9015117
Total AFE + Sup:	\$4,368,347.65
Daily Field Est. (Cost):	\$113,368.07

Printed: Saturday, August 14, 2021

Daily Drilling Report

H & P - 650

Release:

Days Since RI: 139.00

Job:

ODR

8/14/2021

12

10

9015117

\$4,368,347.65

\$113,368.07

Personnel Log	
Company	Count
PIONEER NATURAL RESOURCES USA INC	3
HELMERICH & PAYNE INTERNATIONAL DRILLING CO	13
PHOENIX TECHNOLOGY SERVICES USA INC	4
AERION RENTAL SERVICES	1
STRATAGRAPH INC	2
SAFETY AUTOMATION TECHNOLOGY LLC	2
SCHLUMBERGER TECHNOLOGY CORPORATION	4
BAKER HUGHES OILFIELD OPERATIONS INC	1
TCI CASING SPECIALTIES LLC	5
TENARIS GLOBAL SERVICES USA	1
CACTUS WELLHEAD LLC	1

Daily Drilling Report

H & P - 650	
Accept: 8/5/2021	Release:
Days Since LTI: 82.00	Days Since RI: 140.00

Job:	ODR
Report Date:	8/15/2021
Report #:	13
DFS:	11
AFE #:	9015117
Total AFE + Sup:	\$4,368,347.65
Daily Field Est. (Cost):	\$72,031.10

Daily Drilling Report Page 1/4 Printed: Sunday, August 15, 2021

Daily Drilling Report

UTL 1308J 3814H

H & P - 650

Accept: 8/5/2021 Release:

Days Since LTI: 82.00 Days Since RI: 140.00

DELAWARE

Job: ODR

Report Date: 8/15/2021

Report #: 13

DFS: 11

AFE #: 9015117

Total AFE + Sup: \$4,368,347.65

Daily Field Est. (Cost): \$72,031.10

Mud Checks												
Time 23:55		Mud Company PIONEER DRILLING FLUIDS			Type WATER BASE	Depth (ftKB) 9,605.0	Density (lb/gal) 9.90	Funnel Viscosity (s/qt) 28	T Flowline (°F) 115.0			
PV (cP) 1.0	YP (lb/100ft²) 1.000	Vis 3rpm 1	Vis 6rpm 1	Filtrate (mL/30min) 0.0		HTHP Filtrate (mL/30min)		HTHP Temperature (°F)		HTHP Pressure (psi)		
Solids (%) 11.5		Low Gravity Solids (%) 1.2		Sand (%) 0.1		MBT (lb/bbl) 0.0		Pm (mL/mL) 3.000		Pf (mL/mL)		
Chlorides (mg/L) 165,000		Calcium (mg/L) 2,200		CaCl (ppm)	Oil Water Ratio 0/100		Electric Stab (V)		Lime (lb/bbl) pH 12.0			
Gel 10 sec (lb/100ft²) 1.000				Gel 10 min (lb/100ft²) 1.000				Gel 30 min (lb/100ft²) 1.000				
Comment Maintain MW 9.9 ppg in active pits with brine water. If weight goes over a 9.9 ppg start dumping and diluting w/ outer reserve. Add lime as needed for a pH of 10-11. High viscosity sweeps: 80 bbls brine water, 16 sacks of Zeo Gel, 5 sx Barazan D Plus, 3 sxs soda ash, LCM SWEEPS: 10 ppb/each Carb 150 & 600; 5 ppb stop it; 5 ppb barofiber. Pump 20-30 bbls every other stand or as directed by co man.												
Last BOP Test												
Date	Test Type			Item Tested		Next Test Date		Com				
8/7/2021	BOP			BOP'S, 8/5/2021 04:30, <class>		8/28/2021						
Leak Off and Formation Integrity Tests												
Test Type				Depth (ftKB)				Dens Fluid (lb/gal)				
FORMATION INTEGRITY				1,009.0				12.57				
FORMATION INTEGRITY				8,390.0				11.20				
Casing Pressure Test												
Test Type		Test Subtype			Date		Item Tested		Failed?	Time (min)	P (psi)	
CASING		STANDARD			7/23/2021		SURFACE, 968.3ftKB		No	30.00	1,000.0	
CASING		STANDARD			8/13/2021		INTERMEDIATE, 8,372.0ftKB		No	30.00	30.0	
Kick Offs & Key Depths												
Date			Type			Top Depth (ftKB)			Depth Top (TVD) (ftKB)			
Casing Strings												
Description		Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)		Top Thread		P LeakOff (psi)		
CONDUCTOR		106.5	106.5	20	H40	78.67						
SURFACE		968.3	967.9	13 3/8	J55	54.50		BTC		658.7		
INTERMEDIATE		8,372.0	8,295.9	9 5/8	L80-IC	40.00		BTC		4,837.3		
Gas Emissions - Flare												
Type	Method		Dur (min)	Amount	Units	Com						
Job Supply Amounts												
Supply Item Des		Type	Unit Label	Received	Consumed	Returned	Note		Cum On Loc	Cum Consumed		
DIESEL		FUEL	GAL	7,217	2,060		Recieved 7,217 gal		10,749	17,488.0		
Mud Additive Amounts												
Des		Type		Units		Rec		Consumed		On Loc	Cum Cons	
BARAZAN D PLUS		VISCOSIFIER		SACK				20		20.0	60	
GS55/H2S SCAVENGER		SPECIALITY		DRUM				1		6.0	2	
PAC-L		FLUID LOSS ADDITIVES		SACK				16		16.0	24	
SALT GEL		SPECIALITY		SACK				26		574.0	26	
SODA ASH		ALKALINITY CONTROL		EA				2		109.0	40	
ZEOGEL		SPECIALITY		SACK				25		165.0	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	6,335.0	
2	GARDNER-DENVER			PZ-11-1600		5 1/2		11.00		0.081	6,335.0	
3	GARDNER-DENVER			PZ-11-1600		5 1/2		11.00		0.081	6,335.0	
Pump Checks												
Pump #	Depth (ftKB)	Time	P (psi)		Strokes (spm)		Q Flow (gpm)		Eff (%)			
1	9,567.0	02:45	210.0		30		97		95			
1	9,567.0	02:54	260.0		40		129		95			
1	9,567.0	02:54	320.0		50		161		95			
2	9,567.0	02:45	210.0		30		97		95			
2	9,567.0	02:55	255.0		40		129		95			
2	9,567.0	02:55	310.0		50		161		95			
Deviation Surveys												
Date		Description FINAL SURVEY						Job				
Date 7/14/2021		Description AS DRILL SURVEY						Job ODR, 7/13/2021 00:00				
Survey Data - All surveys for 24 hr reporting period												
MD (ftKB)		Incl (°)		Azim (°)		TVD (ftKB)		VS (ft)		NS (ft)	EW (ft)	DLS (°/100ft)
9,036.00		1.42		306.71		8,959.55		-805.55		-344.42	-738.56	0.28
9,131.00		1.21		312.40		9,054.53		-806.77		-343.04	-740.25	0.26
9,226.00		1.84		15.22		9,149.50		-806.50		-340.90	-740.59	1.77
9,320.00		1.76		14.32		9,243.45		-804.97		-338.04	-739.83	0.09
9,415.00		1.29		352.58		9,338.42		-804.07		-335.57	-739.61	0.78
9,510.00		1.91		20.92		9,433.39		-802.94		-333.03	-739.18	1.04
9,604.00		1.90		9.04		9,527.33		-801.33		-330.03	-738.38	0.42
Daily Drilling Report												
						Page 3/4			Printed: Sunday, August 15, 2021			

Daily Drilling Report

H & P - 650

Accept: 8/5/2021	Release:
Days Since LTI: 82.00	Days Since RI: 140.00

Job:	ODR
Report Date:	8/15/2021
Report #:	13
DFS:	11
AFE #:	9015117
Total AFE + Sup:	\$4,368,347.65
Daily Field Est. (Cost):	\$72,031.10

Daily Contacts

Personnel Log

Daily Drilling Report

Daily Drilling Report

UTL 1308J 3814H				DELAWARE	
H & P - 650				Job:	ODR
Accept: 8/5/2021				Report Date:	8/16/2021
Days Since LTI: 83.00				Report #:	14
Release:				DFS:	12
Days Since RI: 141.00				AFE #:	9015117
				Total AFE + Sup:	\$4,368,347.65
				Daily Field Est. (Cost):	\$66,382.81

P/I/UWI 42-475-38230-0000		Well Profile HORIZONTAL		Open Formation BONE SPRING 3 (BSPG 3)		Field Name SPRABERRY (TREND AREA)						
SSN ID00056173		Property Sub	KB-Grd (ft) 26.50	Orig KB Elev (ft) 2,730.50	Ground Elevation (ft) 2,704.00	Spud Date 7/13/2021		TD Date				
Jobs												
Responsible Grp 2		Responsible Grp 3		Job Type	Start Date		End Date		Job Status			
DRL ENG - ALEXANDER LINDBLAD		AREA TEAM 1		ODR	7/13/2021 00:00				IN PROGRESS			
Job Dates (ex. Estimated Pad Release, TXRRC Calls)												
Type			Subtype		Date		Note					
MILESTONE			ESTIMATED PAD RELEASE		10/30/2021		Drilling intermediate 2 on 1st well of 3 well pad, drilling sequentially.					
Daily Operations												
Footage/Meterage (ft) 890.00		Drilling Hours (hr) 8.50		% Rotating Time (%) 61.76		End Depth (ftKB) 10,600.0		Target Depth (ftKB) 21,797.0		Daily Field Est Total (Cost) 66,382.81	Cum Field Est To Date (Cost) 1,663,598.50	
24 HR ROP (ft/hr) 104.7		Circulating Hours (hr)		% Sliding Time (%) 38.24		End Depth (TVD) (ftKB) 10,523.0		Target Depth (TVD) (ftKB) 10,880.1		Daily Mud Field Est (Cost) 2,294.34	Cum Mud Field Est (Cost) 24,616.74	Total AFE + Sup (Cost) 4,368,347.65
Daily Goal Description DRILLED FEET				Daily Goal - Last 24 885.0				Daily Goal - Next 24 0.0		Goal Comments Goal met		
Backbuild		Lateral Inclination		Last Casing String INTERMEDIATE, 8,372.0ftKB				Next Casing String PROPOSED INTERMEDIATE 2, 10,595.0ftKB				
Avg Connection Gas 102.00		Avg Trip Gas 102.00		Avg Background Gas 98.00		Max Connection Gas 542.00		Max Trip Gas 451.00		Max Drill Gas 175.00		
Operations Summary TOH T/ 4,070', Spot Mud Cap, TOH, C/O BHA, TIH, S&C, CBU, Drill F/ 9,710' T/ 10,600' TD. Circ samples per Geo												
Operations Next Report Period Circulate hole clean. Spot pad mud, TOO H to shoe. Spot mud cap, TOO H, L/D directional. R/U casing crew, Run INT 2 liner and cement												
Operations at Report Time Circ samples at 10,600' TD												
Remarks Rig NPT - Well: 1.0 Total hrs 3rd Party NPT Well: .5 Total hrs Pioneer NPT Well: 0 Total hr 1.5 hrs												
Surf-100%, INT1- 100%, INT2- 100%, Curve- 0%, Prod- 0%												
Time Log												
Start Time	Dur (hr)	End Time	Phase	Operation	Ops Category	Com		Start Depth (ftKB)	End Depth (ftKB)	Prob Hrs (hr)	Prob Ref #	
06:00	0.75	06:45	INT2, DRL	TOOH_ELEV	NORMAL	TOH /T/ 7,858' wet, taking the correct fill volume filling over the top from the trip tanks.		9,710.0	9,710.0	0.75	12	
06:45	0.25	07:00	INT2, DRL	FLOW_CHK	NORMAL	Flow Check - Static		9,710.0	9,710.0	0.25	12	
07:00	0.25	07:15	INT2, DRL	CIRC	NORMAL	Pump dry job		9,710.0	9,710.0	0.25	12	
07:15	0.25	07:30	INT2, DRL	HDL_ROTHD	NORMAL	Pull rotating head and install trip nipple		9,710.0	9,710.0	0.25	12	
07:30	1.5	09:00	INT2, DRL	TOOH_ELEV	NORMAL	TOH T/ 4,070' taking correct fill volume from trip tanks. Hole quit taking correct fill.		9,710.0	9,710.0	1.50	12	
09:00	0.25	09:15	INT2, DRL	FLOW_CHK	WELL CONTROL	Flow Check - Flowing 3/4" stream.		9,710.0	9,710.0	0.25	12	
09:15	1.75	11:00	INT2, DRL	CIRC	WELL CONTROL	Shut in and monitor pressure build up to 77 psi. Build and spot 60 bbls 12# Mud Cap, well dead		9,710.0	9,710.0	1.75	12	
11:00	1.25	12:15	INT2, DRL	TOOH_ELEV	NORMAL	TOH T/ 1,613' taking correct fill volume from trip tanks.		9,710.0	9,710.0	1.25	12	
12:15	0.25	12:30	INT2, DRL	SFTY	NORMAL	PJSM to cover handling BHA		9,710.0	9,710.0	0.25	12	
12:30	0.75	13:15	INT2, DRL	HDL_BHA	NORMAL	Stand back 5" HWDP in derrick		9,710.0	9,710.0	0.75	12	
13:15	1	14:15	INT2, DRL	LD_DIR	NORMAL	L/D MWD tool, drain motor, break out bit and lay down motor. Bit graded 8-1-CR-N-X-0-CT		9,710.0	9,710.0	1.00	12	
14:15	1	15:15	INT2, DRL	PU_DIR	NORMAL	P/U new motor, bit and MWD, scribe		9,710.0	9,710.0	1.00	12	
15:15	0.5	15:45	INT2, DRL	HDL_BHA	NORMAL	TIH 5" HWDP out of derrick		9,710.0	9,710.0	0.50	12	
15:45	2	17:45	INT2, DRL	TIH_ELEV	NORMAL	TIH T/ 6,322' taking displacement into the trip tanks		9,710.0	9,710.0	2.00	12	
17:45	0.25	18:00	INT2, DRL	HDL_ROTHD	NORMAL	Pull trip nipple and install rotating head		9,710.0	9,710.0	0.25	12	
18:00	1	19:00	INT2, DRL	TIH_ELEV	NORMAL	TIH T/ 8,338' taking displacement into the trip tanks		9,710.0	9,710.0	1.00	12	
19:00	0.25	19:15	INT2, DRL	SFTY	NORMAL	PJSM on slip and cut		9,710.0	9,710.0	0.25	12	
19:15	0.75	20:00	INT2, DRL	SLIP_CUT	NORMAL	Install TIW, monitor well on the trip tanks. Slip & Cut 85' of drilling line		9,710.0	9,710.0	0.75	12	
20:00	0.5	20:30	INT2, DRL	RIG_SVC	NORMAL	Rig service		9,710.0	9,710.0	0.50	12	
20:30	0.5	21:00	INT2, DRL	TIH_ELEV	NORMAL	TIH T/ 9,710' taking displacement into the trip tanks		9,710.0	9,710.0	0.50	12	
21:00	0.5	21:30	INT2, DRL	CIRC	NORMAL	CBU with 700 gpm, fan bottom several times to flush any bit debris.		9,710.0	9,710.0	0.50	12	
21:30	8.5	06:00	INT2, DRL	DRL	NORMAL	Drill Int 2 Section F/ 9,710' T/ 10,600', 890' @ 104.7 fph. T.D. Circulate samples per Geo Note: Sample at 10,150', 15% chert, 70% LS, 15% SD		9,710.0	10,600.0			
Interval Problems												
3RD PARTY, 9,710.0ftKB, 8/15/2021 04:15												
Ref #	Dur (N...	Ex...	Subtype	Problem Descript...	Est Cost OR (Cost)	Accountable Party		Comment				
12	17.25	No	DRILL STRING	BITS		ULTERRA DRILLING TECHNOLOGIES LP		Low ROP, Bit cored				
Daily Drilling Report												
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Daily Drilling Report

UTL 1308J 3814H	
H & P - 650	
Accept: 8/5/2021	Release:
Days Since LTI: 83.00	Days Since RI: 141.00

DELAWARE	
Job:	ODR
Report Date:	8/16/2021
Report #:	14
DFS:	12
AFE #:	9015117
Total AFE + Sup:	\$4,368,347.65
Daily Field Est. (Cost):	\$66,382.81

Drill Strings																	
BHA #5 , INTERMEDIATE																	
Bit Run 5		Drill Bit 8 3/4in, RPS716, 54186				Bit Type PDC		Make ULTERRA									
Nozzles (1/32")		Bit Total Fluid Area (nozzles) (in²)		IADC Bit Dull 8-1-CR-N-X-0-CT-BHA		Hours Drilled By Bit (hr) 15.75		Depth Drilled By Bit (ft) 751.00									
BHA Drilling Time (hr) 15.75		BHA Depth Drilled (ft) 751.00		BHA ROP (ft/hr) 47.7		Depth In (ftKB) 8,959.0		Depth Out (ftKB) 9,710.0									
Drill String Components																	
Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)	Wt (lbf)	Cum Wt (1000lbf)	Make									
257	DRILL PIPE	5	4.28	8,096.18	9,710.00	157,875.5	233	RIG									
50	HWDP - SPIRALED	6 1/2	3.00	1,515.51	1,613.82	74,714.6	75	RIG									
1	STABILIZER	6 1/2	2.75	4.13	98.31		0	DRILLING TOOLS INTERNATIONAL									
1	DRILL COLLAR - NON MAG	6 1/2	3.25	28.60	94.18		0	AMEGA WEST									
1	MWD TOOL	6 9/16	3.69	3.55	65.58		0	PHOENIX									
1	MWD TOOL	6 7/16	4.49	8.54	62.03		0	PHOENIX									
1	MWD TOOL	6 5/8	3.78	3.52	53.49		0	PHOENIX									
1	MWD TOOL	6 7/16	2.81	1.74	49.97		0	PHOENIX									
1	DRILL COLLAR - NON MAG	6 11/16	3.25	9.30	48.23		0	AMEGA WEST									
1	STABILIZER	6 3/4	2.88	3.70	38.93		0	DRILLING TOOLS INTERNATIONAL									
1	MOTOR - STABILIZER SLEEVE	7 1/4	0.10	34.23	35.23		0	PHOENIX									
Mud Motors																	
SN		Bend Angle		Bearing Type		Lobe Config		# Stages		Lwr DefIn Type		Bit To Bend					
PHX725-099		1.5		NOT SEALED		7:8		8.5				4.21					
Sensors																	
Sensor Type		Sensor-Bit (ft)				Note											
GAMMA																	
DIRECTIONAL																	
BHA #6 , INTERMEDIATE																	
Bit Run 6		Drill Bit 8 3/4in, RPS616, 56928				Bit Type PDC		Make Ulterra									
Nozzles (1/32") 12/12/12/13/13/13		Bit Total Fluid Area (nozzles) (in²) 0.72		IADC Bit Dull -----		Hours Drilled By Bit (hr) 8.50		Depth Drilled By Bit (ft) 890.00									
BHA Drilling Time (hr) 8.50		BHA Depth Drilled (ft) 890.00		BHA ROP (ft/hr) 104.7		Depth In (ftKB) 9,710.0		Depth Out (ftKB) 10,600.0									
Drill String Components																	
Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)	Wt (lbf)	Cum Wt (1000lbf)	Make									
285	DRILL PIPE	5	4.28	8,986.05	10,599.97	175,228.0	250	RIG									
50	HWDP - SPIRALED	6 1/2	3.00	1,515.51	1,613.92	74,714.6	75	RIG									
1	STABILIZER	6 1/2	2.75	4.13	98.41		0	DRILLING TOOLS INTERNATIONAL									
1	DRILL COLLAR - NON MAG	6 1/2	3.25	28.60	94.28		0	AMEGA WEST									
1	MWD TOOL	6 9/16	3.69	3.55	65.68		0	PHOENIX									
1	MWD TOOL	6 7/16	4.49	8.54	62.13		0	PHOENIX									
1	MWD TOOL	6 5/8	3.78	3.52	53.59		0	PHOENIX									
1	MWD TOOL	6 7/16	2.81	1.74	50.07		0	PHOENIX									
1	DRILL COLLAR - PONY, NON MAG	6 11/16	3.25	9.30	48.33		0	AMEGA WEST									
1	STABILIZER	6 3/4	2.88	3.70	39.03		0	DRILLING TOOLS INTERNATIONAL									
1	MOTOR - STABILIZER SLEEVE	7 1/4	0.10	34.33	35.33		0	PHOENIX									
Mud Motors																	
SN		Bend Angle		Bearing Type		Lobe Config		# Stages		Lwr DefIn Type		Bit To Bend					
PHX725-136		1.5		NOT SEALED		7:8		8.5				4.21					
Sensors																	
Sensor Type		Sensor-Bit (ft)				Note											
GAMMA						56.05											
DIRECTIONAL						59.00											
Drilling Parameters																	
Start Time	End Time	Start Depth (ftKB)	Int Depth (ft)	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	ROP Average (ft/hr)	Drill Str Wt (1000lbf)	PU Str Wt (1000lbf)	SO Str Wt (1000lbf)	Off-Btm Str Wt (1000lbf)	Drill Tq	Off Btm Tq	TFO (°)
21:30	21:45	9,710.0	15.00	60.0	45	35	500.0	700	3,800.0	150.0	268	300	235	268	17,000.0	10,000.0	0
21:45	22:15	9,725.0	30.00	60.0	22	0	400.0	700	3,200.0	75.0	268	300	235	268	0.0	0.0	100
22:15	00:15	9,755.0	297.00	148.5	45	35	800.0	700	4,000.0	200.0	268	300	235	268	19,000.0	10,000.0	0
00:15	00:30	10,052.0	11.00	44.0	19	0	350.0	700	3,200.0	50.0	268	300	235	268	0.0	0.0	90
00:30	01:45	10,063.0	182.00	145.6	45	35	800.0	700	4,000.0	200.0	268	300	235	268	18,000.0	10,000.0	0
01:45	02:30	10,245.0	30.00	40.0	14	0	325.0	700	3,200.0	38.0	268	300	235	268	0.0	0.0	90
02:30	03:00	10,275.0	64.00	128.0	45	35	800.0	700	4,000.0	180.0	268	300	235	268	18,000.0	10,000.0	0
Daily Drilling Report																	
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Daily Drilling Report

Drilling Parameters																			
Start Time	End Time	Start Depth (ftKB)	Int Depth (ft)	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	ROP Average (ft/hr)	Drill Str Wt (1000lbf)	PU Str Wt (1000lbf)	SO Str Wt (1000lbf)	Off-Btm Str Wt (1000lbf)	Drill Tq	Off Btm Tq	TFO (°)		
03:00	04:00	10,339.0	35.00	35.0	12	0	350.0	700	3,200.0	40.0	268	300	235	268	0.0	0.0	70		
04:00	04:45	10,374.0	142.00	189.3	45	35	700.0	700	4,000.0	200.0	268	300	235	268	19,000.0	10,000.0	0		
04:45	05:30	10,516.0	26.00	34.7	15	0	350.0	700	3,200.0	40.0	268	300	235	268	0.0	0.0	70		
05:30	06:00	10,542.0	58.00	116.0	45	35	700.0	700	4,000.0	200.0	268	300	235	268	19,000.0	10,000.0	0		
Hydraulic Calculations																			
Dens Mud (lb/gal)	ECD End (lb/gal)	Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Jet Vel (ft/s)	Bit dP (psi)	Min Open Hole AV (ft/min)	Max Open Hole AV (ft/min)	Vol DrillString (bbl)	Vol Bit to Shoe (bbl)	Vol Shoe to Top (bbl)									
10.00	10.10	359.7	6.0	311.8	880.8	19.6	714.9	173.58	84.71	431.02									
Mud Checks																			
Time		Mud Company				Type		Depth (ftKB)		Density (lb/gal)		Funnel Viscosity (s/qt)		T Flowline (°F)					
23:55		PIONEER DRILLING FLUIDS				WATER BASE		10,040.0		10.00		28							
PV (cP)	YP (lb/100ft²)	Vis 3rpm	Vis 6rpm	Filtrate (mL/30min)			HTHP Filtrate (mL/30min)			HTHP Temperature (°F)			HTHP Pressure (psi)						
1.0	1.000	1	1	0.0															
Solids (%)		Low Gravity Solids (%)			Sand (%)			MBT (lb/bbl)			Pm (mL/mL)			Pf (mL/mL)					
12.0		1.4			0.1			0.0			0.300								
Chlorides (mg/L)		Calcium (mg/L)		CaCl (ppm)		Oil Water Ratio		Electric Stab (V)			Lime (lb/bbl)		pH						
172,000		2,400				0/100							12.0						
Gel 10 sec (lb/100ft²)					Gel 10 min (lb/100ft²)					Gel 30 min (lb/100ft²)									
1.000					1.000					1.000									
Comment																			
Maintain MW 10 ppg in active pits with brine water. If weight goes over a 10 ppg start dumping and diluting w/ outer reserve. Add lime as needed for a pH of 10-11. High viscosity sweeps: 80 bbls brine water, 16 sacks of Zeo Gel, 5 sx Barazan D Plus, 3 sxs soda ash, LCM SWEEPS: 10 ppb/each Carb 150 & 600; 5 ppb stop it; 5 ppb barofiber. Pump 20-30 bbls every other stand or as directed by co man.																			
Last BOP Test																			
Date		Test Type			Item Tested			Next Test Date		Com									
8/7/2021		BOP			BOP'S, 8/5/2021 04:30, <class>			8/28/2021											
Leak Off and Formation Integrity Tests																			
Test Type				Depth (ftKB)						Dens Fluid (lb/gal)									
FORMATION INTEGRITY										1,009.0		12.57							
FORMATION INTEGRITY										8,390.0		11.20							
Casing Pressure Test																			
Test Type			Test Subtype				Date		Item Tested				Failed?	Time (min)		P (psi)			
CASING			STANDARD				7/23/2021		SURFACE, 968.3ftKB				No	30.00		1,000.0			
CASING			STANDARD				8/13/2021		INTERMEDIATE, 8,372.0ftKB				No	30.00		30.0			
Kick Offs & Key Depths																			
Date				Type				Top Depth (ftKB)				Depth Top (TVD) (ftKB)							
Casing Strings																			
Description		Set Depth (ftKB)		Set Depth (TVD) (ftKB)		OD (in)		Grade		Wt/Len (lb/ft)		Top Thread		P LeakOff (psi)					
CONDUCTOR		106.5		106.5		20		H40		78.67									
SURFACE		968.3		967.9		13 3/8		J55		54.50		BTC		658.7					
INTERMEDIATE		8,372.0		8,295.9		9 5/8		L80-IC		40.00		BTC		4,837.3					
Gas Emissions - Flare																			
Type		Method		Dur (min)		Amount		Units		Com									
Job Supply Amounts																			
Supply Item Des			Type		Unit Label		Received		Consumed		Returned		Note			Cum On Loc		Cum Consumed	
DIESEL			FUEL		GAL				1,868							8,881		19,356.0	
Mud Additive Amounts																			
Des			Type			Units		Rec		Consumed		On Loc		Cum Cons					
ALUMINUM TRISTEARATE			DEFOAMER			SACK		10		1		9.0		1					
BARAZAN D PLUS			VISCOSIFIER			SACK				3		17.0		63					
BAROID 41 - TON (ST)			WEIGHTING MATERIAL			TON				7		16.03		26					
LIME			ALKALINITY CONTROL			SACK				5		45.0		105					
PAC-L			FLUID LOSS ADDITIVES			SACK				1		15.0		25					
SALT GEL			SPECIALITY			SACK				64		510.0		90					
SODA ASH			ALKALINITY CONTROL			EA				6		103.0		46					
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		6,335.0					
2		GARDNER-DENVER				PZ-11-1600		5 1/2		11.00		0.081		6,335.0					
3		GARDNER-DENVER				PZ-11-1600		5 1/2		11.00		0.081		6,335.0					
Pump Checks																			
Pump #		Depth (ftKB)		Time		P (psi)		Strokes (spm)		Q Flow (gpm)				Eff (%)					
2		10,041.0		23:30		415.0		40		129				95					
2		10,041.0		23:30		480.0		50		161				95					
Daily Drilling Report																			
Page 3/4										Printed: Monday, August 16, 2021									

Daily Drilling Report

H & P - 650

Accept: 8/5/2021

Days Since LTI: 83.00

Release:

Days Since RI: 141.00

DELAWARE

Job:

ODR

Report Date:

8/16/2021

Report #:

14

DFS

12

AFE #:

9015117

Total AFE + Sup:

\$4,368,347.65

Daily Field Est. (Cost):

\$66,382.81

Daily Drilling Report

Daily Drilling Report

UTL 1308J 3814H				DELAWARE	
H & P - 650				Job:	ODR
Accept: 8/5/2021				Report Date:	8/17/2021
Days Since LTI: 84.00				Report #:	15
Release:				DFS:	13
Days Since RI: 142.00				AFE #:	9015117
				Total AFE + Sup:	\$4,368,347.65
				Daily Field Est. (Cost):	\$84,319.75

P/U/UWI 42-475-38230-0000		Well Profile HORIZONTAL		Open Formation BONE SPRING 3 (BSPG 3)		Field Name SPRABERRY (TREND AREA)						
SSN ID00056173		Property Sub		KB-Grd (ft) 26.50	Orig KB Elev (ft) 2,730.50	Ground Elevation (ft) 2,704.00	Spud Date 7/13/2021		TD Date			
Jobs												
Responsible Grp 2 DRL ENG - ALEXANDER LINDBLAD		Responsible Grp 3 AREA TEAM 1		Job Type ODR	Start Date 7/13/2021 00:00		End Date		Job Status IN PROGRESS			
Job Dates (ex. Estimated Pad Release, TXRRC Calls)												
Type MILESTONE			Subtype ESTIMATED PAD RELEASE		Date 10/30/2021		Note Drilling intermediate 2 on 1st well of 3 well pad, drilling sequentially.					
Type TXRRC CALL			Subtype CEMENT INT2		Date 8/16/2021		Note Valerie					
Daily Operations												
Footage/Meterage (ft) 0.00		Drilling Hours (hr)		% Rotating Time (%)		End Depth (ftKB) 10,600.0		Target Depth (ftKB) 21,797.0		Daily Field Est Total (Cost) 84,319.75	Cum Field Est To Date (Cost) 1,748,578.25	
24 HR ROP (ft/hr)		Circulating Hours (hr) 4.00		% Sliding Time (%)		End Depth (TVD) (ftKB) 10,522.9		Target Depth (TVD) (ftKB) 10,880.1		Daily Mud Field Est (Cost) 5,222.28	Cum Mud Field Est (Cost) 29,839.02	Total AFE + Sup (Cost) 4,368,347.65
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	Last Casing String INTERMEDIATE, 8,372.0ftKB						Next Casing String INTERMEDIATE 2, 10,596.0ftKB				
Avg Connection Gas 102.00		Avg Trip Gas 80.00		Avg Background Gas 75.00		Max Connection Gas 230.00		Max Trip Gas 123.00		Max Drill Gas 141.00		
Operations Summary CUC, Cut MW T/ 9.7#, Spot Pad mud, TOH 10 stands,Pump slug,TOH, L/D HWDP,L/D directional, R/U casing crew, Run 7 5/8" liner T/ 8,000'												
Operations Next Report Period Finish running liner,Circ STS, Hang liner and cement,Set packer, Circ B/U, TOH, L/D 8 stands 5" DP, L/D running tool. P/U curve 6 3/4" curve assembly, TIH												
Operations at Report Time Running 7 5/8" liner at 8,000'												
Remarks Rig NPT - Well: 2.0 Total hrs 3rd Party NPT Well: .5 Total hrs Pioneer NPT Well: 0 Total hr 2.5 hrs												
Surf-100%, INT1- 100%, INT2- 100%, Curve- 0%, Prod- 0%												
Time Log												
Start Time	Dur (hr)	End Time	Phase	Operation	Ops Category	Com		Start Depth (ftKB)	End Depth (ftKB)	Prob Hrs (hr)	Prob Ref #	
06:00	4.5	10:30	INT2, POST DRL	CIRC	NORMAL	Circulate at 701 gpm with 20 rpm, cutting MW back from 10.0# to 9.7#.Spot 150 Bblsa Pad Mud. **BU Sample @ 10,600': 70% LS, 20% SD, 10% SH		10,600.0	10,600.0			
10:30	0.5	11:00	INT2, POST DRL	TOOH_ELEV	NORMAL	Pull 10 stands T/ 9,656' wet taking correct fill over the top from the trip tanks		10,600.0	10,600.0			
11:00	0.25	11:15	INT2, POST DRL	FLOW_CHK	NORMAL	Flow Check - Pencil stream of flow		10,600.0	10,600.0			
11:15	0.5	11:45	INT2, POST DRL	TOOH_ELEV	NORMAL	Pull 10 stands F/ 9,656' wet T/ 8,233' taking correct fill over the top from the trip tanks		10,600.0	10,600.0			
11:45	0.25	12:00	INT2, POST DRL	FLOW_CHK	NORMAL	Flow Check - Small drip		10,600.0	10,600.0			
12:00	0.25	12:15	INT2, POST DRL	CIRC	NORMAL	Pump 45 bbl 13.2# slug, transfer remaing 15 bbls to trip tank		10,600.0	10,600.0			
12:15	1	13:15	INT2, POST DRL	TOOH_ELEV	NORMAL	TOH T/ 7,064' filling over the top taking correct fill volume (13.2#)		10,600.0	10,600.0			
13:15	0.25	13:30	INT2, POST DRL	HDL_ROT HD	NORMAL	Pull rotating head and install trip nipple, fluid level static in the stack.		10,600.0	10,600.0			
13:30	0.25	13:45	INT2, POST DRL	TOOH_ELEV	NORMAL	TOH T/ 6,584' filling over the top taking correct fill volume (9.7#)		10,600.0	10,600.0			
13:45	1	14:45	INT2, POST DRL	RIG_RPR	NORMAL	Repair blown hydraulic hose on the ST-80		10,600.0	10,600.0	1.00	14	
14:45	1.75	16:30	INT2, POST DRL	TOOH_ELEV	NORMAL	TOH T/ 1,614' filling over the top taking correct fill volume (9.7#)		10,600.0	10,600.0			
16:30	0.25	16:45	INT2, POST DRL	SFTY	NORMAL	PJSM to cover handling BHA		10,600.0	10,600.0			
16:45	2.5	19:15	INT2, POST DRL	L/D DP	NORMAL	Lay down 50 joints of 5" HWDP		10,600.0	10,600.0			
19:15	0.25	19:30	INT2, POST DRL	SFTY	NORMAL	PJSM on laying down BHA		10,600.0	10,600.0			
Daily Drilling Report												
Page 1/4				Printed: Tuesday, August 17, 2021								

Daily Drilling Report

UTL 1308J 3814H	
H & P - 650	
Accept: 8/5/2021	Release:
Days Since LTI: 84.00	Days Since RI: 142.00

DELAWARE	
Job:	ODR
Report Date:	8/17/2021
Report #:	15
DFS:	13
AFE #:	9015117
Total AFE + Sup:	\$4,368,347.65
Daily Field Est. (Cost):	\$84,319.75

Start Time	Dur (hr)	End Time	Phase	Operation	Ops Category	Com	Start Depth (ftKB)	End Depth (ftKB)	Prob Hrs (hr)	Prob Ref #
19:30	0.75	20:15	INT2, POST DRL	L/D BHA	NORMAL	L/D MWD, drain motor and break out the bit. Bit graded a 5-2-BT-N-X-0-CT-TD	10,600.0	10,600.0		
20:15	0.25	20:30	INT2, POST DRL	WRBSH	NORMAL	Retreive wear bushing	10,600.0	10,600.0		
20:30	0.5	21:00	INT2, POST DRL	SFTY	NORMAL	Clean and clear rig floor for liner running ops	10,600.0	10,600.0		
21:00	0.25	21:15	INT2, POST DRL	SFTY	NORMAL	PJSM covering csg rig up ops	10,600.0	10,600.0		
21:15	0.75	22:00	INT2, CASE & CMT	RU_CSG	NORMAL	Rig up tongs, slips, elevators and bail extentions	10,600.0	10,600.0		
22:00	0.25	22:15	INT2, CASE & CMT	SFTY	NORMAL	PJSM covering liner running ops	10,600.0	10,600.0		
22:15	0.5	22:45	INT2, CASE & CMT	MU_SHOE_TR K	NORMAL	Pick up shoe track joints, thread lock all connections and pump thru to ensure valve functions.	10,600.0	10,600.0		
22:45	2.5	01:15	INT2, CASE & CMT	CSG_W/O ROTATION	NORMAL	Pick up and run 7 5/8" liner T/ 2,427" Optimum make up at 26k tq. Fill on the fly and break circ every 40 jts. Monitoring for correct displacement into the trip tanks.	10,600.0	10,600.0		
01:15	0.25	01:30	INT2, CASE & CMT	CIRC	NORMAL	Circulate casing capacity	10,600.0	10,600.0		
01:30	0.75	02:15	INT2, CASE & CMT	RD_CSG	NORMAL	P/U liner hanger, R/D casing crew	10,600.0	10,600.0		
02:15	3.75	06:00	INT2, CASE & CMT	LNR_W/OWAS H	NORMAL	TIH W/ Liner on DP F/ 2,427' T/ 8,000', Monitoring for correct displacement into the trip tanks.	10,600.0	10,600.0		

RIG, 9,710.0ftKB, 8/16/2021 13:45

Ref # 14	Dur (N... 1.00	Ex... No	Subtype PIPE HANDLING	Problem Descript... PIPE SPINNER	Est Cost OR (Cost)	Accountable Party HELMERICH & PAYNE INTERNATIONAL DRILLING CO	Comment Repair blown hydraulic hose on the ST-80
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BHA #6 , INTERMEDIATE

Bit Run 6	Drill Bit 8 3/4in, RPS616, 56928	Bit Type PDC	Make Ulterra
Nozzles (1/32") 12/12/12/13/13/13	Bit Total Fluid Area (nozzles) (in ²) 0.72	IADC Bit Dull 5-2-BT-N-X-0-CT-TD	Hours Drilled By Bit (hr) 8.50
BHA Drilling Time (hr) 8.50	BHA Depth Drilled (ft) 890.00	BHA ROP (ft/hr) 104.7	Depth Out (ftKB) 10,600.0

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)	Wt (lbf)	Cum Wt (1000lbf)	Make
285	DRILL PIPE	5	4.28	8,986.05	10,599.97	175,228.0	250	RIG
50	HWDP - SPIRALED	6 1/2	3.00	1,515.51	1,613.92	74,714.6	75	RIG
1	STABILIZER	6 1/2	2.75	4.13	98.41		0	DRILLING TOOLS INTERNATIONAL
1	DRILL COLLAR - NON MAG	6 1/2	3.25	28.60	94.28		0	AMEGA WEST
1	MWD TOOL	6 9/16	3.69	3.55	65.68		0	PHOENIX
1	MWD TOOL	6 7/16	4.49	8.54	62.13		0	PHOENIX
1	MWD TOOL	6 5/8	3.78	3.52	53.59		0	PHOENIX
1	MWD TOOL	6 7/16	2.81	1.74	50.07		0	PHOENIX
1	DRILL COLLAR - PONY, NON MAG	6 11/16	3.25	9.30	48.33		0	AMEGA WEST
1	STABILIZER	6 3/4	2.88	3.70	39.03		0	DRILLING TOOLS INTERNATIONAL
1	MOTOR - STABILIZER SLEEVE	7 1/4	0.10	34.33	35.33		0	PHOENIX

SN	Bend Angle	Bearing Type	Lobe Config	# Stages	Lwr Defin Type	Bit To Bend
PHX725-136	1.5	NOT SEALED	7:8	8.5		4.21

Sensor Type	Sensor-Bit (ft)	Note
GAMMA	56.05	
DIRECTIONAL	59.00	

Start Time	End Time	Start Depth (ftKB)	Int Depth (ft)	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	ROP 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	10:00	10,600.0	0.00		0	35	0.0	700	3,000.0	0.0	268	300	235	268	0.0	10,000.0	0

Daily Drilling Report

UTL 1308J 3814H

H & P - 650

Accept: 8/5/2021 Release:

Days Since LTI: 84.00 Days Since RI: 142.00

DELAWARE

Job: ODR

Report Date: 8/17/2021

Report #: 15

DFS: 13

AFE #: 9015117

Total AFE + Sup: \$4,368,347.65

Daily Field Est. (Cost): \$84,319.75

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)	
10.00	10.10	359.7	6.0	311.8	880.8	19.6	714.9	173.58	84.71	431.02	
Mud Checks											
Time 23:30		Mud Company PIONEER DRILLING FLUIDS			Type WATER BASE		Depth (ftKB) 10,600.0		Density (lb/gal) 9.70	Funnel Viscosity (s/qt) 28	T Flowline (°F) 0.0
PV (cP) 1.0	YP (lb/100ft²) 1.000	Vis 3rpm 1	Vis 6rpm 1	Filtrate (mL/30min) 0.0		HTHP Filtrate (mL/30min)		HTHP Temperature (°F)		HTHP Pressure (psi)	
Solids (%) 9.0		Low Gravity Solids (%) 0.3		Sand (%) 0.0		MBT (lb/bbl) 0.0		Pm (mL/mL) 0.200		Pf (mL/mL)	
Chlorides (mg/L) 147,000		Calcium (mg/L) 2,100		CaCl (ppm)	Oil Water Ratio 0/100		Electric Stab (V)		Lime (lb/bbl)	pH 11.0	
Gel 10 sec (lb/100ft²) 1.000				Gel 10 min (lb/100ft²) 1.000				Gel 30 min (lb/100ft²) 1.000			
Comment Maintain MW 9.7 ppg in active pits with brine water. If weight goes over a 9.7 ppg start dumping and diluting w/ outer reserve. Add lime as needed for a pH of 10-11. High viscosity sweeps: 80 bbls brine water, 16 sacks of Zeo Gel, 5 sx Barazan D Plus, 3 sxs soda ash, LCM SWEEPS: 10 ppb/each Carb 150 & 600; 5 ppb stop it; 5 ppb barofiber. Pump 20-30 bbls every other stand or as directed by co man.											
Last BOP Test											
Date 8/7/2021	Test Type BOP			Item Tested BOP'S, 8/5/2021 04:30, <class>		Next Test Date 8/28/2021		Com			
Leak Off and Formation Integrity Tests											
Test Type				Depth (ftKB)				Dens Fluid (lb/gal)			
FORMATION INTEGRITY				1,009.0				12.57			
FORMATION INTEGRITY				8,390.0				11.20			
Casing Pressure Test											
Test Type		Test Subtype			Date		Item Tested		Failed?	Time (min)	P (psi)
CASING		STANDARD			7/23/2021		SURFACE, 968.3ftKB		No	30.00	1,000.0
CASING		STANDARD			8/13/2021		INTERMEDIATE, 8,372.0ftKB		No	30.00	30.0
Kick Offs & Key Depths											
Date				Type			Top Depth (ftKB)		Depth Top (TVD) (ftKB)		
Casing Strings											
Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)				
CONDUCTOR	106.5	106.5	20	H40	78.67						
SURFACE	968.3	967.9	13 3/8	J55	54.50	BTC	658.7				
INTERMEDIATE	8,372.0	8,295.9	9 5/8	L80-IC	40.00	BTC	4,837.3				
Gas Emissions - Flare											
Type	Method	Dur (min)	Amount	Units	Com						
Job Supply Amounts											
Supply Item Des		Type	Unit Label	Received	Consumed	Returned	Note	Cum On Loc	Cum Consumed		
DIESEL		FUEL	GAL		1,549			7,332	20,905.0		
Mud Additive Amounts											
Des	Type		Units	Rec	Consumed	On Loc	Cum Cons				
BARAZAN D PLUS	VISCOSIFIER		SACK		3	14.0	66				
BAROID 41 - TON (ST)	WEIGHTING MATERIAL		TON		22	14.38	48				
EZ MUD	OIL MUD ADDITIVE		CAN		1	19.0	13				
SALT GEL	SPECIALITY		SACK		74	436.0	164				
SODA ASH	ALKALINITY CONTROL		EA		7	96.0	53				
STOPPIT	LOST CIRCULATION		SACK		1	2.0	46				
WALL-NUT MEDIUM	LOST CIRCULATION		SACK		16	32.0	16				
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	6,335.0			
2	GARDNER-DENVER			PZ-11-1600	5 1/2	11.00	0.081	6,335.0			
3	GARDNER-DENVER			PZ-11-1600	5 1/2	11.00	0.081	6,335.0			
Pump Checks											
Pump #	Depth (ftKB)	Time	P (psi)	Strokes (spm)	Q Flow (gpm)			Eff (%)			
3	10,041.0	23:30	410.0	40	129			95			
3	10,041.0	23:30	473.0	50	161			95			
Deviation Surveys											
Date		Description FINAL SURVEY						Job			
Date 7/14/2021		Description AS DRILL SURVEY						Job ODR, 7/13/2021 00:00			
Formations											
Formation Name				Prog Top (TVD SS) Override (ft(elv))	Prog Top MD (ftKB)	Prog Top (TVD) (ftKB)	Final Top MD (ftKB)	Final Top (TVD) (ftKB)			
268_BSPG3 BASE CARBONATE				-8,170.0		10,900.5					
TOT				-8,340.0		11,070.5					
BOT				-8,390.0		11,120.5					
Daily Drilling Report											

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Printed: Tuesday, August 17, 2021

Daily Drilling Report

H & P - 650

Accept: 8/5/2021	Release:
Days Since LTI: 84.00	Days Since RI: 142.00

ODR

Job:	ODR
Report Date:	8/17/2021
Report #:	15
DFS:	13
AFE #:	9015117
Total AFE + Sup:	\$4,368,347.65
Daily Field Est. (Cost):	\$84,319.75

Daily Drilling Report

Daily Drilling Report

UTL 1308J 3814H				DELAWARE	
H & P - 650				Job:	ODR
Accept: 8/5/2021				Report Date:	8/18/2021
Days Since LTI: 85.00				Report #:	16
Release:				DFS:	14
Days Since RI: 143.00				AFE #:	9015117
				Total AFE + Sup:	\$4,368,347.65
				Daily Field Est. (Cost):	\$239,304.76

P/U/UWI 42-475-38230-0000		Well Profile HORIZONTAL		Open Formation BONE SPRING 3 (BSPG 3)		Field Name SPRABERRY (TREND AREA)										
SSN ID00056173		Property Sub		KB-Grd (ft) 26.50	Orig KB Elev (ft) 2,730.50	Ground Elevation (ft) 2,704.00	Spud Date 7/13/2021	TD Date								
Jobs																
Responsible Grp 2		Responsible Grp 3		Job Type	Start Date		End Date		Job Status							
DRL ENG - ALEXANDER LINDBLAD		AREA TEAM 1		ODR	7/13/2021 00:00				IN PROGRESS							
Job Dates (ex. Estimated Pad Release, TXRRC Calls)																
Type			Subtype		Date		Note									
MILESTONE			ESTIMATED PAD RELEASE		10/30/2021		Drilling intermediate 2 on 1st well of 3 well pad, drilling sequentially.									
Daily Operations																
Footage/Meterage (ft) 0.00		Drilling Hours (hr)		% Rotating Time (%)		End Depth (ftKB) 10,600.0		Target Depth (ftKB) 21,797.0		Daily Field Est Total (Cost) 239,304.76		Cum Field Est To Date (Cost) 1,993,020.85				
24 HR ROP (ft/hr)		Circulating Hours (hr)		% Sliding Time (%)		End Depth (TVD) (ftKB) 10,522.9		Target Depth (TVD) (ftKB) 10,880.1		Daily Mud Field Est (Cost) 1,050.00		Cum Mud Field Est (Cost) 30,889.02		Total AFE + Sup (Cost) 4,368,347.65		
Daily Goal Description DRILLED FEET				Daily Goal - Last 24 0.0				Daily Goal - Next 24 500.0				Goal Comments				
Backbuild Yes		Lateral Inclination		Last Casing String INTERMEDIATE, 8,372.0ftKB					Next Casing String INTERMEDIATE 2, 10,596.0ftKB							
Avg Connection Gas 0.00			Avg Trip Gas 123.00			Avg Background Gas 48.00			Max Connection Gas 0.00			Max Trip Gas 537.00			Max Drill Gas 0.00	
Operations Summary TIH Liner T/ 8,329', CBU, TIH,Tag btm at 10,600', Circ BU, Hang liner and cement, Circ out cmt, Set packer, TOH, L/D running tool, TIH, L/D 27 jts DP, Test 4 1/2 VBR rams. P/U curve assembly, TIH picking up 4 1/2" DP T/ 3,000'																
Operations Next Report Period P/U 4 1/2" DP tripping in hole, Drill out shoe track W/ displacing to 12.1 OBM, Drill 10' of new formation. FIT test to 14# EMW, Drill curve to 11,110'																
Operations at Report Time TIH Picking up DP at 3,000'																
Remarks Rig NPT - Well: 2.0 Total hrs 3rd Party NPT Well: .5 Total hrs Pioneer NPT Well: 0 Total hr 2.5 hrs																
Surf-100%, INT1- 100%, INT2- 100%, Curve- 0%, Prod- 0%																
Time Log																
Start Time	Dur (hr)	End Time	Phase	Operation	Ops Category	Com				Start Depth (ftKB)	End Depth (ftKB)	Prob Hrs (hr)	Prob Ref #			
06:00	0.75	06:45	INT2, CASE & CMT	TIH_NONELEV	NORMAL	TIH liner on 5" DP T/ 8,329'				10,600.0	10,600.0					
06:45	1.25	08:00	INT2, CASE & CMT	CIRC	NORMAL	CBU at 5 bpm, no gas				10,600.0	10,600.0					
08:00	2	10:00	INT2, CASE & CMT	TIH_ELEV	NORMAL	TIH liner on 5" DP T/ 10,343', filling pipe every 15 stands				10,600.0	10,600.0					
10:00	0.25	10:15	INT2, CASE & CMT	LNR_WWASH	NORMAL	Wash last two stands down without any rotating tagging bottom at 10,600'				10,600.0	10,600.0					
10:15	2	12:15	INT2, CASE & CMT	CIRC	NORMAL	R/U Baker cement head and space out at 10,596', CBU at 231 gpm with 491 spp **Offline: Held PJSM covering cementing operations. ** R/U headline to rig floor.				10,600.0	10,600.0					
12:15	1.5	13:45	INT2, CASE & CMT	CMT	NORMAL	P/U - 320k, S/O - 235k. Drop 1 1/4" ball and pump down at 248 gpm with 470 spp, slow to 26 gpm, bump ball seat. pressure up to 3,094 psi shearing anchor free. Pum,p 10 Bbls at 392 gpm with 252 spp. Drop 1 1/2" brass ball and let fall. Pressure up to 1,615 psi and blow ball seat. Pick up to ensure free of hanger, P/U weight at 230k, S/O at 190k.				10,600.0	10,600.0					
13:45	1.5	15:15	INT2, CASE & CMT	CMT	NORMAL	Pressure test lines to 2,500 psi, Pump 20 Bbls 10.5# MPE, 50 Bbls 11.0# Lead cmt and 15 Bbls 13.2# Tail cmt, shut down. Drop top drill pipe wiper plug in cement head, witness tatttle tail function. Displace at 5.2 bpm with 105 Bbls water, 10 Bbls 10.0# MPE and 138 bbls wate. Slowed to to 3.3 bpm with 526 psi 15 Bbls prior to hanger, observed bump casing wiper plug and pressure up to 780 psi and shear free. Slowed to 3.3 bpm with 1,480 psi 20 Bbls prior to latch collar, bumped and pressured up to 2,492 psi, shut down. Bumped plug on time. Held for 3 minutes, bleed back 2 Bbls and floats held. Full returns thru entire job.				10,600.0	10,600.0					
15:15	0.5	15:45	INT2, CASE & CMT	CMT	NORMAL	Pick up to neutral plus 8' exposing setting dogs. Slack off to 200k,180k and then 118k. Felt packer shear at 200k. Repeat process to ensure elements fully compressed to casing wall. Pressure test top packer to 1,000 psi for 5 minutes, good test.				10,600.0	10,600.0					
Daily Drilling Report																
Page 1/4																
Printed: Wednesday, August 18, 2021																

Daily Drilling Report

UTL 1308J 3814H			
H & P - 650			
Accept: 8/5/2021		Release:	
Days Since LTI: 85.00		Days Since RI: 143.00	

DELAWARE		Job:	ODR
		Report Date:	8/18/2021
		Report #:	16
		DFS:	14
		AFE #:	9015117
		Total AFE + Sup:	\$4,368,347.65
		Daily Field Est. (Cost):	\$239,304.76

Time Log										
Start Time	Dur (hr)	End Time	Phase	Operation	Ops Category	Com	Start Depth (ftKB)	End Depth (ftKB)	Prob Hrs (hr)	Prob Ref #
15:45	1	16:45	INT2, CASE & CMT	CIRC	NORMAL	Sting out of the PBR, reverse circulate cement out at 6 bpm staying at 750 psi. 10 Bbls cmt and 20 Bbls MPE back in returns. Pump additional drill pipe volume, all clean.	10,600.0	10,600.0		
16:45	0.25	17:00	INT2, CASE & CMT	RD_CMT	NORMAL	R/D hardline and Baker cement head.	10,600.0	10,600.0		
17:00	1	18:00	PROD, PRE DRL	TOOH_ELEV	NORMAL	TOH F/8,144' T/ 6,123'. filling over the top from trip tanks	10,600.0	10,600.0		
18:00	0.25	18:15	PROD, PRE DRL	SFTY	NORMAL	PJSM	10,600.0	10,600.0		
18:15	0.25	18:30	PROD, PRE DRL	TOOH_ELEV	NORMAL	TOH F/ 6,123' T/ 5,960	10,600.0	10,600.0		
18:30	0.25	18:45	PROD, PRE DRL	HDL_ROT HD	NORMAL	Pull rotating head, Install trip nipple	10,600.0	10,600.0		
18:45	2	20:45	PROD, PRE DRL	TOOH_ELEV	NORMAL	TOH F/ 5,960' T/ surface	10,600.0	10,600.0		
20:45	0.25	21:00	PROD, PRE DRL	L/D BHA	NORMAL	L/D baker running tool	10,600.0	10,600.0		
21:00	0.25	21:15	PROD, PRE DRL	TIH_ELEV	NORMAL	TIH 9 stands of 5" DP	10,600.0	10,600.0		
21:15	1	22:15	PROD, PRE DRL	L/D DP	NORMAL	L/D 27 joints 5" DP	10,600.0	10,600.0		
22:15	2.25	00:30	PROD, PRE DRL	CONC_BOPE	NORMAL	Test Blind rams, VBR rams with 4.5" drill pipe at 10k psi high for 5 minutes and 250 psi low for 5 minutes. ** Stage Curve BHA	10,600.0	10,600.0		
00:30	0.25	00:45	PROD, PRE DRL	WRBSH	NORMAL	Install wear bushing	10,600.0	10,600.0		
00:45	0.5	01:15	PROD, PRE DRL	RIG_SVC	NORMAL	Service rig	10,600.0	10,600.0		
01:15	0.5	01:45	PROD, PRE DRL	SFTY	NORMAL	PJSM covering BHA pick up, Clean rig floor	10,600.0	10,600.0		
01:45	1.25	03:00	PROD, PRE DRL	PU_DIR	NORMAL	Pick up 6 3/4" Curve BHA	10,600.0	10,600.0		
03:00	0.25	03:15	PROD, PRE DRL	SFTY	NORMAL	PJSM on picking up DP	10,600.0	10,600.0		
03:15	2.75	06:00	PROD, PRE DRL	PU_DP	NORMAL	P/U drifted drill pipe off racks, 39 joints 4.5" DP, 30 joints 4.5" HWDP and 4.5" DP to 3,000'. Over boarding Brine Mud to reserve pit.	10,600.0	10,600.0		
Drill Strings										
BHA #7 , PRODUCTION - CURVE										
Bit Run 7			Drill Bit 6 3/4in, U611M, 55508			Bit Type PDC		Make ULTERRA		
Nozzles (1/32") 10/10/10/11/11/11			Bit Total Fluid Area (nozzles) (in²) 0.51		IADC Bit Dull -----		Hours Drilled By Bit (hr)		Depth Drilled By Bit (ft)	
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
264	DRILL PIPE			4 1/2	3.83	8,343.56	10,600.00	138,503.1	193	
30	HWDP			4 1/2	2.75	931.14	2,256.44	34,424.2	55	
39	DRILL PIPE			4 1/2	3.00	1,227.88	1,325.30	20,382.8	20	QUAIL
1	SUB - XO			5.8	2.25	3.55	97.42		0	DRILLING TOOLS INTERNATIONAL
1	DRILL COLLAR - NON MAG			5 3/4	2.88	28.54	93.87		0	DRILLING TOOLS INTERNATIONAL
1	MWD TOOL			5.55	3.13	3.78	65.33		0	PHOENIX
1	MWD TOOL			5.42	3.63	8.34	61.55		0	PHOENIX
1	MWD TOOL			5.46	2.99	3.42	53.21		0	PHOENIX
1	MWD TOOL			5 1/2	2.81	2.99	49.79		0	PHOENIX
1	DRILL COLLAR - PONY			5 3/4	2.88	13.49	46.80		0	DRILLING TOOLS INTERNATIONAL
1	MOTOR - SLICK SLEEVE			5 1/8	0.10	32.31	33.31		0	PHOENIX
Mud Motors										
SN		Bend Angle		Bearing Type		Lobe Config		# Stages		Bit To Bend
24XH513-101		1.83		NOT SEALED		6:7		8.8		4.88
Sensors										
Sensor Type			Sensor-Bit (ft)			Note				
GAMMA			54.91							
DIRECTIONAL			58.00							
Hydraulic Calculations										
Dens Mud (lb/gal)	ECD End (lb/gal)	Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Jet Vel (ft/s)	Bit dP (psi)	Min Open Hole AV (ft/min)	Max Open Hole AV (ft/min)	Vol DrillString (bbl)	Vol Bit to Shoe (bbl)	Vol Shoe to Top (bbl)
Daily Drilling Report										
Page 2/4						Printed: Wednesday, August 18, 2021				

Daily Drilling Report

UTL 1308J 3814H

H & P - 650

Accept: 8/5/2021 Release:
Days Since LTI: 85.00 Days Since RI: 143.00

DELAWARE

Job: ODR
Report Date: 8/18/2021
Report #: 16
DFS: 14
AFE #: 9015117
Total AFE + Sup: \$4,368,347.65
Daily Field Est. (Cost): \$239,304.76

Mud Checks

Time 22:00		Mud Company PIONEER DRILLING FLUIDS		Type WATER BASE	Depth (ftKB) 10,600.0	Density (lb/gal) 9.70	Funnel Viscosity (s/qt) 28	T Flowline (°F) 0.0
PV (cP) 1.0	YP (lb/100ft²) 1.000	Vis 3rpm 1	Vis 6rpm 1	Filtrate (mL/30min) 0.0	HTHP Filtrate (mL/30min)	HTHP Temperature (°F)		HTHP Pressure (psi)
Solids (%) 9.5		Low Gravity Solids (%) 0.7		Sand (%) 0.0	MBT (lb/bbl) 0.0	Pm (mL/mL) 0.200		Pf (mL/mL)
Chlorides (mg/L) 145,000		Calcium (mg/L) 2,080		CaCl (ppm)	Oil Water Ratio 0/100	Electric Stab (V)		Lime (lb/bbl) pH 10.5
Gel 10 sec (lb/100ft²) 1.000				Gel 10 min (lb/100ft²) 1.000			Gel 30 min (lb/100ft²) 1.000	
Comment Dump active tanks and clean; roll frac tanks OBM; 12.1 MW 80 vis swapped OBM tank farm pump; 30 min/ each; received diesel load								

Last BOP Test

Date	Test Type	Item Tested	Next Test Date	Com
8/7/2021	BOP	BOP'S, 8/5/2021 04:30, <class>	8/28/2021	

Leak Off and Formation Integrity Tests

Test Type	Depth (ftKB)	Dens Fluid (lb/gal)
FORMATION INTEGRITY	1,009.0	12.57
FORMATION INTEGRITY	8,390.0	11.20

Casing Pressure Test

Test Type	Test Subtype	Date	Item Tested	Failed?	Time (min)	P (psi)
CASING	STANDARD	7/23/2021	SURFACE, 968.3ftKB	No	30.00	1,000.0
CASING	STANDARD	8/13/2021	INTERMEDIATE, 8,372.0ftKB	No	30.00	30.0

Kick Offs & Key Depths

Date	Type	Top Depth (ftKB)	Depth Top (TVD) (ftKB)

Casing Strings

Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
CONDUCTOR	106.5	106.5	20	H40	78.67		
SURFACE	968.3	967.9	13 3/8	J55	54.50	BTC	658.7
INTERMEDIATE	8,372.0	8,295.9	9 5/8	L80-IC	40.00	BTC	4,837.3

Cement

LINER CEMENT, Casing, 8/17/2021 13:30

Cementing End Date 8/17/2021 15:30	Wellbore ORIGINAL	Technical Result	Comment W-15:14434
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Cement Stages

Description	Final Top De... 7,745.0	Btm (ftKB) 10,596.0	Top Pl... Yes	Btm Pl... Yes	Q Pump Init (... 5	Q Pump Fina... 3	Q Pump Avg... 4	P Pump Final... 1,600.0	P Plug Bump... 2,600.0	Float... No	Recip? No	Rotated? No
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Cement Fluids

Fluid Type MUDPUSH	Estimated Top (ftKB) 7,745.0	Est Btm (ftKB) 8,165.0	Class	Yield (ft³/sack)	Density (lb/gal) 10.00
Fluid Type LEAD CMT	Estimated Top (ftKB) 8,165.0	Est Btm (ftKB) 10,095.0	Class TXI LITEWEIGHT	Yield (ft³/sack) 2.76	Density (lb/gal) 11.00
Fluid Type TAIL CMT	Estimated Top (ftKB) 10,095.0	Est Btm (ftKB) 10,596.0	Class TXI LITEWEIGHT	Yield (ft³/sack) 1.36	Density (lb/gal) 13.20
Fluid Type DSPLMT	Estimated Top (ftKB) 0.0	Est Btm (ftKB) 10,512.0	Class	Yield (ft³/sack)	Density (lb/gal) 8.40

Gas Emissions - Flare

Type	Method	Dur (min)	Amount	Units	Com

Job Supply Amounts

Supply Item Des	Type	Unit Label	Received	Consumed	Returned	Note	Cum On Loc	Cum Consumed
DIESEL	FUEL	GAL		970			6,362	21,875.0
DIESEL	MUD	GAL	7,220			Recieved 7,220 gal	10,938	0.0
WATER	FRESH	BBL	13,974	13,974			0	13,974.0

Mud Additive Amounts

Des	Type	Units	Rec	Consumed	On Loc	Cum Cons
TRANSPORTATION	MISCELLANEOUS	EA	1,050	1,050	0.0	4,315

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	6,335.0
2	GARDNER-DENVER	PZ-11-1600	5 1/2	11.00	0.081	6,335.0
3	GARDNER-DENVER	PZ-11-1600	5 1/2	11.00	0.081	6,335.0

Pump Checks

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

Deviation Surveys

Date	Description FINAL SURVEY	Job
7/14/2021	Description AS DRILL SURVEY	Job ODR, 7/13/2021 00:00

Formations

Formation Name	Prog Top (TVD SS) Override (ft(elv))	Prog Top MD (ftKB)	Prog Top (TVD) (ftKB)	Final Top MD (ftKB)	Final Top (TVD) (ftKB)
268_BSPG3 BASE CARBONATE	-8,170.0		10,900.5		
TOT	-8,340.0		11,070.5		
BOT	-8,390.0		11,120.5		
FTP	-8,365.0		11,095.5		
PBHL/TD	-8,150.0		10,880.5		

Daily Drilling Report

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Printed: Wednesday, August 18, 2021

Daily Drilling Report

H & P - 650	
Accept: 8/5/2021	Release:
Days Since LTI: 85.00	Days Since RI: 143.00

Job:	ODR
Report Date:	8/18/2021
Report #:	16
DFS:	14
AFE #:	9015117
Total AFE + Sup:	\$4,368,347.65
Daily Field Est. (Cost):	\$239,304.76

Daily Contacts				
Job Contact	Title	Office	Mobile	Email
POLYA, JOE, AREA DRILLING SUPERINTENDENT	AREA DRILLING SUPERINTENDENT	432-413-6147	432-352-3155	JOE.POLYA@PXD.COM
LINDBLAD, ALEXANDER, ENGINEER	ENGINEER	972-969-1749		ALEXANDER.LINDBLAD@PXD.COM
BROWN, DAN, SUPERINTENDENT	SUPERINTENDENT		469-203-9731	DAN.BROWN@PXD.COM
JOHNSON, STEVEN, SUPERINTENDENT	SUPERINTENDENT		580-504-9863	STEVEN.JOHNSON@PXD.COM
CREEL, GREG, WELLSITE SUPERVISOR	WELLSITE SUPERVISOR		307-461-0366	GREG.CREEL@PXD.COM
THOMPSON, SCOTT, WELLSITE SUPERVISOR	WELLSITE SUPERVISOR		432-934-9393	SCOTT.THOMPSON@PXD.COM
SMITH, KEITH, MUD ENGINEER	MUD ENGINEER		254-466-1541	KEITH.SMITH@PXD.COM
RIG-H&P 650, RIG PHONE	RIG PHONE	432-538-3406		DL-HP650@PXD.COM

Personnel Log

Company	Count
PIONEER NATURAL RESOURCES USA INC	3
HELMERICH & PAYNE INTERNATIONAL DRILLING CO	13
PHOENIX TECHNOLOGY SERVICES USA INC	4
AERION RENTAL SERVICES	1
STRATAGRAPH INC	2
SAFETY AUTOMATION TECHNOLOGY LLC	2

Daily Drilling Report

UTL 1308J 3814H	
H & P - 650	
Accept: 8/5/2021	Release:
Days Since LTI: 86.00	Days Since RI: 144.00

DELAWARE	
Job:	ODR
Report Date:	8/19/2021
Report #:	17
DFS:	15
AFE #:	9015117
Total AFE + Sup:	\$4,368,347.65
Daily Field Est. (Cost):	\$279,277.06

Daily Drilling Report Page 1/4 Printed: Thursday, August 19, 2021

Daily Drilling Report

UTL 1308J 3814H		DELAWARE
H & P - 650		Job: ODR
Accept: 8/5/2021		Report Date: 8/19/2021
Days Since LTI: 86.00		Report #: 17
Release:		DFS: 15
Days Since RI: 144.00		AFE #: 9015117
		Total AFE + Sup: \$4,368,347.65
		Daily Field Est. (Cost): \$279,277.06

Drill Strings																			
BHA #7 , PRODUCTION - CURVE																			
Bit Run 7				Drill Bit 6 3/4in, U611M, 55508						Bit Type PDC				Make ULTERRA					
Nozzles (1/32") 10/10/10/11/11/11				Bit Total Fluid Area (nozzles) (in²) 0.51			IADC Bit Dull -----			Hours Drilled By Bit (hr) 10.00				Depth Drilled By Bit (ft) 550.00					
BHA Drilling Time (hr) 10.00				BHA Depth Drilled (ft) 550.00			BHA ROP (ft/hr) 55.0			Depth In (ftKB) 10,600.0				Depth Out (ftKB) 11,150.0					
Drill String Components																			
Jts	Item Des			OD (in)	ID (in)	Len (ft)	Cum Len (ft)	Wt (lbf)	Cum Wt (1000lbf)				Make						
282	DRILL PIPE			4 1/2	3.83	8,893.56	11,150.00	147,633.1	202										
30	HWDP			4 1/2	2.75	931.14	2,256.44	34,424.2	55										
39	DRILL PIPE			4 1/2	3.00	1,227.88	1,325.30	20,382.8	20	QUAIL									
1	SUB - XO			5.8	2.25	3.55	97.42		0	DRILLING TOOLS INTERNATIONAL									
1	DRILL COLLAR - NON MAG			5 3/4	2.88	28.54	93.87		0	DRILLING TOOLS INTERNATIONAL									
1	MWD TOOL			5.55	3.13	3.78	65.33		0	PHOENIX									
1	MWD TOOL			5.42	3.63	8.34	61.55		0	PHOENIX									
1	MWD TOOL			5.46	2.99	3.42	53.21		0	PHOENIX									
1	MWD TOOL			5 1/2	2.81	2.99	49.79		0	PHOENIX									
1	DRILL COLLAR - PONY			5 3/4	2.88	13.49	46.80		0	DRILLING TOOLS INTERNATIONAL									
1	MOTOR - SLICK SLEEVE			5 1/8	0.10	32.31	33.31		0	PHOENIX									
Mud Motors																			
SN		Bend Angle		Bearing Type		Lobe Config		# Stages		Lwr DefIn Type		Bit To Bend							
24XH513-101		1.83		NOT SEALED		6:7		8.8				4.88							
Sensors																			
Sensor Type				Sensor-Bit (ft)						Note									
GAMMA				54.91															
DIRECTIONAL				58.00															
Drilling Parameters																			
Start Time	End Time	Start Depth (ftKB)	Int Depth (ft)	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	ROP Average (ft/hr)	Drill Str Wt (1000lbf)	PU Str Wt (1000lbf)	SO Str Wt (1000lbf)	Off-Btm Str Wt (1000lbf)	Drill Tq	Off Btm Tq	TFO (°)		
20:00	20:15	10,600.0	10.00	40.0	25	15	300.0	325	4,000.0	30.0	212	242	190	212	8,000.0	6,000.0	0		
20:15	21:15	10,610.0	50.00	50.0	25	15	450.0	375	4,400.0	65.0	212	242	190	212	8,000.0	6,000.0	0		
21:15	00:45	10,660.0	165.00	47.1	20	0	750.0	300	3,500.0	60.0	212	242	190	212	0.0	0.0	75		
00:45	01:00	10,825.0	30.00	120.0	25	20	950.0	300	3,700.0	120.0	212	242	190	212	11,000.0	6,000.0	0		
01:00	02:15	10,855.0	64.00	51.2	20	0	700.0	300	3,500.0	90.0	212	242	190	212	0.0	0.0	0		
02:15	02:30	10,919.0	30.00	120.0	25	20	950.0	300	3,700.0	120.0	212	242	190	212	10,000.0	6,000.0	0		
02:30	03:30	10,949.0	64.00	64.0	20	0	700.0	350	3,500.0	90.0	212	242	190	212	0.0	0.0	345		
03:30	03:45	11,013.0	11.00	44.0	25	20	950.0	350	3,700.0	100.0	212	242	190	212	10,000.0	6,000.0	0		
03:45	06:00	11,024.0	126.00	56.0	20	0	700.0	300	3,500.0	60.0	212	242	190	212	0.0	0.0	0		
Hydraulic Calculations																			
Dens Mud (lb/gal)	ECD End (lb/gal)	Bit Hydraulic Power (hp)		HP/Area (hp/in²)		Jet Vel (ft/s)		Bit dP (psi)		Min Open Hole AV (ft/min)		Max Open Hole AV (ft/min)		Vol DrillString (bbl)		Vol Bit to Shoe (bbl)		Vol Shoe to Top (bbl)	
12.40	13.12	70.4		2.0		189.3		402.4		8.4		616.7		144.59		12.79		521.00	
Mud Checks																			
Time 23:55		Mud Company PIONEER DRILLING FLUIDS				Type OIL BASE			Depth (ftKB) 10,800.0		Density (lb/gal) 12.40		Funnel Viscosity (s/qt) 90		T Flowline (°F) 120.0				
PV (cP) 34.0		YP (lbf/100ft²) 16.000		Vis 3rpm 9		Vis 6rpm 11		Filtrate (mL/30min)		HTHP Filtrate (mL/30min) 22.0		HTHP Temperature (°F) 250.0			HTHP Pressure (psi) 500.0				
Solids (%) 25.0			Low Gravity Solids (%) 11.7			Sand (%)			MBT (lb/bbl)			Pm (mL/mL)			Pf (mL/mL)				
Chlorides (mg/L) 65,000			Calcium (mg/L) 17,900			CaCl (ppm)		Oil Water Ratio 33/67		Electric Stab (V) 275.0			Lime (lb/bbl) 5.2			pH			
Gel 10 sec (lbf/100ft²) 13.000						Gel 10 min (lbf/100ft²) 26.000						Gel 30 min (lbf/100ft²) 32.000							
Comment Dust up active system after 2 circulations from 11.65 to 12.4 ppg. While drilling ahead Maintain 12.4 ppg unless advised different; run diesel 10 sec/qt; 220 gallons of Mul ; 110 gallons of Wet for dusting the active up																			
Last BOP Test																			
Date		Test Type			Item Tested				Next Test Date		Com								
8/7/2021		BOP			BOP'S, 8/5/2021 04:30, <class>				8/28/2021										
Daily Drilling Report																			

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Printed: Thursday, August 19, 2021

Daily Drilling Report

UTL 1308J 3814H	
H & P - 650	
Accept: 8/5/2021	Release:
Days Since LTI: 86.00	Days Since RI: 144.00

DELAWARE	
Job:	ODR
Report Date:	8/19/2021
Report #:	17
DFS:	15
AFE #:	9015117
Total AFE + Sup:	\$4,368,347.65
Daily Field Est. (Cost):	\$279,277.06

Leak Off and Formation Integrity Tests								
Test Type		Depth (ftKB)		Dens Fluid (lb/gal)				
FORMATION INTEGRITY		1,009.0		12.57				
FORMATION INTEGRITY		8,390.0		11.20				
FORMATION INTEGRITY		10,596.0		14.04				
Casing Pressure Test								
Test Type		Test Subtype		Date	Item Tested	Failed?	Time (min)	P (psi)
CASING		STANDARD		7/23/2021	SURFACE, 968.3ftKB	No	30.00	1,000.0
CASING		STANDARD		8/13/2021	INTERMEDIATE, 8,372.0ftKB	No	30.00	30.0
CASING		STANDARD		8/18/2021	INTERMEDIATE 2, 10,596.0ftKB	No	30.00	2,585.0
Kick Offs & Key Depths								
Date		Type		Top Depth (ftKB)		Depth Top (TVD) (ftKB)		
8/18/2021 21:00		KICK OFF		10,660.0		10,582.7		
Casing Strings								
Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)	
CONDUCTOR	106.5	106.5	20	H40	78.67			
SURFACE	968.3	967.9	13 3/8	J55	54.50	BTC	658.7	
INTERMEDIATE	8,372.0	8,295.9	9 5/8	L80-IC	40.00	BTC	4,837.3	
INTERMEDIATE 2	10,596.0	10,518.9	7 5/8	P110-IC	29.70	WEDGE 441	7,669.6	
Gas Emissions - Flare								
Type	Method	Dur (min)	Amount	Units	Com			
Job Supply Amounts								
Supply Item Des	Type	Unit Label	Received	Consumed	Returned	Note	Cum On Loc	Cum Consumed
DIESEL	FUEL	GAL	7,222	1,454	0		12,130	23,329.0
DIESEL	MUD	GAL	3,846	0	0		14,784	0.0
WATER	FRESH	BBL	0	0	0		0	13,974.0
Mud Additive Amounts								
Des	Type	Units	Rec	Consumed	On Loc	Cum Cons		
BAROID 41 - TON (ST)	WEIGHTING MATERIAL	TON	41	25	30.47	72		
TRANSPORTATION	MISCELLANEOUS	EA	2,100	2,100	0.0	6,415		
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	6,335.0		
2	GARDNER-DENVER	PZ-11-1600	5 1/2	11.00	0.081	6,335.0		
3	GARDNER-DENVER	PZ-11-1600	5 1/2	11.00	0.081	6,335.0		
Pump Checks								
Pump #	Depth (ftKB)	Time	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)		
Deviation Surveys								
Date	Description FINAL SURVEY					Job		
Date 7/14/2021	Description AS DRILL SURVEY					Job ODR, 7/13/2021 00:00		
Survey Data - All surveys for 24 hr reporting period								
MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	
10,602.00	3.50	104.99	10,524.91	-782.94	-326.78	-720.17	1.38	
10,673.00	6.34	93.74	10,595.64	-777.40	-327.60	-714.16	4.21	
10,767.00	19.97	75.61	10,686.98	-756.38	-323.93	-693.33	14.98	
10,862.00	30.05	78.76	10,772.97	-716.37	-315.24	-654.19	10.70	
Formations								
Formation Name			Prog Top (TVD SS) Override (ft(elv))	Prog Top MD (ftKB)	Prog Top (TVD) (ftKB)	Final Top MD (ftKB)	Final Top (TVD) (ftKB)	
TOT			-8,340.0		11,070.5			
BOT			-8,390.0		11,120.5			
FTP			-8,365.0		11,095.5			
Daily Contacts								
Job Contact		Title	Office	Mobile	Email			
POLYA, JOE, AREA DRILLING SUPERINTENDENT		AREA DRILLING SUPERINTENDENT	432-413-6147	432-352-3155	JOE.POLYA@PXD.COM			
LINDBLAD, ALEXANDER, ENGINEER		ENGINEER	972-969-1749		ALEXANDER.LINDBLAD@PXD.COM			
VILLESCAS, BERNIE, SUPERINTENDENT		SUPERINTENDENT	432-571-2950	432-312-2088	BERNIE.VILLESCAS@PXD.COM			
WAGNON, TIM, SUPERINTENDENT		SUPERINTENDENT		409-489-2208	TIM.WAGNON@PXD.COM			
CREEL, GREG, WELLSITE SUPERVISOR		WELLSITE SUPERVISOR		307-461-0366	GREG.CREEL@PXD.COM			
GARCIA, ANDREW, WELLSITE SUPERVISOR		WELLSITE SUPERVISOR		432-813-0116	ANDREW.GARCIA@PXD.COM			
SMITH, KEITH, MUD ENGINEER		MUD ENGINEER		254-466-1541	KEITH.SMITH@PXD.COM			
RIG-H&P 650, RIG PHONE		RIG PHONE	432-538-3406		DL-HP650@PXD.COM			
Personnel Log								
Company							Count	
PIONEER NATURAL RESOURCES USA INC							4	
HELMERICH & PAYNE INTERNATIONAL DRILLING CO							13	
PHOENIX TECHNOLOGY SERVICES USA INC							4	
AERION RENTAL SERVICES							1	
STRATAGRAPH INC							2	
Daily Drilling Report								

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Printed: Thursday, August 19, 2021

Daily Drilling Report

UTL 1308J 3814H

DELAWARE

Job:	ODR
Report Date:	8/19/2021
Report #:	17
DFS:	15
AFE #:	9015117
Total AFE + Sup:	\$4,368,347.65
Daily Field Est. (Cost):	\$279,277.06

H & P - 650

Accept: 8/5/2021	Release:
Days Since LTI: 86.00	Days Since RI: 144.00

Patient Information	
Name	
Age	
Gender	
Address	
City	
State	
Zip	
Phone	
Medical History	
Past Medical History	
Current Medical History	
Family History	
Social History	
Physical Examination	
Vital Signs	
Laboratory Tests	
Imaging Studies	
Treatment Plan	
Follow-up	

Daily Drilling Report

UTL 1308J 3814H				DELAWARE	
H & P - 650				Job:	ODR
Accept: 8/5/2021				Report Date:	8/20/2021
Days Since LTI: 87.00				Report #:	18
Release:				DFS:	16
Days Since RI: 145.00				AFE #:	9015117
				Total AFE + Sup:	\$4,368,347.65
				Daily Field Est. (Cost):	\$151,691.23

P/I/UWI 42-475-38230-0000		Well Profile HORIZONTAL		Open Formation BONE SPRING 3 (BSPG 3)		Field Name SPRABERRY (TREND AREA)				
SSN ID00056173		Property Sub	KB-Grd (ft) 26.50	Orig KB Elev (ft) 2,730.50	Ground Elevation (ft) 2,704.00	Spud Date 7/13/2021		TD Date		
Jobs										
Responsible Grp 2 DRL ENG - ALEXANDER LINDBLAD		Responsible Grp 3 AREA TEAM 1		Job Type ODR	Start Date 7/13/2021 00:00		End Date	Job Status IN PROGRESS		
Job Dates (ex. Estimated Pad Release, TXRRC Calls)										
Type			Subtype		Date		Note			
MILESTONE			ESTIMATED PAD RELEASE		10/30/2021		Drilling curve on 1st well of 3 well pad, drilling sequentially.			
Daily Operations										
Footage/Meterage (ft) 489.00		Drilling Hours (hr) 12.00		% Rotating Time (%) 33.33	End Depth (ftKB) 11,639.0		Target Depth (ftKB) 21,797.0	Daily Field Est Total (Cost) 151,691.23	Cum Field Est To Date (Cost) 2,425,088.59	
24 HR ROP (ft/hr) 40.8		Circulating Hours (hr)		% Sliding Time (%) 66.67	End Depth (TVD) (ftKB) 11,089.0		Target Depth (TVD) (ftKB) 10,880.1	Daily Mud Field Est (Cost) 15,908.75	Cum Mud Field Est (Cost) 53,398.24	Total AFE + Sup (Cost) 4,368,347.65
Daily Goal Description DRILLED FEET				Daily Goal - Last 24 450.0			Daily Goal - Next 24 1,500.0		Goal Comments Goal met	
Backbuild Yes		Lateral Inclination		Last Casing String INTERMEDIATE 2, 10,596.0ftKB				Next Casing String PROPOSED PRODUCTION, 21,797.0ftKB		
Avg Connection Gas 255.00		Avg Trip Gas 146.00		Avg Background Gas 202.00		Max Connection Gas 512.00		Max Trip Gas 24.00		Max Drill Gas 555.00
Operations Summary Build Curve F/ 11,150' T/ EOC @ 11,459', Drill lateral Section T/ 11,639', circulate bottoms up, Backreaming Curve, Flow Check, Pump Slug, TOO H T/9,778', pull rotating head, TOO H T/BHA, LD curve assembly, PJSM on picking up RSS, Make up RSS assembly, TIH T/1,000' (0% sliding, 2.95° Avg lateral DLS, 0' High, 0' Low) Operations Next Report Period TIH with RSS, downlink RSS, drill 6 3/4" lateral T/13,100' Operations at Report Time TIH with RSS @1,000' Remarks Rig NPT - Well: 2.0 Total hrs 3rd Party NPT Well: 1.0 Total hrs Pioneer NPT Well: 0 Total hr 3.00 hrs Landing, 11459 MD, 90°, 74.02 Azi, 11089.29, 2.74 Above, 5.7 Left Surf-100%, INT1- 100%, INT2- 100%, Curve- 100%, Prod- 1%										
Time Log										
Start Time	Dur (hr)	End Time	Phase	Operation	Ops Category	Com	Start Depth (ftKB)	End Depth (ftKB)	Prob Hrs (hr)	Prob Ref #
06:00	9.25	15:15	PROD, DRL CURVE	DRL	NORMAL	Build Curve F/ 11,150' T/ 11,459' as per Plan #2. Rotate only as needed to maintain build rate. MW 12.4# Landing, 11459 MD, 90°, 74.02 Azi, 11089.29, 2.74 Above, 5.7 Left * 15% Chert at the base of the 3rd bone Springs	11,150.0	11,459.0		
15:15	1.25	16:30	PROD, DRL LAT	DRL	NORMAL	Drill lateral F/ 11,459' T/ 11,579'	11,459.0	11,579.0		
16:30	0.5	17:00	PROD, DRL LAT	RIG_SVC	NORMAL	Rig Service	11,579.0	11,579.0		
17:00	1	18:00	PROD, DRL LAT	DRL	NORMAL	Drill F/ 11,579' T/ 11,639'	11,579.0	11,639.0		
18:00	1.25	19:15	PROD, DRL LAT	CIRC	NORMAL	CBU at 600 gpm with 15 rpm	11,639.0	11,639.0		
19:15	2	21:15	PROD, DRL LAT	TOOH_NONEL EV	NORMAL	TOH backreaming up thru curve F/ 11,400' T/ 10,680'	11,639.0	11,639.0		
21:15	0.25	21:30	PROD, DRL LAT	FLOW_CHK	NORMAL	Flow check, well is static. Pump slug.	11,639.0	11,639.0		
21:30	0.5	22:00	PROD, DRL LAT	TOOH_ELEV	NORMAL	TOOH F/10,680' - T/9,778'. Filling the over top of trip tanks and observed proper fill.	11,639.0	11,639.0		
22:00	0.25	22:15	PROD, DRL LAT	HDL_ROT HD	NORMAL	Pull rotating head and install trip nipple	11,639.0	11,639.0		
22:15	3.75	02:00	PROD, DRL LAT	TOOH_ELEV	NORMAL	TOOH F/9,778' - T/BHA. Filling the over top of trip tanks and observed proper fill.	11,639.0	11,639.0		
02:00	1	03:00	PROD, DRL LAT	LD_DIR	NORMAL	Lay down curve BHA.	11,639.0	11,639.0		
03:00	0.25	03:15	PROD, DRL LAT	SFTY	NORMAL	Clean rig floor	11,639.0	11,639.0		
03:15	0.25	03:30	PROD, DRL LAT	SFTY	NORMAL	PJSM on picking up BHA	11,639.0	11,639.0		
03:30	1.75	05:15	PROD, DRL LAT	PU_DIR	NORMAL	Pick up RSS assembly and make up bit.	11,639.0	11,639.0		
05:15	0.75	06:00	PROD, DRL LAT	TIH_ELEV	NORMAL	TIH with RSS assembly T/1,000' and filling pipe every 40 stands. Hole is giving proper displacement. Tested MWD on first fill up.	11,639.0	11,639.0		
Daily Drilling Report										

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Printed: Friday, August 20, 2021

Daily Drilling Report

UTL 1308J 3814H	
H & P - 650	
Accept: 8/5/2021	Release:
Days Since LTI: 87.00	Days Since RI: 145.00

DELAWARE	
Job:	ODR
Report Date:	8/20/2021
Report #:	18
DFS:	16
AFE #:	9015117
Total AFE + Sup:	\$4,368,347.65
Daily Field Est. (Cost):	\$151,691.23

Drill Strings																		
BHA #7 , PRODUCTION - CURVE																		
Bit Run 7				Drill Bit 6 3/4in, U611M, 55508						Bit Type PDC				Make ULTERRA				
Nozzles (1/32") 10/10/10/11/11/11				Bit Total Fluid Area (nozzles) (in²) 0.51			IADC Bit Dull 1-1-WT-N-X-0-CT-BHA			Hours Drilled By Bit (hr) 22.00				Depth Drilled By Bit (ft) 1,039.00				
BHA Drilling Time (hr) 22.00				BHA Depth Drilled (ft) 1,039.00			BHA ROP (ft/hr) 47.2			Depth In (ftKB) 10,600.0				Depth Out (ftKB) 11,639.0				
Drill String Components																		
Jts	Item Des			OD (in)		ID (in)		Len (ft)		Cum Len (ft)		Wt (lbf)		Cum Wt (1000lbf)		Make		
298	DRILL PIPE			4 1/2		3.83		9,382.56		11,639.00		155,750.5		211				
30	HWDP			4 1/2		2.75		931.14		2,256.44		34,424.2		55				
39	DRILL PIPE			4 1/2		3.00		1,227.88		1,325.30		20,382.8		20		QUAIL		
1	SUB - XO			5.8		2.25		3.55		97.42				0		DRILLING TOOLS INTERNATIONAL		
1	DRILL COLLAR - NON MAG			5 3/4		2.88		28.54		93.87				0		DRILLING TOOLS INTERNATIONAL		
1	MWD TOOL			5.55		3.13		3.78		65.33				0		PHOENIX		
1	MWD TOOL			5.42		3.63		8.34		61.55				0		PHOENIX		
1	MWD TOOL			5.46		2.99		3.42		53.21				0		PHOENIX		
1	MWD TOOL			5 1/2		2.81		2.99		49.79				0		PHOENIX		
1	DRILL COLLAR - PONY			5 3/4		2.88		13.49		46.80				0		DRILLING TOOLS INTERNATIONAL		
1	MOTOR - SLICK SLEEVE			5 1/8		0.10		32.31		33.31				0		PHOENIX		
Mud Motors																		
SN		Bend Angle		Bearing Type		Lobe Config		# Stages		Lwr DefIn Type		Bit To Bend						
24XH513-101		1.83		NOT SEALED		6:7		8.8				4.88						
Sensors																		
Sensor Type				Sensor-Bit (ft)						Note								
GAMMA				54.91														
DIRECTIONAL				58.00														
Drilling Parameters																		
Start Time	End Time	Start Depth (ftKB)	Int Depth (ft)	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	ROP Average (ft/hr)	Drill Str Wt (1000lbf)	PU Str Wt (1000lbf)	SO Str Wt (1000lbf)	Off-Btm Str Wt (1000lbf)	Drill Tq	Off Btm Tq	TFO (°)	
06:00	11:00	11,150.0	52.00	10.4	20	0	400.0	300	3,200.0	20.0	212	242	190	212	0.0	0.0	0	
11:00	11:30	11,202.0	15.00	30.0	20	20	750.0	300	2,800.0	55.0	212	247	197	212	7,000.0	10,000.0	0	
11:30	13:00	11,217.0	80.00	53.3	25	0	500.0	300	2,800.0	60.0	212	247	197	212	0.0	0.0	15	
13:00	13:30	11,297.0	20.00	40.0	25	20	700.0	300	2,800.0	60.0	212	247	197	212	7,000.0	10,000.0	0	
13:30	15:00	11,317.0	142.00	94.7	35	0	500.0	300	2,800.0	75.0	212	247	197	212	0.0	0.0	0	
15:00	18:00	11,459.0	180.00	60.0	25	20	700.0	300	2,950.0	75.0	218	248	198	218	7,000.0	13,000.0	0	
BHA #8 , PRODUCTION - LATERAL																		
Bit Run 8				Drill Bit 6 3/4in, D406TS, 5321334						Bit Type PDC				Make GE/BAKER HUGHES				
Nozzles (1/32") 10/10/10/10/10/11				Bit Total Fluid Area (nozzles) (in²) 0.48			IADC Bit Dull -----			Hours Drilled By Bit (hr)				Depth Drilled By Bit (ft)				
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		
356	DRILL PIPE			4 1/2		3.00		11,225.46		11,639.00				14		RIG		
4	HWDP - SPIRALED			4 1/2		3.00		123.90		413.54		6,108.3		14		RIG		
1	REAMER - DRILL N' REAM			5 1/4		3.00		8.15		289.64				8		DRILLING TOOLS INTERNATIONAL		
5	HWDP - SPIRALED			4 1/2		3.00		156.36		281.49		7,708.5		8		RIG		
1	SUB - XO			5.29		2.25		3.02		125.13				0		DRILLING TOOLS INTERNATIONAL		
1	MOTOR - SLICK SLEEVE			5 1/4		2.00		35.00		122.11				0		PHOENIX		
1	SUB - SHOCK			5 1/4		2.44		18.15		87.11				0		TOMAX		
1	SUB - FILTER			5.32		2.50		3.58		68.96				0		DRILLING TOOLS INTERNATIONAL		
1	STABILIZER			5.23		2.69		4.83		65.38				0		DRILLING TOOLS INTERNATIONAL		
1	DRILL COLLAR - PONY, NON MAG			5.05		2.75		21.44		60.55				0		DRILLING TOOLS INTERNATIONAL		
1	STABILIZER			5.24		2.69		4.85		39.11				0		DRILLING TOOLS INTERNATIONAL		
Daily Drilling Report																		
Page 2/4																		
Printed: Friday, August 20, 2021																		

Daily Drilling Report

UTL 1308J 3814H				DELAWARE			
H & P - 650				Job:	ODR		
Accept: 8/5/2021				Report Date:	8/20/2021		
Days Since LTI: 87.00				Report #:	18		
Release:				DFS:	16		
Days Since RI: 145.00				AFE #:	9015117		
				Total AFE + Sup:	\$4,368,347.65		
				Daily Field Est. (Cost):	\$151,691.23		

Drill String Components										
Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)	Wt (lbf)	Cum Wt (1000lbf)	Make		
1	DRILL COLLAR - PONY, NON MAG	5.42	2.81	14.62	34.26		0	DRILLING TOOLS INTERNATIONAL		
1	SUB - UBHO	5.16	2.69	3.64	19.64		0	DRILLING TOOLS INTERNATIONAL		
1	STABILIZER	5 1/4	3.00	2.56	16.00		0	DRILLING TOOLS INTERNATIONAL		
1	RSS TOOL	4 3/4	2.50	12.44	13.44		0	PHOENIX		
Mud Motors										
SN	Bend Angle	Bearing Type	Lobe Config	# Stages	Lwr Defln Type	Bit To Bend				
PHX576060-PTS	0	NOT SEALED	7:8	7		0				
Sensors										
Sensor Type		Sensor-Bit (ft)			Note					
GAMMA		29.28								
DIRECTIONAL		36.00								
Hydraulic Calculations										
Dens Mud (lb/gal)	ECD End (lb/gal)	Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Jet Vel (ft/s)	Bit dP (psi)	Min Open Hole AV (ft/min)	Max Open Hole AV (ft/min)	Vol DrillString (bbl)	Vol Bit to Shoe (bbl)	Vol Shoe to Top (bbl)
12.40	13.18	70.4	2.0	189.3	402.4	8.4	616.7	151.55	24.81	521.00
Mud Checks										
Time 19:30		Mud Company PIONEER DRILLING FLUIDS			Type OIL BASE		Depth (ftKB) 11,630.0		Density (lb/gal) 12.40	
Funnel Viscosity (s/qt) 66		T Flowline (°F) 105.0								
PV (cP) 28.0	YP (lbf/100ft²) 14.000	Vis 3rpm 7	Vis 6rpm 8	Filtrate (mL/30min)		HTHP Filtrate (mL/30min) 11.2		HTHP Temperature (°F) 200.0		HTHP Pressure (psi) 500.0
Solids (%) 23.0		Low Gravity Solids (%) 7.6		Sand (%)		MBT (lb/bbl)		Pm (mL/mL)		Pf (mL/mL)
Chlorides (mg/L) 40,000		Calcium (mg/L) 11,600		CaCl (ppm)		Oil Water Ratio 73/27		Electric Stab (V) 435.0		Lime (lb/bbl) 3.4
pH										
Gel 10 sec (lbf/100ft²) 9.000				Gel 10 min (lbf/100ft²) 21.000				Gel 30 min (lbf/100ft²) 23.000		
Comment Maintain MW 12.4 ppg; Add Diesel @7.1 bbl/hr; Add .42 ppb GelTone; Add 1.65 ppb DD MUL; Add .82 ppb DD Wet; Add 2.1 ppb Calcium Chloride; Add 1 ppb Lime; Add .84 ppb XMP Gilsonite										
Last BOP Test										
Date	Test Type		Item Tested			Next Test Date		Com		
8/7/2021	BOP		BOP'S, 8/5/2021 04:30, <class>			8/28/2021				
Leak Off and Formation Integrity Tests										
Test Type			Depth (ftKB)			Dens Fluid (lb/gal)				
FORMATION INTEGRITY			1,009.0			12.57				
FORMATION INTEGRITY			8,390.0			11.20				
FORMATION INTEGRITY			10,596.0			14.04				
Casing Pressure Test										
Test Type		Test Subtype		Date		Item Tested		Failed?	Time (min)	P (psi)
CASING		STANDARD		7/23/2021		SURFACE, 968.3ftKB		No	30.00	1,000.0
CASING		STANDARD		8/13/2021		INTERMEDIATE, 8,372.0ftKB		No	30.00	30.0
CASING		STANDARD		8/18/2021		INTERMEDIATE 2, 10,596.0ftKB		No	30.00	2,585.0
Kick Offs & Key Depths										
Date			Type			Top Depth (ftKB)		Depth Top (TVD) (ftKB)		
8/18/2021 21:00			KICK OFF			10,660.0		10,582.7		
8/19/2021 15:15			HEEL			11,459.0		11,089.1		
Casing Strings										
Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)			
CONDUCTOR	106.5	106.5	20	H40	78.67					
SURFACE	968.3	967.9	13 3/8	J55	54.50	BTC	658.7			
INTERMEDIATE	8,372.0	8,295.9	9 5/8	L80-IC	40.00	BTC	4,837.3			
INTERMEDIATE 2	10,596.0	10,518.9	7 5/8	P110-IC	29.70	WEDGE 441	7,669.6			
Gas Emissions - Flare										
Type	Method	Dur (min)	Amount	Units	Com					
Job Supply Amounts										
Supply Item Des	Type	Unit Label	Received	Consumed	Returned	Note	Cum On Loc	Cum Consumed		
DIESEL	FUEL	GAL	0	1,552	0		10,578	24,881.0		
DIESEL	MUD	GAL	7,219	4,756	0		17,247	4,756.0		
WATER	FRESH	BBL	0	0	0		0	13,974.0		
Mud Additive Amounts										
Des	Type	Units	Rec	Consumed	On Loc	Cum Cons				
BAROID 41 - TON (ST)	WEIGHTING MATERIAL	TON	0	56	0.0	128				
CALCIUM CHLORIDE	SALT	SACK	350	50	300.0	50				
DD Tone	ORGANOPHILLIC CLAY	SACK	0	0	50.0	0				
DDF MUL	ALL IN ONE EMULSIFIER	GAL	0	260	730.0	260				
DDF WET	WETTING AGENT	DRUM	330	130	200.0	130				
Daily Drilling Report										
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Daily Drilling Report

H & P - 650	
Accept: 8/5/2021	Release:
Days Since LTI: 87.00	Days Since RI: 145.00

Job:	ODR
Report Date:	8/20/2021
Report #:	18
DFS:	16
AFE #:	9015117
Total AFE + Sup:	\$4,368,347.65
Daily Field Est. (Cost):	\$151,691.23

Case No. _____	
Date _____	
Patient Name _____	
Room No. _____	
Physician _____	
Nurse _____	
Attending _____	
Resident _____	
Fellow _____	
Intern _____	
Medical Student _____	
Nurse Practitioner _____	
Physician Assistant _____	
Pharmacist _____	
Dietitian _____	
Social Worker _____	
Therapist _____	
Other _____	
1. Chief Complaint	
2. History of Present Illness	
3. Past Medical History	
4. Family History	
5. Social History	
6. Review of Systems	
7. Physical Examination	
8. Laboratory and Diagnostic Studies	
9. Assessment and Plan	
10. Discharge Summary	
11. Follow-up	
12. Other	

Daily Drilling Report

UTL 1308J 3814H				DELAWARE	
H & P - 650				Job:	ODR
Accept: 8/5/2021				Report Date:	8/21/2021
Days Since LTI: 88.00				Report #:	19
Release:				DFS:	17
Days Since RI: 146.00				AFE #:	9015117
				Total AFE + Sup:	\$4,368,347.65
				Daily Field Est. (Cost):	\$151,320.34

Drill String Components																	
Jts	Item Des		OD (in)	ID (in)	Len (ft)	Cum Len (ft)	Wt (lbf)	Cum Wt (1000lbf)	Make								
1	STABILIZER		5.23	2.69	4.83	65.38		0	DRILLING TOOLS INTERNATIONAL								
1	DRILL COLLAR - PONY, NON MAG		5.05	2.75	21.44	60.55		0	DRILLING TOOLS INTERNATIONAL								
1	STABILIZER		5.24	2.69	4.85	39.11		0	DRILLING TOOLS INTERNATIONAL								
1	DRILL COLLAR - PONY, NON MAG		5.42	2.81	14.62	34.26		0	DRILLING TOOLS INTERNATIONAL								
1	SUB - UBHO		5.16	2.69	3.64	19.64		0	DRILLING TOOLS INTERNATIONAL								
1	STABILIZER		5 1/4	3.00	2.56	16.00		0	DRILLING TOOLS INTERNATIONAL								
1	RSS TOOL		4 3/4	2.50	12.44	13.44		0	PHOENIX								
Mud Motors																	
SN		Bend Angle	Bearing Type		Lobe Config		# Stages		Lwr Defln Type		Bit To Bend						
PHX576060-PTS		0	NOT SEALED		7:8		7				0						
Sensors																	
Sensor Type			Sensor-Bit (ft)				Note										
GAMMA			29.28														
DIRECTIONAL			36.00														
Drilling Parameters																	
Start Time	End Time	Start Depth (ftKB)	Int Depth (ft)	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	ROP Average (ft/hr)	Drill Str Wt (1000lbf)	PU Str Wt (1000lbf)	SO Str Wt (1000lbf)	Off-Btm Str Wt (1000lbf)	Drill Tq	Off Btm Tq	TFO (°)
14:00	06:00	11,639.0	1,906.00	119.1	30	100	1,000.0	325	5,000.0	175.0	248	248	168	248	15,000.0	6,000.0	0
Hydraulic Calculations																	
Dens Mud (lb/gal)	ECD End (lb/gal)	Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Jet Vel (ft/s)	Bit dP (psi)	Min Open Hole AV (ft/min)	Max Open Hole AV (ft/min)	Vol DrillString (bbl)	Vol Bit to Shoe (bbl)	Vol Shoe to Top (bbl)							
12.40	12.99	102.1	2.9	218.9	538.3	9.1	492.1	118.07	71.75	521.00							
Mud Checks																	
Time 21:00		Mud Company PIONEER DRILLING FLUIDS				Type OIL BASE		Depth (ftKB) 12,483.0		Density (lb/gal) 12.40		Funnel Viscosity (s/qt) 63		T Flowline (°F) 108.0			
PV (cP) 25.0		YP (lbf/100ft²) 13.000	Vis 3rpm 7	Vis 6rpm 7	Filtrate (mL/30min)		HTHP Filtrate (mL/30min) 10.4		HTHP Temperature (°F) 200.0		HTHP Pressure (psi) 500.0						
Solids (%) 21.5			Low Gravity Solids (%) 4.2		Sand (%)		MBT (lb/bbl)		Pm (mL/mL)		Pf (mL/mL)						
Chlorides (mg/L) 45,000			Calcium (mg/L) 12,800		CaCl (ppm)	Oil Water Ratio 73/27		Electric Stab (V) 425.0		Lime (lb/bbl) 3.0		pH					
Gel 10 sec (lbf/100ft²) 8.000					Gel 10 min (lbf/100ft²) 19.000					Gel 30 min (lbf/100ft²) 26.000							
Comment Maintain MW 12.4 ppg; Add Diesel @7.1 bbl/hr; Add Water @2.1 bbl/hr; Add 5 ppb DD MUL; Add 4 ppb DD LEM; Add 20.33 ppb Calcium Chloride; Add 10.98 ppb Lime;																	
Last BOP Test																	
Date		Test Type			Item Tested			Next Test Date		Com							
8/7/2021		BOP			BOP'S, 8/5/2021 04:30, <class>			8/28/2021									
Leak Off and Formation Integrity Tests																	
Test Type					Depth (ftKB)					Dens Fluid (lb/gal)							
FORMATION INTEGRITY					1,009.0					12.57							
FORMATION INTEGRITY					8,390.0					11.20							
FORMATION INTEGRITY					10,596.0					14.04							
Casing Pressure Test																	
Test Type			Test Subtype			Date		Item Tested			Failed?	Time (min)		P (psi)			
CASING			STANDARD			7/23/2021		SURFACE, 968.3ftKB			No	30.00		1,000.0			
CASING			STANDARD			8/13/2021		INTERMEDIATE, 8,372.0ftKB			No	30.00		30.0			
CASING			STANDARD			8/18/2021		INTERMEDIATE 2, 10,596.0ftKB			No	30.00		2,585.0			
Kick Offs & Key Depths																	
Date				Type				Top Depth (ftKB)				Depth Top (TVD) (ftKB)					
8/18/2021 21:00				KICK OFF				10,660.0				10,582.7					
8/19/2021 15:15				HEEL				11,459.0				11,089.1					
Casing Strings																	
Description	Set Depth (ftKB)		Set Depth (TVD) (ftKB)		OD (in)	Grade	Wt/Len (lb/ft)		Top Thread		P LeakOff (psi)						
CONDUCTOR	106.5		106.5		20	H40	78.67										
SURFACE	968.3		967.9		13 3/8	J55	54.50		BTC		658.7						
INTERMEDIATE	8,372.0		8,295.9		9 5/8	L80-IC	40.00		BTC		4,837.3						
INTERMEDIATE 2	10,596.0		10,518.9		7 5/8	P110-IC	29.70		WEDGE 441		7,669.6						
Gas Emissions - Flare																	
Type		Method	Dur (min)	Amount	Units	Com											
Daily Drilling Report																	

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Printed: Saturday, August 21, 2021

Daily Drilling Report

UTL 1308J 3814H

H & P - 650

Accept: 8/5/2021 Release: 8/5/2021

Days Since LTI: 88.00 Days Since RI: 146.00

DELAWARE

Job: ODR

Report Date: 8/21/2021

Report #: 19

DFS: 17

AFE #: 9015117

Total AFE + Sup: \$4,368,347.65

Daily Field Est. (Cost): \$151,320.34

Job Supply Amounts								
Supply Item Des	Type	Unit Label	Received	Consumed	Returned	Note	Cum On Loc	Cum Consumed
DIESEL	FUEL	GAL	0	1,889	0		8,689	26,770.0
DIESEL	MUD	GAL	0	4,522	0		12,725	9,278.0
WATER	FRESH	BBL	0	0	0		0	13,974.0
Mud Additive Amounts								
Des	Type	Units	Rec	Consumed	On Loc	Cum Cons		
ALUMINUM STERATE	DEFOAMER	SACK	10	0	10.0	0		
BAROID 41 - TON (ST)	WEIGHTING MATERIAL	TON	21	0	77.03	72		
CALCIUM CHLORIDE	SALT	SACK	0	50	250.0	100		
DDF MUL	ALL IN ONE EMULSIFIER	GAL	0	70	330.0	330		
LIME	ALKALINITY CONTROL	SACK	0	22	0.0	150		
LIME	PH MODIFIER	SACK	102	2	350.0	2		
SAFEVERT LEM	LOW END MODIFIER	GAL	660	55	605.0	55		
TRANSPORTATION	MISCELLANEOUS	EA	1,050	1,050	0.0	7,465		
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	6,335.0		
2	GARDNER-DENVER	PZ-11-1600	5 1/2	11.00	0.081	6,335.0		
3	GARDNER-DENVER	PZ-11-1600	5 1/2	11.00	0.081	6,335.0		
Pump Checks								
Pump #	Depth (ftKB)	Time	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)		
1	11,719.0	15:00	790.0	20	64	95		
1	11,719.0	15:00	1,310.0	40	129	95		
1	11,719.0	15:00	1,020.0	30	97	95		
2	11,719.0	15:00	1,300.0	40	129	95		
2	11,719.0	15:00	780.0	20	64	95		
2	11,719.0	15:00	1,010.0	30	97	95		
2	13,320.0	03:30	600.0	20	64	95		
2	13,320.0	03:30	1,820.0	60	193	95		
2	13,320.0	03:30	1,100.0	40	129	95		
3	13,320.0	03:30	1,800.0	60	193	95		
3	13,320.0	03:30	600.0	20	64	95		
3	13,320.0	03:30	1,100.0	40	129	95		
Deviation Surveys								
Date		Description				Job		
		FINAL SURVEY						
Date		Description				Job		
7/14/2021		AS DRILL SURVEY				ODR, 7/13/2021 00:00		
Survey Data - All surveys for 24 hr reporting period								
MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	
11,684.00	89.47	72.66	11,089.57	-17.04	-119.25	17.12	1.56	
11,779.00	89.66	72.70	11,090.29	77.94	-90.97	107.81	0.20	
11,873.00	88.77	72.79	11,091.58	171.92	-63.09	197.57	0.95	
11,968.00	89.89	73.27	11,092.69	266.90	-35.36	288.42	1.28	
12,062.00	90.50	74.93	11,092.37	360.90	-9.61	378.82	1.88	
12,157.00	89.58	76.27	11,092.30	455.84	14.01	470.83	1.71	
12,251.00	89.27	75.93	11,093.24	549.75	36.59	562.08	0.49	
12,345.00	88.21	75.55	11,095.31	643.67	59.74	653.16	1.20	
12,439.00	88.82	72.79	11,097.75	737.62	85.37	743.55	3.01	
12,534.00	91.37	75.75	11,097.59	832.60	111.12	834.98	4.11	
12,628.00	91.31	75.94	11,095.39	926.51	134.10	926.10	0.21	
12,722.00	90.81	75.19	11,093.65	1,020.44	157.53	1,017.11	0.96	
12,817.00	90.62	73.25	11,092.47	1,115.43	183.36	1,108.52	2.05	
12,911.00	91.57	73.53	11,090.67	1,209.41	210.23	1,198.58	1.05	
13,006.00	90.39	73.06	11,089.05	1,304.39	237.53	1,289.56	1.34	
13,100.00	90.73	73.41	11,088.13	1,398.38	264.64	1,379.56	0.52	
13,195.00	90.08	73.44	11,087.46	1,493.38	291.74	1,470.61	0.68	
13,289.00	89.61	73.48	11,087.71	1,587.38	318.50	1,560.72	0.50	
Formations								
Formation Name			Prog Top (TVD SS) Override (ft(elv))	Prog Top MD (ftKB)	Prog Top (TVD) (ftKB)	Final Top MD (ftKB)	Final Top (TVD) (ftKB)	
BOT			-8,390.0		11,120.5			
FTP			-8,365.0		11,095.5			
Daily Contacts								
Job Contact		Title	Office	Mobile	Email			
POLYA, JOE, AREA DRILLING SUPERINTENDENT		AREA DRILLING SUPERINTENDENT	432-413-6147	432-352-3155	JOE.POLYA@PXD.COM			
LINDBLAD, ALEXANDER, ENGINEER		ENGINEER	972-969-1749		ALEXANDER.LINDBLAD@PXD.COM			
VILLESCAS, BERNIE, SUPERINTENDENT		SUPERINTENDENT	432-571-2950	432-312-2088	BERNIE.VILLESCAS@PXD.COM			
WAGNON, TIM, SUPERINTENDENT		SUPERINTENDENT		409-489-2208	TIM.WAGNON@PXD.COM			
CREEL, GREG, WELLSITE SUPERVISOR		WELLSITE SUPERVISOR		307-461-0366	GREG.CREEL@PXD.COM			
Daily Drilling Report								
				Page 3/4		Printed: Saturday, August 21, 2021		

Daily Drilling Report

H & P - 650	
Accept: 8/5/2021	Release:
Days Since LTI: 88.00	Days Since RI: 146.00

Job:	ODR
Report Date:	8/21/2021
Report #:	19
DFS:	17
AFE #:	9015117
Total AFE + Sup:	\$4,368,347.65
Daily Field Est. (Cost):	\$151,320.34

Daily Contacts				
Job Contact	Title	Office	Mobile	Email
GARCIA, ANDREW, WELLSITE SUPERVISOR	WELLSITE SUPERVISOR		432-813-0116	ANDREW.GARCIA@PXD.COM
SMITH, KEITH, MUD ENGINEER	MUD ENGINEER		254-466-1541	KEITH.SMITH@PXD.COM
RIG-H&P 650, RIG PHONE	RIG PHONE	432-538-3406		DL-HP650@PXD.COM

Personnel Log	
Company	Count
PIONEER NATURAL RESOURCES USA INC	4
HELMERICH & PAYNE INTERNATIONAL DRILLING CO	13
PHOENIX TECHNOLOGY SERVICES USA INC	4
AERION RENTAL SERVICES	1
STRATAGRAPH INC	2
SAFETY AUTOMATION TECHNOLOGY LLC	2
PRO-TEC INSPECTION INC	2

Daily Drilling Report

UTL 1308J 3814H				DELAWARE	
H & P - 650				Job:	ODR
Accept: 8/5/2021				Report Date:	8/22/2021
Days Since LTI: 89.00				Report #:	20
Release:				DFS:	18
Days Since RI: 147.00				AFE #:	9015117
				Total AFE + Sup:	\$4,368,347.65
				Daily Field Est. (Cost):	\$123,028.15

P/UWI 42-475-38230-0000		Well Profile HORIZONTAL		Open Formation BONE SPRING 3 (BSPG 3)		Field Name SPRABERRY (TREND AREA)					
SSN ID00056173		Property Sub	KB-Grd (ft) 26.50	Orig KB Elev (ft) 2,730.50	Ground Elevation (ft) 2,704.00	Spud Date 7/13/2021		TD Date			
Jobs											
Responsible Grp 2		Responsible Grp 3		Job Type	Start Date		End Date	Job Status			
DRL ENG - ALEXANDER LINDBLAD		AREA TEAM 1		ODR	7/13/2021 00:00			IN PROGRESS			
Job Dates (ex. Estimated Pad Release, TXRRC Calls)											
Type			Subtype		Date		Note				
MILESTONE			ESTIMATED PAD RELEASE		10/30/2021		Drilling lateral on 1st well of 3 well pad, drilling sequentially.				
Daily Operations											
Footage/Meterage (ft) 2,971.00		Drilling Hours (hr) 23.50		% Rotating Time (%) 100.00		End Depth (ftKB) 16,516.0		Target Depth (ftKB) 21,797.0	Daily Field Est Total (Cost) 123,028.15	Cum Field Est To Date (Cost) 2,515,499.84	
24 HR ROP (ft/hr) 126.4		Circulating Hours (hr)		% Sliding Time (%) 0.00		End Depth (TVD) (ftKB) 11,106.2		Target Depth (TVD) (ftKB) 10,880.1	Daily Mud Field Est (Cost) 34,770.32	Cum Mud Field Est (Cost) 81,236.73	Total AFE + Sup (Cost) 4,368,347.65
Daily Goal Description DRILLED FEET				Daily Goal - Last 24 1,500.0			Daily Goal - Next 24 2,500.0			Goal Comments Goal Met	
Backbuild Yes		Lateral Inclination		Last Casing String INTERMEDIATE 2, 10,596.0ftKB				Next Casing String PROPOSED PRODUCTION, 21,797.0ftKB			
Avg Connection Gas 362.00		Avg Trip Gas 0.00		Avg Background Gas 325.00		Max Connection Gas 886.00		Max Trip Gas 0.00		Max Drill Gas 731.00	
Operations Summary Drill 6 3/4" lateral F/ 13,545' - T/14,741', rig service, Drill 6 3/4" lateral F/14,741' - T/16,516' per Plan #2 TL#3											
(0% sliding RSS, 1.0° Avg lateral DLS, 0' below, 14' left)											
Operations Next Report Period Continue drilling 6 3/4" lateral T/19,016'											
Operations at Report Time Drilling 6 3/4" lateral @16,516'											
Remarks Rig NPT - Well: 2.0 Total hrs 3rd Party NPT Well: 1.0 Total hrs Pioneer NPT Well: 0 Total hr 3.00 hrs											
Surf-100%, INT1- 100%, INT2- 100%, Curve- 100%, Prod- 49%											
Time Log											
Start Time	Dur (hr)	End Time	Phase	Operation	Ops Category	Com		Start Depth (ftKB)	End Depth (ftKB)	Prob Hrs (hr)	Prob Ref #
06:00	10	16:00	PROD, DRL LAT	DRL	NORMAL	Drtill F/ 13,545' T/ 14,741', 1,196' @ 119.6 fph. Leveled off on plan line at 11,104' TVD. Increased rpm to 110. **Cross over to 5" drill pipe at 14,174' MD		13,545.0	14,741.0		
16:00	0.5	16:30	PROD, DRL LAT	RIG_SVC	NORMAL	Rig Service - Change Inline Screen		14,741.0	14,741.0		
16:30	13.5	06:00	PROD, DRL LAT	DRL	NORMAL	Drill F/14,741' T/16,516', 1,775' @ 131.48 fph. 28/36K WOB. 100/110 RPM. 900/1100 dif. 15/17K tq. MW 12.4 in 12.3 out		14,741.0	16,516.0		
Drill Strings											
BHA #8 , PRODUCTION - LATERAL											
Bit Run 8			Drill Bit 6 3/4in, D406TS, 5321334				Bit Type PDC		Make GE/BAKER HUGHES		
Nozzles (1/32") 10/10/10/10/10/11			Bit Total Fluid Area (nozzles) (in²) 0.48			IADC Bit Dull -----		Hours Drilled By Bit (hr) 39.50		Depth Drilled By Bit (ft) 4,877.00	
BHA Drilling Time (hr) 39.50			BHA Depth Drilled (ft) 4,877.00			BHA ROP (ft/hr) 123.5		Depth In (ftKB) 11,639.0		Depth Out (ftKB) 16,516.0	
Drill String Components											
Jts	Item Des			OD (in)	ID (in)	Len (ft)	Cum Len (ft)	Wt (lbf)	Cum Wt (1000lbf)	Make	
74	DRILL PIPE			5	4.28	2,336.36	16,516.00	45,559.0	59		
1	SUB - XO			6 1/2	3.00	4.96	14,179.64		14		
437	DRILL PIPE			4 1/2	3.00	13,761.14	14,174.68		14	RIG	
4	HWDP - SPIRALED			4 1/2	3.00	123.90	413.54	6,108.3	14	RIG	
1	REAMER - DRILL N' REAM			5 1/4	3.00	8.15	289.64		8	DRILLING TOOLS INTERNATIONAL	
5	HWDP - SPIRALED			4 1/2	3.00	156.36	281.49	7,708.5	8	RIG	
1	SUB - XO			5.29	2.25	3.02	125.13		0	DRILLING TOOLS INTERNATIONAL	
1	MOTOR - SLICK SLEEVE			5 1/4	2.00	35.00	122.11		0	PHOENIX	
1	SUB - SHOCK			5 1/4	2.44	18.15	87.11		0	TOMAX	
1	SUB - FILTER			5.32	2.50	3.58	68.96		0	DRILLING TOOLS INTERNATIONAL	
1	STABILIZER			5.23	2.69	4.83	65.38		0	DRILLING TOOLS INTERNATIONAL	
1	DRILL COLLAR - PONY, NON MAG			5.05	2.75	21.44	60.55		0	DRILLING TOOLS INTERNATIONAL	
1	STABILIZER			5.24	2.69	4.85	39.11		0	DRILLING TOOLS INTERNATIONAL	
Daily Drilling Report											
Page 1/4						Printed: Sunday, August 22, 2021					

Daily Drilling Report

UTL 1308J 3814H				DELAWARE			
H & P - 650				Job:	ODR		
Accept: 8/5/2021				Report Date:	8/22/2021		
Days Since LTI: 89.00				Report #:	20		
Release:				DFS:	18		
Days Since RI: 147.00				AFE #:	9015117		
				Total AFE + Sup:	\$4,368,347.65		
				Daily Field Est. (Cost):	\$123,028.15		

Drill String Components																		
Jts	Item Des				OD (in)	ID (in)	Len (ft)	Cum Len (ft)	Wt (lbf)	Cum Wt (1000lbf)	Make							
1	DRILL COLLAR - PONY, NON MAG				5.42	2.81	14.62	34.26		0	DRILLING TOOLS INTERNATIONAL							
1	SUB - UBHO				5.16	2.69	3.64	19.64		0	DRILLING TOOLS INTERNATIONAL							
1	STABILIZER				5 1/4	3.00	2.56	16.00		0	DRILLING TOOLS INTERNATIONAL							
1	RSS TOOL				4 3/4	2.50	12.44	13.44		0	PHOENIX							
Mud Motors																		
SN		Bend Angle		Bearing Type		Lobe Config		# Stages		Lwr Defln Type		Bit To Bend						
PHX576060-PTS		0		NOT SEALED		7:8		7				0						
Sensors																		
Sensor Type				Sensor-Bit (ft)				Note										
GAMMA				29.28														
DIRECTIONAL				36.00														
Drilling Parameters																		
Start Time	End Time	Start Depth (ftKB)	Int Depth (ft)	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	ROP Average (ft/hr)	Drill Str Wt (1000lbf)	PU Str Wt (1000lbf)	SO Str Wt (1000lbf)	Off-Btm Str Wt (1000lbf)	Drill Tq	Off Btm Tq	TFO (°)	
06:00	06:00	13,545.0	2,971.00	126.4	32	110	1,000.0	325	5,050.0	175.0	248	248	168	248	17,000.0	8,500.0	0	
Hydraulic Calculations																		
Dens Mud (lb/gal)	ECD End (lb/gal)	Bit Hydraulic Power (hp)		HP/Area (hp/in²)		Jet Vel (ft/s)		Bit dP (psi)		Min Open Hole AV (ft/min)	Max Open Hole AV (ft/min)		Vol DrillString (bbl)		Vol Bit to Shoe (bbl)		Vol Shoe to Top (bbl)	
12.40	13.32	102.1		2.9		218.9		538.3		9.1	492.1		165.19		144.80		510.24	
Mud Checks																		
Time 21:00		Mud Company PIONEER DRILLING FLUIDS				Type OIL BASE		Depth (ftKB) 15,421.0		Density (lb/gal) 12.40		Funnel Viscosity (s/qt) 64		T Flowline (°F) 112.0				
PV (cP) 25.0		YP (lb/100ft²) 14.000		Vis 3rpm 8		Vis 6rpm 8		Filtrate (mL/30min)		HTHP Filtrate (mL/30min) 10.8		HTHP Temperature (°F) 200.0		HTHP Pressure (psi) 500.0				
Solids (%) 23.0				Low Gravity Solids (%) 7.3			Sand (%)			MBT (lb/bbl)			Pm (mL/mL)			Pf (mL/mL)		
Chlorides (mg/L) 47,500			Calcium (mg/L) 15,800			CaCl (ppm)		Oil Water Ratio 74/26		Electric Stab (V) 400.0			Lime (lb/bbl) 3.4			pH		
Gel 10 sec (lb/100ft²) 28.000						Gel 10 min (lb/100ft²) 26.000						Gel 30 min (lb/100ft²) 32.000						
Comment Maintain MW 12.4 ppg; Add Diesel @7.1 bbl/hr; Add Water @2.1 bbl/hr; Add 6.05 ppb DD MUL; Add 5.81 ppb DD LEM; Add 19.53 ppb Calcium Chloride; Add 26.04 ppb Lime; Add 6.51 ppb GelTone; Add 1.3 ppb Gilsonite																		
Last BOP Test																		
Date		Test Type				Item Tested				Next Test Date		Com						
8/7/2021		BOP				BOP'S, 8/5/2021 04:30, <class>				8/28/2021								
Leak Off and Formation Integrity Tests																		
Test Type						Depth (ftKB)						Dens Fluid (lb/gal)						
FORMATION INTEGRITY						1,009.0						12.57						
FORMATION INTEGRITY						8,390.0						11.20						
FORMATION INTEGRITY						10,596.0						14.04						
Casing Pressure Test																		
Test Type				Test Subtype				Date		Item Tested				Failed?	Time (min)		P (psi)	
CASING				STANDARD				7/23/2021		SURFACE, 968.3ftKB				No	30.00		1,000.0	
CASING				STANDARD				8/13/2021		INTERMEDIATE, 8,372.0ftKB				No	30.00		30.0	
CASING				STANDARD				8/18/2021		INTERMEDIATE 2, 10,596.0ftKB				No	30.00		2,585.0	
Kick Offs & Key Depths																		
Date						Type						Top Depth (ftKB)				Depth Top (TVD) (ftKB)		
8/18/2021 21:00						KICK OFF						10,660.0				10,582.7		
8/19/2021 15:15						HEEL						11,459.0				11,089.1		
Casing Strings																		
Description		Set Depth (ftKB)		Set Depth (TVD) (ftKB)		OD (in)		Grade		Wt/Len (lb/ft)		Top Thread		P LeakOff (psi)				
CONDUCTOR		106.5		106.5		20		H40		78.67								
SURFACE		968.3		967.9		13 3/8		J55		54.50		BTC		658.7				
INTERMEDIATE		8,372.0		8,295.9		9 5/8		L80-IC		40.00		BTC		4,837.3				
INTERMEDIATE 2		10,596.0		10,518.9		7 5/8		P110-IC		29.70		WEDGE 441		7,669.6				
Gas Emissions - Flare																		
Type		Method		Dur (min)		Amount		Units		Com								
Job Supply Amounts																		
Supply Item Des		Type		Unit Label		Received		Consumed		Returned		Note		Cum On Loc		Cum Consumed		
DIESEL		FUEL		GAL		0		2,713		0				5,976		29,483.0		
DIESEL		MUD		GAL		7,318		7,014		0				13,029		16,292.0		
WATER		FRESH		BBL		0		0		0				0		13,974.0		
Mud Additive Amounts																		
Des				Type		Units		Rec		Consumed		On Loc		Cum Cons				
BA.SCALE CHARGE				MISCELLANEOUS		EA		2,100		2,100		0.0		2,100				
Daily Drilling Report																		
Page 2/4																		
Printed: Sunday, August 22, 2021																		

Daily Drilling Report

UTL 1308J 3814H	
H & P - 650	
Accept: 8/5/2021	Release:
Days Since LTI: 89.00	Days Since RI: 147.00

DELAWARE	
Job:	ODR
Report Date:	8/22/2021
Report #:	20
DFS:	18
AFE #:	9015117
Total AFE + Sup:	\$4,368,347.65
Daily Field Est. (Cost):	\$123,028.15

Mud Additive Amounts						
Des	Type	Units	Rec	Consumed	On Loc	Cum Cons
BAROID 41 - TON (ST)	WEIGHTING MATERIAL	TON	39	44	72.66	116
CALCIUM CHLORIDE	SALT	SACK	0	75	175.0	175
DDF MUL	ALL IN ONE EMULSIFIER	GAL	0	130	200.0	460
GELTONE V	OIL MUD ADDITIVE	SACK	0	25	115.0	35
LIME	PH MODIFIER	SACK	0	100	250.0	102
SAFEVERT LEM	LOW END MODIFIER	GAL	0	125	480.0	180
XMP GILSONITE	FILTRATE CONTROL	SACK	0	5	75.0	25
Pump Operations						
Pump #	Make	Model	Liner Size (in)	Stroke (in)	Vol/Stk (bbl/stk)	P Max (psi)
1	GARDNER-DENVER	PZ-11-1600	5	11.00	0.067	6,335.0
2	GARDNER-DENVER	PZ-11-1600	5	11.00	0.067	6,335.0
3	GARDNER-DENVER	PZ-11-1600	5 1/2	11.00	0.081	6,335.0
Pump Checks						
Pump #	Depth (ftKB)	Time	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)
1	16,068.0	02:00	660.0	20	53	95
1	16,068.0	02:00	1,640.0	60	160	95
1	16,068.0	02:00	1,100.0	40	107	95
2	16,068.0	02:00	1,060.0	40	107	95
2	16,068.0	02:00	1,600.0	60	160	95
2	16,068.0	02:00	660.0	20	53	95
Deviation Surveys						
Date	Description				Job	
	FINAL SURVEY					
Date	Description				Job	
7/14/2021	AS DRILL SURVEY				ODR, 7/13/2021 00:00	
Survey Data - All surveys for 24 hr reporting period						
MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	DLS (°/100ft)
13,571.00	88.38	73.42	11,090.84	1,869.35	398.95	1,830.97
13,666.00	88.46	73.62	11,093.45	1,964.31	425.89	1,922.03
13,760.00	88.54	73.22	11,095.92	2,058.28	452.70	2,012.09
13,854.00	87.31	72.10	11,099.32	2,152.20	480.70	2,101.76
13,949.00	88.54	73.36	11,102.76	2,247.12	508.88	2,192.41
14,043.00	89.75	73.47	11,104.16	2,341.10	535.71	2,282.49
14,138.00	89.41	73.06	11,104.86	2,436.10	563.06	2,373.46
14,238.00	89.86	73.10	11,105.49	2,536.09	592.17	2,469.13
14,333.00	89.92	73.25	11,105.68	2,631.08	619.66	2,560.07
14,427.00	89.86	73.31	11,105.86	2,725.08	646.71	2,650.09
14,522.00	89.69	73.42	11,106.23	2,820.08	673.90	2,741.12
14,617.00	89.86	73.15	11,106.60	2,915.08	701.23	2,832.10
14,712.00	89.97	72.90	11,106.74	3,010.07	728.96	2,922.96
14,807.00	90.11	73.28	11,106.68	3,105.06	756.59	3,013.85
14,901.00	90.14	73.41	11,106.47	3,199.06	783.54	3,103.91
14,996.00	90.17	73.20	11,106.22	3,294.06	810.83	3,194.90
15,091.00	89.80	72.91	11,106.24	3,389.05	838.51	3,285.78
15,186.00	89.92	73.03	11,106.47	3,484.04	866.34	3,376.61
15,280.00	91.62	74.47	11,105.21	3,578.03	892.64	3,466.85
15,375.00	89.80	73.18	11,104.03	3,673.02	919.10	3,558.07
15,470.00	90.73	73.28	11,103.59	3,768.01	946.51	3,649.03
15,565.00	90.31	72.84	11,102.73	3,863.00	974.19	3,739.90
15,659.00	90.03	72.76	11,102.45	3,956.99	1,001.98	3,829.70
15,754.00	89.55	73.11	11,102.80	4,051.98	1,029.86	3,920.52
15,849.00	89.92	72.99	11,103.24	4,146.97	1,057.56	4,011.39
15,944.00	89.83	74.24	11,103.45	4,241.97	1,084.36	4,102.53
16,002.00	89.78	74.33	11,103.64	4,299.97	1,100.06	4,158.36
16,133.00	89.44	74.37	11,104.54	4,430.95	1,135.40	4,284.50
16,227.00	89.80	74.50	11,105.16	4,524.94	1,160.62	4,375.05

PIONEER

NATURAL RESOURCES

Daily Drilling Report

UTL 1308J 3814H	
H & P - 650	
Accept: 8/5/2021	Release:
Days Since LTI: 89.00	Days Since RI: 147.00

DELAWARE	
Job:	ODR
Report Date:	8/22/2021
Report #:	20
DFS:	18
AFE #:	9015117
Total AFE + Sup:	\$4,368,347.65
Daily Field Est. (Cost):	\$123,028.15

Daily Contacts				
Job Contact	Title	Office	Mobile	Email
SMITH, KEITH, MUD ENGINEER	MUD ENGINEER		254-466-1541	KEITH.SMITH@PXD.COM
RIG-H&P 650, RIG PHONE	RIG PHONE	432-538-3406		DL-HP650@PXD.COM
Personnel Log				
Company				Count
PIONEER NATURAL RESOURCES USA INC				4
HELMERICH & PAYNE INTERNATIONAL DRILLING CO				13
PHOENIX TECHNOLOGY SERVICES USA INC				4
AERION RENTAL SERVICES				1
STRATAGRAPH INC				2
SAFETY AUTOMATION TECHNOLOGY LLC				2

PIONEER

NATURAL RESOURCES

Daily Drilling Report

UTL 1308J 3814H	
H & P - 650	
Accept: 8/5/2021	Release:
Days Since LTI: 90.00	Days Since RI: 148.00

DELAWARE	
Job:	ODR
Report Date:	8/23/2021
Report #:	21
DFS:	19
AFE #:	9015117
Total AFE + Sup:	\$4,368,347.65
Daily Field Est. (Cost):	\$112,375.83

Casing Strings								
Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)	
INTERMEDIATE 2	10,596.0	10,518.9	7 5/8	P110-IC	29.70	WEDGE 441	7,669.6	
Gas Emissions - Flare								
Type	Method	Dur (min)	Amount	Units	Com			
Job Supply Amounts								
Supply Item Des	Type	Unit Label	Received	Consumed	Returned	Note	Cum On Loc	Cum Consumed
DIESEL	FUEL	GAL	7,212	2,420	0		10,768	31,903.0
DIESEL	MUD	GAL	7,220	7,156	0		13,093	23,448.0
WATER	FRESH	BBL	0	0	0		0	13,974.0
Mud Additive Amounts								
Des	Type	Units	Rec	Consumed	On Loc	Cum Cons		
BAROID 41 - TON (ST)	WEIGHTING MATERIAL	TON	21	22	72.47	137		
CALCIUM CHLORIDE	SALT	SACK	0	50	125.0	225		
DDF MUL	ALL IN ONE EMULSIFIER	GAL	0	100	100.0	560		
GELTONE V	OIL MUD ADDITIVE	SACK	0	12	103.0	47		
LIME	PH MODIFIER	SACK	0	100	150.0	202		
SAFEVERT LEM	LOW END MODIFIER	GAL	0	150	330.0	330		
XMP GILSONITE	FILTRATE CONTROL	SACK	0	15	60.0	40		
Pump Operations								
Pump #	Make		Model	Liner Size (in)	Stroke (in)	Vol/Stk (bbl/stk)	P Max (psi)	
1	GARDNER-DENVER		PZ-11-1600	5	11.00	0.067	6,335.0	
2	GARDNER-DENVER		PZ-11-1600	5	11.00	0.067	6,335.0	
3	GARDNER-DENVER		PZ-11-1600	5 1/2	11.00	0.081	6,335.0	
Pump Checks								
Pump #	Depth (ftKB)	Time	P (psi)	Strokes (spm)	Q Flow (gpm)		Eff (%)	
1	17,589.0	15:00	810.0	20	53		95	
1	17,589.0	15:00	970.0	30	80		95	
1	17,589.0	15:00	1,170.0	40	107		95	
1	18,625.0	02:00	700.0	20	53		95	
1	18,625.0	02:00	1,640.0	60	160		95	
1	18,625.0	02:00	1,080.0	40	107		95	
2	17,589.0	15:00	1,160.0	40	107		95	
2	17,589.0	15:00	960.0	30	80		95	
2	17,589.0	15:00	800.0	20	53		95	
2	18,625.0	02:00	1,100.0	40	107		95	
2	18,625.0	02:00	1,680.0	60	160		95	
2	18,625.0	02:00	700.0	20	53		95	
Deviation Surveys								
Date		Description					Job	
		FINAL SURVEY						
Date		Description					Job	
7/14/2021		AS DRILL SURVEY					ODR, 7/13/2021 00:00	
Survey Data - All surveys for 24 hr reporting period								
MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	
16,606.00	89.83	74.99	11,106.95	4,903.86	1,259.48	4,740.92	0.30	
16,701.00	89.83	75.26	11,107.24	4,998.83	1,283.86	4,832.74	0.28	
16,795.00	90.28	74.80	11,107.15	5,092.80	1,308.14	4,923.55	0.68	
16,890.00	90.11	74.57	11,106.82	5,187.79	1,333.24	5,015.17	0.30	
16,984.00	89.78	74.66	11,106.91	5,281.77	1,358.17	5,105.81	0.36	
17,079.00	90.31	75.00	11,106.84	5,376.76	1,383.03	5,197.50	0.66	
17,174.00	90.64	75.25	11,106.05	5,471.72	1,407.42	5,289.31	0.44	
17,269.00	90.53	75.17	11,105.08	5,566.68	1,431.67	5,381.16	0.14	
17,363.00	89.69	74.80	11,104.90	5,660.66	1,456.02	5,471.95	0.98	
17,458.00	89.97	74.98	11,105.18	5,755.64	1,480.79	5,563.66	0.35	
17,553.00	90.11	74.68	11,105.12	5,850.62	1,505.65	5,655.35	0.35	
17,648.00	90.28	72.87	11,104.79	5,945.62	1,532.19	5,746.56	1.91	
17,742.00	89.86	72.38	11,104.68	6,039.60	1,560.26	5,836.27	0.69	
17,837.00	89.61	72.73	11,105.12	6,134.58	1,588.74	5,926.90	0.45	
17,932.00	90.20	73.67	11,105.27	6,229.57	1,616.20	6,017.85	1.17	
18,026.00	91.12	72.93	11,104.19	6,323.56	1,643.21	6,107.87	1.26	
18,121.00	92.10	72.86	11,101.52	6,418.51	1,671.14	6,198.63	1.03	
18,216.00	90.95	72.68	11,098.99	6,513.47	1,699.27	6,289.34	1.23	
18,311.00	91.85	72.80	11,096.67	6,608.42	1,727.45	6,380.03	0.96	
18,405.00	90.36	72.65	11,094.86	6,702.39	1,755.35	6,469.77	1.59	
18,500.00	90.64	73.30	11,094.03	6,797.38	1,783.17	6,560.60	0.74	
18,595.00	90.42	73.02	11,093.15	6,892.37	1,810.69	6,651.53	0.37	
18,690.00	90.48	73.19	11,092.41	6,987.36	1,838.30	6,742.42	0.19	
Formations								
Formation Name			Prog Top (TVD SS) Override (ft(elv))	Prog Top MD (ftKB)	Prog Top (TVD) (ftKB)	Final Top MD (ftKB)	Final Top (TVD) (ftKB)	
BOT			-8,390.0		11,120.5			
Daily Drilling Report								
Page 3/4					Printed: Monday, August 23, 2021			

Daily Drilling Report

UTL 1308J 3814H	
H & P - 650	
Accept: 8/5/2021	Release:
Days Since LTI: 90.00	Days Since RI: 148.00

DELAWARE	
Job:	ODR
Report Date:	8/23/2021
Report #:	21
DFS:	19
AFE #:	9015117
Total AFE + Sup:	\$4,368,347.65
Daily Field Est. (Cost):	\$112,375.83

Formations					
Formation Name	Prog Top (TVD SS) Override (ft(elv))	Prog Top MD (ftKB)	Prog Top (TVD) (ftKB)	Final Top MD (ftKB)	Final Top (TVD) (ftKB)
FTP	-8,365.0		11,095.5		
Daily Contacts					
Job Contact	Title	Office	Mobile	Email	
POLYA, JOE, AREA DRILLING SUPERINTENDENT	AREA DRILLING SUPERINTENDENT	432-413-6147	432-352-3155	JOE.POLYA@PXD.COM	
LINDBLAD, ALEXANDER, ENGINEER	ENGINEER	972-969-1749		ALEXANDER.LINDBLAD@PXD.COM	
VILLESCHAS, BERNIE, SUPERINTENDENT	SUPERINTENDENT	432-571-2950	432-312-2088	BERNIE.VILLESCHAS@PXD.COM	
WAGNON, TIM, SUPERINTENDENT	SUPERINTENDENT		409-489-2208	TIM.WAGNON@PXD.COM	
CREEL, GREG, WELLSITE SUPERVISOR	WELLSITE SUPERVISOR		307-461-0366	GREG.CREEL@PXD.COM	
GARCIA, ANDREW, WELLSITE SUPERVISOR	WELLSITE SUPERVISOR		432-813-0116	ANDREW.GARCIA@PXD.COM	
SMITH, KEITH, MUD ENGINEER	MUD ENGINEER		254-466-1541	KEITH.SMITH@PXD.COM	
RIG-H&P 650, RIG PHONE	RIG PHONE	432-538-3406		DL-HP650@PXD.COM	
Personnel Log					
Company				Count	
PIONEER NATURAL RESOURCES USA INC				4	
HELMERICH & PAYNE INTERNATIONAL DRILLING CO				13	
PHOENIX TECHNOLOGY SERVICES USA INC				4	
AERION RENTAL SERVICES				1	
STRATAGRAPH INC				2	
SAFETY AUTOMATION TECHNOLOGY LLC				2	
IRON HORSE TOOLS LLC				2	
TEXAS PRIDE FUELS LTD				2	

Daily Drilling Report

UTL 1308J 3814H				DELAWARE	
H & P - 650				Job:	ODR
Accept: 8/5/2021				Report Date:	8/24/2021
Days Since LTI: 91.00				Report #:	22
Release:				DFS:	20
Days Since RI: 149.00				AFE #:	9015117
				Total AFE + Sup:	\$4,368,347.65
				Daily Field Est. (Cost):	\$113,193.19

PWI/UWI 42-475-38230-0000		Well Profile HORIZONTAL		Open Formation BONE SPRING 3 (BSPG 3)		Field Name SPRABERRY (TREND AREA)																	
SSN ID00056173		Property Sub		KB-Grd (ft) 26.50		Orig KB Elev (ft) 2,730.50		Ground Elevation (ft) 2,704.00		Spud Date 7/13/2021		TD Date											
Jobs																							
Responsible Grp 2				Responsible Grp 3				Job Type		Start Date			End Date		Job Status								
DRL ENG - ALEXANDER LINDBLAD				AREA TEAM 1				ODR		7/13/2021 00:00					IN PROGRESS								
Job Dates (ex. Estimated Pad Release, TXRRC Calls)																							
Type				Subtype				Date			Note												
MILESTONE				ESTIMATED PAD RELEASE				10/30/2021			Drilling lateral on 1st well of 3 well pad, drilling sequentially.												
Daily Operations																							
Footage/Meterage (ft) 2,139.00			Drilling Hours (hr) 23.50			% Rotating Time (%) 100.00			End Depth (ftKB) 21,156.0			Target Depth (ftKB) 21,797.0			Daily Field Est Total (Cost) 113,193.19		Cum Field Est To Date (Cost) 2,749,834.15						
24 HR ROP (ft/hr) 91.0			Circulating Hours (hr) 0.50			% Sliding Time (%) 0.00			End Depth (TVD) (ftKB) 11,038.2			Target Depth (TVD) (ftKB) 10,880.1			Daily Mud Field Est (Cost) 9,472.94		Cum Mud Field Est (Cost) 99,608.71		Total AFE + Sup (Cost) 4,368,347.65				
Daily Goal Description DRILLED FEET						Daily Goal - Last 24 2,000.0						Daily Goal - Next 24 624.0						Goal Comments Goal met					
Backbuild Yes		Lateral Inclination		Last Casing String INTERMEDIATE 2, 10,596.0ftKB								Next Casing String PROPOSED PRODUCTION, 21,797.0ftKB											
Avg Connection Gas 222.00			Avg Trip Gas 0.00			Avg Background Gas 298.00			Max Connection Gas 918.00			Max Trip Gas 0.00			Max Drill Gas 298.00								
Operations Summary Drill 6 3/4" Lateral F/19,017' T/21,156' per plan #2 TL#5																							
(0% sliding RSS, 1.05° Avg lateral DLS, 1' above, 9' right)																							
Operations Next Report Period Continue Drilling 6 3/4" lateral T/21,620', Perform K&M on bottom clean up cycle T/21,780', TOO H to run 5.5" casing.																							
Operations at Report Time Drilling 6 3/4" lateral @21,156'																							
Remarks Rig NPT - Well: 2.0 Total hrs 3rd Party NPT Well: 1.0 Total hrs Pioneer NPT Well: 0 Total hr 3.00 hrs																							
Surf-100%, INT1- 100%, INT2- 100%, Curve- 100%, Prod- 94%																							
Time Log																							
Start Time		Dur (hr)		End Time		Phase		Operation		Ops Category		Com			Start Depth (ftKB)		End Depth (ftKB)		Prob Hrs (hr)		Prob Ref #		
06:00		10.5		16:30		PROD, DRL LAT		DRL		NORMAL		Drill 6 3/4" Lateral F/19,017' T/ 20,052', 1,035' @ 98.6 fph 36k WOB, 100 rpm, 21k tq, 320 gpm, 5,400 spp w/ 980 diff. Following plan #2, target line #4. Sample @ 19,770' - 100% Shale w/ Trace Pyrite. **Offline: Receiving 473 jts. 5.5" Production Casing			19,017.0		20,052.0						
16:30		0.5		17:00		PROD, DRL LAT		RIG_SVC		NORMAL		Rig Service - Change In-Line Screen			20,052.0		20,052.0						
17:00		13		06:00		PROD, DRL LAT		DRL		NORMAL		Drill 6 3/4" Lateral F/20,052' T/ 21,156', 1,104' @ 84.92 fph 36k WOB, 100 rpm, 21k tq, 320 gpm, 5,400 spp w/ 980 diff. Following plan #2, target line #5.			20,052.0		21,156.0						
Drill Strings																							
BHA #8 , PRODUCTION - LATERAL																							
Bit Run 8				Drill Bit 6 3/4in, D406TS, 5321334								Bit Type PDC				Make GE/BAKER HUGHES							
Nozzles (1/32") 10/10/10/10/10/11				Bit Total Fluid Area (nozzles) (in²) 0.48						IADC Bit Dull -----				Hours Drilled By Bit (hr) 86.50				Depth Drilled By Bit (ft) 9,517.00					
BHA Drilling Time (hr) 86.50				BHA Depth Drilled (ft) 9,517.00						BHA ROP (ft/hr) 110.0				Depth In (ftKB) 11,639.0				Depth Out (ftKB) 21,156.0					
Drill String Components																							
Jts		Item Des						OD (in)		ID (in)		Len (ft)		Cum Len (ft)		Wt (lbf)		Cum Wt (1000lbf)		Make			
222		DRILL PIPE						5		4.28		6,976.36		21,156.00		136,039.0		150					
1		SUB - XO						6 1/2		3.00		4.96		14,179.64				14					
437		DRILL PIPE						4 1/2		3.00		13,761.14		14,174.68				14		RIG			
4		HWDP - SPIRALED						4 1/2		3.00		123.90		413.54		6,108.3		14		RIG			
1		REAMER - DRILL N' REAM						5 1/4		3.00		8.15		289.64				8		DRILLING TOOLS INTERNATIONAL			
5		HWDP - SPIRALED						4 1/2		3.00		156.36		281.49		7,708.5		8		RIG			
1		SUB - XO						5.29		2.25		3.02		125.13				0		DRILLING TOOLS INTERNATIONAL			
1		MOTOR - SLICK SLEEVE						5 1/4		2.00		35.00		122.11				0		PHOENIX			
1		SUB - SHOCK						5 1/4		2.44		18.15		87.11				0		TOMAX			
1		SUB - FILTER						5.32		2.50		3.58		68.96				0		DRILLING TOOLS INTERNATIONAL			
1		STABILIZER						5.23		2.69		4.83		65.38				0		DRILLING TOOLS INTERNATIONAL			
Daily Drilling Report																							
Page 1/4																							
Printed: Tuesday, August 24, 2021																							

Daily Drilling Report

UTL 1308J 3814H				DELAWARE			
H & P - 650				Job:	ODR		
Accept: 8/5/2021				Report Date:	8/24/2021		
Days Since LTI: 91.00				Report #:	22		
Release:				DFS:	20		
Days Since RI: 149.00				AFE #:	9015117		
				Total AFE + Sup:	\$4,368,347.65		
				Daily Field Est. (Cost):	\$113,193.19		

Drill String Components																			
Jts	Item Des				OD (in)	ID (in)	Len (ft)	Cum Len (ft)	Wt (lbf)	Cum Wt (1000lbf)	Make								
1	DRILL COLLAR - PONY, NON MAG				5.05	2.75	21.44	60.55			0	DRILLING TOOLS INTERNATIONAL							
1	STABILIZER				5.24	2.69	4.85	39.11			0	DRILLING TOOLS INTERNATIONAL							
1	DRILL COLLAR - PONY, NON MAG				5.42	2.81	14.62	34.26			0	DRILLING TOOLS INTERNATIONAL							
1	SUB - UBHO				5.16	2.69	3.64	19.64			0	DRILLING TOOLS INTERNATIONAL							
1	STABILIZER				5 1/4	3.00	2.56	16.00			0	DRILLING TOOLS INTERNATIONAL							
1	RSS TOOL				4 3/4	2.50	12.44	13.44			0	PHOENIX							
Mud Motors																			
SN		Bend Angle		Bearing Type		Lobe Config		# Stages		Lwr Defln Type		Bit To Bend							
PHX576060-PTS		0		NOT SEALED		7:8		7				0							
Sensors																			
Sensor Type				Sensor-Bit (ft)				Note											
GAMMA				29.28															
DIRECTIONAL				36.00															
Drilling Parameters																			
Start Time	End Time	Start Depth (ftKB)	Int Depth (ft)	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	ROP Average (ft/hr)	Drill Str Wt (1000lbf)	PU Str Wt (1000lbf)	SO Str Wt (1000lbf)	Off-Btm Str Wt (1000lbf)	Drill Tq	Off Btm Tq	TFO (°)		
06:00	16:30	19,017.0	1,035.00	98.6	32	110	850.0	325	5,200.0	100.0	204	280	130	204	21,000.0	8,500.0	0		
16:30	17:00	20,052.0	0.00		0	30	0.0	325	4,700.0	0.0	204	280	130	204	0.0	8,500.0	0		
17:00	06:00	20,052.0	1,104.00	84.9	36	100	850.0	325	5,500.0	80.0	210	280	158	210	23,000.0	8,500.0	0		
Hydraulic Calculations																			
Dens Mud (lb/gal)	ECD End (lb/gal)	Bit Hydraulic Power (hp)		HP/Area (hp/in²)		Jet Vel (ft/s)		Bit dP (psi)		Min Open Hole AV (ft/min)	Max Open Hole AV (ft/min)		Vol DrillString (bbl)		Vol Bit to Shoe (bbl)		Vol Shoe to Top (bbl)		
12.40	13.41	102.1		2.9		218.9		538.3		9.1	492.1		247.76		258.90		488.83		
Mud Checks																			
Time 21:00		Mud Company PIONEER DRILLING FLUIDS				Type OIL BASE		Depth (ftKB) 20,382.0		Density (lb/gal) 12.40		Funnel Viscosity (s/qt) 60		T Flowline (°F) 113.0					
PV (cP) 21.0		YP (lbf/100ft²) 11.000		Vis 3rpm 7		Vis 6rpm 8		Filtrate (mL/30min)		HTHP Filtrate (mL/30min) 10.4		HTHP Temperature (°F) 200.0		HTHP Pressure (psi) 500.0					
Solids (%) 24.0				Low Gravity Solids (%) 9.9			Sand (%)			MBT (lb/bbl)		Pm (mL/mL)		Pf (mL/mL)					
Chlorides (mg/L) 37,500			Calcium (mg/L) 14,600			CaCl (ppm)		Oil Water Ratio 76/24		Electric Stab (V) 399.0			Lime (lb/bbl) 3.4		pH				
Gel 10 sec (lbf/100ft²) 9.000						Gel 10 min (lbf/100ft²) 17.000						Gel 30 min (lbf/100ft²) 22.000							
Comment Maintain MW 12.4 ppg; Add Diesel @4 bbl/hr; Add Water @1.8 bbl/hr; Add 6.42 ppb DD MUL; Add 6.09 ppb DD LEM; Add 16.19 ppb Calcium Chloride; Add 26.98 ppb Lime; Add 7.19 ppb GelTone; Add 3.6 ppb Gilsonite																			
Last BOP Test																			
Date		Test Type				Item Tested				Next Test Date		Com							
8/7/2021		BOP				BOP'S, 8/5/2021 04:30, <class>				8/28/2021									
Leak Off and Formation Integrity Tests																			
Test Type						Depth (ftKB)						Dens Fluid (lb/gal)							
FORMATION INTEGRITY						1,009.0						12.57							
FORMATION INTEGRITY						8,390.0						11.20							
FORMATION INTEGRITY						10,596.0						14.04							
Casing Pressure Test																			
Test Type				Test Subtype				Date		Item Tested				Failed?	Time (min)	P (psi)			
CASING				STANDARD				7/23/2021		SURFACE, 968.3ftKB				No	30.00	1,000.0			
CASING				STANDARD				8/13/2021		INTERMEDIATE, 8,372.0ftKB				No	30.00	30.0			
CASING				STANDARD				8/18/2021		INTERMEDIATE 2, 10,596.0ftKB				No	30.00	2,585.0			
Kick Offs & Key Depths																			
Date						Type						Top Depth (ftKB)				Depth Top (TVD) (ftKB)			
8/18/2021 21:00						KICK OFF						10,660.0				10,582.7			
8/19/2021 15:15						HEEL						11,459.0				11,089.1			
Casing Strings																			
Description		Set Depth (ftKB)		Set Depth (TVD) (ftKB)		OD (in)		Grade		Wt/Len (lb/ft)		Top Thread		P LeakOff (psi)					
CONDUCTOR		106.5		106.5		20		H40		78.67									
SURFACE		968.3		967.9		13 3/8		J55		54.50		BTC		658.7					
INTERMEDIATE		8,372.0		8,295.9		9 5/8		L80-IC		40.00		BTC		4,837.3					
INTERMEDIATE 2		10,596.0		10,518.9		7 5/8		P110-IC		29.70		WEDGE 441		7,669.6					
Daily Drilling Report																			

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Printed: Tuesday, August 24, 2021

Daily Drilling Report

UTL 1308J 3814H

H & P - 650

Accept: 8/5/2021 Release:

Days Since LTI: 91.00 Days Since RI: 149.00

DELAWARE

Job: ODR

Report Date: 8/24/2021

Report #: 22

DFS: 20

AFE #: 9015117

Total AFE + Sup: \$4,368,347.65

Daily Field Est. (Cost): \$113,193.19

Gas Emissions - Flare								
Type	Method	Dur (min)	Amount	Units	Com			
Job Supply Amounts								
Supply Item Des	Type	Unit Label	Received	Consumed	Returned	Note	Cum On Loc	Cum Consumed
DIESEL	FUEL	GAL	0	3,047	0		7,721	34,950.0
DIESEL	MUD	GAL	0	4,029	0		9,064	27,477.0
WATER	FRESH	BBL	0	0	0		0	18,630.0
Mud Additive Amounts								
Des	Type	Units	Rec	Consumed	On Loc	Cum Cons		
BAROID 41 - TON (ST)	WEIGHTING MATERIAL	TON	24	21	75.9	158		
CALCIUM CHLORIDE	SALT	SACK	200	45	280.0	270		
DDF MUL	ALL IN ONE EMULSIFIER	GAL	660	100	660.0	660		
GELTONE V	OIL MUD ADDITIVE	SACK	0	20	83.0	67		
LIME	PH MODIFIER	SACK	200	75	275.0	277		
MIL SORB	OIL ABSORBANT	SACK	40	0	40.0	0		
SAFEVERT LEM	LOW END MODIFIER	GAL	330	0	660.0	330		
TRANSPORTATION	MISCELLANEOUS	EA	2,100	2,100	0.0	9,565		
XMP GILSONITE	FILTRATE CONTROL	SACK	0	10	50.0	50		
Pump Operations								
Pump #	Make	Model	Liner Size (in)	Stroke (in)	Vol/Stk (bbl/stk)	P Max (psi)		
1	GARDNER-DENVER	PZ-11-1600	5	11.00	0.067	7,500.0		
2	GARDNER-DENVER	PZ-11-1600	5	11.00	0.067	7,500.0		
3	GARDNER-DENVER	PZ-11-1600	5 1/2	11.00	0.081	6,335.0		
Pump Checks								
Pump #	Depth (ftKB)	Time	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)		
1	20,052.0	17:00	950.0	20	53	95		
1	20,052.0	17:00	1,140.0	30	80	95		
1	20,052.0	17:00	1,330.0	40	107	95		
1	20,618.0	01:00	960.0	20	53	95		
1	20,618.0	01:00	1,380.0	40	107	95		
1	20,618.0	01:00	1,980.0	60	160	95		
2	20,618.0	01:00	1,360.0	40	107	95		
2	20,618.0	01:00	940.0	20	53	95		
2	20,618.0	01:00	1,940.0	60	160	95		
3	20,052.0	17:00	1,500.0	40	129	95		
3	20,052.0	17:00	1,250.0	30	97	95		
3	20,052.0	17:00	1,015.0	20	64	95		
Deviation Surveys								
Date	Description					Job		
	FINAL SURVEY							
Date	Description					Job		
7/14/2021	AS DRILL SURVEY					ODR, 7/13/2021 00:00		
Survey Data - All surveys for 24 hr reporting period								
MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	
19,069.00	90.08	72.59	11,089.55	7,366.30	1,950.08	7,104.55	0.41	
19,164.00	90.00	72.96	11,089.48	7,461.29	1,978.21	7,195.28	0.40	
19,258.00	90.34	73.22	11,089.21	7,555.28	2,005.55	7,285.22	0.46	
19,353.00	90.39	72.87	11,088.60	7,650.28	2,033.26	7,376.09	0.37	
19,447.00	91.06	73.30	11,087.41	7,744.26	2,060.60	7,466.01	0.85	
19,542.00	91.68	72.81	11,085.14	7,839.23	2,088.28	7,556.86	0.83	
19,637.00	91.57	72.88	11,082.45	7,934.18	2,116.29	7,647.60	0.14	
19,732.00	90.42	72.97	11,080.80	8,029.15	2,144.18	7,738.40	1.21	
19,826.00	93.84	74.86	11,077.30	8,123.07	2,170.20	7,828.64	4.16	
19,921.00	90.25	72.50	11,073.91	8,217.99	2,196.88	7,919.73	4.52	
20,016.00	90.48	74.27	11,073.31	8,312.98	2,224.04	8,010.76	1.88	
20,110.00	90.95	74.35	11,072.13	8,406.97	2,249.46	8,101.25	0.51	
20,205.00	90.14	74.89	11,071.23	8,501.95	2,274.65	8,192.84	1.02	
20,300.00	91.29	74.93	11,070.04	8,596.92	2,299.38	8,284.56	1.21	
20,394.00	89.10	74.91	11,069.73	8,690.89	2,323.84	8,375.31	2.33	
20,489.00	93.78	76.25	11,067.34	8,785.78	2,347.48	8,467.26	5.12	
20,584.00	90.34	74.88	11,063.92	8,880.65	2,371.14	8,559.19	3.90	
20,679.00	89.86	75.03	11,063.76	8,975.63	2,395.80	8,650.93	0.53	
20,773.00	93.75	75.53	11,060.80	9,069.53	2,419.67	8,741.78	4.17	
20,868.00	94.12	75.32	11,054.28	9,164.26	2,443.52	8,833.51	0.45	
20,963.00	93.03	75.21	11,048.35	9,259.04	2,467.64	8,925.20	1.15	
Formations								
Formation Name			Prog Top (TVD SS) Override (ft(elv))	Prog Top MD (ftKB)	Prog Top (TVD) (ftKB)	Final Top MD (ftKB)	Final Top (TVD) (ftKB)	
TOT			-8,340.0		11,070.5	11,331.8	11,069.6	
BOT			-8,390.0		11,120.5			
FTP			-8,365.0		11,095.5			
Daily Drilling Report			Page 3/4			Printed: Tuesday, August 24, 2021		

Daily Drilling Report

UTL 1308J 3814H		DELAWARE
H & P - 650		Job: ODR
Accept: 8/5/2021	Release:	Report Date: 8/24/2021
Days Since LTI: 91.00	Days Since RI: 149.00	Report #: 22
		DFS: 20
		AFE #: 9015117
		Total AFE + Sup: \$4,368,347.65
		Daily Field Est. (Cost): \$113,193.19

Daily Contacts				
Job Contact	Title	Office	Mobile	Email
POLYA, JOE, AREA DRILLING SUPERINTENDENT	AREA DRILLING SUPERINTENDENT	432-413-6147	432-352-3155	JOE.POLYA@PXD.COM
LINDBLAD, ALEXANDER, ENGINEER	ENGINEER	972-969-1749		ALEXANDER.LINDBLAD@PXD.COM
VILLESCHAS, BERNIE, SUPERINTENDENT	SUPERINTENDENT	432-571-2950	432-312-2088	BERNIE.VILLESCHAS@PXD.COM
WAGNON, TIM, SUPERINTENDENT	SUPERINTENDENT		409-489-2208	TIM.WAGNON@PXD.COM
CREEL, GREG, WELLSITE SUPERVISOR	WELLSITE SUPERVISOR		307-461-0366	GREG.CREEL@PXD.COM
GARCIA, ANDREW, WELLSITE SUPERVISOR	WELLSITE SUPERVISOR		432-813-0116	ANDREW.GARCIA@PXD.COM
SMITH, KEITH, MUD ENGINEER	MUD ENGINEER		254-466-1541	KEITH.SMITH@PXD.COM
RIG-H&P 650, RIG PHONE	RIG PHONE	432-538-3406		DL-HP650@PXD.COM
Personnel Log				
Company				Count
PIONEER NATURAL RESOURCES USA INC				4
HELMERICH & PAYNE INTERNATIONAL DRILLING CO				13
PHOENIX TECHNOLOGY SERVICES USA INC				4
AERION RENTAL SERVICES				1
STRATAGRAPH INC				2
SAFETY AUTOMATION TECHNOLOGY LLC				2
TRIFECTA OILFIELD SERVICES LLC				4
JOHNNY MORALES				12
OFI TESTING EQUIPMENT INC				2

Daily Drilling Report

UTL 1308J 3814H				DELAWARE	
H & P - 650				Job:	ODR
Accept: 8/5/2021				Report Date:	8/25/2021
Days Since LTI: 92.00				Report #:	23
Release:				DFS:	21
Days Since RI: 150.00				AFE #:	9015117
				Total AFE + Sup:	\$4,368,347.65
				Daily Field Est. (Cost):	\$134,441.93

P/UWI 42-475-38230-0000		Well Profile HORIZONTAL		Open Formation BONE SPRING 3 (BSPG 3)		Field Name SPRABERRY (TREND AREA)										
SSN ID00056173		Property Sub		KB-Grd (ft) 26.50		Orig KB Elev (ft) 2,730.50		Ground Elevation (ft) 2,704.00		Spud Date 7/13/2021		TD Date 8/24/2021				
Jobs																
Responsible Grp 2				Responsible Grp 3				Job Type		Start Date			End Date		Job Status	
DRL ENG - ALEXANDER LINDBLAD				AREA TEAM 1				ODR		7/13/2021 00:00					IN PROGRESS	
Job Dates (ex. Estimated Pad Release, TXRRC Calls)																
Type				Subtype				Date			Note					
MILESTONE				ESTIMATED PAD RELEASE				10/30/2021			TD'd lateral on 1st well of 3 well pad, drilling sequentially.					
Daily Operations																
Footage/Meterage (ft) 624.00		Drilling Hours (hr) 16.25		% Rotating Time (%) 100.00		End Depth (ftKB) 21,780.0		Target Depth (ftKB) 21,797.0		Daily Field Est Total (Cost) 134,441.93		Cum Field Est To Date (Cost) 2,884,276.08				
24 HR ROP (ft/hr) 38.4		Circulating Hours (hr) 1.50		% Sliding Time (%) 0.00		End Depth (TVD) (ftKB) 11,062.4		Target Depth (TVD) (ftKB) 10,880.1		Daily Mud Field Est (Cost) 20,923.13		Cum Mud Field Est (Cost) 120,531.84		Total AFE + Sup (Cost) 4,368,347.65		
Daily Goal Description DRILLED FEET				Daily Goal - Last 24 624.0				Daily Goal - Next 24 0.0				Goal Comments Goal met				
Backbuild Yes		Lateral Inclination Toe Down		Last Casing String INTERMEDIATE 2, 10,596.0ftKB						Next Casing String PRODUCTION, 21,770.0ftKB						
Avg Connection Gas 256.00		Avg Trip Gas 152.00		Avg Background Gas 255.00				Max Connection Gas 449.00		Max Trip Gas 244.00		Max Drill Gas 416.00				
Operations Summary Drill 6 3/4" Lateral F/21,156' T/21,639', perform K&M clean up cycle F/21,639' T/21,660', rig service, perform K&M clean up cycle F/21,660' - T/21,780'(TD), flow check, TOO H 10 stands, flow check, pump slug, TOO H T/14,155', change out rotating head, TOO H T/11,000'																
(0% sliding RSS, 1.12° Avg lateral DLS, 32' below, 33.5' right)																
Operations Next Report Period TOOH T/BHA, LD RSS, RU and run 5.5" casing.																
Operations at Report Time TOOH @ 11,000 while holding back pressure																
Remarks Rig NPT - Well: 2.0 Total hrs 3rd Party NPT Well: 1.0 Total hrs Pioneer NPT Well: 0 Total hr 3.00 hrs																
Surf-100%, INT1- 100%, INT2- 100%, Curve- 100%, Prod- 100%																
Time Log																
Start Time	Dur (hr)	End Time	Phase	Operation	Ops Category	Com				Start Depth (ftKB)	End Depth (ftKB)	Prob Hrs (hr)	Prob Ref #			
06:00	10.25	16:15	PROD, DRL LAT	DRL	NORMAL	Drill 6 3/4" Lateral F/21,156' T/ 21,639', 483', 47.1 fph. 100 rpm, 25/39k wob, 340 gpm, 500/1140 diff, 21 k tq Off-bottom downlinked to IH 100% @ 180 to correct hard deflection up to 95°, increased to max gpm at 340 for pad push. Pumped a 30 bbl diesel sweep to help clear any obstructions in the Orbit. At 21,297' downlinked for SR @ 216° to mitigate right hand push @ 75°. Downlink for 90.5° IH w/ 25% Left turn. Inclination fell to 85°, at 21,544' downlinked on bottom for Absolute Highside. Survey @ 85.01 inc and 75.07 Az, 2' Below and 26' Right. Projected at 21,779' TD @ 24' Below and 30.8' Right. Off bottom downlink for Absolute Highside at 21,583'. Pumped a 20 Bbl diesel sweep.				21,156.0	21,639.0					
16:15	1.25	17:30	PROD, POST DRL	K&M_CLEANUP	NORMAL	Perform K&M clean up cycle F/ 21,639' T/ 21,660' at 20 fph with 340 gpm				21,639.0	21,660.0					
17:30	0.25	17:45	PROD, POST DRL	RIG_SVC	NORMAL	Rig Service - Change In-Line Screen				21,660.0	21,660.0					
17:45	6	23:45	PROD, POST DRL	K&M_CLEANUP	NORMAL	Perform K&M clean up cycle F/ 21,660' T/ 21,780' at 20 fph with 340 gpm Raise MW 0.3 to 12.7# for trip margin.				21,660.0	21,780.0					
23:45	0.25	00:00	PROD, POST DRL	FLOW_CHK	NORMAL	Flow Check - Well is static				21,780.0	21,780.0					
00:00	0.75	00:45	PROD, POST DRL	TOOH_ELEV	NORMAL	Pull 10 stands wet @ 80 fpm holding 400 psi back pressure with the MPD choke				21,780.0	21,780.0					
00:45	0.25	01:00	PROD, POST DRL	CIRC	NORMAL	Flow check, well is static, pump slug				21,780.0	21,780.0					
01:00	4	05:00	PROD, POST DRL	TOOH_ELEV	NORMAL	TOOH T/14,155' @ 100 fpm utilizing PDC's back pressure and trip speed schedule.				21,780.0	21,780.0					
05:00	0.5	05:30	PROD, POST DRL	HDL_ROT HD	NORMAL	Change out leaking rotating head.				21,780.0	21,780.0					
05:30	0.5	06:00	PROD, POST DRL	TOOH_ELEV	NORMAL	TOOH T/11,000' @ 100 fpm utilizing PDC's back pressure and trip speed schedule.				21,780.0	21,780.0					
Daily Drilling Report																
Page 1/4																
Printed: Wednesday, August 25, 2021																

Daily Drilling Report

DELAWARE	
Job:	ODR
Report Date:	8/25/2021
Report #:	23
DFS:	21
AFE #:	9015117
Total AFE + Sup:	\$4,368,347.65
Daily Field Est. (Cost):	\$134,441.93

Daily Drilling Report Page 2/4 Printed: Wednesday, August 25, 2021

Daily Drilling Report

UTL 1308J 3814H				DELAWARE	
H & P - 650				Job:	ODR
Accept: 8/5/2021				Report Date:	8/25/2021
Days Since LTI: 92.00				Report #:	23
Release:				DFS:	21
Days Since RI: 150.00				AFE #:	9015117
				Total AFE + Sup:	\$4,368,347.65
				Daily Field Est. (Cost):	\$134,441.93

Mud Checks										
Time 21:15		Mud Company PIONEER DRILLING FLUIDS			Type OIL BASE	Depth (ftKB) 21,734.0	Density (lb/gal) 12.70	Funnel Viscosity (s/qt) 58	T Flowline (°F) 117.0	
PV (cP) 23.0	YP (lb/100ft²) 11.000	Vis 3rpm 7	Vis 6rpm 8	Filtrate (mL/30min)	HTHP Filtrate (mL/30min) 13.0		HTHP Temperature (°F) 200.0		HTHP Pressure (psi) 500.0	
Solids (%) 26.0		Low Gravity Solids (%) 11.3		Sand (%)	MBT (lb/bbl)		Pm (mL/mL)		Pf (mL/mL)	
Chlorides (mg/L) 41,500		Calcium (mg/L) 13,000		CaCl (ppm)	Oil Water Ratio 80/20	Electric Stab (V) 485.0		Lime (lb/bbl) 3.3	pH	
Gel 10 sec (lb/100ft²) 9.000				Gel 10 min (lb/100ft²) 19.000			Gel 30 min (lb/100ft²) 22.000			
Comment Maintain MW 12.4 ppg, then raised to 12.7 ppg; Add Diesel @4.8 bbl/hr; Add Water @.83 bbl/hr; Add 2.54 ppb DD MUL; Add .6 ppb DD Wet; Add 20.52 ppb Calcium Chloride; Add 37.31 ppb Lime; Add 9.70 ppb GelTone; Add 7.46 ppb Gilsonite										
Last BOP Test										
Date	Test Type		Item Tested			Next Test Date	Com			
8/7/2021	BOP		BOP'S, 8/5/2021 04:30, <class>			8/28/2021				
Leak Off and Formation Integrity Tests										
Test Type			Depth (ftKB)			Dens Fluid (lb/gal)				
FORMATION INTEGRITY						1,009.0		12.57		
FORMATION INTEGRITY						8,390.0		11.20		
FORMATION INTEGRITY						10,596.0		14.04		
Casing Pressure Test										
Test Type		Test Subtype		Date	Item Tested		Failed?	Time (min)	P (psi)	
CASING		STANDARD		7/23/2021	SURFACE, 968.3ftKB		No	30.00	1,000.0	
CASING		STANDARD		8/13/2021	INTERMEDIATE, 8,372.0ftKB		No	30.00	30.0	
CASING		STANDARD		8/18/2021	INTERMEDIATE 2, 10,596.0ftKB		No	30.00	2,585.0	
Kick Offs & Key Depths										
Date			Type		Top Depth (ftKB)		Depth Top (TVD) (ftKB)			
8/18/2021 21:00			KICK OFF		10,660.0		10,582.7			
8/19/2021 15:15			HEEL		11,459.0		11,089.1			
8/24/2021 23:45			TOE		21,780.0		11,062.4			
Casing Strings										
Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread		P LeakOff (psi)		
CONDUCTOR	106.5	106.5	20	H40	78.67					
SURFACE	968.3	967.9	13 3/8	J55	54.50	BTC		658.7		
INTERMEDIATE	8,372.0	8,295.9	9 5/8	L80-IC	40.00	BTC		4,837.3		
INTERMEDIATE 2	10,596.0	10,518.9	7 5/8	P110-IC	29.70	WEDGE 441		7,669.6		
Gas Emissions - Flare										
Type	Method	Dur (min)	Amount	Units	Com					
Job Supply Amounts										
Supply Item Des		Type	Unit Label	Received	Consumed	Returned	Note		Cum On Loc	Cum Consumed
DIESEL		FUEL	GAL	0	2,320	0			5,401	37,270.0
DIESEL		MUD	GAL	7,211	4,767	0			11,508	32,244.0
WATER		FRESH	BBL	0	0	0			0	18,630.0
Mud Additive Amounts										
Des		Type	Units	Rec	Consumed	On Loc		Cum Cons		
BAROID 41 - TON (ST)		WEIGHTING MATERIAL	TON	20	61	35.38		219		
CALCIUM CHLORIDE		SALT	SACK	0	55	225.0		325		
DDF MUL		ALL IN ONE EMULSIFIER	GAL	0	460	200.0		1,120		
DDF WET		WETTING AGENT	DRUM	0	100	100.0		230		
GELTONE V		OIL MUD ADDITIVE	SACK	0	26	57.0		93		
LIME		PH MODIFIER	SACK	0	100	175.0		377		
TRANSPORTATION		MISCELLANEOUS	EA	1,050	1,050	0.0		10,615		
XMP GILSONITE		FILTRATE CONTROL	SACK	0	20	30.0		70		
Pump Operations										
Pump #	Make			Model	Liner Size (in)	Stroke (in)	Vol/Stk (bbl/stk)		P Max (psi)	
1	GARDNER-DENVER			PZ-11-1600	5	11.00	0.067		7,500.0	
2	GARDNER-DENVER			PZ-11-1600	5	11.00	0.067		7,500.0	
3	GARDNER-DENVER			PZ-11-1600	5 1/2	11.00	0.081		6,335.0	
Pump Checks										
Pump #	Depth (ftKB)	Time	P (psi)	Strokes (spm)	Q Flow (gpm)		Eff (%)			
1	21,280.0	09:15	860.0	20	53		95			
1	21,280.0	09:15	1,025.0	30	80		95			
1	21,280.0	09:15	1,225.0	40	107		95			
1	21,754.0	23:45	760.0	20	53		95			
1	21,754.0	23:45	1,160.0	40	107		95			
1	21,754.0	23:45	1,740.0	60	160		95			
2	21,280.0	09:15	990.0	30	80		95			
Daily Drilling Report										
Page 3/4					Printed: Wednesday, August 25, 2021					

Daily Drilling Report

H & P - 650

Release:

Days Since RI: 150.00

\$134,441.93

Daily Drilling Report

UTL 1308J 3814H				DELAWARE	
H & P - 650				Job:	ODR
Accept: 8/5/2021				Report Date:	8/26/2021
Days Since LTI: 93.00				Report #:	24
Release:				DFS:	22
Days Since RI: 151.00				AFE #:	9015117
				Total AFE + Sup:	\$4,368,347.65
				Daily Field Est. (Cost):	\$109,304.32

P/I/UWI 42-475-38230-0000		Well Profile HORIZONTAL		Open Formation BONE SPRING 3 (BSPG 3)		Field Name SPRABERRY (TREND AREA)					
SSN ID00056173		Property Sub		KB-Grd (ft) 26.50	Orig KB Elev (ft) 2,730.50	Ground Elevation (ft) 2,704.00	Spud Date 7/13/2021	TD Date 8/24/2021			
Jobs											
Responsible Grp 2		Responsible Grp 3		Job Type	Start Date		End Date	Job Status			
DRL ENG - ALEXANDER LINDBLAD		AREA TEAM 1		ODR	7/13/2021 00:00			IN PROGRESS			
Job Dates (ex. Estimated Pad Release, TXRRC Calls)											
Type			Subtype		Date		Note				
MILESTONE			ESTIMATED PAD RELEASE		10/30/2021		Running production casing on 1st well of 3 well pad, drilling sequentially.				
Type TXRRC CALL			Subtype CEMENT PROD		Date 8/25/2021		Note Stephanie				
Daily Operations											
Footage/Meterage (ft) 0.00		Drilling Hours (hr)		% Rotating Time (%)	End Depth (ftKB) 21,780.0		Target Depth (ftKB) 21,797.0	Daily Field Est Total (Cost) 109,304.32	Cum Field Est To Date (Cost) 2,993,580.40		
24 HR ROP (ft/hr)		Circulating Hours (hr)		% Sliding Time (%)	End Depth (TVD) (ftKB) 11,062.4		Target Depth (TVD) (ftKB) 10,880.1	Daily Mud Field Est (Cost) 3,382.50	Cum Mud Field Est (Cost) 123,914.34	Total AFE + Sup (Cost) 4,368,347.65	
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 Down		Last Casing String INTERMEDIATE 2, 10,596.0ftKB				Next Casing String PRODUCTION, 21,771.0ftKB			
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 TOOH T/BHA, LD RSS, pull wear bushing, clean rig floor, PJSM on RU and run 5.5" casing T/ 14,354'.											
Operations Next Report Period Continue running 5.5" casing T/21,771', burst airlock sub, perform burping procedure, circulate surface to surface, Rig up cement crew and cement casing, W/ no HSE events											
Operations at Report Time Runnig 5.5" production casing @ 14,354'											
Remarks Rig NPT - Well: 2.0 Total hrs 3rd Party NPT Well: 1.0 Total hrs Pioneer NPT Well: 0 Total hr 3.00 hrs											
Surf-100%, INT1- 100%, INT2- 100%, Curve- 100%, Prod- 100%											
Time Log											
Start Time	Dur (hr)	End Time	Phase	Operation	Ops Category	Com		Start Depth (ftKB)	End Depth (ftKB)	Prob Hrs (hr)	Prob Ref #
06:00	1.5	07:30	PROD, POST DRL	TOOH_ELEV	NORMAL	TOOH T/ 9,500' @ 100 fpm utilizing PDC's back pressure and trip speed schedule.		21,780.0	21,780.0		
07:30	0.25	07:45	PROD, POST DRL	FLOW_CHK	NORMAL	Flow check, Well static		21,780.0	21,780.0		
07:45	0.25	08:00	PROD, POST DRL	HDL_ROTHD	NORMAL	Remove rotating head and install trip nipple.		21,780.0	21,780.0		
08:00	4	12:00	PROD, POST DRL	TOOH_ELEV	NORMAL	TOOH F/ 9,500' T/ BHA Proper hole fill observed on trip tanks.		21,780.0	21,780.0		
12:00	0.25	12:15	PROD, POST DRL	SFTY	NORMAL	PJSM w/ rig crew, Phoenix and PNR rep over L/D directional tools		21,780.0	21,780.0		
12:15	1.25	13:30	PROD, POST DRL	LD_DIR	NORMAL	L/D directional tools and break bit		21,780.0	21,780.0		
13:30	0.5	14:00	PROD, POST DRL	RIG_SVC	NORMAL	Service rig and do drops inspection		21,780.0	21,780.0		
14:00	1	15:00	PROD, POST DRL	WRBSH	NORMAL	Pull wear bushing and clean rig floor		21,780.0	21,780.0		
15:00	0.25	15:15	PROD, POST DRL	SFTY	NORMAL	PJSM w/ rig crew, TCI, Weatherford, Texas Tq turn, Tenaris and PNR rep over rigging up and running casing.		21,780.0	21,780.0		
15:15	1.25	16:30	PROD, CASE & CMT	RU_CSG	NORMAL	Rig up casing crew and CRT		21,780.0	21,780.0		
16:30	0.25	16:45	PROD, CASE & CMT	MU_SHOE_TR K	NORMAL	Make up shoe track and pump through same.		21,780.0	21,780.0		
16:45	13.25	06:00	PROD, CASE & CMT	CSG_W/O ROTATION	NORMAL	Pick up and run 5.5" Production Csg with airlock T/14,354' 200 fpm Max run speed dictated by displacment volume back to the trip tanks. Filling pipe on the fly.		21,780.0	21,780.0		
Drill Strings											
BHA #8 , PRODUCTION - LATERAL											
Bit Run 8			Drill Bit 6 3/4in, D406TS, 5321334				Bit Type PDC		Make GE/BAKER HUGHES		
Nozzles (1/32") 10/10/10/10/10/11			Bit Total Fluid Area (nozzles) (in²) 0.48		IADC Bit Dull 1-1-WT-A-X-0-CT-TD		Hours Drilled By Bit (hr) 102.75		Depth Drilled By Bit (ft) 10,141.00		
BHA Drilling Time (hr) 102.75			BHA Depth Drilled (ft) 10,141.00		BHA ROP (ft/hr) 98.7		Depth In (ftKB) 11,639.0		Depth Out (ftKB) 21,780.0		
Daily Drilling Report											
Page 1/3											
Printed: Thursday, August 26, 2021											

Daily Drilling Report

UTL 1308J 3814H	
H & P - 650	
Accept: 8/5/2021	Release:
Days Since LTI: 93.00	Days Since RI: 151.00

DELAWARE	
Job:	ODR
Report Date:	8/26/2021
Report #:	24
DFS:	22
AFE #:	9015117
Total AFE + Sup:	\$4,368,347.65
Daily Field Est. (Cost):	\$109,304.32

Drill String Components															
Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)	Wt (lbf)	Cum Wt (1000lbf)	Make							
242	DRILL PIPE	5	4.28	7,600.36	21,780.00	148,207.0	162								
1	SUB - XO	6 1/2	3.00	4.96	14,179.64		14								
437	DRILL PIPE	4 1/2	3.00	13,761.14	14,174.68		14	RIG							
4	HWDP - SPIRALED	4 1/2	3.00	123.90	413.54	6,108.3	14	RIG							
1	REAMER - DRILL N' REAM	5 1/4	3.00	8.15	289.64		8	DRILLING TOOLS INTERNATIONAL							
5	HWDP - SPIRALED	4 1/2	3.00	156.36	281.49	7,708.5	8	RIG							
1	SUB - XO	5.29	2.25	3.02	125.13		0	DRILLING TOOLS INTERNATIONAL							
1	MOTOR - SLICK SLEEVE	5 1/4	2.00	35.00	122.11		0	PHOENIX							
1	SUB - SHOCK	5 1/4	2.44	18.15	87.11		0	TOMAX							
1	SUB - FILTER	5.32	2.50	3.58	68.96		0	DRILLING TOOLS INTERNATIONAL							
1	STABILIZER	5.23	2.69	4.83	65.38		0	DRILLING TOOLS INTERNATIONAL							
1	DRILL COLLAR - PONY, NON MAG	5.05	2.75	21.44	60.55		0	DRILLING TOOLS INTERNATIONAL							
1	STABILIZER	5.24	2.69	4.85	39.11		0	DRILLING TOOLS INTERNATIONAL							
1	DRILL COLLAR - PONY, NON MAG	5.42	2.81	14.62	34.26		0	DRILLING TOOLS INTERNATIONAL							
1	SUB - UBHO	5.16	2.69	3.64	19.64		0	DRILLING TOOLS INTERNATIONAL							
1	STABILIZER	5 1/4	3.00	2.56	16.00		0	DRILLING TOOLS INTERNATIONAL							
1	RSS TOOL	4 3/4	2.50	12.44	13.44		0	PHOENIX							
Mud Motors															
SN	Bend Angle	Bearing Type	Lobe Config	# Stages	Lwr Defln Type	Bit To Bend									
PHX576060-PTS	0	NOT SEALED	7:8	7		0									
Sensors															
Sensor Type		Sensor-Bit (ft)			Note										
GAMMA		29.28													
DIRECTIONAL		36.00													
Hydraulic Calculations															
Dens Mud (lb/gal)	ECD End (lb/gal)	Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Jet Vel (ft/s)	Bit dP (psi)	Min Open Hole AV (ft/min)	Max Open Hole AV (ft/min)	Vol DrillString (bbl)	Vol Bit to Shoe (bbl)	Vol Shoe to Top (bbl)					
Mud Checks															
Time 19:00		Mud Company PIONEER DRILLING FLUIDS			Type OIL BASE		Depth (ftKB) 21,780.0		Density (lb/gal) 12.75		Funnel Viscosity (s/qt) 57		T Flowline (°F)		
PV (cP) 21.0		YP (lbf/100ft²) 10.000		Vis 3rpm 7		Vis 6rpm 7		Filtrate (mL/30min)		HTHP Filtrate (mL/30min) 14.4		HTHP Temperature (°F) 200.0		HTHP Pressure (psi) 500.0	
Solids (%) 25.5		Low Gravity Solids (%) 9.8			Sand (%)			MBT (lb/bbl)		Pm (mL/mL)		Pf (mL/mL)			
Chlorides (mg/L) 41,000		Calcium (mg/L) 13,800		CaCl (ppm)		Oil Water Ratio 79/21		Electric Stab (V) 491.0		Lime (lb/bbl) 3.1		pH			
Gel 10 sec (lbf/100ft²) 10.000				Gel 10 min (lbf/100ft²) 16.000				Gel 30 min (lbf/100ft²) 20.000							
Comment															
No treatment needed.															
Last BOP Test															
Date		Test Type		Item Tested			Next Test Date		Com						
8/7/2021		BOP		BOP'S, 8/5/2021 04:30, <class>			8/28/2021								
Leak Off and Formation Integrity Tests															
Test Type				Depth (ftKB)				Dens Fluid (lb/gal)							
FORMATION INTEGRITY				1,009.0				12.57							
FORMATION INTEGRITY				8,390.0				11.20							
FORMATION INTEGRITY				10,596.0				14.04							
Casing Pressure Test															
Test Type		Test Subtype			Date		Item Tested		Failed?		Time (min)		P (psi)		
CASING		STANDARD			7/23/2021		SURFACE, 968.3ftKB		No		30.00		1,000.0		
CASING		STANDARD			8/13/2021		INTERMEDIATE, 8,372.0ftKB		No		30.00		30.0		
CASING		STANDARD			8/18/2021		INTERMEDIATE 2, 10,596.0ftKB		No		30.00		2,585.0		
Kick Offs & Key Depths															
Date				Type			Top Depth (ftKB)		Depth Top (TVD) (ftKB)						
8/18/2021 21:00				KICK OFF			10,660.0		10,582.7						
8/19/2021 15:15				HEEL			11,459.0		11,089.1						
8/24/2021 23:45				TOE			21,780.0		11,062.4						
Daily Drilling Report				Page 2/3				Printed: Thursday, August 26, 2021							

Daily Drilling Report

H & P - 650

Release:

Days Since RI: 151.00

ODR

8/26/2021

24

22

9015117

\$4,368,347.65

\$109,304.32

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Daily Drilling Report

UTL 1308J 3814H				DELAWARE	
H & P - 650				Job:	ODR
Accept: 8/5/2021				Report Date:	8/27/2021
Days Since LTI: 94.00				Report #:	25
Release:				DFS:	23
Days Since RI: 152.00				AFE #:	9015117
				Total AFE + Sup:	\$4,368,347.65
				Daily Field Est. (Cost):	\$792,731.09

PWI/UWI 42-475-38230-0000		Well Profile HORIZONTAL		Open Formation BONE SPRING 3 (BSPG 3)		Field Name SPRABERRY (TREND AREA)													
SSN ID00056173		Property Sub		KB-Grd (ft) 26.50		Orig KB Elev (ft) 2,730.50		Ground Elevation (ft) 2,704.00		Spud Date 7/13/2021		TD Date 8/24/2021							
Jobs																			
Responsible Grp 2				Responsible Grp 3				Job Type		Start Date			End Date		Job Status				
DRL ENG - ALEXANDER LINDBLAD				AREA TEAM 1				ODR		7/13/2021 00:00					IN PROGRESS				
Job Dates (ex. Estimated Pad Release, TXRRC Calls)																			
Type				Subtype				Date			Note								
MILESTONE				ESTIMATED PAD RELEASE				10/30/2021			Production casing set on 1st well of 3 well pad, drilling sequentially.								
Daily Operations																			
Footage/Meterage (ft) 0.00		Drilling Hours (hr)			% Rotating Time (%)			End Depth (ftKB) 21,780.0			Target Depth (ftKB) 21,797.0			Daily Field Est Total (Cost) 792,731.09		Cum Field Est To Date (Cost) 3,786,311.49			
24 HR ROP (ft/hr)		Circulating Hours (hr)			% Sliding Time (%)			End Depth (TVD) (ftKB) 11,062.4			Target Depth (TVD) (ftKB) 10,880.1			Daily Mud Field Est (Cost)		Cum Mud Field Est (Cost) 123,914.34		Total AFE + Sup (Cost) 4,368,347.65	
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 Down		Last Casing String PRODUCTION, 21,771.0ftKB								Next Casing String PRODUCTION, 21,771.0ftKB							
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 Continue running 5.5" casing T/ 21,771', burst airlock sub, perform burping procedure, circulate surface to surface, Rig up cement crew and cement casing, Rig down casing crew, install pack off and test, nipple down BOP, install back pressure valve and night cap. Rig released @00:00 8/27/21																			
Operations Next Report Period Release rig to the UTL 1308F 3811H, W/ no HSE events																			
Operations at Report Time Release rig to the UTL 1308F 3811H																			
Remarks Rig NPT - Well: 2.0 Total hrs 3rd Party NPT Well: 1.0 Total hrs Pioneer NPT Well: 0 Total hr 3.00 hrs																			
Surf-100%, INT1- 100%, INT2- 100%, Curve- 100%, Prod- 100%																			
Time Log																			
Start Time	Dur (hr)	End Time	Phase	Operation	Ops Category	Com			Start Depth (ftKB)	End Depth (ftKB)	Prob Hrs (hr)	Prob Ref #							
06:00	6.5	12:30	PROD, CASE & CMT	CSG_W/O ROTATION	NORMAL	Pick up and run 5.5" Production Csg with airlock F/14,354' T/21,740' 150 fpm Max run speed dictated by displacement volume back to the trip tanks. Filling pipe on the fly. Note: 19,300' lost 80K hook load air lock had ruptured cont RIH with casing			21,780.0	21,780.0									
12:30	0.5	13:00	PROD, CASE & CMT	CSG_W/O ROTATION	NORMAL	Pick up landing joint and land out on well head 60K			21,780.0	21,780.0									
13:00	1.5	14:30	PROD, CASE & CMT	RD_CSG	NORMAL	R/D casing equipment and Crt			21,780.0	21,780.0									
14:30	4	18:30	PROD, CASE & CMT	CIRC	NORMAL	R/U cement head and Flop air / mud and circulate a surface to surface stage pumps up to 6bbl/min, 253gpm, 2160 psi with full returns			21,780.0	21,780.0									
18:30	0.25	18:45	PROD, CASE & CMT	SFTY	NORMAL	Safety meeting W/ Schlumberger and H&P rig crew			21,780.0	21,780.0									
18:45	4	22:45	PROD, CASE & CMT	CMT	NORMAL	Pressure test lines to 8500#. Pump 50 Bbls 13.2# MPE and 384 bbls 13.2# Tail cmt. Drop 1st double plug (1,000 psi disk), Pump 4 bbls retarded water, drop 2nd single plug (3,000 psi disk), Displace with 36 Bbls retarded water and 421 Bbls fresh water. 100% returns during displaced at 4.5 - 5.5 bpm, Reduced rate to 2.0 bpm for the last 30 bbls, Bumped 1st plug on time at 4,039 psi, pressured up to 4,333 psi rupturing the disc. Pumped 4 Bbls and Bumped 2nd plug at 4,050 psi, pressured up to 5,580 psi. Held pressure for 5 minutes, bleed back 8 Bbls, floats held.			21,780.0	21,780.0									
22:45	0.25	23:00	DEMOB, RIG DOWN	RD_CMT	NORMAL	R/D Schlumberger			21,780.0	21,780.0									
23:00	0.25	23:15	DEMOB, RIG DOWN	CIRC	NORMAL	Wash through BOP and flowline			21,780.0	21,780.0									
23:15	0.25	23:30	DEMOB, RIG DOWN	WH	NORMAL	L/D landing joint, install packoff, test seals to 10K PSI, pull test to 40K, test seals for 15 minutes-good, release pressure L/D packoff setting tool & install back pressure valve.			21,780.0	21,780.0									
23:30	0.25	23:45	DEMOB, RIG DOWN	ND_BOPE	NORMAL	Nipple down BOP, Remove speed head.			21,780.0	21,780.0									
23:45	0.25	00:00	DEMOB, RIG DOWN	WH	NORMAL	Install and test TA cap. Rig Released to UTL 1308F 3811H @ 00:00 Hours 8/27/2021			21,780.0	21,780.0									
Daily Drilling Report																			
Page 1/3																			
Printed: Friday, August 27, 2021																			

Daily Drilling Report

UTL 1308J 3814H				DELAWARE			
H & P - 650				Job:	ODR		
Accept: 8/5/2021				Report Date:	8/27/2021		
Days Since LTI: 94.00				Report #:	25		
Release:				DFS:	23		
Days Since RI: 152.00				AFE #:	9015117		
				Total AFE + Sup:	\$4,368,347.65		
				Daily Field Est. (Cost):	\$792,731.09		

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 16:00		Mud Company PIONEER DRILLING FLUIDS			Type OIL BASE		Depth (ftKB) 21,780.0		Density (lb/gal) 12.75				
Funnel Viscosity (s/qt) 58		T Flowline (°F) 103.0		PV (cP) 22.0		YP (lb/100ft²) 11.000		Vis 3rpm 7		Vis 6rpm 7			
Filtrate (mL/30min) 14.8		HTHP Filtrate (mL/30min) 200.0		HTHP Temperature (°F) 500.0		Solids (%) 26.0		Low Gravity Solids (%) 10.9		Sand (%)			
MBT (lb/bbl)		Pm (mL/mL)		Pf (mL/mL)		Chlorides (mg/L) 40,000		Calcium (mg/L) 13,000		CaCl (ppm)			
Oil Water Ratio 80/20		Electric Stab (V) 493.0		Lime (lb/bbl) 2.8		pH		Gel 10 sec (lb/100ft²) 10.000		Gel 10 min (lb/100ft²) 15.000			
Gel 30 min (lb/100ft²) 21.000													
Comment No treatment needed.													
Last BOP Test													
Date	Test Type		Item Tested			Next Test Date		Com					
8/7/2021	BOP		BOP'S, 8/5/2021 04:30, <class>			8/28/2021							
Leak Off and Formation Integrity Tests													
Test Type			Depth (ftKB)			Dens Fluid (lb/gal)							
FORMATION INTEGRITY			1,009.0			12.57							
FORMATION INTEGRITY			8,390.0			11.20							
FORMATION INTEGRITY			10,596.0			14.04							
Casing Pressure Test													
Test Type		Test Subtype		Date		Item Tested		Failed?	Time (min)	P (psi)			
CASING		STANDARD		7/23/2021		SURFACE, 968.3ftKB		No	30.00	1,000.0			
CASING		STANDARD		8/13/2021		INTERMEDIATE, 8,372.0ftKB		No	30.00	30.0			
CASING		STANDARD		8/18/2021		INTERMEDIATE 2, 10,596.0ftKB		No	30.00	2,585.0			
Kick Offs & Key Depths													
Date			Type			Top Depth (ftKB)		Depth Top (TVD) (ftKB)					
8/18/2021 21:00			KICK OFF			10,660.0		10,582.7					
8/19/2021 15:15			HEEL			11,459.0		11,089.1					
8/24/2021 23:45			TOE			21,780.0		11,062.4					
Casing Strings													
Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)						
CONDUCTOR	106.5	106.5	20	H40	78.67								
SURFACE	968.3	967.9	13 3/8	J55	54.50	BTC	658.7						
INTERMEDIATE	8,372.0	8,295.9	9 5/8	L80-IC	40.00	BTC	4,837.3						
INTERMEDIATE 2	10,596.0	10,518.9	7 5/8	P110-IC	29.70	WEDGE 441	7,669.6						
PRODUCTION	21,771.0	11,061.3	5 1/2	P110-S	23.00	TSH625							
Cement													
PRODUCTION CASING CEMENT, Casing, 8/26/2021 18:45													
Cementing End Date 8/26/2021 22:45		Wellbore ORIGINAL	Technical Result		Comment SLB TO CEMENT 5.5" PRODUCTION CASING								
Cement Stages													
Description		Final Top De...	Btm (ftKB)	Top Pl...	Btm Pl...	Q Pump Init (...)	Q Pump Fina...	Q Pump Avg...	P Pump Final...	P Plug Bump...	Float...	Recip?	Rotated?
		5,000.0	21,774.6	Yes	No	6	2	5	4,100.0	5,500.0	No	No	No
Cement Fluids													
Fluid Type MUDPUSH			Estimated Top (ftKB) 3,923.0	Est Btm (ftKB) 5,000.0	Class		Yield (ft³/sack)	Density (lb/gal) 13.20					
Fluid Type TAIL CMT			Estimated Top (ftKB) 5,000.0	Est Btm (ftKB) 21,668.0	Class TXI LITEWEIGHT		Yield (ft³/sack) 1.34	Density (lb/gal) 13.20					
Fluid Type DSPLMT			Estimated Top (ftKB) 461.0	Est Btm (ftKB) 21,797.0	Class		Yield (ft³/sack)	Density (lb/gal) 8.40					
Gas Emissions - Flare													
Type	Method	Dur (min)	Amount	Units	Com								
Job Supply Amounts													
Supply Item Des		Type	Unit Label	Received	Consumed	Returned	Note	Cum On Loc	Cum Consumed				
DIESEL		FUEL	GAL			11,628	Transferred to 'UTL 1308F 3811H'	0	38,258.0				
DIESEL		FUEL	GAL	0	0	0		0	38,258.0				
DIESEL		MUD	GAL			18,466	Transferred to 'UTL 1308F 3811H'	0	32,498.0				
DIESEL		MUD	GAL	0	0	0		0	32,498.0				
WATER		FRESH	BBL	0	0	0	Transferred to 'UTL 1308F 3811H'	0	18,630.0				
WATER		FRESH	BBL	14,473	14,473	0	Meter reading 32,115	0	33,103.0				
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)					
Pump Checks													
Pump #	Depth (ftKB)	Time	P (psi)	Strokes (spm)	Q Flow (gpm)			Eff (%)					
Daily Drilling Report													

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Daily Drilling Report

H & P - 650

Release:

Days Since RI: 152.00

Job:

ODR

8/27/2021

25

23

9015117

\$4,368,347.65

\$792,731.09

Printed: Friday, August 27, 2021