

Daily Drilling Report

UTL 1308A 4101H				DELAWARE	
H & P - 487				Job:	ODR
Accept: 8/18/2021				Report Date:	10/1/2021
Days Since LTI: 387.00				Report #:	23
Release:				DFS:	21
Days Since RI: 387.00				AFE #:	9015111
				Total AFE + Sup:	\$4,412,374.71
				Daily Field Est. (Cost):	\$253,265.11

P/U/UWI 42-475-38217-0000		Well Profile HORIZONTAL		Open Formation WOLFCAMP A1 (WFMP A1)		Field Name PHANTOM (WOLFCAMP)				
SSN ID00056072	Property Sub	KB-Grd (ft) 26.50	Orig KB Elev (ft) 2,735.50	Ground Elevation (ft) 2,709.00	Spud Date 7/14/2021		TD Date			
Jobs										
Responsible Grp 2		Responsible Grp 3		Job Type	Start Date		End Date	Job Status		
DRL ENG - ALEXANDER LINDBLAD		AREA TEAM 2		ODR	7/14/2021 06:00			IN PROGRESS		
Job Dates (ex. Estimated Pad Release, TXRRRC Calls)										
Type		Subtype		Date		Note				
MILESTONE		ESTIMATED PAD RELEASE		10/15/2021		3 well pad. Drilling 3rd Inter. 2 on 3 well pad				
Daily Operations										
Footage/Meterage (ft) 337.00	Drilling Hours (hr) 3.75	% Rotating Time (%) 100.00	End Depth (ftKB) 8,704.0	Target Depth (ftKB) 22,083.0	Daily Field Est Total (Cost) 253,265.11	Cum Field Est To Date (Cost) 3,322,705.24				
24 HR ROP (ft/hr) 89.9	Circulating Hours (hr) 0.25	% Sliding Time (%) 0.00	End Depth (TVD) (ftKB) 8,640.8	Target Depth (TVD) (ftKB) 11,325.0	Daily Mud Field Est (Cost) 287.84	Cum Mud Field Est (Cost) 42,486.65	Total AFE + Sup (Cost) 4,412,374.71			
Daily Goal Description DRILLED FEET		Daily Goal - Last 24 1,200.0		Daily Goal - Next 24 1,930.0		Goal Comments Goal not met				
Backbuild	Lateral Inclination	Last Casing String INTERMEDIATE, 8,353.0ftKB			Next Casing String PROPOSED INTERMEDIATE 2, 11,832.0ftKB					
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 Complete 2nd stage cement job,L/D landing jt. Install pack off & test, Install wear bushing, P/U 8.75 BHA, TIH T/6,030', Test casing 2500 psi above DV tool for 10 min. Drill out DV tool @ 6,044', TIH T/8,250', Test casing 2500 psi for 30 min, D/O shoe track and 10' new formation, CBU, FIT(11.0 ppg, psi broke over @ 377 EMW 10.47), Drill Inter. #2 section F/8,377' T/8,704										
Operations Next Report Period Drill inter 2 section F/8,704' T/10,634'										
Operations at Report Time Drilling Inter 2 @ 8,704'/ Day crew full, 1 man short on nights										
Remarks Daily NPT: 1.5, Rig: 0 , 3rd: 0 PNR: 0 Cum. NPT: 1.5, Rig: 0, 3rd: 0, PNR: 0 Surface: 100% Intermediate #1= 100% Intermediate #2: 11% Curve: 0% Lateral: 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	2.25	08:15	INT, CASE & CMT	CMT	SIDETRA CK	Cement 9 5/8" intermediate casing secon stage, 50 bbl of 11 lb/gal spacer, 970 bbs of 11.0 lb/gal lead cement, 56 bbls of 14.8 lb/gal tail cement, and displace with 458 bbl of active mud. With full returns. Bumped plug with calculated displacement, final lift was 600 psi at 4 BPM., bumped to 170, plug started leaking by. Attempted to bled off and DV tool did not close. Attempted to flush dv tool and reseat plug, unsuccessful. Decision made to wait on tail cement to setup holding 500 psi on string	8,367.0	8,367.0	2.25	7
08:15	3	11:15	INT, CASE & CMT	WAIT	SIDETRA CK	Wait for tail cement to setup, flush and drain stack	8,367.0	8,367.0	3.00	7
11:15	0.5	11:45	INT, CASE & CMT	RD_CMT	SIDETRA CK	R/D cement crew	8,367.0	8,367.0	0.50	7
11:45	2	13:45	INT, CASE & CMT	WH	SIDETRA CK	L/D landing joint, attempt to set pack off. Pack off not holding, use back up pack off on site, tested good	8,367.0	8,367.0	2.00	7
13:45	0.25	14:00	INT2, PRE DRL	WRBSH	SIDETRA CK	Install wear bushing	8,367.0	8,367.0	0.25	7
14:00	0.25	14:15	INT2, PRE DRL	SFTY	SIDETRA CK	PJSM over picking BHA	8,367.0	8,367.0	0.25	7
14:15	0.75	15:00	INT2, PRE DRL	PU_DIR	SIDETRA CK	P/U 8 3/4 directional BHA	8,367.0	8,367.0	0.75	7
15:00	3.5	18:30	INT2, PRE DRL	TIH_ELEV	SIDETRA CK	TIH F/ 96' T/6,044', Hole giving proper displacment	8,367.0	8,367.0	3.50	7
18:30	1	19:30	INT2, PRE DRL	CSG_TEST	SIDETRA CK	Set down 57k on dv tool and seen tool shift closed, Test casing above dv tool 2500 psi(Good test)	8,367.0	8,367.0	1.00	7
19:30	0.75	20:15	INT2, PRE DRL	DRL_OUT	SIDETRA CK	Drill DV tool @ 6,044', Full Returns	8,367.0	8,367.0	0.75	7
20:15	0.75	21:00	INT2, PRE DRL	CSG_TEST	SIDETRA CK	Test casing below DV Tool to 2500 psi for 30 min (Good Test)	8,367.0	8,367.0	0.75	7
21:00	1.25	22:15	INT2, PRE DRL	TIH_ELEV	SIDETRA CK	TIH F/ 6,044' T/ 8,255'. Tag up 10k down.	8,367.0	8,367.0	1.25	7
22:15	2	00:15	INT2, PRE DRL	DRL_OUT	SIDETRA CK	Drill out shoe track F/ 8255" T/ 8,367' Float shoe @ 8,350'	8,367.0	8,367.0	2.00	7
00:15	0.5	00:45	INT2, PRE DRL	RIG_SVC	SIDETRA CK	Rig service	8,367.0	8,367.0	0.50	7
00:45	0.5	01:15	INT2, PRE DRL	HDL_ROT HD	SIDETRA CK	Pull trip nipple and install rotate head	8,367.0	8,367.0	0.50	7
Daily Drilling Report										
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PIONEER
NATURAL RESOURCES

Daily Drilling Report

UTL 1308A 4101H

H & P - 487

Accept: 8/18/2021

Release:

Days Since LTI: 387.00

Days Since RI: 387.00

DELAWARE

Job:

ODR

Report Date:

10/1/2021

Report #:

23

DFS:

21

AFE #:

9015111

Total AFE + Sup:

\$4,412,374.71

Daily Field Est. (Cost):

\$253,265.11

Time Log

Start Time	Dur (hr)	End Time	Phase	Operation	Ops Category	Com	Start Depth (ftKB)	End Depth (ftKB)	Prob Hrs (hr)	Prob Ref #
01:15	0.5	01:45	INT2, PRE DRL	DRL	SIDETRA CK	Drill new formation F/ 8,367' T/ 8,377'. Full Returns	8,367.0	8,377.0	0.50	7
01:45	0.25	02:00	INT2, PRE DRL	CIRC	SIDETRA CK	Circ B/U for FIT test	8,377.0	8,377.0	0.25	7
02:00	0.75	02:45	INT2, PRE DRL	FIT	SIDETRA CK	Surface test lines to 1500 psi/Perform FIT to 11.0 ppg EMW with 9.6 ppg mud and 667 psi surface applied pressure. Pressure broke over at 377 psi EMW 10.4 ppg. Spoke with PDC and all agreed to drill ahead	8,377.0	8,612.0	0.75	7
02:45	3.25	06:00	INT2, DRL	DRL	SIDETRA CK	Drill F/8,377' T/8,704' . (327' @ 100 FPH) Full returns	8,377.0	8,704.0	3.25	7

Drill Strings

BHA #7 , INTERMEDIATE 2

Bit Run 6	Drill Bit 8 3/4in, TKC76, A275098	Bit Type PDC	Make REED	
Nozzles (1/32") 12/12/12/12/12/12	Bit Total Fluid Area (nozzles) (in²) 0.77	IADC Bit Dull -----	Hours Drilled By Bit (hr) 3.75	Depth Drilled By Bit (ft) 337.00
BHA Drilling Time (hr) 3.75	BHA Depth Drilled (ft) 337.00	BHA ROP (ft/hr) 89.9	Depth In (ftKB) 8,367.0	Depth Out (ftKB) 8,704.0

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)	Wt (lb)	Cum Wt (1000lb)	Make
13	DRILL PIPE	4 1/2	2.75	473.30	8,704.00	7,856.8	208	QUAIL
1	SUB - XO	4 3/4	2.75	4.98	8,230.70		200	QUAIL
209	DRILL PIPE	5	4.81	6,589.54	8,225.72	128,496.0	200	RIG
2	HWDP - SPIRALED	5	3.00	59.27	1,636.18		72	RIG
1	DRILLING JARS - HYDRAULIC	6 3/4	2.75	33.98	1,576.91		72	WEATHERFORD
48	HWDP	5	3.00	1,445.96	1,542.93	71,575.0	72	RIG
1	STABILIZER	6 3/4	2.88	5.65	96.97		0	STABIL DRILL
1	DRILL COLLAR - NON MAG	6 5/8	3.25	27.97	91.32		0	STABIL DRILL
1	DRILL COLLAR - NON MAG	6 5/8	3.25	29.10	63.35		0	STABIL DRILL
1	SUB - UBHO	6 3/4	2.50	3.68	34.25		0	GORDON
1	STABILIZER	6 1/2	3.25	5.40	30.57		0	STABIL DRILL
1	MOTOR - STABILIZER SLEEVE	6 3/4	2.00	24.17	25.17		0	BICO

Mud Motors

SN	Bend Angle	Bearing Type	Lobe Config	# Stages	Lwr Defin Type	Bit To Bend
BPG2700-0050	1.5	SEALED	7:8	3.1		3.27

Sensors

Sensor Type	Sensor-Bit (ft)	Note
GAMMA	42.23	
DIRECTIONAL	54.00	

Drilling Parameters

Start Time	End Time	Start Depth (ftKB)	Int Depth (ft)	Int ROP (ft/hr)	WOB (1000lb)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	ROP Average (ft/hr)	Drill Str Wt (1000lb)	PU Str Wt (1000lb)	SO Str Wt (1000lb)	Off-Btm Str Wt (1000lb)	Drill Tq	Off Btm Tq	TFO (°)
01:15	01:45	8,367.0	10.00	20.0	30	30	450.0	480	2,140.0	85.0	235	300	200	235	16.0	12.0	
01:45	02:00	8,377.0	0.00		0	30	0.0	480	2,140.0	0.0	235	300	200	235	0.0	12.0	
02:45	06:00	8,377.0	327.00	100.6	40	60	475.0	700	3,700.0	80.0	235	300	200	235	16.0	12.0	

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)
9.60	9.90	299.6	5.0	290.5	733.8	19.6	364.4	173.06	261.66	240.17

Mud Checks

Time 01:00	Mud Company PIONEER DRILLING FLUIDS	Type DIRECT EMULSION	Depth (ftKB) 8,367.0	Density (lb/gal) 9.60	Funnel Viscosity (s/qt) 41	T Flowline (°F) 119.0	
PV (cP) 12.0	YP (lb/100ft²) 12.000	Vis 3rpm 2	Vis 6rpm 2	Filtrate (mL/30min) 40.0	HTHP Filtrate (mL/30min) 32.0	HTHP Temperature (°F) 250.0	HTHP Pressure (psi) 500.0
Solids (%) 12.5	Low Gravity Solids (%) 4.9	Sand (%) 0.3	MBT (lb/bbl)	Pm (mL/mL)	Pf (mL/mL)		
Chlorides (mg/L) 135,000	Calcium (mg/L)	CaCl (ppm) 2,720,000	Oil Water Ratio 37/63	Electric Stab (V)	Lime (lb/bbl) 0.2	pH 10.0	
Gel 10 sec (lb/100ft²) 2.000		Gel 10 min (lb/100ft²) 3.000		Gel 30 min (lb/100ft²) 4.000			
Comment Maintain MW 9.6-9.7ppg. BDF 947 to keep emulsion, add Soda Ash to drop calcium content, add Caustic soda to keep pH. Add diesel (12hrs), and water (21hrs) to keep OWR in specifications and help to control MW.							

Last BOP Test

Date	Test Type	Item Tested	Next Test Date	Com
9/21/2021	BOP	BOP'S, 8/18/2021 22:30, <class>	10/12/2021	Full BOP test 250 Low 5000 High

Leak Off and Formation Integrity Tests

Test Type	Depth (ftKB)	Dens Fluid (lb/gal)
FORMATION INTEGRITY	1,011.0	12.50
FORMATION INTEGRITY	8,350.0	10.48

Casing Pressure Test

Test Type	Test Subtype	Date	Item Tested	Failed?	Time (min)	P (psi)
CASING	STANDARD	7/23/2021	SURFACE, 1,011.0ftKB	No	30.00	1,000.0
CASING	STANDARD	10/31/2021	INTERMEDIATE, 8,353.0ftKB	No	30.00	2,500.0

Daily Drilling Report

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Printed: Friday, October 1, 2021

Daily Drilling Report

H & P - 487	
Accept: 8/18/2021	Release:
Days Since LTI: 387.00	Days Since RI: 387.00

Job:	ODR
Report Date:	10/1/2021
Report #:	23
DFS:	21
AFE #:	9015111
Total AFE + Sup:	\$4,412,374.71
Daily Field Est. (Cost):	\$253,265.11

Daily Drilling Report

Daily Drilling Report

UTL 1308A 4101H	
H & P - 487	
Accept: 8/18/2021	Release:
Days Since LTI: 387.00	Days Since RI: 387.00

DELAWARE	
Job:	ODR
Report Date:	10/1/2021
Report #:	23
DFS:	21
AFE #:	9015111
Total AFE + Sup:	\$4,412,374.71
Daily Field Est. (Cost):	\$253,265.11

Personnel Log	
Company	Count
PIONEER NATURAL RESOURCES USA INC	4
HELMERICH & PAYNE INTERNATIONAL DRILLING CO	13
ALTITUDE ENERGY PARTNERS INC	2
GORDON TECHNOLOGIES LLC	1
DYNAMIC ENERGY SERVICES LLC	1
STRATAGRAPH INC	2

Daily Drilling Report

UTL 1308A 4101H				DELAWARE	
H & P - 487				Job:	ODR
Accept: 8/18/2021				Report Date:	10/2/2021
Days Since LTI: 388.00				Report #:	24
Release:				DFS:	22
Days Since RI: 388.00				AFE #:	9015111
				Total AFE + Sup:	\$4,412,374.71
				Daily Field Est. (Cost):	\$145,896.70

P/UWI 42-475-38217-0000		Well Profile HORIZONTAL		Open Formation WOLFCAMP A1 (WFMP A1)		Field Name PHANTOM (WOLFCAMP)				
SSN ID00056072		Property Sub		KB-Grd (ft) 26.50	Orig KB Elev (ft) 2,735.50	Ground Elevation (ft) 2,709.00	Spud Date 7/14/2021	TD Date		
Jobs										
Responsible Grp 2		Responsible Grp 3		Job Type		Start Date		End Date		
DRL ENG - ALEXANDER LINDBLAD		AREA TEAM 2		ODR		7/14/2021 06:00				
Job Status IN PROGRESS										
Job Dates (ex. Estimated Pad Release, TXRRC Calls)										
Type			Subtype		Date		Note			
MILESTONE			ESTIMATED PAD RELEASE		10/15/2021		3 well pad. Drilling 3rd Inter. 2 on 3 well pad			
Daily Operations										
Footage/Meterage (ft) 1,061.00		Drilling Hours (hr) 14.00		% Rotating Time (%) 100.00		End Depth (ftKB) 9,765.0		Target Depth (ftKB) 22,083.0		
Daily Field Est Total (Cost) 145,896.70		Cum Field Est To Date (Cost) 3,463,590.44								
24 HR ROP (ft/hr) 75.8		Circulating Hours (hr) 1.00		% Sliding Time (%) 0.00		End Depth (TVD) (ftKB) 9,700.7		Target Depth (TVD) (ftKB) 11,325.0		
Daily Mud Field Est (Cost) 3,533.89		Cum Mud Field Est (Cost) 46,020.54		Total AFE + Sup (Cost) 4,412,374.71						
Daily Goal Description DRILLED FEET			Daily Goal - Last 24 1,930.0			Daily Goal - Next 24 1,073.0			Goal Comments Goal not met/ Due to trip	
Backbuild Yes		Lateral Inclination Toe Up		Last Casing String INTERMEDIATE, 8,353.0ftKB			Next Casing String PROPOSED INTERMEDIATE 2, 11,832.0ftKB			
Avg Connection Gas 157.00		Avg Trip Gas 0.00		Avg Background Gas 110.00		Max Connection Gas 418.00		Max Trip Gas 0.00		
Max Drill Gas 214.00										
Operations Summary Drill inter 2 section F/8,704' T/9,765', TOO H, C/O Bit, TIH T/8,300', Install rotating head, Last Survey @ 9,686' MD:9,741' 2.63 Inc, 154.96° Az. 54.15' North, 58' East)										
Operations Next Report Period TIH T/9,765',Drill Inter 2 section F/9,765' T/10,838' ICP#2 , as per directional plan ST01 Plan #1, Circulate 2 Hi-Vis sweeps around, TOO H, PWB										
Operations at Report Time Install rotating head @ 8,300'/ Full crews										
Remarks Daily NPT: 1.5, Rig: 0 , 3rd: 0 PNR: 0 Cum. NPT: 1.5, Rig: 0, 3rd: 0, PNR: 0 Surface: 100% Intermediate #1= 100% Intermediate #2: 57% Curve: 0% Lateral: 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	INT2, DRL	DRL	NORMAL	Drill F/8,704' T/9,644' . (940' @ 87 FPH) Full returns	8,704.0	9,644.0		
17:00	1	18:00	INT2, DRL	RIG_SVC	NORMAL	Rig service/ C/O oil in top drive	9,644.0	9,644.0		
18:00	3	21:00	INT2, DRL	DRL	NORMAL	Drill F/9,644' T/ 9,765' . (121' @ 40 FPH) Full returns	9,644.0	9,765.0		
21:00	0.25	21:15	INT2, DRL	FLOW_CHK	NORMAL	Flow check	9,765.0	9,765.0		
21:15	0.75	22:00	INT2, DRL	TOOH_ELEV	NORMAL	TOOH F/9,765' T/8,848', Well taking proper fill	9,765.0	9,765.0		
22:00	0.25	22:15	INT2, DRL	CIRC	NORMAL	Pump slug	9,765.0	9,765.0		
22:15	0.25	22:30	INT2, DRL	TOOH_ELEV	NORMAL	TOOH F/ 8,848' T/ 8,307", Well taking proper fill	9,765.0	9,765.0		
22:30	0.5	23:00	INT2, DRL	HDL_ROT HD	NORMAL	Pull rotating head	9,765.0	9,765.0		
23:00	3	02:00	INT2, DRL	TOOH_ELEV	NORMAL	TOOH F/ 8,307' T/ BHA', Well taking proper fill	9,765.0	9,765.0		
02:00	0.5	02:30	INT2, DRL	HDL_BHA	NORMAL	Drain motor and C/O Bit	9,765.0	9,765.0		
02:30	3.25	05:45	INT2, DRL	TIH_ELEV	NORMAL	TIH F/BHA T/ 8300', Hole giving proper displacement	9,765.0	9,765.0		
05:45	0.25	06:00	INT2, DRL	HDL_ROT HD	NORMAL	Pull trip nipple and install rotating head	9,765.0	9,765.0		
Drill Strings										
BHA #7 , INTERMEDIATE 2										
Bit Run 6			Drill Bit 8 3/4in, TKC76, A275098				Bit Type PDC		Make REED	
Nozzles (1/32") 12/12/12/12/12/12/12			Bit Total Fluid Area (nozzles) (in²) 0.77		IADC Bit Dull 8-2-CR-N-X-0-BT-PR		Hours Drilled By Bit (hr) 17.75		Depth Drilled By Bit (ft) 1,398.00	
BHA Drilling Time (hr) 17.75			BHA Depth Drilled (ft) 1,398.00		BHA ROP (ft/hr) 78.8		Depth In (ftKB) 8,367.0		Depth Out (ftKB) 9,765.0	
Drill String Components										
Jts	Item Des			OD (in)	ID (in)	Len (ft)	Cum Len (ft)	Wt (lbf)	Cum Wt (1000lbf)	Make
48	DRILL PIPE			4 1/2	2.75	1,534.30	9,765.00	25,469.4	226	QUAIL
1	SUB - XO			4 3/4	2.75	4.98	8,230.70		200	QUAIL
209	DRILL PIPE			5	4.81	6,589.54	8,225.72	128,496.0	200	RIG
2	HWDP - SPIRALED			5	3.00	59.27	1,636.18		72	RIG
1	DRILLING JARS - HYDRAULIC			6 3/4	2.75	33.98	1,576.91		72	WEATHERFORD
48	HWDP			5	3.00	1,445.96	1,542.93	71,575.0	72	RIG
1	STABILIZER			6 3/4	2.88	5.65	96.97		0	STABIL DRILL
1	DRILL COLLAR - NON MAG			6 5/8	3.25	27.97	91.32		0	STABIL DRILL
1	DRILL COLLAR - NON MAG			6 5/8	3.25	29.10	63.35		0	STABIL DRILL
1	SUB - UBHO			6 3/4	2.50	3.68	34.25		0	GORDON
1	STABILIZER			6 1/2	3.25	5.40	30.57		0	STABIL DRILL
1	MOTOR - STABILIZER SLEEVE			6 3/4	2.00	24.17	25.17		0	BICO
Mud Motors										
SN		Bend Angle		Bearing Type		Lobe Config		# Stages		
BPG2700-0050		1.5		SEALED		7:8		3.1		
Lwr Defin Type		Bit To Bend								
				3.27						
Sensors										
Sensor Type			Sensor-Bit (ft)				Note			
GAMMA			42.23							
Daily Drilling Report										
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Daily Drilling Report

UTL 1308A 4101H						DELAWARE		Job:	ODR
H & P - 487 Accept: 8/18/2021 Release: Days Since LTI: 388.00 Days Since RI: 388.00						Report Date:		10/2/2021	
						Report #:		24	
						DFS:		22	
						AFE #:		9015111	
						Total AFE + Sup:		\$4,412,374.71	
						Daily Field Est. (Cost):		\$145,896.70	

Sensors																				
Sensor Type				Sensor-Bit (ft)						Note										
DIRECTIONAL				54.00																
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	17:00	8,704.0	940.00	85.5	40	60	475.0	700	3,700.0	87.0	235	300	200	235	16.0	12.0				
17:00	18:00	9,644.0	0.00		0	60	0.0	700	3,700.0	0.0	235	300	200	235	0.0	0.0				
18:00	21:00	9,644.0	121.00	40.3	40	60	250.0	700	3,700.0	40.0	235	300	200	235	16.0	12.0				
BHA #8 , INTERMEDIATE 2																				
Bit Run 7				Drill Bit 8 3/4in, TKC76, A279277						Bit Type PDC				Make REED						
Nozzles (1/32") 12/12/12/12/12/12/12				Bit Total Fluid Area (nozzles) (in²) 0.77				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		
48	DRILL PIPE					4 1/2		2.75		1,534.30		9,765.00		25,469.4		226		QUAIL		
1	SUB - XO					4 3/4		2.75		4.98		8,230.70				200		QUAIL		
209	DRILL PIPE					5		4.81		6,589.54		8,225.72		128,496.0		200		RIG		
2	HWDP - SPIRALED					5		3.00		59.27		1,636.18				72		RIG		
1	DRILLING JARS - HYDRAULIC					6 3/4		2.75		33.98		1,576.91				72		WEATHERFORD		
1	HWDP					5		3.00		1,445.96		1,542.93		71,575.0		72		RIG		
1	STABILIZER					6 3/4		2.88		5.65		96.97				0		STABIL DRILL		
1	DRILL COLLAR - NON MAG					6 5/8		3.25		27.97		91.32				0		STABIL DRILL		
1	DRILL COLLAR - NON MAG					6 5/8		3.25		29.10		63.35				0		STABIL DRILL		
1	SUB - UBHO					6 3/4		2.50		3.68		34.25				0		GORDON		
1	STABILIZER					6 1/2		3.25		5.40		30.57				0		STABIL DRILL		
1	MOTOR - STABILIZER SLEEVE					6 3/4		2.00		24.17		25.17				0		BICO		
Sensors																				
Sensor Type				Sensor-Bit (ft)						Note										
GAMMA				42.23																
DIRECTIONAL				54.00																
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)	
9.60	10.10		299.6		5.0		290.5		733.8		19.5		1,364.0		173.62		526.89		56.55	
Mud Checks																				
Time 01:00		Mud Company PIONEER DRILLING FLUIDS					Type DIRECT EMULSION		Depth (ftKB) 9,765.0		Density (lb/gal) 9.60		Funnel Viscosity (s/qt) 41		T Flowline (°F) 126.0					
PV (cP) 16.0		YP (lbf/100ft²) 19.000		Vis 3rpm 3		Vis 6rpm 3		Filtrate (mL/30min) 10.0		HTHP Filtrate (mL/30min) 32.0		HTHP Temperature (°F) 250.0		HTHP Pressure (psi) 500.0						
Solids (%) 13.0				Low Gravity Solids (%) 6.8			Sand (%) 0.3			MBT (lb/bbl)			Pm (mL/mL)			Pf (mL/mL)				
Chlorides (mg/L) 130,000			Calcium (mg/L)			CaCl (ppm) 1,120,000		Oil Water Ratio 29/71		Electric Stab (V)			Lime (lb/bbl) 0.1			pH 9.0				
Gel 10 sec (lbf/100ft²) 3.000						Gel 10 min (lbf/100ft²) 5.000						Gel 30 min (lbf/100ft²) 6.000								
Comment Maintain MW 9.6-9.7ppg. BDF 947 to maintain emulsion, add Soda Ash as needed for calcium content, add Caustic soda for pH. Add fresh water to keep OWR in specifications and help to control MW.																				
Last BOP Test																				
Date		Test Type				Item Tested				Next Test Date		Com								
9/21/2021		BOP				BOP'S, 8/18/2021 22:30, <class>				10/12/2021		Full BOP test 250 Low 5000 High								
Leak Off and Formation Integrity Tests																				
Test Type						Depth (ftKB)						Dens Fluid (lb/gal)								
FORMATION INTEGRITY						1,011.0						12.50								
FORMATION INTEGRITY						8,350.0						10.48								
Casing Pressure Test																				
Test Type				Test Subtype				Date		Item Tested				Failed?	Time (min)		P (psi)			
CASING				STANDARD				7/23/2021		SURFACE, 1,011.0ftKB				No	30.00		1,000.0			
CASING				STANDARD				10/31/2021		INTERMEDIATE, 8,353.0ftKB				No	30.00		2,500.0			
Kick Offs & Key Depths																				
Date						Type						Top Depth (ftKB)				Depth Top (TVD) (ftKB)				
9/25/2021 12:00						KICK OFF						4,683.0				4,571.6				
Casing Strings																				
Description		Set Depth (ftKB)		Set Depth (TVD) (ftKB)		OD (in)		Grade		Wt/Len (lb/ft)		Top Thread			P LeakOff (psi)					
CONDUCTOR		106.5		106.5		20		H40		78.67										
SURFACE		1,011.0		1,010.8		13 3/8		J55		54.50		BTC			656.6					
INTERMEDIATE		8,353.0		8,285.6		9 5/8		L80-IC		40.00		BTC			4,507.6					
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				2,893							9,072		45,809.0			
Daily Drilling Report																				
Page 2/3										Printed: Saturday, October 2, 2021										

Daily Drilling Report

UTL 1308A 4101H			
H & P - 487			
Accept: 8/18/2021		Release:	
Days Since LTI: 388.00		Days Since RI: 388.00	

DELAWARE		Job:	ODR
		Report Date:	10/2/2021
		Report #:	24
		DFS:	22
		AFE #:	9015111
		Total AFE + Sup:	\$4,412,374.71
		Daily Field Est. (Cost):	\$145,896.70

Job Supply Amounts								
Supply Item Des	Type	Unit Label	Received	Consumed	Returned	Note	Cum On Loc	Cum Consumed
DIESEL	MUD	GAL		541			14,049	47,481.0
WATER	FRESH	BBL	10,118	10,118		Meter reading 60123	0	34,155.0
Mud Additive Amounts								
Des	Type	Units	Rec	Consumed	On Loc	Cum Cons		
BARITE-BULK	WEIGHTING MATERIAL	TON		4	117.0	49		
BICARBONATE OF SODA	ALKALINITY CONTROL	SACK		55	0.0	106		
PAC-L	FLUID LOSS ADDITIVES	SACK		26	22.0	78		
WO DEFOAMER A	ALCOHAL DEFOAMER	GAL		2	58.0	4		
ZINC OXIDE	SPECIALITY	SACK		2	1.0	6		
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	6,374.0		
2	GARDNER-DENVER	PZ-11-1600	5 1/2	11.00	0.081	6,374.0		
3	GARDNER-DENVER	PZ-11-1600	5 1/2	11.00	0.081	6,374.0		
Pump Checks								
Pump #	Depth (ftKB)	Time	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)		
Deviation Surveys								
Date 7/14/2021	Description AS DRILL SURVEY					Job ODR, 7/14/2021 06:00		
Date 9/25/2021	Description SIDETRACK					Job ODR, 7/14/2021 06:00		
Survey Data - All surveys for 24 hr reporting period								
MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	
8,745.00	1.64	113.14	8,681.67	207.44	-682.61	361.81	0.04	
8,838.00	1.92	134.54	8,774.63	209.37	-684.22	364.14	0.77	
8,933.00	2.09	129.45	8,869.57	211.31	-686.44	366.62	0.26	
9,026.00	2.26	123.35	8,962.50	213.64	-688.53	369.46	0.31	
9,121.00	1.86	130.46	9,057.44	215.88	-690.56	372.19	0.50	
9,214.00	2.19	122.52	9,150.39	218.06	-692.49	374.84	0.46	
9,309.00	2.75	121.39	9,245.30	220.99	-694.65	378.32	0.59	
9,403.00	3.34	112.43	9,339.16	224.87	-696.87	382.77	0.80	
9,497.00	3.20	107.47	9,433.01	229.39	-698.71	387.81	0.34	
9,592.00	3.15	100.86	9,527.87	234.09	-699.99	392.90	0.39	
9,686.00	2.63	154.96	9,621.76	236.94	-702.43	396.35	2.84	
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)	
267_BSPG2			-7,150.0		9,885.5			
268_BSPG3			-7,630.0		10,365.5			
268_PHANTOM FIELD TOP			-7,630.0		10,365.5			
ICP1			-8,035.0		10,770.5			
268_BSPG3 BASE CARBONATE			-8,190.0		10,925.5			
270_0_WFMP_A1			-8,565.0		11,300.5			
TOT			-8,640.0		11,375.5			
BOT			-8,730.0		11,465.5			
FIRST TAKE POINT (FTP)			-8,675.0		11,410.5			
PBHL/TD			-8,590.0		11,325.5			
Daily Contacts								
Job Contact		Title	Office	Mobile	Email			
LINDBLAD, ALEXANDER, ENGINEER		ENGINEER	972-969-1749		ALEXANDER.LINDBLAD@PXD.COM			
COX, BRYAN, ENGINEER		ENGINEER	972-969-5717	361-318-4212	BRYAN.COX@PXD.COM			
HARDIN, JOE, AREA DRILLING SUPERINTENDENT		AREA DRILLING SUPERINTENDENT	361-452-2118	361-318-8762	THOMAS.HARDIN@PXD.COM			
BROWN, DAN, SUPERINTENDENT		SUPERINTENDENT		469-203-9731	DAN.BROWN@PXD.COM			
JOHNSON, STEVEN, SUPERINTENDENT		SUPERINTENDENT		580-504-9863	STEVEN.JOHNSON@PXD.COM			
SALAZAR, TODD, WELLSITE SUPERVISOR		WELLSITE SUPERVISOR		325-232-2114	TODD.SALAZAR1@PXD.COM			
FOWLER, TREY, WELLSITE SUPERVISOR		WELLSITE SUPERVISOR		409-489-2876	TREY.FOWLER@PXD.COM			
RIG-H&P 487, RIG PHONE		RIG PHONE	432-200-0785		DL-HP487@PXD.COM			
Personnel Log								
Company							Count	
PIONEER NATURAL RESOURCES USA INC							4	
HELMERICH & PAYNE INTERNATIONAL DRILLING CO							13	
ALTITUDE ENERGY PARTNERS INC							2	
GORDON TECHNOLOGIES LLC							1	
DYNAMIC ENERGY SERVICES LLC							1	
STRATAGRAPH INC							2	

Daily Drilling Report

UTL 1308A 4101H				DELAWARE	
H & P - 487				Job:	ODR
Accept: 8/18/2021				Report Date:	10/3/2021
Days Since LTI: 389.00				Report #:	25
Release:				DFS:	23
Days Since RI: 389.00				AFE #:	9015111
				Total AFE + Sup:	\$4,412,374.71
				Daily Field Est. (Cost):	\$59,517.39

P/I/UWI 42-475-38217-0000		Well Profile HORIZONTAL		Open Formation WOLFCAMP A1 (WFMP A1)		Field Name PHANTOM (WOLFCAMP)				
SSN ID00056072		Property Sub	KB-Grd (ft) 26.50	Orig KB Elev (ft) 2,735.50	Ground Elevation (ft) 2,709.00	Spud Date 7/14/2021	TD Date			
Jobs										
Responsible Grp 2		Responsible Grp 3		Job Type	Start Date	End Date	Job Status			
DRL ENG - ALEXANDER LINDBLAD		AREA TEAM 2		ODR	7/14/2021 06:00		IN PROGRESS			
Job Dates (ex. Estimated Pad Release, TXRRC Calls)										
Type			Subtype		Date	Note				
MILESTONE			ESTIMATED PAD RELEASE		10/15/2021	3 well pad. Drilling 3rd Inter. 2 on 3 well pad				
Daily Operations										
Footage/Meterage (ft) 1,075.00		Drilling Hours (hr) 11.25		% Rotating Time (%) 100.00	End Depth (ftKB) 10,840.0	Target Depth (ftKB) 22,083.0	Daily Field Est Total (Cost) 59,517.39	Cum Field Est To Date (Cost) 3,523,267.83		
24 HR ROP (ft/hr) 95.6		Circulating Hours (hr) 1.50		% Sliding Time (%) 0.00	End Depth (TVD) (ftKB) 10,773.2	Target Depth (TVD) (ftKB) 11,325.0	Daily Mud Field Est (Cost) 2,065.08	Cum Mud Field Est (Cost) 48,085.62	Total AFE + Sup (Cost) 4,412,374.71	
Daily Goal Description DRILLED FEET			Daily Goal - Last 24 1,073.0			Daily Goal - Next 24 0.0		Goal Comments Goal Met		
Backbuild Yes		Lateral Inclination Toe Up	Last Casing String INTERMEDIATE, 8,353.0ftKB			Next Casing String INTERMEDIATE 2, 10,835.0ftKB				
Avg Connection Gas 101.00		Avg Trip Gas 0.00		Avg Background Gas 135.00		Max Connection Gas 220.00		Max Trip Gas 0.00	Max Drill Gas 230.00	
Operations Summary TIH T/9,765',Drill Inter 2 section F/9,765' T/10,840' ICP#2 , as per directional plan ST01 Plan #1, Circulate 2 Hi-Vis sweeps around, TOO H T/3,330', L/D 5" DP F/3,330 T/1,636', L/D HWDP F/1,639' T/ BHA Last Survey @ 10,840' 4.24 Inc, 228.25° Az. 16.98' South, 61' East)										
Operations Next Report Period PWB, R/U casing crew, M/U shoe track and test, TIH with 7 5/8 liner to 2,730', R/D casing crew, TIH with 5" DP to 10,835', Circulate STS, set liner hanger, cement, set packer & test, CBU x 2, TOO H, L/D running tool,										
Operations at Report Time Laying down 8 3/4 BHA / Full crews										
Remarks Daily NPT: 1.5, Rig: 0 , 3rd: 0 PNR: 0 Cum. NPT: 1.5, Rig: 0, 3rd: 0, PNR: 0 Surface: 100% Intermediate #1= 100% Intermediate #2: 100% Curve: 0% Lateral: 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, DRL	TIH_ELEV	NORMAL	TIH T/ Bottom, monitor well on trip tank, hole displacing properly	9,765.0	9,765.0		
07:30	11.25	18:45	INT2, DRL	DRL	NORMAL	Drilling int 2 section F/ 9,765' T/ 10,840' (1075' @ 95 FPH)Full returns	9,765.0	10,840.0		
18:45	1.5	20:15	INT2, POST DRL	CIRC	NORMAL	Circulate and condition hole for casing run, pump 2 high vis sweeps, first one w/ caliper material(2% wash out)	10,840.0	10,840.0		
20:15	1.5	21:45	INT2, POST DRL	TOOH_ELEV	NORMAL	TOOH F/ 10,840' T/ 8,350', monitor well on trip tank, hole taking proper fill	10,840.0	10,840.0		
21:45	0.5	22:15	INT2, POST DRL	HDL_ROT HD	NORMAL	Pull rotate head/ Drop rabbit	10,840.0	10,840.0		
22:15	2	00:15	INT2, POST DRL	TOOH_ELEV	NORMAL	TOOH F/ 8,350' T/ 3,330', monitor well on trip tank, hole taking proper fill	10,840.0	10,840.0		
00:15	4.5	04:45	INT2, POST DRL	L/D DP	NORMAL	L/D 5" drill pipe and HWDP F/ 3,330 T/BHA R/U HT 100 to break connections 60-90k Dies in ST-80 bad after attempting to break connections, while changing out dies spin out connections with chain tongs	10,840.0	10,840.0		
04:45	0.25	05:00	INT2, POST DRL	SFTY	NORMAL	HPJSM on L/D BHA	10,840.0	10,840.0		
05:00	1	06:00	INT2, POST DRL	LD_DIR	NORMAL	Lay down Directional BHA	10,840.0	10,840.0		
Drill Strings										
BHA #8 , INTERMEDIATE 2										
Bit Run 7			Drill Bit 8 3/4in, TKC76, A279277			Bit Type PDC		Make REED		
Nozzles (1/32") 12/12/12/12/12/12			Bit Total Fluid Area (nozzles) (in²) 0.77		IADC Bit Dull -----		Hours Drilled By Bit (hr) 11.25		Depth Drilled By Bit (ft) 1,075.00	
BHA Drilling Time (hr) 11.25			BHA Depth Drilled (ft) 1,075.00		BHA ROP (ft/hr) 95.6		Depth In (ftKB) 9,765.0		Depth Out (ftKB) 10,840.0	
Drill String Components										
Jts	Item Des			OD (in)	ID (in)	Len (ft)	Cum Len (ft)	Wt (lbf)	Cum Wt (1000lbf)	Make
82	DRILL PIPE			4 1/2	2.75	2,609.30	10,840.00	43,314.4	243	QUAIL
1	SUB - XO			4 3/4	2.75	4.98	8,230.70		200	QUAIL
209	DRILL PIPE			5	4.81	6,589.54	8,225.72	128,496.0	200	RIG
2	HWDP - SPIRALED			5	3.00	59.27	1,636.18		72	RIG
1	DRILLING JARS - HYDRAULIC			6 3/4	2.75	33.98	1,576.91		72	WEATHERFORD
1	HWDP			5	3.00	1,445.96	1,542.93	71,575.0	72	RIG
Daily Drilling Report										
Page 1/3					Printed: Sunday, October 3, 2021					

Daily Drilling Report

UTL 1308A 4101H	
H & P - 487	
Accept: 8/18/2021	Release:
Days Since LTI: 389.00	Days Since RI: 389.00

DELAWARE	
Job:	ODR
Report Date:	10/3/2021
Report #:	25
DFS:	23
AFE #:	9015111
Total AFE + Sup:	\$4,412,374.71
Daily Field Est. (Cost):	\$59,517.39

Drill String Components																					
Jts	Item Des				OD (in)		ID (in)		Len (ft)		Cum Len (ft)		Wt (lbf)		Cum Wt (1000lbf)		Make				
1	STABILIZER				6 3/4		2.88		5.65		96.97				0		STABIL DRILL				
1	DRILL COLLAR - NON MAG				6 5/8		3.25		27.97		91.32				0		STABIL DRILL				
1	DRILL COLLAR - NON MAG				6 5/8		3.25		29.10		63.35				0		STABIL DRILL				
1	SUB - UBHO				6 3/4		2.50		3.68		34.25				0		GORDON				
1	STABILIZER				6 1/2		3.25		5.40		30.57				0		STABIL DRILL				
1	MOTOR - STABILIZER SLEEVE				6 3/4		2.00		24.17		25.17				0		BICO				
Sensors																					
Sensor Type				Sensor-Bit (ft)						Note											
GAMMA				42.23																	
DIRECTIONAL				54.00																	
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	18:45	9,765.0	1,075.00	95.6	40	60	575.0	700	4,220.0	95.0	235	300	200	235	22.0	10.0					
18:45	20:15	10,840.0	0.00		40	60	0.0	700	4,220.0	0.0	235	300	200	235	0.0	10.0					
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)	
9.60		10.27		299.6		5.0		290.5		733.8		19.5		1,364.0		181.52		566.46		56.55	
Mud Checks																					
Time 01:00		Mud Company PIONEER DRILLING FLUIDS				Type DIRECT EMULSION			Depth (ftKB) 10,840.0		Density (lb/gal) 9.75		Funnel Viscosity (s/qt) 43		T Flowline (°F)						
PV (cP) 17.0		YP (lbf/100ft²) 14.000		Vis 3rpm 2		Vis 6rpm 3		Filtrate (mL/30min) 9.8		HTHP Filtrate (mL/30min) 32.0		HTHP Temperature (°F) 250.0		HTHP Pressure (psi) 500.0							
Solids (%) 12.7				Low Gravity Solids (%) 4.7				Sand (%) 0.3				MBT (lb/bbl)		Pm (mL/mL)		Pf (mL/mL)					
Chlorides (mg/L) 123,000				Calcium (mg/L)				CaCl (ppm) 840,000		Oil Water Ratio 31/69		Electric Stab (V)		Lime (lb/bbl) 0.1		pH 10.0					
Gel 10 sec (lbf/100ft²) 3.000						Gel 10 min (lbf/100ft²) 5.000						Gel 30 min (lbf/100ft²) 9.000									
Comment Maintain MW 9.6-9.7ppg. No treatment needed while TOH.																					
Last BOP Test																					
Date		Test Type				Item Tested				Next Test Date		Com									
9/21/2021		BOP				BOP'S, 8/18/2021 22:30, <class>				10/12/2021		Full BOP test 250 Low 5000 High									
Leak Off and Formation Integrity Tests																					
Test Type				Depth (ftKB)						Dens Fluid (lb/gal)											
FORMATION INTEGRITY				1,011.0						12.50											
FORMATION INTEGRITY				8,350.0						10.48											
Casing Pressure Test																					
Test Type		Test Subtype				Date				Item Tested				Failed?		Time (min)		P (psi)			
CASING		STANDARD				7/23/2021				SURFACE, 1,011.0ftKB				No		30.00		1,000.0			
CASING		STANDARD				10/31/2021				INTERMEDIATE, 8,353.0ftKB				No		30.00		2,500.0			
Kick Offs & Key Depths																					
Date					Type					Top Depth (ftKB)				Depth Top (TVD) (ftKB)							
9/25/2021 12:00					KICK OFF					4,683.0				4,571.6							
Casing Strings																					
Description		Set Depth (ftKB)		Set Depth (TVD) (ftKB)		OD (in)		Grade		Wt/Len (lb/ft)		Top Thread		P LeakOff (psi)							
CONDUCTOR		106.5		106.5		20		H40		78.67											
SURFACE		1,011.0		1,010.8		13 3/8		J55		54.50		BTC		656.6							
INTERMEDIATE		8,353.0		8,285.6		9 5/8		L80-IC		40.00		BTC		4,507.6							
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				2,323								6,749		48,132.0			
DIESEL		MUD		GAL				562								13,487		48,043.0			
Mud Additive Amounts																					
Des			Type			Units			Rec			Consumed			On Loc			Cum Cons			
BARITE-BULK			WEIGHTING MATERIAL			TON						8			109.0			57			
CAUSTIC SODA			ALKALINITY CONTROL			SACK						9			100.0			44			
PAC-L			FLUID LOSS ADDITIVES			SACK						5			17.0			83			
WALL-NUT MEDIUM			LOST CIRCULATION			SACK						5			53.0			26			
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			6,374.0					
2		GARDNER-DENVER				PZ-11-1600			5 1/2		11.00		0.081			6,374.0					
3		GARDNER-DENVER				PZ-11-1600			5 1/2		11.00		0.081			6,374.0					
Pump Checks																					
Pump #		Depth (ftKB)		Time		P (psi)		Strokes (spm)			Q Flow (gpm)				Eff (%)						
Daily Drilling Report																					
Page 2/3										Printed: Sunday, October 3, 2021											

Daily Drilling Report

UTL 1308A 4101H	
H & P - 487	
Accept: 8/18/2021	Release:
Days Since LTI: 389.00	Days Since RI: 389.00

DELAWARE	
Job:	ODR
Report Date:	10/3/2021
Report #:	25
DFS:	23
AFE #:	9015111
Total AFE + Sup:	\$4,412,374.71
Daily Field Est. (Cost):	\$59,517.39

Deviation Surveys							
Date 7/14/2021	Description AS DRILL SURVEY					Job ODR, 7/14/2021 06:00	
Date 9/25/2021	Description SIDETRACK					Job ODR, 7/14/2021 06:00	
Survey Data - All surveys for 24 hr reporting period							
MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
9,778.00	3.39	166.84	9,713.64	237.44	-707.00	397.86	1.06
9,871.00	3.62	168.28	9,806.46	237.45	-712.55	399.08	0.26
9,966.00	3.97	170.35	9,901.25	237.26	-718.73	400.25	0.40
10,060.00	3.79	166.02	9,995.04	237.20	-724.95	401.54	0.37
10,154.00	3.95	170.29	10,088.82	237.13	-731.15	402.84	0.35
10,248.00	5.00	173.15	10,182.54	236.59	-738.41	403.87	1.14
10,343.00	4.84	171.47	10,277.19	235.93	-746.49	404.96	0.23
10,437.00	4.16	176.38	10,370.90	235.15	-753.81	405.76	0.83
10,531.00	3.05	193.21	10,464.71	233.55	-759.65	405.41	1.62
10,625.00	2.62	205.28	10,558.60	231.16	-764.03	403.92	0.78
10,786.00	4.24	228.25	10,719.31	223.73	-771.32	397.91	1.30
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			-8,190.0		10,925.5		
270_0_WFMP_A1			-8,565.0		11,300.5		
TOT			-8,640.0		11,375.5		
BOT			-8,730.0		11,465.5		
FIRST TAKE POINT (FTP)			-8,675.0		11,410.5		
PBHL/TD			-8,590.0		11,325.5		
Daily Contacts							
Job Contact		Title	Office	Mobile	Email		
LINDBLAD, ALEXANDER, ENGINEER		ENGINEER	972-969-1749		ALEXANDER.LINDBLAD@PXD.COM		
COX, BRYAN, ENGINEER		ENGINEER	972-969-5717	361-318-4212	BRYAN.COX@PXD.COM		
HARDIN, JOE, AREA DRILLING SUPERINTENDENT		AREA DRILLING SUPERINTENDENT	361-452-2118	361-318-8762	THOMAS.HARDIN@PXD.COM		
BROWN, DAN, SUPERINTENDENT		SUPERINTENDENT		469-203-9731	DAN.BROWN@PXD.COM		
JOHNSON, STEVEN, SUPERINTENDENT		SUPERINTENDENT		580-504-9863	STEVEN.JOHNSON@PXD.COM		
SALAZAR, TODD, WELLSITE SUPERVISOR		WELLSITE SUPERVISOR		325-232-2114	TODD.SALAZAR1@PXD.COM		
FOWLER, TREY, WELLSITE SUPERVISOR		WELLSITE SUPERVISOR		409-489-2876	TREY.FOWLER@PXD.COM		
RIG-H&P 487, RIG PHONE		RIG PHONE	432-200-0785		DL-HP487@PXD.COM		
Personnel Log							
Company						Count	
PIONEER NATURAL RESOURCES USA INC						4	
HELMERICH & PAYNE INTERNATIONAL DRILLING CO						13	
ALTITUDE ENERGY PARTNERS INC						2	
GORDON TECHNOLOGIES LLC						1	
DYNAMIC ENERGY SERVICES LLC						1	
STRATAGRAPH INC						2	

Daily Drilling Report

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Printed: Sunday, October 3, 2021

Daily Drilling Report

UTL 1308A 4101H				DELAWARE	
H & P - 487				Job:	ODR
Accept: 8/18/2021				Report Date:	10/4/2021
Days Since LTI: 390.00				Report #:	26
Release:				DFS:	24
Days Since RI: 390.00				AFE #:	9015111
				Total AFE + Sup:	\$4,412,374.71
				Daily Field Est. (Cost):	\$59,521.31

P/U/UWI 42-475-38217-0000		Well Profile HORIZONTAL		Open Formation WOLFCAMP A1 (WFMP A1)		Field Name PHANTOM (WOLFCAMP)									
SSN ID00056072		Property Sub		KB-Grd (ft) 26.50	Orig KB Elev (ft) 2,735.50	Ground Elevation (ft) 2,709.00	Spud Date 7/14/2021	TD Date							
Jobs															
Responsible Grp 2		Responsible Grp 3		Job Type		Start Date		End Date		Job Status					
DRL ENG - ALEXANDER LINDBLAD		AREA TEAM 2		ODR		7/14/2021 06:00				IN PROGRESS					
Job Dates (ex. Estimated Pad Release, TXRRC Calls)															
Type				Subtype		Date		Note							
MILESTONE				ESTIMATED PAD RELEASE		10/15/2021		3 well pad. Drilling 3rd Inter. 2 on 3 well pad							
Daily Operations															
Footage/Meterage (ft) 0.00		Drilling Hours (hr)		% Rotating Time (%)		End Depth (ftKB) 10,840.0		Target Depth (ftKB) 22,083.0		Daily Field Est Total (Cost) 59,521.31		Cum Field Est To Date (Cost) 3,582,869.14			
24 HR ROP (ft/hr)		Circulating Hours (hr)		% Sliding Time (%)		End Depth (TVD) (ftKB) 10,773.2		Target Depth (TVD) (ftKB) 11,325.0		Daily Mud Field Est (Cost)		Cum Mud Field Est (Cost) 48,085.62		Total AFE + Sup (Cost) 4,412,374.71	
Daily Goal Description DRILLED FEET				Daily Goal - Last 24 0.0				Daily Goal - Next 24 100.0				Goal Comments Goal Met			
Backbuild Yes		Lateral Inclination Toe Up		Last Casing String INTERMEDIATE, 8,353.0ftKB				Next Casing String PROPOSED PRODUCTION, 22,084.0ftKB							
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 PWB, R/U casing crew, M/U shoe track and test, TIH with 7 5/8 liner to 2,730', R/D casing crew, TIH with 5" DP to 10,835', Circulate STS, Drop ball, R/U Cement head,															
Operations Next Report Period Set liner hanger, cement, set packer & test, CBU x 2, TOO, L/D running tool, IWB, P/U 6 3/4 curve assembly, P/U 4.5 DP off rack, Test csg, D/O F/E + 10" new formation, CBU, FIT test, Drlg production vertical and curve F/10,850' T/10,950'															
Operations at Report Time R/U cement head,Waiting on ball to fall / Full crews															
Remarks Daily NPT: 1.5, Rig: 0 , 3rd: 0 PNR: 0 Cum. NPT: 1.5, Rig: 0, 3rd: 0, PNR: 0 Surface: 100% Intermediate #1= 100% Intermediate #2: 100% Curve: 0% Lateral: 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	07:00	INT2, CASE & CMT	RU_CSG	NORMAL	R/U casing crew		10,840.0	10,840.0						
07:00	2.25	09:15	INT2, CASE & CMT	WAIT	NORMAL	Wait on Texas Torque to show up, they were notified to be on location @ 4 am, on 10/2/21 17:45 as per Pioneer dispatch		10,840.0	10,840.0	2.25	14				
09:15	4.25	13:30	INT2, CASE & CMT	3RD_PTY	NORMAL	Attempt to get Texas Torque turn equipment ot work, change out computer, cables and load cell. Unable to get system to work, rig down and wait on Maverick and rig up Maverick		10,840.0	10,840.0	4.25	15				
13:30	2.75	16:15	INT2, CASE & CMT	CSG_W/O ROTATION	NORMAL	Run liner F/ 0' T/ 2,706'		10,840.0	10,840.0						
16:15	0.5	16:45	INT2, CASE & CMT	LNR_W/OWAS H	NORMAL	P/U Liner hanger P/U 110k S/O 106k		10,840.0	10,840.0						
16:45	1	17:45	INT2, CASE & CMT	CIRC	NORMAL	Circulate casing capacity after picking up liner hanger. R/D casing equipment Full Returns		10,840.0	10,840.0						
17:45	4.75	22:30	INT2, CASE & CMT	LNR_W/OWAS H	NORMAL	RIH W/7 5/8" liner on 5" DP F/2,706' T/ 8,350' at 2 minutes per stand, monitor well on trip tank, hole giving proper displacement Breaking circ evry 15 stnds		10,840.0	10,840.0						
22:30	0.5	23:00	INT2, CASE & CMT	HDL_ROT HD	NORMAL	Install Rotating Head		10,840.0	10,840.0						
23:00	1	00:00	INT2, CASE & CMT	CIRC	NORMAL	Circ B/U @ 6 bpm @ 8,350' (9 5/8 Shoe)/ Full returns		10,840.0	10,840.0						
00:00	3.25	03:15	INT2, CASE & CMT	LNR_W/OWAS H	NORMAL	RIH W/7 5/8" liner on 5" DP F/ 8,350' T/ 10,835' at 2 minutes per stand, monitor well on trip tank, hole giving proper displacement Rabbing last 42 stnds of drillpipe in derrick		10,840.0	10,840.0						
03:15	2.25	05:30	INT2, CASE & CMT	CIRC	NORMAL	Circulate surface to surface @ 6 bpm, full returns		10,840.0	10,840.0						
05:30	0.5	06:00	INT2, CASE & CMT	RU_CMT	NORMAL	R/U Baker cement head, drop 1.25" ball, load 1.5" ball in tool, M/U low torque valve on head		10,840.0	10,840.0						
Interval Problems															
3RD PARTY, 10,840.0ftKB, 10/3/2021 07:00															
Ref #	Dur (N...)	Ex...	Subtype	Problem Descript...	Est Cost OR (Cost)	Accountable Party		Comment							
14	2.25	No	PIPE HANDLING	CASING RUNNING SERVICE		TEXAS TORQUE TURN OILFIELD SERVICES LLC		Wait on Texas Torque to show up, they were notified to be on location @ 4 am, on 10/2/21 17:45 as per Pioneer dispatch							
Daily Drilling Report															
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Daily Drilling Report

Interval Problems												
3RD PARTY, 10,840.0ftKB, 10/3/2021 09:15												
Ref #	Dur (N....)	Ex...	Subtype	Problem Descript...	Est Cost OR (Cost)	Accountable Party	Comment					
15	4.25	No	PIPE HANDLING	CASING RUNNING TOOL		TEXAS TORQUE TURN OILFIELD SERVICES LLC	Attempt to get Texas Torque turn equipment ot work, change out computer, cables and load cell. Unable to get system to work, rig down and wait on Maverick and rig up Maverick					
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 01:00		Mud Company PIONEER DRILLING FLUIDS			Type DIRECT EMULSION		Depth (ftKB) 10,840.0		Density (lb/gal) 9.80		Funnel Viscosity (s/qt) 43	T Flowline (°F)
PV (cP) 17.0		YP (lb/100ft²) 14.000		Vis 3rpm 2	Vis 6rpm 3	Filtrate (mL/30min) 9.9		HTHP Filtrate (mL/30min) 32.0		HTHP Temperature (°F) 250.0		HTHP Pressure (psi) 500.0
Solids (%) 12.7			Low Gravity Solids (%) 4.4			Sand (%) 0.3		MBT (lb/bbl)		Pm (mL/mL)		Pf (mL/mL)
Chlorides (mg/L) 130,000			Calcium (mg/L)		CaCl (ppm) 840,000	Oil Water Ratio 31/69		Electric Stab (V)		Lime (lb/bbl) 0.2		pH 9.5
Gel 10 sec (lb/100ft²) 3.000					Gel 10 min (lb/100ft²) 5.000				Gel 30 min (lb/100ft²) 9.000			
Comment Maintain MW 9.6-9.7ppg. No treatment needed while TIH with liner.												
Last BOP Test												
Date	Test Type			Item Tested			Next Test Date		Com			
9/21/2021	BOP			BOP'S, 8/18/2021 22:30, <class>			10/12/2021		Full BOP test 250 Low 5000 High			
Leak Off and Formation Integrity Tests												
Test Type				Depth (ftKB)				Dens Fluid (lb/gal)				
FORMATION INTEGRITY				1,011.0				12.50				
FORMATION INTEGRITY				8,350.0				10.48				
Casing Pressure Test												
Test Type		Test Subtype			Date		Item Tested		Failed?	Time (min)	P (psi)	
CASING		STANDARD			7/23/2021		SURFACE, 1,011.0ftKB		No	30.00	1,000.0	
CASING		STANDARD			10/31/2021		INTERMEDIATE, 8,353.0ftKB		No	30.00	2,500.0	
Kick Offs & Key Depths												
Date				Type			Top Depth (ftKB)		Depth Top (TVD) (ftKB)			
9/25/2021 12:00				KICK OFF			4,683.0		4,571.6			
Casing Strings												
Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread		P LeakOff (psi)				
CONDUCTOR	106.5	106.5	20	H40	78.67							
SURFACE	1,011.0	1,010.8	13 3/8	J55	54.50	BTC		656.6				
INTERMEDIATE	8,353.0	8,285.6	9 5/8	L80-IC	40.00	BTC		4,507.6				
INTERMEDIATE 2	10,835.0		7 5/8	P110-IC	29.70	WEDGE 441						
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		1,348			5,401	49,480.0			
DIESEL		MUD	GAL		241			13,246	48,284.0			
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	6,374.0				
2	GARDNER-DENVER			PZ-11-1600	5 1/2	11.00	0.081	6,374.0				
3	GARDNER-DENVER			PZ-11-1600	5 1/2	11.00	0.081	6,374.0				
Pump Checks												
Pump #	Depth (ftKB)	Time	P (psi)	Strokes (spm)	Q Flow (gpm)			Eff (%)				
Deviation Surveys												
Date 7/14/2021		Description AS DRILL SURVEY						Job ODR, 7/14/2021 06:00				
Date 9/25/2021		Description SIDETRACK						Job ODR, 7/14/2021 06:00				
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				-8,190.0		10,925.5						
270_0_WFMP_A1				-8,565.0		11,300.5						
TOT				-8,640.0		11,375.5						
BOT				-8,730.0		11,465.5						
FIRST TAKE POINT (FTP)				-8,675.0		11,410.5						
PBHL/TD				-8,590.0		11,325.5						
Daily Contacts												
Job Contact			Title	Office	Mobile	Email						
LINDBLAD, ALEXANDER, ENGINEER			ENGINEER	972-969-1749		ALEXANDER.LINDBLAD@PXD.COM						
COX, BRYAN, ENGINEER			ENGINEER	972-969-5717	361-318-4212	BRYAN.COX@PXD.COM						
HARDIN, JOE, AREA DRILLING SUPERINTENDENT			AREA DRILLING SUPERINTENDENT	361-452-2118	361-318-8762	THOMAS.HARDIN@PXD.COM						
Daily Drilling Report					Page 2/3			Printed: Monday, October 4, 2021				

Daily Drilling Report

H & P - 487	
Accept: 8/18/2021	Release:
Days Since LTI: 390.00	Days Since RI: 390.00

Job:	ODR
Report Date:	10/4/2021
Report #:	26
DFS:	24
AFE #:	9015111
Total AFE + Sup:	\$4,412,374.71
Daily Field Est. (Cost):	\$59,521.31

Daily Contacts				
Job Contact	Title	Office	Mobile	Email
BROWN, DAN, SUPERINTENDENT	SUPERINTENDENT		469-203-9731	DAN.BROWN@PXD.COM
JOHNSON, STEVEN, SUPERINTENDENT	SUPERINTENDENT		580-504-9863	STEVEN.JOHNSON@PXD.COM
SALAZAR, TODD, WELLSITE SUPERVISOR	WELLSITE SUPERVISOR		325-232-2114	TODD.SALAZAR1@PXD.COM
FOWLER, TREY, WELLSITE SUPERVISOR	WELLSITE SUPERVISOR		409-489-2876	TREY.FOWLER@PXD.COM
RIG-H&P 487, RIG PHONE	RIG PHONE	432-200-0785		DL-HP487@PXD.COM
Personnel Log				
Company				Count
PIONEER NATURAL RESOURCES USA INC				4
HELMERICH & PAYNE INTERNATIONAL DRILLING CO				13
ALTITUDE ENERGY PARTNERS INC				2
GORDON TECHNOLOGIES LLC				1
DYNAMIC ENERGY SERVICES LLC				1
STRATAGRAPH INC				2
TCI CASING SPECIALTIES LLC				4
TENARIS GLOBAL SERVICES USA				1
TRIFECTA OILFIELD SERVICES LLC				2
MAVERICK FIELD SERVICES LLC				2

Daily Drilling Report

H & P - 487

Accept: 8/18/2021

Release:

Days Since LTI: 391.00

Days Since RI: 391.00

DELAWARE

ODR

Report Date:

10/5/2021

Report #:

27

DFS:

25

AFE #:

9015111

Total AFE + Sup:

\$4,412,374.71

Daily Field Est. (Cost):

\$251,939.10

Daily Drilling Report

PIONEER
NATURAL RESOURCES

Daily Drilling Report

UTL 1308A 4101H

H & P - 487

Accept: 8/18/2021

Release:

Days Since LTI: 391.00

Days Since RI: 391.00

DELAWARE

Job:

ODR

Report Date:

10/5/2021

Report #:

27

DFS:

25

AFE #:

9015111

Total AFE + Sup:

\$4,412,374.71

Daily Field Est. (Cost):

\$251,939.10

Time Log																	
Start Time	Dur (hr)	End Time	Phase	Operation	Ops Category	Com			Start Depth (ftKB)	End Depth (ftKB)	Prob Hrs (hr)	Prob Ref #					
01:30	0.75	02:15	PROD, PRE DRL	CSG_TEST	NORMAL	Fill pipe, pump through choke, Test casing to 2500 psi			10,840.0	10,840.0							
02:15	0.5	02:45	PROD, PRE DRL	HDL_ROTHD	NORMAL	Install rotating head			10,840.0	10,840.0							
02:45	3	05:45	PROD, PRE DRL	DRL_OUT	NORMAL	Drill out cement and FE F/ 10,741' T/ 10,840', Taking returns into reserve pit. Displaced to OBM			10,840.0	10,840.0							
05:45	0.25	06:00	PROD, PRE DRL	DRL	NORMAL	Drill 10' new formation for FIT F/ 10,840' T/ 10,850', Full returns			10,840.0	10,840.0							
Interval Problems																	
RIG, 10,840.0ftKB, 10/4/2021 19:30																	
Ref #	Dur (N...	Ex...	Subtype	Problem Descript...	Est Cost OR (Cost)	Accountable Party			Comment								
16	0.75	No	PIPE HANDLING	LAYDOWN		HELMERICH & PAYNE INTERNATIONAL DRILLING CO			NPT changing out belt on catwalk								
Drill Strings																	
BHA #9 , PRODUCTION - VERTICAL/CURVE																	
Bit Run 8				Drill Bit 6 3/4in, U611M, 55865				Bit Type PDC				Make ULTERRA					
Nozzles (1/32") 13/13/13/13/13				Bit Total Fluid Area (nozzles) (in²) 0.78				IADC Bit Dull -----				Hours Drilled By Bit (hr) 0.25					
BHA Drilling Time (hr) 0.25				BHA Depth Drilled (ft) 10.00				BHA ROP (ft/hr) 40.0				Depth In (ftKB) 10,840.0					
												Depth Out (ftKB) 10,850.0					
Drill String Components																	
Jts	Item Des				OD (in)	ID (in)	Len (ft)	Cum Len (ft)	Wt (lbf)	Cum Wt (1000lbf)	Make						
341	DRILL PIPE				4 1/2	2.75	10,752.81	10,850.00	178,496.6	178	QUAIL						
1	SUB - XO				4 3/4	2.75	4.98	97.19		0	QUAIL						
1	DRILL COLLAR - NON MAG				5	2.81	30.08	92.21		0	STABIL DRILL						
1	DRILL COLLAR - NON MAG				5 1/2	2.81	28.64	62.13		0	GORDON						
1	SUB - UBHO				5 1/4	2.75	3.35	33.49		0	GORDON						
1	MOTOR - SLICK SLEEVE				5	2.50	29.34	30.14		0	ALTITUDE ENERGY PARTNERS						
Mud Motors																	
SN		Bend Angle		Bearing Type		Lobe Config		# Stages		Lwr Defin Type		Bit To Bend					
5039		1.83		NOT SEALED		7:8		8.2				4.39					
Sensors																	
Sensor Type				Sensor-Bit (ft)				Note									
GAMMA				41.33													
DIRECTIONAL				51.60													
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 (°)
05:45	06:00	10,840.0	10.00	40.0	20	30	250.0	225	1,900.0	40.0	203	250	200	203	10.0	5.0	
Hydraulic Calculations																	
Dens Mud (lb/gal)	ECD End (lb/gal)	Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Jet Vel (ft/s)	Bit dP (psi)	Min Open Hole AV (ft/min)	Max Open Hole AV (ft/min)	Vol DrillString (bbl)	Vol Bit to Shoe (bbl)	Vol Shoe to Top (bbl)							
12.20	12.56	12.5	0.3	92.8	95.2	6.3	268.2	79.69	0.34	524.93							
Mud Checks																	
Time 01:00		Mud Company PIONEER DRILLING FLUIDS				Type OIL BASE		Depth (ftKB) 10,850.0		Density (lb/gal) 12.20		Funnel Viscosity (s/qt) 99		T Flowline (°F)			
PV (cP) 35.0		YP (lb/100ft²) 18.000		Vis 3rpm 7		Vis 6rpm 8		Filtrate (mL/30min)		HTHP Filtrate (mL/30min) 18.0		HTHP Temperature (°F) 250.0		HTHP Pressure (psi) 500.0			
Solids (%) 51.0		Low Gravity Solids (%) 3.3				Sand (%)				MBT (lb/bbl)		Pm (mL/mL)		PF (mL/mL)			
Chlorides (mg/L) 55,000		Calcium (mg/L) 20,200		CaCl (ppm) 22,890		Oil Water Ratio 64/36		Electric Stab (V) 371.0		Lime (lb/bbl) 2.6		pH					
Gel 10 sec (lb/100ft²) 8.000				Gel 10 min (lb/100ft²) 12.000				Gel 30 min (lb/100ft²) 18.000									
Comment Maintain mw of 12-.12.7ppg. Add 60sx of Lime (2ppb active system, 7.8 ppb fluid additions), 4sx Geltone (2ppb fluid additions), 5sx Suspentone (.25 ppb active system), 2 drums Invermul (6 ppb fluid additions, .22 ppb active system), Diesel at 2.5 secs/qt (8.5 bbls/hr)...																	
Last BOP Test																	
Date		Test Type			Item Tested			Next Test Date		Com							
9/21/2021		BOP			BOP'S, 8/18/2021 22:30, <class>			10/12/2021		Full BOP test 250 Low 5000 High							
Leak Off and Formation Integrity Tests																	
Test Type				Depth (ftKB)				Dens Fluid (lb/gal)									
FORMATION INTEGRITY				1,011.0				12.50									
FORMATION INTEGRITY				8,350.0				10.48									
Casing Pressure Test																	
Test Type		Test Subtype			Date		Item Tested		Failed?		Time (min)		P (psi)				
CASING		STANDARD			7/23/2021		SURFACE, 1,011.0ftKB		No		30.00		1,000.0				
CASING		STANDARD			10/31/2021		INTERMEDIATE, 8,353.0ftKB		No		30.00		2,500.0				
CASING		STANDARD			10/5/2021		INTERMEDIATE 2, 10,835.0ftKB		No		30.00		2,500.0				
Kick Offs & Key Depths																	
Date				Type				Top Depth (ftKB)				Depth Top (TVD) (ftKB)					
9/25/2021 12:00				KICK OFF				4,683.0				4,571.6					
Daily Drilling Report																	
Page 2/3																	
Printed: Tuesday, October 5, 2021																	

Daily Drilling Report

UTL 1308A 4101H			
H & P - 487			
Accept: 8/18/2021		Release:	
Days Since LTI: 391.00		Days Since RI: 391.00	

DELAWARE		Job:	ODR
		Report Date:	10/5/2021
		Report #:	27
		DFS:	25
		AFE #:	9015111
		Total AFE + Sup:	\$4,412,374.71
		Daily Field Est. (Cost):	\$251,939.10

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	1,011.0	1,010.8	13 3/8	J55	54.50	BTC	656.6						
INTERMEDIATE	8,353.0	8,289.8	9 5/8	L80-IC	40.00	BTC	4,509.6						
INTERMEDIATE 2	10,835.0	10,768.2	7 5/8	P110-IC	29.70	WEDGE 441							
Cement													
LINER CEMENT, Casing, 10/4/2021 07:30													
Cementing End Date 10/4/2021 09:00	Wellbore SIDETRACK 1	Technical Result	Comment										
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?	
	8,104.0	10,838.0	Yes	No	3	4	5	1,550.0	2,900.0	No	No	No	
Cement Fluids													
Fluid Type MUDPUSH	Estimated Top (ftKB) 7,772.0			Est Btm (ftKB) 8,160.0		Class	Yield (ft³/sack)	Density (lb/gal)					
Fluid Type LEAD CMT	Estimated Top (ftKB) 8,160.0			Est Btm (ftKB) 10,338.0		Class TXI LITEWEIGHT	Yield (ft³/sack) 2.76	Density (lb/gal) 11.00					
Fluid Type TAIL CMT	Estimated Top (ftKB) 10,338.0			Est Btm (ftKB) 10,883.0		Class TXI LITEWEIGHT	Yield (ft³/sack) 1.36	Density (lb/gal) 13.20					
Fluid Type DSPLMT	Estimated Top (ftKB) 0.0			Est Btm (ftKB) 10,883.0		Class	Yield (ft³/sack)	Density (lb/gal) 8.30					
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	7,236	12,292			345	61,772.0					
DIESEL	MUD	GAL		12,686			560	60,970.0					
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	6,374.0							
2	GARDNER-DENVER	PZ-11-1600	5 1/2	11.00	0.081	6,374.0							
3	GARDNER-DENVER	PZ-11-1600	5 1/2	11.00	0.081	6,374.0							
Pump Checks													
Pump #	Depth (ftKB)	Time	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)							
Deviation Surveys													
Date 7/14/2021	Description AS DRILL SURVEY	Job ODR, 7/14/2021 06:00											
Date 9/25/2021	Description SIDETRACK	Job ODR, 7/14/2021 06:00											
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	-8,190.0		10,925.5										
270_0_WFMP_A1	-8,565.0		11,300.5										
TOT	-8,640.0		11,375.5										
BOT	-8,730.0		11,465.5										
FIRST TAKE POINT (FTP)	-8,675.0		11,410.5										
PBHL/TD	-8,590.0		11,325.5										
Daily Contacts													
Job Contact	Title	Office	Mobile	Email									
LINDBLAD, ALEXANDER, ENGINEER	ENGINEER	972-969-1749		ALEXANDER.LINDBLAD@PXD.COM									
COX, BRYAN, ENGINEER	ENGINEER	972-969-5717	361-318-4212	BRYAN.COX@PXD.COM									
HARDIN, JOE, AREA DRILLING SUPERINTENDENT	AREA DRILLING SUPERINTENDENT	361-452-2118	361-318-8762	THOMAS.HARDIN@PXD.COM									
BROWN, DAN, SUPERINTENDENT	SUPERINTENDENT		469-203-9731	DAN.BROWN@PXD.COM									
JOHNSON, STEVEN, SUPERINTENDENT	SUPERINTENDENT		580-504-9863	STEVEN.JOHNSON@PXD.COM									
SALAZAR, TODD, WELLSITE SUPERVISOR	WELLSITE SUPERVISOR		325-232-2114	TODD.SALAZAR1@PXD.COM									
FOWLER, TREY, WELLSITE SUPERVISOR	WELLSITE SUPERVISOR		409-489-2876	TREY.FOWLER@PXD.COM									
RIG-H&P 487, RIG PHONE	RIG PHONE	432-200-0785		DL-HP487@PXD.COM									
Personnel Log													
Company										Count			
PIONEER NATURAL RESOURCES USA INC										4			
HELMERICH & PAYNE INTERNATIONAL DRILLING CO										13			
ALTITUDE ENERGY PARTNERS INC										2			
GORDON TECHNOLOGIES LLC										1			
DYNAMIC ENERGY SERVICES LLC										1			
STRATAGRAPH INC										2			

Daily Drilling Report

UTL 1308A 4101H				DELAWARE	
H & P - 487				Job:	ODR
Accept: 8/18/2021				Report Date:	10/6/2021
Days Since LTI: 392.00				Report #:	28
Release:				DFS:	26
Days Since RI: 392.00				AFE #:	9015111
				Total AFE + Sup:	\$4,412,374.71
				Daily Field Est. (Cost):	\$113,347.34

P/I/UWI 42-475-38217-0000		Well Profile HORIZONTAL		Open Formation WOLFCAMP A1 (WFMP A1)		Field Name PHANTOM (WOLFCAMP)										
SSN ID00056072		Property Sub		KB-Grd (ft) 26.50		Orig KB Elev (ft) 2,735.50		Ground Elevation (ft) 2,709.00		Spud Date 7/14/2021		TD Date				
Jobs																
Responsible Grp 2				Responsible Grp 3				Job Type		Start Date			End Date		Job Status	
DRL ENG - ALEXANDER LINDBLAD				AREA TEAM 2				ODR		7/14/2021 06:00					IN PROGRESS	
Job Dates (ex. Estimated Pad Release, TXRRRC Calls)																
Type				Subtype				Date			Note					
MILESTONE				ESTIMATED PAD RELEASE				10/15/2021			3 well pad. Drilling 1st production on 3 well pad					
Daily Operations																
Footage/Meterage (ft) 1,222.00		Drilling Hours (hr) 21.25		% Rotating Time (%) 20.00		End Depth (ftKB) 12,072.0		Target Depth (ftKB) 22,083.0		Daily Field Est Total (Cost) 113,347.34		Cum Field Est To Date (Cost) 4,012,248.01				
24 HR ROP (ft/hr) 57.5		Circulating Hours (hr)		% Sliding Time (%) 80.00		End Depth (TVD) (ftKB) 11,374.8		Target Depth (TVD) (ftKB) 11,325.0		Daily Mud Field Est (Cost) 9,234.65		Cum Mud Field Est (Cost) 57,320.27		Total AFE + Sup (Cost) 4,412,374.71		
Daily Goal Description DRILLED FEET				Daily Goal - Last 24 943.0				Daily Goal - Next 24 328.0				Goal Comments Goal Met				
Backbuild Yes		Lateral Inclination Toe Up		Last Casing String INTERMEDIATE 2, 10,835.0ftKB						Next Casing String PROPOSED PRODUCTION, 22,084.0ftKB						
Avg Connection Gas 23.00		Avg Trip Gas 0.00		Avg Background Gas 33.00				Max Connection Gas 52.00		Max Trip Gas 0.00		Max Drill Gas 45.00				
Operations Summary CBU, FIT test, Drlg production vertical and curve F/10,850' T/11,733', Drlg lateral F/11,733' T/ 12,072', CBU, Backream DL in curve T/11,500' Last survey- SD-91.43 inc azm-90.87 Above 30.90, 13.16 Right																
Operations Next Report Period Back ream curve,TOOH for RSS assembly(Back reaming DL in curve), TOO H L/D curve assembly, P/U RSS assembly, TIH, Drlg Lateral F/12,072 T/ 12,400'																
Operations at Report Time Back ream in curve T/11,500/ Full crews																
Remarks Daily NPT: 1.5, Rig: 0 , 3rd: 0 PNR: 0 Cum. NPT: 1.5, Rig: 0, 3rd: 0, PNR: 0 Surface: 100% Intermediate #1= 100% Intermediate #2: 100% Curve: 100% Lateral: 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	PROD, PRE DRL	CIRC	NORMAL	Circulate prior to FIT				10,850.0	10,850.0					
06:45	0.25	07:00	PROD, PRE DRL	FIT	NORMAL	Perform FIT T/ 14.0 emw w/ 11.7 OBM @ 1291 psi				10,850.0	10,850.0					
07:00	18.25	01:15	PROD, DRL CURVE	DRL	NORMAL	Drill curve F/ 10,850' T/ 11,733' KOP =10,925' EOC=11,733' With 75 degrees in hole we slide 45' and rotated 45' with projection @ the bit to be 85 degrees based on past motor yields @ Survey showed 18.4 motor yield to inc. of 91.01 F/ 75.17. 28' high above plan LP, 7" above TOT. Spoke with PDC and decided to slide down to get into Projected TOT @ 11,383' TVD, When sliding down max running inc. seen 93.33, After 3 attempts of sliding down the azm walked to right 6 additional degrees to total of 13.15 degrees out of hole direction last 60' of rotation, Spoke with PDC, and engineer decided to stop and TOO H				10,850.0	11,733.0					
01:15	2.75	04:00	PROD, DRL LAT	DRL	NORMAL	Drlg production lateral F/11,733' T/ 12,072'				11,733.0	12,072.0					
04:00	1.5	05:30	PROD, DRL LAT	CIRC	NORMAL	Circ B/U to trip of hole				12,072.0	12,072.0					
05:30	0.5	06:00	PROD, DRL LAT	TOOH_NONEL EV	NORMAL	Backream curve F/11,733' T/ 11,500' @ 300 GPM, 30 RPM				12,072.0	12,072.0					
Drill Strings																
BHA #9 , PRODUCTION - VERTICAL/CURVE																
Bit Run 8			Drill Bit 6 3/4in, U611M, 55865						Bit Type PDC		Make ULTERRA					
Nozzles (1/32") 13/13/13/13/13			Bit Total Fluid Area (nozzles) (in²) 0.78			IADC Bit Dull -----			Hours Drilled By Bit (hr) 21.50		Depth Drilled By Bit (ft) 1,232.00					
BHA Drilling Time (hr) 21.50			BHA Depth Drilled (ft) 1,232.00			BHA ROP (ft/hr) 57.3			Depth In (ftKB) 10,840.0		Depth Out (ftKB) 12,072.0					
Drill String Components																
Jts	Item Des				OD (in)	ID (in)	Len (ft)	Cum Len (ft)	Wt (lbf)	Cum Wt (1000lbf)	Make					
380	DRILL PIPE				4 1/2	2.75	11,974.81	12,072.00	198,781.8	199	QUAIL					
1	SUB - XO				4 3/4	2.75	4.98	97.19		0	QUAIL					
1	DRILL COLLAR - NON MAG				5	2.81	30.08	92.21		0	STABIL DRILL					
1	DRILL COLLAR - NON MAG				5 1/2	2.81	28.64	62.13		0	GORDON					
1	SUB - UBHO				5 1/4	2.75	3.35	33.49		0	GORDON					
1	MOTOR - SLICK SLEEVE				5	2.50	29.34	30.14		0	ALTITUDE ENERGY PARTNERS					
Daily Drilling Report																
Page 1/3																
Printed: Wednesday, October 6, 2021																

Daily Drilling Report

Mud Motors																		
SN		Bend Angle		Bearing Type		Lobe Config		# Stages		Lwr Defln Type		Bit To Bend						
5039		1.83		NOT SEALED		7:8		8.2				4.39						
Sensors																		
Sensor Type				Sensor-Bit (ft)				Note										
GAMMA				41.33														
DIRECTIONAL				51.60														
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 (°)	
07:00	08:00	10,850.0	25.00	20.0	15	0	350.0	300	3,200.0	0.0	210	230	175	203	0.0	0.0	180	
08:00	08:45	10,875.0	50.00	66.7	35	30	800.0	300	3,200.0	0.0	210	230	175	203	9.0	5.0	0	
08:45	12:00	10,925.0	171.00	52.6	15	0	600.0	300	3,200.0	0.0	210	230	175	203	0.0	0.0	75	
12:00	12:15	11,096.0	33.00	132.0	35	30	800.0	300	3,200.0	0.0	210	230	175	203	9.0	5.0	0	
12:15	19:30	11,129.0	281.00	38.8	15	0	800.0	300	3,200.0	0.0	210	230	175	203	0.0	0.0	20	
19:30	20:00	11,410.0	30.00	60.0	35	30	800.0	300	3,200.0	0.0	210	230	175	203	9.0	5.0	0	
20:00	00:00	11,440.0	305.00	76.2	15	0	800.0	300	3,200.0	0.0	210	230	175	203	0.0	0.0	0	
00:00	01:15	11,745.0	75.00	60.0	35	30	800.0	300	3,200.0	0.0	210	230	175	203	9.0	5.0	0	
01:15	01:45	11,820.0	30.00	60.0	15	0	800.0	300	3,200.0	0.0	210	230	175	203	0.0	0.0	0	
01:45	02:15	11,850.0	53.00	106.0	35	30	800.0	300	3,200.0	0.0	210	230	175	203	9.0	5.0	0	
02:15	02:30	11,903.0	27.00	108.0	15	0	800.0	300	3,200.0	0.0	210	230	175	203	0.0	0.0	225	
02:30	03:00	11,930.0	68.00	136.0	35	30	800.0	300	3,200.0	0.0	210	230	175	203	9.0	5.0	0	
03:00	03:30	11,998.0	37.00	74.0	15	0	800.0	300	3,200.0	0.0	210	230	175	203	0.0	0.0	225	
03:30	04:00	12,035.0	37.00	74.0	35	30	800.0	300	3,200.0	0.0	210	230	175	203	9.0	5.0	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)								
12.35	13.06	30.0	0.8	123.8	171.3	8.4	480.2	88.66	29.87	525.45								
Mud Checks																		
Time 01:15		Mud Company PIONEER DRILLING FLUIDS				Type OIL BASE		Depth (ftKB) 11,600.0		Density (lb/gal) 12.35		Funnel Viscosity (s/qt) 72		T Flowline (°F) 119.0				
PV (cP) 26.0		YP (lb/100ft²) 29.000		Vis 3rpm 17		Vis 6rpm 18		Filtrate (mL/30min)		HTHP Filtrate (mL/30min) 18.0		HTHP Temperature (°F) 250.0		HTHP Pressure (psi) 500.0				
Solids (%) 22.0				Low Gravity Solids (%) 5.8		Sand (%)			MBT (lb/bbl)			Pm (mL/mL)		Pf (mL/mL)				
Chlorides (mg/L) 46,500			Calcium (mg/L) 18,000			CaCl (ppm) 25,740		Oil Water Ratio 73/27			Electric Stab (V) 596.0			Lime (lb/bbl) 3.2		pH		
Gel 10 sec (lb/100ft²) 18.000						Gel 10 min (lb/100ft²) 22.000						Gel 30 min (lb/100ft²) 23.000						
Comment																		
Maintain mw of 12.5-12.7 using barite. Add 27sx of Lime (.5ppb active, 6ppb fluid additions), 3 cans Drilltreat (1.22ppb fluid additions), 1 drum of Invermul (4.21ppb fluid additions), Diesel at 2.5secs/qt (8.5bbbls/hr).																		
Last BOP Test																		
Date		Test Type				Item Tested				Next Test Date		Com						
9/21/2021		BOP				BOP'S, 8/18/2021 22:30, <class>				10/12/2021		Full BOP test 250 Low 5000 High						
Leak Off and Formation Integrity Tests																		
Test Type						Depth (ftKB)						Dens Fluid (lb/gal)						
FORMATION INTEGRITY						1,011.0						12.50						
FORMATION INTEGRITY						8,350.0						10.48						
FORMATION INTEGRITY						10,840.0						14.00						
Casing Pressure Test																		
Test Type				Test Subtype				Date		Item Tested				Failed?	Time (min)	P (psi)		
CASING				STANDARD				7/23/2021		SURFACE, 1,011.0ftKB				No	30.00	1,000.0		
CASING				STANDARD				10/31/2021		INTERMEDIATE, 8,353.0ftKB				No	30.00	2,500.0		
CASING				STANDARD				10/5/2021		INTERMEDIATE 2, 10,835.0ftKB				No	30.00	2,500.0		
Kick Offs & Key Depths																		
Date						Type				Top Depth (ftKB)				Depth Top (TVD) (ftKB)				
9/25/2021 12:00						KICK OFF				4,683.0				4,571.6				
10/5/2021 07:00						KICK OFF				10,925.0				10,858.1				
10/6/2021 00:45						HEEL				11,733.0				11,380.8				
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		1,011.0		1,010.8		13 3/8		J55		54.50		BTC		656.6				
Daily Drilling Report																		
Page 2/3										Printed: Wednesday, October 6, 2021								

Daily Drilling Report

H & P - 487

Accept: 8/18/2021

Days Since LTI: 392.00

Release:

Days Since RI: 392.00

ODR

Job:

Report Date:

10/6/2021

Report #:

28

DFS

26

AFE #:

9015111

Total AFE + Sup:

\$4,412,374.71

Daily Field Est. (Cost):

\$113,347.34

Daily Drilling Report

Daily Drilling Report

UTL 1308A 4101H				DELAWARE	
H & P - 487				Job:	ODR
Accept: 8/18/2021				Report Date:	10/7/2021
Days Since LTI: 393.00				Report #:	29
Release:				DFS:	27
Days Since RI: 393.00				AFE #:	9015111
				Total AFE + Sup:	\$4,412,374.71
				Daily Field Est. (Cost):	\$77,212.08

P/U/UWI 42-475-38217-0000		Well Profile HORIZONTAL		Open Formation WOLFCAMP A1 (WFMP A1)		Field Name PHANTOM (WOLFCAMP)				
SSN ID00056072		Property Sub	KB-Grd (ft) 26.50	Orig KB Elev (ft) 2,735.50	Ground Elevation (ft) 2,709.00	Spud Date 7/14/2021	TD Date			
Jobs										
Responsible Grp 2		Responsible Grp 3		Job Type	Start Date	End Date	Job Status			
DRL ENG - ALEXANDER LINDBLAD		AREA TEAM 2		ODR	7/14/2021 06:00		IN PROGRESS			
Job Dates (ex. Estimated Pad Release, TXRRC Calls)										
Type		Subtype		Date		Note				
MILESTONE		ESTIMATED PAD RELEASE		10/15/2021		3 well pad. Drilling 1st production on 3 well pad				
Daily Operations										
Footage/Meterage (ft) 155.00		Drilling Hours (hr) 3.25		% Rotating Time (%) 23.08	End Depth (ftKB) 12,227.0	Target Depth (ftKB) 22,083.0	Daily Field Est Total (Cost) 77,212.08	Cum Field Est To Date (Cost) 4,115,932.59		
24 HR ROP (ft/hr) 47.7	Circulating Hours (hr) 1.50	% Sliding Time (%) 76.92	End Depth (TVD) (ftKB) 11,377.9	Target Depth (TVD) (ftKB) 11,325.0	Daily Mud Field Est (Cost) 390.00	Cum Mud Field Est (Cost) 57,710.27	Total AFE + Sup (Cost) 4,412,374.71			
Daily Goal Description DRILLED FEET		Daily Goal - Last 24 328.0			Daily Goal - Next 24 773.0		Goal Comments Goal Met			
Backbuild Yes	Lateral Inclination Toe Up	Last Casing String INTERMEDIATE 2, 10,835.0ftKB				Next Casing String PROPOSED PRODUCTION, 22,084.0ftKB				
Avg Connection Gas 88.00		Avg Trip Gas 0.00		Avg Background Gas 62.00		Max Connection Gas 304.00	Max Trip Gas 0.00	Max Drill Gas 100.00		
Operations Summary TOOH for assembly, C/O motor and drill bit, TIH T/ shoe, S&C drill line, TIH Drlg Lateral F/12,072 T/ 12,227' CBU, TOO H T/ TOC 10,925', Ream through curve F/10,925' T/12,227, CBU Last survey= 12,227 Inc-88.96 Azm-66.5 , 29' above, 32' right										
Operations Next Report Period TOOH, L/D BHA, P/U RSS assembly, TIH, Drill lateral F/12,227' T/13,000', W/ no HSE events										
Operations at Report Time CBU after reaming curve/ 1 man short on days/ full crew on nights										
Remarks Daily NPT: 1.5, Rig: 0 , 3rd: 0 PNR: 0 Cum. NPT: 1.5, Rig: 0, 3rd: 0, PNR: 0 Surface: 100% Intermediate #1= 100% Intermediate #2: 100% Curve: 100% Lateral: 5%										
Time Log										
Start Time	Dur (hr)	End Time	Phase	Operation	Ops Category	Com	Start Depth (ftKB)	End Depth (ftKB)	Prob Hrs (hr)	Prob Ref #
06:00	0.75	06:45	PROD, DRL LAT	TOOH_NONEL EV	NORMAL	TOOH F/11,500' T/ 10,925' (wet) Proper hole fill observed on trip tanks.	12,072.0	12,072.0		
06:45	0.5	07:15	PROD, DRL LAT	FLOW_CHK	NORMAL	Flow check well static, pump slug	12,072.0	12,072.0		
07:15	2.5	09:45	PROD, DRL LAT	TOOH_NONEL EV	NORMAL	TOOH F/10,925' T/ 2,447' Proper hole fill observed on trip tanks.	12,072.0	12,072.0		
09:45	0.5	10:15	PROD, DRL LAT	HDL_ROT HD	NORMAL	Remove rotating head and install trip nipple	12,072.0	12,072.0		
10:15	1.75	12:00	PROD, DRL LAT	TOOH_NONEL EV	NORMAL	TOOH F/2,447' T/BHA Proper hole fill observed on trip tanks.	12,072.0	12,072.0		
12:00	0.25	12:15	PROD, DRL LAT	SFTY	NORMAL	PJSM over L/D BHA and drops inspections	12,072.0	12,072.0		
12:15	0.5	12:45	PROD, DRL LAT	LD_DIR	NORMAL	Drained motor, broke bit, Pulled MWD, Verified scribe mark on UBHO, scribe was good. Broke motor and layed out same.	12,072.0	17,072.0		
12:45	0.25	13:00	PROD, DRL LAT	SFTY	NORMAL	PJSM over P/U BHA	12,072.0	12,072.0		
13:00	0.5	13:30	PROD, DRL LAT	PU_DIR	NORMAL	Picked up motor and made up bit Scribed same.	12,072.0	12,072.0		
13:30	5.25	18:45	PROD, DRL LAT	TIH_ELEV	NORMAL	TIH F/ BHA T/10,800' Proper hole displacement observed on trip tanks.	12,072.0	12,072.0		
18:45	0.5	19:15	PROD, DRL LAT	HDL_ROT HD	NORMAL	Remove trip nipple and install rotating head	12,072.0	12,072.0		
19:15	0.75	20:00	PROD, DRL LAT	SLIP_CUT	NORMAL	Slip and cut drill line	12,072.0	12,072.0		
20:00	0.5	20:30	PROD, DRL LAT	RIG_SVC	NORMAL	Rig service	12,072.0	12,072.0		
20:30	1	21:30	PROD, DRL LAT	TIH_ELEV	NORMAL	TIH F/ 10,800 T/12,072' Proper hole displacement observed on trip tanks.	12,072.0	12,072.0		
21:30	3.25	00:45	PROD, DRL LAT	DRL	NORMAL	Drill 6 3/4" Lateral F/12,072' T/ 12,227', 155', 62 fph. 100 rpm, 25-30k wob, 340 gpm, 1140 diff, 15k tq	12,072.0	12,227.0		
00:45	1.5	02:15	PROD, DRL LAT	CIRC	NORMAL	Circ B/U @ 330 gpm 50 RPM	12,172.0	12,227.0		
02:15	1.5	03:45	PROD, DRL LAT	TOOH_ELEV	NORMAL	TOOH F/12,227' T/11,124'(Wet) Hole taking proper fill	12,227.0	12,227.0		
03:45	1	04:45	PROD, DRL LAT	TIH_NONELEV	NORMAL	Wash and ream DNR through curve F/10.925' T/12,227', 300 gpm, 60 rpm prior to TOOH for RSS assembly	12,227.0	12,227.0		
04:45	1.25	06:00	PROD, DRL LAT	CIRC	NORMAL	CBU @ 330 gpm	12,227.0	12,227.0		
Daily Drilling Report										
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Printed: Thursday, October 7, 2021										

PIONEER
NATURAL RESOURCES

Daily Drilling Report

UTL 1308A 4101H

H & P - 487

Accept: 8/18/2021

Days Since LTI: 393.00

Release:

Days Since RI: 393.00

DELAWARE

ODR

Report Date:

10/7/2021

Report #:

29

DFS:

27

AFE #:

9015111

Total AFE + Sup:

\$4,412,374.71

Daily Field Est. (Cost):

\$77,212.08

Drill Strings																	
BHA #9 , PRODUCTION - VERTICAL/CURVE																	
Bit Run 8		Drill Bit 6 3/4in, U611M, 55865				Bit Type PDC		Make ULTERRA									
Nozzles (1/32") 13/13/13/13/13/13		Bit Total Fluid Area (nozzles) (in²) 0.78		IADC Bit Dull 2-1-BT-N-X-0-CT-HP		Hours Drilled By Bit (hr) 21.50		Depth Drilled By Bit (ft) 1,232.00									
BHA Drilling Time (hr) 21.50		BHA Depth Drilled (ft) 1,232.00		BHA ROP (ft/hr) 57.3		Depth In (ftKB) 10,840.0		Depth Out (ftKB) 12,072.0									
Drill String Components																	
Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)	Wt (lbf)	Cum Wt (1000lbf)	Make									
380	DRILL PIPE	4 1/2	2.75	11,974.81	12,072.00	198,781.8	199	QUAIL									
1	SUB - XO	4 3/4	2.75	4.98	97.19		0	QUAIL									
1	DRILL COLLAR - NON MAG	5	2.81	30.08	92.21		0	STABIL DRILL									
1	DRILL COLLAR - NON MAG	5 1/2	2.81	28.64	62.13		0	GORDON									
1	SUB - UBHO	5 1/4	2.75	3.35	33.49		0	GORDON									
1	MOTOR - SLICK SLEEVE	5	2.50	29.34	30.14		0	ALTITUDE ENERGY PARTNERS									
Mud Motors																	
SN	Bend Angle	Bearing Type	Lobe Config	# Stages	Lwr DefIn Type	Bit To Bend											
5039	1.83	NOT SEALED	7:8	8.2		4.39											
Sensors																	
Sensor Type		Sensor-Bit (ft)			Note												
GAMMA		41.33															
DIRECTIONAL		51.60															
BHA #10 , PRODUCTION - LATERAL																	
Bit Run 9		Drill Bit 6 3/4in, U611M, 55865				Bit Type PDC		Make ULTERRA									
Nozzles (1/32") 13/13/13/13/13/13		Bit Total Fluid Area (nozzles) (in²) 0.78		IADC Bit Dull -----		Hours Drilled By Bit (hr) 3.25		Depth Drilled By Bit (ft) 155.00									
BHA Drilling Time (hr) 3.25		BHA Depth Drilled (ft) 155.00		BHA ROP (ft/hr) 47.7		Depth In (ftKB) 12,072.0		Depth Out (ftKB) 12,227.0									
Drill String Components																	
Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)	Wt (lbf)	Cum Wt (1000lbf)	Make									
384	DRILL PIPE	4 1/2	2.75	11,988.52	12,227.00	199,009.4	201	QUAIL									
1	REAMER - DRILL N' REAM	5	2.25	8.40	238.48		2	DRILLING TOOLS INTERNATIONAL									
4	DRILL PIPE	4 1/2	2.75	132.89	230.08	2,206.0	2	QUAIL									
1	SUB - XO	4 3/4	2.75	4.98	97.19		0	QUAIL									
1	DRILL COLLAR - NON MAG	5	2.81	30.08	92.21		0	STABIL DRILL									
1	DRILL COLLAR - NON MAG	5 1/2	2.81	28.64	62.13		0	GORDON									
1	SUB - UBHO	5 1/4	2.75	3.35	33.49		0	GORDON									
1	MOTOR - SLICK SLEEVE	5	2.50	29.34	30.14		0	ALTITUDE ENERGY PARTNERS									
Mud Motors																	
SN	Bend Angle	Bearing Type	Lobe Config	# Stages	Lwr DefIn Type	Bit To Bend											
5039	1.83	NOT SEALED	7:8	8.2		4.39											
Sensors																	
Sensor Type		Sensor-Bit (ft)			Note												
GAMMA		41.33															
DIRECTIONAL		51.60															
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	00:00	12,072.0	98.00	39.2	20	0	500.0	300	3,528.0	62.0	195	235	160	195	0.0	6.0	100
00:00	00:45	12,170.0	57.00	76.0	30	60	500.0	300	3,528.0	62.0	195	235	160	195	18.0	6.0	0
00:45	02:15	12,227.0	0.00		0	0	0.0	300	3,528.0	0.0	195	235	160	195	0.0	6.0	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	13.07	30.1	0.8	123.8	172.0	8.4	480.2	89.78	33.64	525.45							
Mud Checks																	
Time 01:15		Mud Company PIONEER DRILLING FLUIDS			Type OIL BASE		Depth (ftKB) 12,144.0	Density (lb/gal) 12.40	Funnel Viscosity (s/qt) 67	T Flowline (°F) 119.0							
PV (cP) 23.0	YP (lb/100ft²) 27.000	Vis 3rpm 16	Vis 6rpm 17	Filtrate (mL/30min)		HTHP Filtrate (mL/30min) 4.8		HTHP Temperature (°F) 250.0		HTHP Pressure (psi) 500.0							
Solids (%) 21.5		Low Gravity Solids (%) 4.0		Sand (%)		MBT (lb/bbl)		Pm (mL/mL)		Pf (mL/mL)							
Chlorides (mg/L) 49,000		Calcium (mg/L) 18,000		CaCl (ppm) 27,220	Oil Water Ratio 74/26		Electric Stab (V) 647.0		Lime (lb/bbl) 3.2		pH						
Gel 10 sec (lb/100ft²) 16.000				Gel 10 min (lb/100ft²) 19.000				Gel 30 min (lb/100ft²) 21.000									
Comment Maintain mw of 12.5-12.7 using barite. Add 22 Lime (.37 ppb active system, 6ppb fluid additions), Add 10 cans Driltreat (2ppb fluid additions, .16ppb active system), 3 drum of EZMul (1.08 ppb active system), Diesel at 2.5secs/qt (8.5bbls/hr), Water at 25secs/qt (.85bbls/hr).																	
Last BOP Test																	
Date	Test Type		Item Tested		Next Test Date		Com										
9/21/2021	BOP		BOP'S, 8/18/2021 22:30, <class>		10/12/2021		Full BOP test 250 Low 5000 High										
Daily Drilling Report																	

Daily Drilling Report

Leak Off and Formation Integrity Tests									
Test Type		Depth (ftKB)		Dens Fluid (lb/gal)					
FORMATION INTEGRITY		1,011.0		12.50					
FORMATION INTEGRITY		8,350.0		10.48					
FORMATION INTEGRITY		10,840.0		14.00					
Casing Pressure Test									
Test Type		Test Subtype		Date	Item Tested	Failed?	Time (min)	P (psi)	
CASING		STANDARD		7/23/2021	SURFACE, 1,011.0ftKB	No	30.00	1,000.0	
CASING		STANDARD		10/31/2021	INTERMEDIATE, 8,353.0ftKB	No	30.00	2,500.0	
CASING		STANDARD		10/5/2021	INTERMEDIATE 2, 10,835.0ftKB	No	30.00	2,500.0	
Kick Offs & Key Depths									
Date		Type		Top Depth (ftKB)		Depth Top (TVD) (ftKB)			
9/25/2021 12:00		KICK OFF		4,683.0		4,571.6			
10/5/2021 07:00		KICK OFF		10,925.0		10,858.1			
10/6/2021 00:45		HEEL		11,733.0		11,380.8			
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	1,011.0	1,010.8	13 3/8	J55	54.50	BTC	656.6		
INTERMEDIATE	8,353.0	8,289.8	9 5/8	L80-IC	40.00	BTC	4,509.6		
INTERMEDIATE 2	10,835.0	10,768.2	7 5/8	P110-IC	29.70	WEDGE 441	7,836.9		
Gas Emissions - Flare									
Type	Method	Dur (min)	Amount	Units	Com				
Job Supply Amounts									
Supply Item Des		Type	Unit Label	Received	Consumed	Returned	Note	Cum On Loc	Cum Consumed
DIESEL		FUEL	GAL		3,989			8,303	53,814.0
DIESEL		MUD	GAL	7,230				15,035	60,970.0
DIESEL		MUD	GAL		0			15,035	60,970.0
Mud Additive Amounts									
Des		Type	Units	Rec	Consumed	On Loc	Cum Cons		
LIME		ALKALINITY CONTROL	SACK		60	105.0	110		
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	6,374.0		
2	GARDNER-DENVER		PZ-11-1600	5	11.00	0.067	7,500.0		
3	GARDNER-DENVER		PZ-11-1600	5	11.00	0.067	7,500.0		
Pump Checks									
Pump #	Depth (ftKB)	Time	P (psi)	Strokes (spm)	Q Flow (gpm)		Eff (%)		
Deviation Surveys									
Date 7/14/2021		Description AS DRILL SURVEY					Job ODR, 7/14/2021 06:00		
Date 9/25/2021		Description SIDETRACK					Job ODR, 7/14/2021 06:00		
Survey Data - All surveys for 24 hr reporting period									
MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)		
12,119.00	88.96	76.97	11,375.90	1,117.19	-586.08	1,271.97	13.57		
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			-8,730.0		11,465.5				
FIRST TAKE POINT (FTP)			-8,675.0		11,410.5				
Daily Contacts									
Job Contact		Title	Office	Mobile	Email				
COX, BRYAN, ENGINEER		ENGINEER	972-969-5717	361-318-4212	BRYAN.COX@PXD.COM				
LINDBLAD, ALEXANDER, ENGINEER		ENGINEER	972-969-1749		ALEXANDER.LINDBLAD@PXD.COM				
POLYA, JOE, AREA DRILLING SUPERINTENDENT		AREA DRILLING SUPERINTENDENT	432-413-6147	432-352-3155	JOE.POLYA@PXD.COM				
BROWN, DAN, SUPERINTENDENT		SUPERINTENDENT		469-203-9731	DAN.BROWN@PXD.COM				
WAGNON, TIM, SUPERINTENDENT		SUPERINTENDENT		409-489-2208	TIM.WAGNON@PXD.COM				
PARTIN, BRENT, WELLSITE SUPERVISOR		WELLSITE SUPERVISOR		405-612-1577	BRENT.PARTIN@PXD.COM				
FOWLER, TREY, WELLSITE SUPERVISOR		WELLSITE SUPERVISOR		409-489-2876	TREY.FOWLER@PXD.COM				
HAYS, KAREN, MUD ENGINEER		MUD ENGINEER		970-215-0438	KAREN.HAYS@PXD.COM				
TRUPE, CODY, MUD ENGINEER		MUD ENGINEER		405-664-3414	CODY.TRUPE@PXD.COM				
RIG-H&P 487, RIG PHONE		RIG PHONE	432-200-0785		DL-HP487@PXD.COM				
Personnel Log									
Company							Count		
PIONEER NATURAL RESOURCES USA INC							4		
HELMERICH & PAYNE INTERNATIONAL DRILLING CO							12		
ALTITUDE ENERGY PARTNERS INC							2		
GORDON TECHNOLOGIES LLC							1		
DYNAMIC ENERGY SERVICES LLC							1		
STRATAGRAPH INC							2		
Daily Drilling Report				Page 3/3		Printed: Thursday, October 7, 2021			

Daily Drilling Report

UTL 1308A 4101H				DELAWARE	
H & P - 487				Job:	ODR
Accept: 8/18/2021				Report Date:	10/8/2021
Days Since LTI: 394.00				Report #:	30
Release:				DFS:	28
Days Since RI: 394.00				AFE #:	9015111
				Total AFE + Sup:	\$4,412,374.71
				Daily Field Est. (Cost):	\$61,310.79

P/U/UWI 42-475-38217-0000		Well Profile HORIZONTAL		Open Formation WOLFCAMP A1 (WFMP A1)		Field Name PHANTOM (WOLFCAMP)					
SSN ID00056072		Property Sub		KB-Grd (ft) 26.50	Orig KB Elev (ft) 2,735.50	Ground Elevation (ft) 2,709.00	Spud Date 7/14/2021	TD Date			
Jobs											
Responsible Grp 2		Responsible Grp 3			Job Type	Start Date		End Date	Job Status		
DRL ENG - ALEXANDER LINDBLAD		AREA TEAM 2			ODR	7/14/2021 06:00			IN PROGRESS		
Job Dates (ex. Estimated Pad Release, TXRRC Calls)											
Type				Subtype		Date		Note			
MILESTONE				ESTIMATED PAD RELEASE		10/15/2021		3 well pad. Drilling 1st production on 3 well pad			
Daily Operations											
Footage/Meterage (ft) 123.00		Drilling Hours (hr) 1.25		% Rotating Time (%) 100.00		End Depth (ftKB) 12,350.0		Target Depth (ftKB) 22,083.0			
								Daily Field Est Total (Cost) 61,310.79	Cum Field Est To Date (Cost) 4,182,051.76		
24 HR ROP (ft/hr) 98.4		Circulating Hours (hr)		% Sliding Time (%) 0.00		End Depth (TVD) (ftKB) 11,380.1		Target Depth (TVD) (ftKB) 11,325.0			
								Daily Mud Field Est (Cost)	Cum Mud Field Est (Cost) 57,710.27		
								Total AFE + Sup (Cost) 4,412,374.71			
Daily Goal Description DRILLED FEET				Daily Goal - Last 24 773.0			Daily Goal - Next 24 2,000.0				
							Goal Comments Goal Not Met				
Backbuild Yes		Lateral Inclination Toe Up		Last Casing String INTERMEDIATE 2, 10,835.0ftKB				Next Casing String PROPOSED PRODUCTION, 22,084.0ftKB			
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, L/D BHA, Test BOPE, P/U RSS assembly, TIH, Down link RSS, Drlg production lateral F/12,227' T/ 12,350', Last survey= 12,247' Inc-90.02 Azm-68.06 , 24' above, 27' right											
Operations Next Report Period Drlg production lateral F/12,350' T/14,350'/ no HSE events											
Operations at Report Time Drlg Production T/12,350'/ Short 1 man on days, Full crew on days											
Remarks Daily NPT: 1.5, Rig: 0 , 3rd: 0 PNR: 0 Cum. NPT: 1.5, Rig: 0, 3rd: 0, PNR: 0 Surface: 100% Intermediate #1= 100% Intermediate #2: 100% Curve: 100% Lateral: 6%											
Time Log											
Start Time	Dur (hr)	End Time	Phase	Operation	Ops Category	Com		Start Depth (ftKB)	End Depth (ftKB)	Prob Hrs (hr)	Prob Ref #
06:00	0.25	06:15	PROD, DRL LAT	CIRC	NORMAL	CBU @ 330 gpm		12,227.0	12,227.0		
06:15	0.25	06:30	PROD, DRL LAT	FLOW_CHK	NORMAL	Flow check, well static, Pump slug		12,227.0	12,227.0		
06:30	4.75	11:15	PROD, DRL LAT	TOOH_NONEL EV	NORMAL	TOOH F/12,227' T/ 1,231' Proper hole fill observed on trip tanks.		12,227.0	12,227.0		
11:15	0.5	11:45	PROD, DRL LAT	HDL_ROT HD	NORMAL	Remove rotating head and install trip nipple		12,227.0	12,227.0		
11:45	0.75	12:30	PROD, DRL LAT	TOOH_NONEL EV	NORMAL	TOOH F/1,231' T/ BHA Proper hole fill observed on trip tanks.		12,227.0	12,227.0		
12:30	0.25	12:45	PROD, DRL LAT	SFTY	NORMAL	PJSM over L/D Dir BHA		12,227.0	12,227.0		
12:45	0.5	13:15	PROD, DRL LAT	LD_DIR	NORMAL	Drained motor, broke bit, Pulled MWD, L/D motor.		12,227.0	12,227.0		
13:15	0.5	13:45	PROD, DRL LAT	SFTY	NORMAL	Clean rig floor		12,227.0	12,227.0		
13:45	0.5	14:15	PROD, DRL LAT	WRBSH	NORMAL	Pull wear bushing and install Cactus test plug		12,227.0	12,227.0		
14:15	4.5	18:45	PROD, DRL LAT	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 7,000 psi high and 250 psi low for 5 minutes each. Note: Choke and floor valves tested off line.		12,227.0	12,227.0		
18:45	0.25	19:00	PROD, DRL LAT	WRBSH	NORMAL	Install wear bushing		12,227.0	12,227.0		
19:00	0.25	19:15	PROD, DRL LAT	SFTY	NORMAL	PJSM over P/U RSS BHA		12,227.0	12,227.0		
19:15	1.25	20:30	PROD, DRL LAT	PU_DIR	NORMAL	Picked up RSS BHA and made up bit.		12,227.0	12,227.0		
20:30	0.5	21:00	PROD, DRL LAT	RIG_SVC	NORMAL	Rig service		12,227.0	12,227.0		
21:00	4.75	01:45	PROD, DRL LAT	TIH_ELEV	NORMAL	TIH F/ BHA T/10,800'. Proper hole displacement observed on trip tanks.		12,227.0	12,227.0		
01:45	0.5	02:15	PROD, DRL LAT	HDL_ROT HD	NORMAL	Remove trip nipple and install rotating head		12,227.0	12,227.0		
02:15	0.75	03:00	PROD, DRL LAT	TIH_ELEV	NORMAL	TIH F/ 10,800' T/12,227'. Proper hole displacement observed on trip tanks.		12,227.0	12,227.0		
03:00	1.75	04:45	PROD, DRL LAT	CIRC	NORMAL	Down link RSS tool		12,227.0	12,227.0		
04:45	1.25	06:00	PROD, DRL LAT	DRL	NORMAL	Drlg production lateral F/ 12,227' T/ 12,350,(123' @ 98.4 FPH) Full returns		12,227.0	12,350.0		
Daily Drilling Report											
Page 1/4											
Printed: Friday, October 8, 2021											

Daily Drilling Report

UTL 1308A 4101H	
H & P - 487	
Accept: 8/18/2021	Release:
Days Since LTI: 394.00	Days Since RI: 394.00

DELAWARE	
Job:	ODR
Report Date:	10/8/2021
Report #:	30
DFS:	28
AFE #:	9015111
Total AFE + Sup:	\$4,412,374.71
Daily Field Est. (Cost):	\$61,310.79

Drill Strings																		
BHA #10 , PRODUCTION - LATERAL																		
Bit Run 9				Drill Bit 6 3/4in, U611M, 55865						Bit Type PDC				Make ULTERRA				
Nozzles (1/32") 13/13/13/13/13/13				Bit Total Fluid Area (nozzles) (in²) 0.78			IADC Bit Dull 1-1-CT-N-X-0-CT-BHA			Hours Drilled By Bit (hr) 3.25				Depth Drilled By Bit (ft) 155.00				
BHA Drilling Time (hr) 3.25				BHA Depth Drilled (ft) 155.00			BHA ROP (ft/hr) 47.7			Depth In (ftKB) 12,072.0				Depth Out (ftKB) 12,227.0				
Drill String Components																		
Jts	Item Des			OD (in)		ID (in)		Len (ft)		Cum Len (ft)		Wt (lbf)		Cum Wt (1000lbf)		Make		
384	DRILL PIPE			4 1/2		2.75		11,988.52		12,227.00		199,009.4		201		QUAIL		
1	REAMER - DRILL N' REAM			5		2.25		8.40		238.48				2		DRILLING TOOLS INTERNATIONAL		
4	DRILL PIPE			4 1/2		2.75		132.89		230.08		2,206.0		2		QUAIL		
1	SUB - XO			4 3/4		2.75		4.98		97.19				0		QUAIL		
1	DRILL COLLAR - NON MAG			5		2.81		30.08		92.21				0		STABIL DRILL		
1	DRILL COLLAR - NON MAG			5 1/2		2.81		28.64		62.13				0		GORDON		
1	SUB - UBHO			5 1/4		2.75		3.35		33.49				0		GORDON		
1	MOTOR - SLICK SLEEVE			5		2.50		29.34		30.14				0		ALTITUDE ENERGY PARTNERS		
Mud Motors																		
SN		Bend Angle		Bearing Type		Lobe Config		# Stages		Lwr DefIn Type		Bit To Bend						
5039		1.83		NOT SEALED		7:8		8.2				4.39						
Sensors																		
Sensor Type				Sensor-Bit (ft)						Note								
GAMMA				41.33														
DIRECTIONAL				51.60														
BHA #11 , PRODUCTION - LATERAL																		
Bit Run 10				Drill Bit 6 3/4in, DD406T, 5320799						Bit Type PDC				Make GE/BAKER HUGHES				
Nozzles (1/32") 10/10/10/10/10/10				Bit Total Fluid Area (nozzles) (in²) 0.46			IADC Bit Dull -----			Hours Drilled By Bit (hr) 1.25				Depth Drilled By Bit (ft) 123.00				
BHA Drilling Time (hr) 1.25				BHA Depth Drilled (ft) 123.00			BHA ROP (ft/hr) 98.4			Depth In (ftKB) 12,227.0				Depth Out (ftKB) 12,350.0				
Drill String Components																		
Jts	Item Des			OD (in)		ID (in)		Len (ft)		Cum Len (ft)		Wt (lbf)		Cum Wt (1000lbf)		Make		
379	DRILL PIPE			5		2.75		11,948.31		12,350.00				0		RIG		
4	HWDP			4 1/2		2.75		123.92		401.69				0		RIG		
1	REAMER - DRILL N' REAM			5		3.13		8.40		277.77				0		DRILLING TOOLS INTERNATIONAL		
5	HWDP			4 1/2		2.75		154.56		269.37				0		RIG		
1	SUB - XO			5 1/4		2.25		3.49		114.81				0		AMEGA WEST		
1	MOTOR - STABILIZER SLEEVE			5		3.25		34.41		111.32				0		ALTITUDE ENERGY PARTNERS		
1	SUB - FILTER			5		3.25		4.92		76.91				0		STABIL DRILL		
1	ACCELERATOR			4 1/2		2.75		18.36		71.99				0		TOMAX		
1	STABILIZER			5		2.69		5.71		53.63				0		STABIL DRILL		
1	DRILL COLLAR - NON MAG			5 1/8		2.81		28.74		47.92				0		GORDON		
1	SUB - UBHO			5 1/4		2.31		3.50		19.18				0		GORDON		
1	RSS TOOL			4 3/4		2.50		14.88		15.68				0		SCHLUMBERGER		
Mud Motors																		
SN		Bend Angle		Bearing Type		Lobe Config		# Stages		Lwr DefIn Type		Bit To Bend						
5025		0		NOT SEALED		7:8		7				0						
Sensors																		
Sensor Type				Sensor-Bit (ft)						Note								
GAMMA				31.10														
DIRECTIONAL				37.00														
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 (°)	
04:45	06:00	12,227.0	123.00	98.4	10	100	500.0	300	4,288.0	80.0	201	215	195	201	10.0	5.0		
Hydraulic Calculations																		
Dens Mud (lb/gal)	ECD End (lb/gal)	Bit Hydraulic Power (hp)		HP/Area (hp/in²)		Jet Vel (ft/s)		Bit dP (psi)		Min Open Hole AV (ft/min)	Max Open Hole AV (ft/min)		Vol DrillString (bbl)		Vol Bit to Shoe (bbl)		Vol Shoe to Top (bbl)	
12.70	13.38	88.1		2.5		209.2		503.2		8.4	408.5		90.83		31.66		475.58	

Daily Drilling Report

H & P - 487	
Accept: 8/18/2021	Release:
Days Since LTI: 394.00	Days Since RI: 394.00

Job:	ODR
Report Date:	10/8/2021
Report #:	30
DFS:	28
AFE #:	9015111
Total AFE + Sup:	\$4,412,374.71
Daily Field Est. (Cost):	\$61,310.79

Daily Contacts				
Job Contact	Title	Office	Mobile	Email
RIG-H&P 487, RIG PHONE	RIG PHONE	432-200-0785		DL-HP487@PXD.COM

Personnel Log	
Company	Count
PIONEER NATURAL RESOURCES USA INC	4
HELMERICH & PAYNE INTERNATIONAL DRILLING CO	12
ALTITUDE ENERGY PARTNERS INC	2
GORDON TECHNOLOGIES LLC	1
DYNAMIC ENERGY SERVICES LLC	1
STRATAGRAPH INC	2

Daily Drilling Report

UTL 1308A 4101H				DELAWARE	
H & P - 487				Job:	ODR
Accept: 8/18/2021				Report Date:	10/9/2021
Days Since LTI: 395.00				Report #:	31
Release:				DFS:	29
Days Since RI: 395.00				AFE #:	9015111
				Total AFE + Sup:	\$4,412,374.71
				Daily Field Est. (Cost):	\$153,856.55

P/I/UWI 42-475-38217-0000		Well Profile HORIZONTAL		Open Formation WOLFCAMP A1 (WFMP A1)		Field Name PHANTOM (WOLFCAMP)							
SSN ID00056072		Property Sub	KB-Grd (ft) 26.50	Orig KB Elev (ft) 2,735.50	Ground Elevation (ft) 2,709.00	Spud Date 7/14/2021		TD Date					
Jobs													
Responsible Grp 2		Responsible Grp 3		Job Type	Start Date		End Date		Job Status				
DRL ENG - ALEXANDER LINDBLAD		AREA TEAM 2		ODR	7/14/2021 06:00				IN PROGRESS				
Job Dates (ex. Estimated Pad Release, TXRRC Calls)													
Type			Subtype		Date		Note						
MILESTONE			ESTIMATED PAD RELEASE		10/15/2021		3 well pad. Drilling 1st production on 3 well pad						
Daily Operations													
Footage/Meterage (ft) 2,103.00		Drilling Hours (hr) 23.25		% Rotating Time (%) 100.00		End Depth (ftKB) 14,453.0		Target Depth (ftKB) 22,083.0					
						Daily Field Est Total (Cost) 153,856.55		Cum Field Est To Date (Cost) 4,436,207.97					
24 HR ROP (ft/hr) 90.5		Circulating Hours (hr) 0.75		% Sliding Time (%) 0.00		End Depth (TVD) (ftKB) 11,363.3		Target Depth (TVD) (ftKB) 11,325.0					
						Daily Mud Field Est (Cost) 6,988.17		Cum Mud Field Est (Cost) 66,183.10					
								Total AFE + Sup (Cost) 4,412,374.71					
Daily Goal Description DRILLED FEET				Daily Goal - Last 24 2,000.0			Daily Goal - Next 24 2,500.0		Goal Comments Goal Met				
Backbuild Yes		Lateral Inclination Toe Up		Last Casing String INTERMEDIATE 2, 10,835.0ftKB				Next Casing String PRODUCTION, 22,066.0ftKB					
Avg Connection Gas 0.00		Avg Trip Gas 0.00		Avg Background Gas 128.00		Max Connection Gas 0.00		Max Trip Gas 0.00					
								Max Drill Gas 181.00					
Operations Summary Drlg production lateral F/12,350' T/ 14,453, (0% Sliding RSS , Avg DLS 3.65°, 15' Below, 7.5' Left Target Line #3 TVD 11,410.0' @ VS, 91.0 Inc Last survey= 14,416' Inc-89.92 Azm-74.70													
Operations Next Report Period Drlg production lateral F/14,453' T/16,953', W/ no HSE events													
Operations at Report Time Drlg Production T/14,453/ Full crews													
Remarks Daily NPT: 1.5, Rig: 0 , 3rd: 0 PNR: 0 Cum. NPT: 1.5, Rig: 0, 3rd: 0, PNR: 0 Surface: 100% Intermediate #1= 100% Intermediate #2: 100% Curve: 100% Lateral: 26%													
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	20.5	02:30	PROD, DRL LAT	DRL	NORMAL	Drill 6 3/4" Lateral F/12,350' T/ 14,260', 1910', 94 fph. 80-100 rpm, 25-35k wob, 315 gpm, 1025 diff, 10 -15k tq	12,350.0	14,260.0					
02:30	0.75	03:15	PROD, DRL LAT	RIG_SVC	NORMAL	Rig service/ C/O elevators to 5"	14,260.0	14,260.0					
03:15	2.75	06:00	PROD, DRL LAT	DRL	NORMAL	Drill 6 3/4" Lateral F/14,260' T/ 14,453', 193', 70 fph. 80-100 rpm, 25-35k wob, 315 gpm, 1025 diff, 10-15k tq	14,260.0	14,453.0					
Drill Strings													
BHA #11 , PRODUCTION - LATERAL													
Bit Run 10			Drill Bit 6 3/4in, DD406T, 5320799				Bit Type PDC		Make GE/BAKER HUGHES				
Nozzles (1/32") 9/9/9/12/12/11			Bit Total Fluid Area (nozzles) (in²) 0.50		IADC Bit Dull -----		Hours Drilled By Bit (hr) 24.50		Depth Drilled By Bit (ft) 2,226.00				
BHA Drilling Time (hr) 24.50			BHA Depth Drilled (ft) 2,226.00		BHA ROP (ft/hr) 90.9		Depth In (ftKB) 12,227.0		Depth Out (ftKB) 14,453.0				
Drill String Components													
Jts	Item Des				OD (in)	ID (in)	Len (ft)	Cum Len (ft)	Wt (lbf)	Cum Wt (1000lbf)	Make		
446	DRILL PIPE				5	2.75	14,051.31	14,453.00		0	RIG		
4	HWDP				4 1/2	2.75	123.92	401.69		0	RIG		
1	REAMER - DRILL N' REAM				5	3.13	8.40	277.77		0	DRILLING TOOLS INTERNATIONAL		
5	HWDP				4 1/2	2.75	154.56	269.37		0	RIG		
1	SUB - XO				5 1/4	2.25	3.49	114.81		0	AMEGA WEST		
1	MOTOR - STABILIZER SLEEVE				5	3.25	34.41	111.32		0	ALTITUDE ENERGY PARTNERS		
1	SUB - FILTER				5	3.25	4.92	76.91		0	STABIL DRILL		
1	ACCELERATOR				4 1/2	2.75	18.36	71.99		0	TOMAX		
1	STABILIZER				5	2.69	5.71	53.63		0	STABIL DRILL		
1	DRILL COLLAR - NON MAG				5 1/8	2.81	28.74	47.92		0	GORDON		
1	SUB - UBHO				5 1/4	2.31	3.50	19.18		0	GORDON		
1	RSS TOOL				4 3/4	2.50	14.88	15.68		0	SCHLUMBERGER		
Mud Motors													
SN		Bend Angle		Bearing Type		Lobe Config		# Stages		Lwr DefIn Type		Bit To Bend	
5025		0		NOT SEALED		7:8		7				0	
Sensors													
Sensor Type				Sensor-Bit (ft)				Note					
GAMMA				31.10									
DIRECTIONAL				37.00									
Daily Drilling Report													
Page 1/3					Printed: Saturday, October 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 (°)	
06:00	02:30	12,350.0	1,910.00	93.2	25	100	1,025.0	315	4,288.0	94.0	201	215	195	201	15.0	7.0		
02:30	03:15	14,260.0	0.00		0	0	0.0	315	4,288.0	0.0	201	215	195	201	0.0	0.0		
03:15	06:00	14,260.0	193.00	70.2	30	90	625.0	315	4,288.0	70.0	201	215	195	201	15.0	7.0		
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)	
12.45	13.38	84.6		2.4		202.1		460.6		8.8	428.9		106.28		73.67		475.58	
Mud Checks																		
Time 01:15		Mud Company PIONEER DRILLING FLUIDS				Type OIL BASE		Depth (ftKB) 13,901.0		Density (lb/gal) 12.45		Funnel Viscosity (s/qt) 49		T Flowline (°F) 128.0				
PV (cP) 16.0		YP (lbf/100ft²) 15.000		Vis 3rpm 8		Vis 6rpm 9		Filtrate (mL/30min)		HTHP Filtrate (mL/30min) 7.6		HTHP Temperature (°F) 250.0		HTHP Pressure (psi) 500.0				
Solids (%) 21.0				Low Gravity Solids (%) 2.1			Sand (%)			MBT (lb/bbl)		Pm (mL/mL)		Pf (mL/mL)				
Chlorides (mg/L) 43,500			Calcium (mg/L) 43,500			CaCl (ppm) 11,000,000		Oil Water Ratio 77/23		Electric Stab (V) 786.0			Lime (lb/bbl) 4.3			pH		
Gel 10 sec (lbf/100ft²) 9.000						Gel 10 min (lbf/100ft²) 12.000						Gel 30 min (lbf/100ft²) 13.000						
Comment Maintain MW 12.6-12.7 VIS 45-52 Run diesel @ 2 sec/qt in active; no other treatments needed at this time.																		
Last BOP Test																		
Date		Test Type				Item Tested				Next Test Date		Com						
10/7/2021		BOP				BOP'S, 8/18/2021 22:30, <class>				10/28/2021		Full BOP test 10,000						
Leak Off and Formation Integrity Tests																		
Test Type						Depth (ftKB)						Dens Fluid (lb/gal)						
FORMATION INTEGRITY						1,011.0						12.50						
FORMATION INTEGRITY						8,350.0						10.48						
FORMATION INTEGRITY						10,840.0						14.00						
Casing Pressure Test																		
Test Type				Test Subtype				Date		Item Tested				Failed?	Time (min)		P (psi)	
CASING				STANDARD				7/23/2021		SURFACE, 1,011.0ftKB				No	30.00		1,000.0	
CASING				STANDARD				10/31/2021		INTERMEDIATE, 8,353.0ftKB				No	30.00		2,500.0	
CASING				STANDARD				10/5/2021		INTERMEDIATE 2, 10,835.0ftKB				No	30.00		2,500.0	
Kick Offs & Key Depths																		
Date						Type				Top Depth (ftKB)				Depth Top (TVD) (ftKB)				
9/25/2021 12:00						KICK OFF				4,683.0				4,571.6				
10/5/2021 07:00						KICK OFF				10,925.0				10,858.1				
10/6/2021 00:45						HEEL				11,733.0				11,380.8				
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		1,011.0		1,010.8		13 3/8		J55		54.50		BTC		656.6				
INTERMEDIATE		8,353.0		8,289.8		9 5/8		L80-IC		40.00		BTC		4,509.6				
INTERMEDIATE 2		10,835.0		10,768.2		7 5/8		P110-IC		29.70		WEDGE 441		7,836.9				
Gas Emissions - Flare																		
Type		Method		Dur (min)		Amount		Units		Com								
Job Supply Amounts																		
Supply Item Des		Type		Unit Label		Received		Consumed		Returned		Note		Cum On Loc		Cum Consumed		
DIESEL		FUEL		GAL		7,033		11,106						-2,908		72,058.0		
DIESEL		MUD		GAL		7,241		9,063						12,563		70,683.0		
Mud Additive Amounts																		
Des				Type		Units		Rec		Consumed		On Loc		Cum Cons				
BARITE-BULK				WEIGHTING MATERIAL		TON				15		51.21		115				
DRILL TREAT				OIL MUD ADDITIVE		GAL		150		75		75.0		75				
EZ MUL				OIL MUD ADDITIVE		GAL		18		1		17.0		1				
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		11.00		0.067		7,500.0				
Pump Checks																		
Pump #		Depth (ftKB)		Time		P (psi)		Strokes (spm)		Q Flow (gpm)				Eff (%)				
1		14,260.0		02:51		1,150.0		40		107				95				
1		14,260.0		02:51		915.0		20		53				95				
1		14,260.0		02:51		975.0		30		80				95				
2		14,260.0		02:51		815.0		20		53				95				
2		14,260.0		02:51		950.0		30		80				95				
2		14,260.0		02:51		1,115.0		40		107				95				
Daily Drilling Report																		

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Printed: Saturday, October 9, 2021

Daily Drilling Report

H & P - 487	
Accept: 8/18/2021	Release:
Days Since LTI: 395.00	Days Since RI: 395.00

Job:	ODR
Report Date:	10/9/2021
Report #:	31
DFS:	29
AFE #:	9015111
Total AFE + Sup:	\$4,412,374.71
Daily Field Est. (Cost):	\$153,856.55

Daily Drilling Report Page 3/3 Printed: Saturday, October 9, 2021

Daily Drilling Report

UTL 1308A 4101H				DELAWARE	
H & P - 487				Job:	ODR
Accept: 8/18/2021				Report Date:	10/10/2021
Days Since LTI: 396.00				Report #:	32
Release:				DFS:	30
Days Since RI: 396.00				AFE #:	9015111
				Total AFE + Sup:	\$4,412,374.71
				Daily Field Est. (Cost):	\$93,846.54

P/I/UWI 42-475-38217-0000		Well Profile HORIZONTAL		Open Formation WOLFCAMP A1 (WFMP A1)		Field Name PHANTOM (WOLFCAMP)				
SSN ID00056072		Property Sub	KB-Grd (ft) 26.50	Orig KB Elev (ft) 2,735.50	Ground Elevation (ft) 2,709.00	Spud Date 7/14/2021		TD Date		
Jobs										
Responsible Grp 2		Responsible Grp 3		Job Type	Start Date		End Date		Job Status	
DRL ENG - ALEXANDER LINDBLAD		AREA TEAM 2		ODR	7/14/2021 06:00				IN PROGRESS	
Job Dates (ex. Estimated Pad Release, TXRRC Calls)										
Type			Subtype		Date		Note			
MILESTONE			ESTIMATED PAD RELEASE		10/29/2021		3 well pad. Drilling 1st production on 3 well pad			
Daily Operations										
Footage/Meterage (ft) 1,820.00		Drilling Hours (hr) 23.50		% Rotating Time (%) 100.00		End Depth (ftKB) 16,273.0		Target Depth (ftKB) 22,083.0		
								Daily Field Est Total (Cost) 93,846.54		
								Cum Field Est To Date (Cost) 4,530,054.51		
24 HR ROP (ft/hr) 77.4		Circulating Hours (hr) 0.50		% Sliding Time (%) 0.00		End Depth (TVD) (ftKB) 11,309.5		Target Depth (TVD) (ftKB) 11,325.0		
								Daily Mud Field Est (Cost) 8,354.15		
								Cum Mud Field Est (Cost) 74,537.25		
								Total AFE + Sup (Cost) 4,412,374.71		
Daily Goal Description DRILLED FEET				Daily Goal - Last 24 2,500.0			Daily Goal - Next 24 2,000.0		Goal Comments Goal Not Met	
Backbuild Yes		Lateral Inclination Toe Up		Last Casing String INTERMEDIATE 2, 10,835.0ftKB				Next Casing String PRODUCTION, 22,066.0ftKB		
Avg Connection Gas 0.00		Avg Trip Gas 0.00		Avg Background Gas 133.00		Max Connection Gas 0.00		Max Trip Gas 0.00		
								Max Drill Gas 426.00		
Operations Summary Drlg production lateral F/14,453' T/16,273', (0% Sliding RSS , Avg DLS 2.86° , 3' Above, 6.82' Right Target Line #3 TVD 11,410.0' @ VS, 91.0 Inc Last survey= 16016' Inc-92.42 Azm-74.71										
Operations Next Report Period Drlg production lateral F/16,273' T/18,273', W/ no HSE events										
Operations at Report Time Drlg Production T/16,273/ Full crews										
Remarks Daily NPT: 1.5, Rig: 0 , 3rd: 0 PNR: 0 Cum. NPT: 1.5, Rig: 0, 3rd: 0, PNR: 0 Surface: 100% Intermediate #1= 100% Intermediate #2: 100% Curve: 100% Lateral: 44%										
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	21.5	03:30	PROD, DRL LAT	DRL	NORMAL	Drill 6 3/4" Lateral F/14,453' T/ 16,053', 1600', 75 fph. 80-100 rpm, 30-35k wob, 340 gpm, 750 diff, 10-15k tq Note: Control drill for Inc and Azi.	14,453.0	16,053.0		
03:30	0.5	04:00	PROD, DRL LAT	SFTY	NORMAL	Rig service	16,053.0	16,053.0		
04:00	2	06:00	PROD, DRL LAT	DRL	NORMAL	Drill 6 3/4" Lateral F/16,053' T/ 16,273', 220', 110 fph. 80-100 rpm, 30-35k wob, 340 gpm, 750 diff, 10-15k tq	16,053.0	16,273.0		
Drill Strings										
BHA #11 , PRODUCTION - LATERAL										
Bit Run 10			Drill Bit 6 3/4in, DD406T, 5320799				Bit Type PDC		Make GE/BAKER HUGHES	
Nozzles (1/32") 9/9/9/12/12/11			Bit Total Fluid Area (nozzles) (in²) 0.50		IADC Bit Dull -----		Hours Drilled By Bit (hr) 48.00		Depth Drilled By Bit (ft) 4,046.00	
BHA Drilling Time (hr) 48.00			BHA Depth Drilled (ft) 4,046.00		BHA ROP (ft/hr) 84.3		Depth In (ftKB) 12,227.0		Depth Out (ftKB) 16,273.0	
Drill String Components										
Jts	Item Des			OD (in)	ID (in)	Len (ft)	Cum Len (ft)	Wt (lbf)	Cum Wt (1000lbf)	Make
60	DRILL PIPE			5	4.81	1,915.00	16,273.92	37,342.5	37	RIG
1	SUB - XO			5 1/4	2.25	4.92	14,358.92		0	AMEGA WEST
444	DRILL PIPE			5	2.75	13,952.31	14,354.00		0	RIG
4	HWDP			4 1/2	2.75	123.92	401.69		0	RIG
1	REAMER - DRILL N' REAM			5	3.13	8.40	277.77		0	DRILLING TOOLS INTERNATIONAL
5	HWDP			4 1/2	2.75	154.56	269.37		0	RIG
1	SUB - XO			5 1/4	2.25	3.49	114.81		0	AMEGA WEST
1	MOTOR - STABILIZER SLEEVE			5	3.25	34.41	111.32		0	ALTITUDE ENERGY PARTNERS
1	SUB - FILTER			5	3.25	4.92	76.91		0	STABIL DRILL
1	ACCELERATOR			4 1/2	2.75	18.36	71.99		0	TOMAX
1	STABILIZER			5	2.69	5.71	53.63		0	STABIL DRILL
1	DRILL COLLAR - NON MAG			5 1/8	2.81	28.74	47.92		0	GORDON
1	SUB - UBHO			5 1/4	2.31	3.50	19.18		0	GORDON
1	RSS TOOL			4 3/4	2.50	14.88	15.68		0	SCHLUMBERGER
Mud Motors										
SN	Bend Angle		Bearing Type		Lobe Config		# Stages		Lwr DefIn Type	
5025	0		NOT SEALED		7:8		7			
Daily Drilling Report										
Page 1/3					Printed: Sunday, October 10, 2021					

PIONEER
NATURAL RESOURCES

Daily Drilling Report

UTL 1308A 4101H

H & P - 487

Accept: 8/18/2021

Days Since LTI: 396.00

Release:

Days Since RI: 396.00

DELAWARE

Job:

ODR

Report Date:

10/10/2021

Report #:

32

DFS:

30

AFE #:

9015111

Total AFE + Sup:

\$4,412,374.71

Daily Field Est. (Cost):

\$93,846.54

Sensors																			
Sensor Type					Sensor-Bit (ft)					Note									
GAMMA					31.10														
DIRECTIONAL					37.00														
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	03:30	14,453.0	1,600.00	74.4	30	90	625.0	315	4,288.0	75.0	201	215	195	201	15.0	7.0			
03:30	04:00	16,053.0	0.00		0	0	0.0	315	4,288.0	0.0	201	215	195	201	0.0	0.0			
04:00	06:00	16,053.0	220.00	110.0	34	110	675.0	315	4,288.0	110.0	201	215	195	201	17.0	8.0			
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)									
13.00	14.20	88.4	2.5	202.1	480.9	8.8	428.9	148.59	110.02	475.57									
Mud Checks																			
Time 01:15		Mud Company PIONEER DRILLING FLUIDS				Type OIL BASE		Depth (ftKB) 15,552.0		Density (lb/gal) 13.00		Funnel Viscosity (s/qt) 47		T Flowline (°F) 130.0					
PV (cP) 16.0		YP (lb/100ft²) 13.000		Vis 3rpm 8		Vis 6rpm 8		Filtrate (mL/30min)		HTHP Filtrate (mL/30min) 5.2		HTHP Temperature (°F) 250.0		HTHP Pressure (psi) 500.0					
Solids (%) 23.5				Low Gravity Solids (%) 3.3			Sand (%)			MBT (lb/bbl)		Pm (mL/mL)		Pf (mL/mL)					
Chlorides (mg/L) 38,000				Calcium (mg/L) 11,800			CaCl (ppm) 26,490		Oil Water Ratio 78/22		Electric Stab (V) 791.0		Lime (lb/bbl) 3.9		pH				
Gel 10 sec (lb/100ft²) 8.000						Gel 10 min (lb/100ft²) 10.000						Gel 30 min (lb/100ft²) 11.000							
Comment Maintain mw of 13-13.1ppg using barite. Add 12sx Lime (6.25 ppb fluid additions), 2 cans Drill Treat (.87 ppb fluid additions), Diesel at 3.6 secs/qt (6bbls/hr), Water at 10.7 secs/qt (2bbls/hr).																			
Last BOP Test																			
Date		Test Type				Item Tested				Next Test Date		Com							
10/7/2021		BOP				BOP'S, 8/18/2021 22:30, <class>				10/28/2021		Full BOP test 10,000							
Leak Off and Formation Integrity Tests																			
Test Type					Depth (ftKB)					Dens Fluid (lb/gal)									
FORMATION INTEGRITY					1,011.0					12.50									
FORMATION INTEGRITY					8,350.0					10.48									
FORMATION INTEGRITY					10,840.0					14.00									
Casing Pressure Test																			
Test Type			Test Subtype				Date		Item Tested			Failed?		Time (min)		P (psi)			
CASING			STANDARD				7/23/2021		SURFACE, 1,011.0ftKB			No		30.00		1,000.0			
CASING			STANDARD				10/31/2021		INTERMEDIATE, 8,353.0ftKB			No		30.00		2,500.0			
CASING			STANDARD				10/5/2021		INTERMEDIATE 2, 10,835.0ftKB			No		30.00		2,500.0			
Kick Offs & Key Depths																			
Date					Type					Top Depth (ftKB)				Depth Top (TVD) (ftKB)					
9/25/2021 12:00					KICK OFF					4,683.0				4,571.6					
10/5/2021 07:00					KICK OFF					10,925.0				10,858.1					
10/6/2021 00:45					HEEL					11,733.0				11,380.8					
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		1,011.0		1,010.8		13 3/8		J55		54.50		BTC		656.6					
INTERMEDIATE		8,353.0		8,289.8		9 5/8		L80-IC		40.00		BTC		4,509.6					
INTERMEDIATE 2		10,835.0		10,768.2		7 5/8		P110-IC		29.70		WEDGE 441		7,836.9					
Gas Emissions - Flare																			
Type		Method		Dur (min)		Amount		Units		Com									
Job Supply Amounts																			
Supply Item Des			Type		Unit Label		Received		Consumed		Returned		Note			Cum On Loc		Cum Consumed	
DIESEL			FUEL		GAL				2,225							8,496		60,654.0	
DIESEL			MUD		GAL		7,233		1,420							16,337		74,146.0	
Mud Additive Amounts																			
Des			Type			Units			Rec		Consumed		On Loc			Cum Cons			
BARITE-BULK			WEIGHTING MATERIAL			TON			37		37		51.21			152			
DRILL TREAT			OIL MUD ADDITIVE			GAL					7		68.0			82			
TRANSPORTATION			MISCELLANEOUS			MILE			2		2		0.0			3			
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		11.00		0.067		7,500.0					
Pump Checks																			
Pump #		Depth (ftKB)		Time		P (psi)		Strokes (spm)		Q Flow (gpm)				Eff (%)					
Daily Drilling Report																			
Page 2/3																			
Printed: Sunday, October 10, 2021																			

Daily Drilling Report

H & P - 487

Accept: 8/18/2021

Days Since LTI: 396.00**Release:**

Days Since RI: 396.00

DELAWARE

Job:

ODR

Report Date:

10/10/2021

Report #:

32

DFS:

30

AFE #:

9015111

Total AFE + Sup:

\$4,412,374.71

Daily Field Est. (Cost):

\$93,846.54

Daily Drilling Report

Daily Drilling Report

UTL 1308A 4101H				DELAWARE	
H & P - 487				Job:	ODR
Accept: 8/18/2021				Report Date:	10/11/2021
Days Since LTI: 397.00				Report #:	33
Release:				DFS:	31
Days Since RI: 397.00				AFE #:	9015111
				Total AFE + Sup:	\$4,412,374.71
				Daily Field Est. (Cost):	\$82,515.67

API/UWI 42-475-38217-0000		Well Profile HORIZONTAL		Open Formation WOLFCAMP A1 (WFMP A1)		Field Name PHANTOM (WOLFCAMP)						
SSN ID00056072		Property Sub	KB-Grd (ft) 26.50	Orig KB Elev (ft) 2,735.50	Ground Elevation (ft) 2,709.00	Spud Date 7/14/2021		TD Date				
Jobs												
Responsible Grp 2		Responsible Grp 3		Job Type	Start Date		End Date		Job Status			
DRL ENG - ALEXANDER LINDBLAD		AREA TEAM 2		ODR	7/14/2021 06:00				IN PROGRESS			
Job Dates (ex. Estimated Pad Release, TXRRC Calls)												
Type			Subtype		Date		Note					
MILESTONE			ESTIMATED PAD RELEASE		10/29/2021		3 well pad. Drilling 1st production on 3 well pad					
Daily Operations												
Footage/Meterage (ft) 1,884.00		Drilling Hours (hr) 23.50		% Rotating Time (%) 100.00		End Depth (ftKB) 18,157.0		Target Depth (ftKB) 22,083.0		Daily Field Est Total (Cost) 82,515.67	Cum Field Est To Date (Cost) 4,612,570.18	
24 HR ROP (ft/hr) 80.2		Circulating Hours (hr) 0.50		% Sliding Time (%) 0.00		End Depth (TVD) (ftKB) 11,257.1		Target Depth (TVD) (ftKB) 11,325.0		Daily Mud Field Est (Cost) 1,700.74	Cum Mud Field Est (Cost) 76,237.99	Total AFE + Sup (Cost) 4,412,374.71
Daily Goal Description DRILLED FEET				Daily Goal - Last 24 2,000.0				Daily Goal - Next 24 1,800.0		Goal Comments Goal Met		
Backbuild Yes		Lateral Inclination Toe Up		Last Casing String INTERMEDIATE 2, 10,835.0ftKB				Next Casing String PRODUCTION, 22,066.0ftKB				
Avg Connection Gas 0.00		Avg Trip Gas 0.00		Avg Background Gas 122.00		Max Connection Gas 0.00		Max Trip Gas 0.00		Max Drill Gas 213.00		
Operations Summary Drlg production lateral F/16,273' T/18,157', (0% Sliding RSS , Avg DLS 2.20°, 1.41' Above, 6.57' Left Target Line #4 TVD 11,398.0' @ VS, 91.11 Inc Last survey= 18,032' Inc-91.69 Azm-74.20												
Operations Next Report Period Drlg production lateral F/18,157' T/19,958', W/ no HSE events												
Operations at Report Time Drlg Production T/ 18,157'/ Full crews												
Remarks Daily NPT: 1.5, Rig: 0 , 3rd: 0 PNR: 0 Cum. NPT: 1.5, Rig: 0, 3rd: 0, PNR: 0 Surface: 100% Intermediate #1= 100% Intermediate #2: 100% Curve: 100% Lateral: 62%												
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	21.5	03:30	PROD, DRL LAT	DRL	NORMAL	Drill 6 3/4" Lateral F/16,273' T/ 18,032', 1,759', 81 fph. 80-100 rpm, 30-35k wob, 340 gpm, 750 diff, 10-15k tq		16,273.0	18,032.0			
03:30	0.5	04:00	PROD, DRL LAT	RIG_SVC	NORMAL	Rig service		18,032.0	18,032.0			
04:00	2	06:00	PROD, DRL LAT	DRL	NORMAL	Drill 6 3/4" Lateral F/ 18,032' T/ 18157', 125', 63 fph. 80-100 rpm, 30-35k wob, 340 gpm, 750 diff, 10-15k tq		18,032.0	18,157.0			
Drill Strings												
BHA #11 , PRODUCTION - LATERAL												
Bit Run 10			Drill Bit 6 3/4in, DD406T, 5320799					Bit Type PDC		Make GE/BAKER HUGHES		
Nozzles (1/32") 9/9/9/12/12/11			Bit Total Fluid Area (nozzles) (in²) 0.50			IADC Bit Dull -----		Hours Drilled By Bit (hr) 71.50		Depth Drilled By Bit (ft) 5,930.00		
BHA Drilling Time (hr) 71.50			BHA Depth Drilled (ft) 5,930.00			BHA ROP (ft/hr) 82.9		Depth In (ftKB) 12,227.0		Depth Out (ftKB) 18,157.0		
Drill String Components												
Jts	Item Des			OD (in)	ID (in)	Len (ft)	Cum Len (ft)	Wt (lbf)	Cum Wt (1000lbf)	Make		
120	DRILL PIPE			5	4.81	3,798.08	18,157.00	74,062.6	74	RIG		
1	SUB - XO			5 1/4	2.25	4.92	14,358.92		0	AMEGA WEST		
444	DRILL PIPE			5	2.75	13,952.31	14,354.00		0	RIG		
4	HWDP			4 1/2	2.75	123.92	401.69		0	RIG		
1	REAMER - DRILL N' REAM			5	3.13	8.40	277.77		0	DRILLING TOOLS INTERNATIONAL		
5	HWDP			4 1/2	2.75	154.56	269.37		0	RIG		
1	SUB - XO			5 1/4	2.25	3.49	114.81		0	AMEGA WEST		
1	MOTOR - STABILIZER SLEEVE			5	3.25	34.41	111.32		0	ALTITUDE ENERGY PARTNERS		
1	SUB - FILTER			5	3.25	4.92	76.91		0	STABIL DRILL		
1	ACCELERATOR			4 1/2	2.75	18.36	71.99		0	TOMAX		
1	STABILIZER			5	2.69	5.71	53.63		0	STABIL DRILL		
1	DRILL COLLAR - NON MAG			5 1/8	2.81	28.74	47.92		0	GORDON		
1	SUB - UBHO			5 1/4	2.31	3.50	19.18		0	GORDON		
1	RSS TOOL			4 3/4	2.50	14.88	15.68		0	SCHLUMBERGER		
Mud Motors												
SN		Bend Angle		Bearing Type		Lobe Config		# Stages		Lwr Defin Type		Bit To Bend
5025		0		NOT SEALED		7:8		7				0
Sensors												
Sensor Type			Sensor-Bit (ft)				Note					
GAMMA			31.10									
Daily Drilling Report												
Page 1/3						Printed: Monday, October 11, 2021						

Daily Drilling Report

Sensors																				
Sensor Type				Sensor-Bit (ft)						Note										
DIRECTIONAL				37.00																
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	03:30	16,273.0	1,759.00	81.8	34	110	675.0	340	4,288.0	81.0	201	215	195	201	16.0	9.0				
03:30	04:00	18,032.0	0.00		0	0	0.0	340	4,288.0	0.0	201	215	195	201	0.0	9.0				
04:00	06:00	18,032.0	125.00	62.5	35	110	675.0	340	4,288.0	63.0	201	215	195	201	16.0	9.0				
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)		
13.50	15.24		115.4		3.2		218.1		581.9		9.5		463.0		190.94		147.65	475.57		
Mud Checks																				
Time 01:15		Mud Company PIONEER DRILLING FLUIDS					Type OIL BASE			Depth (ftKB) 17,553.0		Density (lb/gal) 13.50		Funnel Viscosity (s/qt) 48		T Flowline (°F) 128.0				
PV (cP) 17.0		YP (lb/100ft²) 14.000		Vis 3rpm 8		Vis 6rpm 8		Filtrate (mL/30min)		HTHP Filtrate (mL/30min) 5.6		HTHP Temperature (°F) 250.0		HTHP Pressure (psi) 500.0						
Solids (%) 23.5				Low Gravity Solids (%) 3.1			Sand (%)			MBT (lb/bbl)		Pm (mL/mL)			Pf (mL/mL)					
Chlorides (mg/L) 38,000			Calcium (mg/L) 11,400			CaCl (ppm) 24,830		Oil Water Ratio 76/24		Electric Stab (V) 733.0			Lime (lb/bbl) 3.8			pH				
Gel 10 sec (lb/100ft²) 8.000						Gel 10 min (lb/100ft²) 10.000						Gel 30 min (lb/100ft²) 11.000								
Comment																				
Maintain MW 13.0-13.1 using barite. Runningdiesel at 8 sec/qt(2.67bbls/hr), Water at 15 sec/qt (1.43 bbls/hr). No additional treatment is needed at this time.																				
Last BOP Test																				
Date		Test Type				Item Tested				Next Test Date		Com								
10/7/2021		BOP				BOP'S, 8/18/2021 22:30, <class>				10/28/2021		Full BOP test 10,000								
Leak Off and Formation Integrity Tests																				
Test Type					Depth (ftKB)					Dens Fluid (lb/gal)										
FORMATION INTEGRITY										1,011.0					12.50					
FORMATION INTEGRITY										8,350.0					10.48					
FORMATION INTEGRITY										10,840.0					14.00					
Casing Pressure Test																				
Test Type			Test Subtype				Date		Item Tested				Failed?	Time (min)		P (psi)				
CASING			STANDARD				7/23/2021		SURFACE, 1,011.0ftKB				No	30.00		1,000.0				
CASING			STANDARD				10/31/2021		INTERMEDIATE, 8,353.0ftKB				No	30.00		2,500.0				
CASING			STANDARD				10/5/2021		INTERMEDIATE 2, 10,835.0ftKB				No	30.00		2,500.0				
Kick Offs & Key Depths																				
Date					Type					Top Depth (ftKB)				Depth Top (TVD) (ftKB)						
9/25/2021 12:00					KICK OFF					4,683.0				4,571.6						
10/5/2021 07:00					KICK OFF					10,925.0				10,858.1						
10/6/2021 00:45					HEEL					11,733.0				11,380.8						
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		1,011.0		1,010.8		13 3/8		J55		54.50		BTC		656.6						
INTERMEDIATE		8,353.0		8,289.8		9 5/8		L80-IC		40.00		BTC		4,509.6						
INTERMEDIATE 2		10,835.0		10,768.2		7 5/8		P110-IC		29.70		WEDGE 441		7,836.9						
Gas Emissions - Flare																				
Type		Method		Dur (min)		Amount		Units		Com										
Job Supply Amounts																				
Supply Item Des		Type		Unit Label		Received		Consumed		Returned		Note		Cum On Loc		Cum Consumed				
DIESEL		FUEL		GAL		6,155		2,686						11,965		63,340.0				
DIESEL		MUD		GAL		1,091		3,296						14,132		77,442.0				
Mud Additive Amounts																				
Des			Type			Units			Rec			Consumed			On Loc			Cum Cons		
BARITE-BULK			WEIGHTING MATERIAL			TON			18			8			61.21			160		
DRILL TREAT			OIL MUD ADDITIVE			GAL						5			63.0			87		
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		11.00		0.067			7,500.0					
Pump Checks																				
Pump #		Depth (ftKB)		Time		P (psi)		Strokes (spm)			Q Flow (gpm)			Eff (%)						
Deviation Surveys																				
Date 7/14/2021		Description AS DRILL SURVEY										Job ODR, 7/14/2021 06:00								
Date 9/25/2021		Description SIDETRACK										Job ODR, 7/14/2021 06:00								
Daily Drilling Report																				
Page 2/3										Printed: Monday, October 11, 2021										

Daily Drilling Report

UTL 1308A 4101H	
H & P - 487	
Accept: 8/18/2021	Release:
Days Since LTI: 397.00	Days Since RI: 397.00

DELAWARE	
Job:	ODR
Report Date:	10/11/2021
Report #:	33
DFS:	31
AFE #:	9015111
Total AFE + Sup:	\$4,412,374.71
Daily Field Est. (Cost):	\$82,515.67

Survey Data - All surveys for 24 hr reporting period							
MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
16,299.00	92.25	74.79	11,310.28	5,260.53	732.51	5,224.76	0.57
16,393.00	92.14	74.96	11,306.68	5,354.35	757.02	5,315.44	0.22
16,487.00	91.07	74.43	11,304.04	5,448.19	781.82	5,406.07	1.27
16,582.00	88.83	73.41	11,304.13	5,542.98	808.14	5,497.35	2.59
16,676.00	89.50	73.12	11,305.50	5,636.70	835.20	5,587.36	0.78
16,770.00	92.16	72.60	11,304.13	5,730.35	862.90	5,677.16	2.88
16,864.00	92.25	72.49	11,300.52	5,823.91	891.07	5,766.77	0.15
16,958.00	92.02	72.42	11,297.02	5,917.45	919.39	5,856.33	0.26
17,053.00	91.97	72.44	11,293.71	6,012.00	948.05	5,946.85	0.06
17,147.00	91.91	72.70	11,290.53	6,105.58	976.19	6,036.48	0.28
17,242.00	91.91	72.86	11,287.36	6,200.19	1,004.30	6,127.17	0.17
17,336.00	92.05	72.72	11,284.11	6,293.79	1,032.09	6,216.91	0.21
17,430.00	91.38	72.70	11,281.30	6,387.40	1,060.02	6,306.62	0.71
17,524.00	92.36	72.90	11,278.23	6,481.01	1,087.80	6,396.37	1.06
17,618.00	91.97	73.02	11,274.68	6,574.63	1,115.33	6,486.18	0.43
17,712.00	92.16	72.69	11,271.29	6,668.24	1,143.02	6,575.94	0.40
17,806.00	92.39	72.82	11,267.56	6,761.82	1,170.86	6,665.64	0.28
17,901.00	91.41	72.80	11,264.41	6,856.43	1,198.92	6,756.35	1.03
17,995.00	91.69	74.20	11,261.87	6,950.15	1,225.61	6,846.44	1.52

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)
270_0_WFMP_A1	-8,565.0		11,300.5	11,511.5	
TOT	-8,640.0		11,375.5		
BOT	-8,730.0		11,465.5		
FIRST TAKE POINT (FTP)	-8,675.0		11,410.5		
PBHL/TD	-8,590.0		11,325.5		

Daily Contacts				
Job Contact	Title	Office	Mobile	Email
COX, BRYAN, ENGINEER	ENGINEER	972-969-5717	361-318-4212	BRYAN.COX@PXD.COM
LINDBLAD, ALEXANDER, ENGINEER	ENGINEER	972-969-1749		ALEXANDER.LINDBLAD@PXD.COM
POLYA, JOE, AREA DRILLING SUPERINTENDENT	AREA DRILLING SUPERINTENDENT	432-413-6147	432-352-3155	JOE.POLYA@PXD.COM
BROWN, DAN, SUPERINTENDENT	SUPERINTENDENT		469-203-9731	DAN.BROWN@PXD.COM
WAGNON, TIM, SUPERINTENDENT	SUPERINTENDENT		409-489-2208	TIM.WAGNON@PXD.COM
PARTIN, BRENT, WELLSITE SUPERVISOR	WELLSITE SUPERVISOR		405-612-1577	BRENT.PARTIN@PXD.COM
FOWLER, TREY, WELLSITE SUPERVISOR	WELLSITE SUPERVISOR		409-489-2876	TREY.FOWLER@PXD.COM
HAYS, KAREN, MUD ENGINEER	MUD ENGINEER		970-215-0438	KAREN.HAYS@PXD.COM
TRUPE, CODY, MUD ENGINEER	MUD ENGINEER		405-664-3414	CODY.TRUPE@PXD.COM
RIG-H&P 487, RIG PHONE	RIG PHONE	432-200-0785		DL-HP487@PXD.COM

Personnel Log	
Company	Count
PIONEER NATURAL RESOURCES USA INC	4
HELMERICH & PAYNE INTERNATIONAL DRILLING CO	13
ALTITUDE ENERGY PARTNERS INC	2
GORDON TECHNOLOGIES LLC	1
DYNAMIC ENERGY SERVICES LLC	1
STRATAGRAPH INC	2

Daily Drilling Report

UTL 1308A 4101H				DELAWARE	
H & P - 487				Job:	ODR
Accept: 8/18/2021				Report Date:	10/12/2021
Days Since LTI: 398.00				Report #:	34
Release:				DFS:	32
Days Since RI: 398.00				AFE #:	9015111
				Total AFE + Sup:	\$4,412,374.71
				Daily Field Est. (Cost):	\$146,748.98

API/UWI 42-475-38217-0000		Well Profile HORIZONTAL		Open Formation WOLFCAMP A1 (WFMP A1)		Field Name PHANTOM (WOLFCAMP)					
SSN ID00056072		Property Sub	KB-Grd (ft) 26.50	Orig KB Elev (ft) 2,735.50	Ground Elevation (ft) 2,709.00	Spud Date 7/14/2021	TD Date				
Jobs											
Responsible Grp 2		Responsible Grp 3		Job Type	Start Date	End Date	Job Status				
DRL ENG - ALEXANDER LINDBLAD		AREA TEAM 2		ODR	7/14/2021 06:00		IN PROGRESS				
Job Dates (ex. Estimated Pad Release, TXRRC Calls)											
Type		Subtype		Date		Note					
MILESTONE		ESTIMATED PAD RELEASE		10/29/2021		3 well pad. Drilling 1st production on 3 well pad					
Daily Operations											
Footage/Meterage (ft) 1,977.00		Drilling Hours (hr) 23.50		% Rotating Time (%) 100.00	End Depth (ftKB) 20,134.0	Target Depth (ftKB) 22,083.0	Daily Field Est Total (Cost) 146,748.98	Cum Field Est To Date (Cost) 4,798,290.66			
24 HR ROP (ft/hr) 84.1	Circulating Hours (hr) 0.50	% Sliding Time (%) 0.00	End Depth (TVD) (ftKB) 11,183.3	Target Depth (TVD) (ftKB) 11,325.0	Daily Mud Field Est (Cost) 2,947.50	Cum Mud Field Est (Cost) 79,185.49	Total AFE + Sup (Cost) 4,412,374.71				
Daily Goal Description DRILLED FEET		Daily Goal - Last 24 1,800.0			Daily Goal - Next 24 1,941.0		Goal Comments Goal Met				
Backbuild Yes	Lateral Inclination Toe Up	Last Casing String INTERMEDIATE 2, 10,835.0ftKB				Next Casing String PRODUCTION, 22,066.0ftKB					
Avg Connection Gas 0.00		Avg Trip Gas 0.00		Avg Background Gas 122.00		Max Connection Gas 0.00		Max Trip Gas 0.00	Max Drill Gas 268.00		
Operations Summary Drlg production lateral F/18,157' T/ 20,134', (0% Sliding RSS , Avg DLS 1.88°, 6.61' Below, 0.76' Left Target Line #6 TVD 11,493.90' @ VS, 92.0 Inc Last survey= 20,009' Inc-92.00 Azm-72.73											
Operations Next Report Period Drlg production lateral F/20,134 ' T/22,083(TD) 'W/ no HSE events											
Operations at Report Time Drlg Production T/ 20,134'/Full crews											
Remarks Daily NPT: 1.5, Rig: 0 , 3rd: 0 PNR: 0 Cum. NPT: 1.5, Rig: 0, 3rd: 0, PNR: 0 Surface: 100% Intermediate #1= 100% Intermediate #2: 100% Curve: 100% Lateral: 81%											
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	22.25	04:15	PROD, DRL LAT	DRL	NORMAL	Drill 6 3/4" Lateral F/ 18,157' T/ 20,009', 1,852', 84 fph. 100-110 rpm, 30-35k wob, 340 gpm, 750 diff, 10 -15k tq	18,157.0	20,009.0			
04:15	0.5	04:45	PROD, DRL LAT	RIG_SVC	NORMAL	Rig service	20,009.0	20,009.0			
04:45	1.25	06:00	PROD, DRL LAT	DRL	NORMAL	Drill 6 3/4" Lateral F/ 20,009' T/ 20,134', 125', 100 fph. 100-110 rpm, 30-35k wob, 340 gpm, 750 diff, 10 -15k tq	20,009.0	20,134.0			
Drill Strings											
BHA #11 , PRODUCTION - LATERAL											
Bit Run 10			Drill Bit 6 3/4in, DD406T, 5320799				Bit Type PDC		Make GE/BAKER HUGHES		
Nozzles (1/32") 9/9/9/12/12/11			Bit Total Fluid Area (nozzles) (in²) 0.50		IADC Bit Dull -----		Hours Drilled By Bit (hr) 95.00		Depth Drilled By Bit (ft) 7,907.00		
BHA Drilling Time (hr) 95.00			BHA Depth Drilled (ft) 7,907.00		BHA ROP (ft/hr) 83.2		Depth In (ftKB) 12,227.0		Depth Out (ftKB) 20,134.0		
Drill String Components											
Jts	Item Des			OD (in)	ID (in)	Len (ft)	Cum Len (ft)	Wt (lbf)	Cum Wt (1000lbf)	Make	
183	DRILL PIPE			5	4.81	5,775.08	20,134.00	112,614.1	113	RIG	
1	SUB - XO			5 1/4	2.25	4.92	14,358.92		0	AMEGA WEST	
444	DRILL PIPE			5	2.75	13,952.31	14,354.00		0	RIG	
4	HWDP			4 1/2	2.75	123.92	401.69		0	RIG	
1	REAMER - DRILL N' REAM			5	3.13	8.40	277.77		0	DRILLING TOOLS INTERNATIONAL	
5	HWDP			4 1/2	2.75	154.56	269.37		0	RIG	
1	SUB - XO			5 1/4	2.25	3.49	114.81		0	AMEGA WEST	
1	MOTOR - STABILIZER SLEEVE			5	3.25	34.41	111.32		0	ALTITUDE ENERGY PARTNERS	
1	SUB - FILTER			5	3.25	4.92	76.91		0	STABIL DRILL	
1	ACCELERATOR			4 1/2	2.75	18.36	71.99		0	TOMAX	
1	STABILIZER			5	2.69	5.71	53.63		0	STABIL DRILL	
1	DRILL COLLAR - NON MAG			5 1/8	2.81	28.74	47.92		0	GORDON	
1	SUB - UBHO			5 1/4	2.31	3.50	19.18		0	GORDON	
1	RSS TOOL			4 3/4	2.50	14.88	15.68		0	SCHLUMBERGER	
Mud Motors											
SN	Bend Angle		Bearing Type		Lobe Config		# Stages		Lwr Def'n Type		Bit To Bend
5025	0		NOT SEALED		7:8		7				0
Sensors											
Sensor Type			Sensor-Bit (ft)			Note					
GAMMA			31.10								
DIRECTIONAL			37.00								
Daily Drilling Report											
Page 1/3					Printed: Tuesday, October 12, 2021						

Daily Drilling Report

H & P - 487

Accept: 8/18/2021

Days Since LTI: 398.00

Release:

Days Since RI: 398.00

DELAWARE

Job:

ODR

Report Date:

10/12/2021

Report #:

34

DFS:

32

AFE #:

9015111

Total AFE + Sup:

\$4,412,374.71

Daily Field Est. (Cost):

\$146,748.98

[illegible]

Daily Drilling Report

H & P - 487

Accept: 8/18/2021

Days Since LTI: 398.00

Release:

Days Since RI: 398.00

DELAWARE

Job:

ODR

Report Date:

10/12/2021

Report #:

34

DFS:

32

AFE #:

9015111

Total AFE + Sup:

\$4,412,374.71

Daily Field Est. (Cost):

\$146,748.98

Formations

Daily Contacts									
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Personnel Log

Daily Drilling Report

UTL 1308A 4101H				DELAWARE	
H & P - 487				Job:	ODR
Accept: 8/18/2021				Report Date:	10/13/2021
Days Since LTI: 399.00				Report #:	35
Release:				DFS:	33
Days Since RI: 399.00				AFE #:	9015111
				Total AFE + Sup:	\$4,412,374.71
				Daily Field Est. (Cost):	\$64,954.49

P/I/UWI 42-475-38217-0000		Well Profile HORIZONTAL		Open Formation WOLFCAMP A1 (WFMP A1)		Field Name PHANTOM (WOLFCAMP)											
SSN ID00056072		Property Sub		KB-Grd (ft) 26.50	Orig KB Elev (ft) 2,735.50	Ground Elevation (ft) 2,709.00	Spud Date 7/14/2021	TD Date									
Jobs																	
Responsible Grp 2		Responsible Grp 3		Job Type		Start Date		End Date		Job Status							
DRL ENG - ALEXANDER LINDBLAD		AREA TEAM 2		ODR		7/14/2021 06:00				IN PROGRESS							
Job Dates (ex. Estimated Pad Release, TXRRC Calls)																	
Type			Subtype			Date		Note									
MILESTONE			ESTIMATED PAD RELEASE			10/29/2021		3 well pad. Drilling 1st production on 3 well pad									
Daily Operations																	
Footage/Meterage (ft) 1,723.00		Drilling Hours (hr) 23.50		% Rotating Time (%) 100.00		End Depth (ftKB) 21,857.0		Target Depth (ftKB) 22,083.0		Daily Field Est Total (Cost) 64,954.49		Cum Field Est To Date (Cost) 4,863,245.15					
24 HR ROP (ft/hr) 73.3		Circulating Hours (hr) 0.50		% Sliding Time (%) 0.00		End Depth (TVD) (ftKB) 11,113.9		Target Depth (TVD) (ftKB) 11,325.0		Daily Mud Field Est (Cost) 2,848.50		Cum Mud Field Est (Cost) 82,033.99		Total AFE + Sup (Cost) 4,412,374.71			
Daily Goal Description DRILLED FEET				Daily Goal - Last 24 1,941.0				Daily Goal - Next 24 140.0				Goal Comments Goal Met					
Backbuild Yes		Lateral Inclination Toe Up		Last Casing String INTERMEDIATE 2, 10,835.0ftKB					Next Casing String PRODUCTION, 21,983.0ftKB								
Avg Connection Gas 0.00			Avg Trip Gas 0.00			Avg Background Gas 144.00			Max Connection Gas 0.00			Max Trip Gas 0.00			Max Drill Gas 307.00		
Operations Summary Drlg production lateral F/20,134 ' T/ 21,857', (0% Sliding RSS , Avg DLS 1.72°, 2.22' Above, 12.98' Right Target Line #6 TVD 11,493.90' @ VS, 92.0 Inc Last survey=21,703 ' Inc-92.17 Azm-74.22																	
Operations Next Report Period Control drlg K&M cycle F/ 21,857' T/ 21,997', @ 20 fph, TOO, L/D Lateral BHA, PWB, R/U Casing crew, RIH W/ 5 1/2 production casing ,W/ no HSE events																	
Operations at Report Time Drlg Production T/ 21,857'/Full crews																	
Remarks Daily NPT: 1.5, Rig: 0 , 3rd: 0 PNR: 0 Cum. NPT: 1.5, Rig: 0, 3rd: 0, PNR: 0 Surface: 100% Intermediate #1= 100% Intermediate #2: 100% Curve: 100% Lateral: 99%																	
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		22	04:00	PROD, DRL LAT	DRL	NORMAL	Drill 6 3/4" Lateral F/ 20,134' T/ 21,703', 1,569', 71' fph. 100-110 rpm, 30-35k wob, 340 gpm, 650 diff, 15 -20k tq				20,134.0	21,703.0					
04:00		0.5	04:30	PROD, DRL LAT	RIG_SVC	NORMAL	Rig service				21,703.0	21,703.0					
04:30		1.5	06:00	PROD, DRL LAT	DRL	NORMAL	Drill 6 3/4" Lateral F/ 21,703' T/ 21,857', 154', 102 fph. 100-110 rpm, 30-35k wob, 340 gpm, 650 diff, 15 -20k tq				21,703.0	21,857.0					
Drill Strings																	
BHA #11 , PRODUCTION - LATERAL																	
Bit Run 10				Drill Bit 6 3/4in, DD406T, 5320799					Bit Type PDC			Make GE/BAKER HUGHES					
Nozzles (1/32") 9/9/9/12/12/11				Bit Total Fluid Area (nozzles) (in²) 0.50			IADC Bit Dull -----			Hours Drilled By Bit (hr) 118.50			Depth Drilled By Bit (ft) 9,630.00				
BHA Drilling Time (hr) 118.50				BHA Depth Drilled (ft) 9,630.00			BHA ROP (ft/hr) 81.3			Depth In (ftKB) 12,227.0			Depth Out (ftKB) 21,857.0				
Drill String Components																	
Jts	Item Des				OD (in)	ID (in)	Len (ft)	Cum Len (ft)	Wt (lbf)	Cum Wt (1000lbf)	Make						
238	DRILL PIPE				5	4.81	7,498.08	21,857.00	146,212.6	146	RIG						
1	SUB - XO				5 1/4	2.25	4.92	14,358.92		0	AMEGA WEST						
444	DRILL PIPE				5	2.75	13,952.31	14,354.00		0	RIG						
4	HWDP				4 1/2	2.75	123.92	401.69		0	RIG						
1	REAMER - DRILL N' REAM				5	3.13	8.40	277.77		0	DRILLING TOOLS INTERNATIONAL						
5	HWDP				4 1/2	2.75	154.56	269.37		0	RIG						
1	SUB - XO				5 1/4	2.25	3.49	114.81		0	AMEGA WEST						
1	MOTOR - STABILIZER SLEEVE				5	3.25	34.41	111.32		0	ALTITUDE ENERGY PARTNERS						
1	SUB - FILTER				5	3.25	4.92	76.91		0	STABIL DRILL						
1	ACCELERATOR				4 1/2	2.75	18.36	71.99		0	TOMAX						
1	STABILIZER				5	2.69	5.71	53.63		0	STABIL DRILL						
1	DRILL COLLAR - NON MAG				5 1/8	2.81	28.74	47.92		0	GORDON						
1	SUB - UBHO				5 1/4	2.31	3.50	19.18		0	GORDON						
1	RSS TOOL				4 3/4	2.50	14.88	15.68		0	SCHLUMBERGER						
Mud Motors																	
SN		Bend Angle		Bearing Type		Lobe Config		# Stages		Lwr Def'n Type		Bit To Bend					
5025		0		NOT SEALED		7:8		7				0					
Sensors																	
Sensor Type				Sensor-Bit (ft)				Note									
GAMMA				31.10													
DIRECTIONAL				37.00													
Daily Drilling Report																	
Page 1/3																	
Printed: Wednesday, October 13, 2021																	

Daily Drilling Report

UTL 1308A 4101H	
H & P - 487	
Accept: 8/18/2021	Release:
Days Since LTI: 399.00	Days Since RI: 399.00

DELAWARE	
Job:	ODR
Report Date:	10/13/2021
Report #:	35
DFS:	33
AFE #:	9015111
Total AFE + Sup:	\$4,412,374.71
Daily Field Est. (Cost):	\$64,954.49

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	04:00	20,134.0	1,569.00	71.3	35	110	850.0	340	4,288.0	71.0	201	215	195	201	22.0	9.0	
04:00	04:30	21,703.0	0.00		0	0	0.0	340	4,288.0	0.0	201	215	195	201	0.0	0.0	
04:30	06:00	21,703.0	154.00	102.7	35	110	850.0	340	4,288.0	102.0	201	215	195	201	22.0	9.0	
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)							
12.95	15.32	110.7	3.1	218.1	558.2	9.5	463.0	274.09	221.56	475.57							
Mud Checks																	
Time	Mud Company				Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (°F)								
01:15	PIONEER DRILLING FLUIDS				OIL BASE	21,172.0	12.95	51	133.0								
PV (cP)	YP (lbf/100ft²)	Vis 3rpm	Vis 6rpm	Filtrate (mL/30min)	HTHP Filtrate (mL/30min)	HTHP Temperature (°F)	HTHP Pressure (psi)										
18.0	14.000	7	8		6.8	250.0	500.0										
Solids (%)	Low Gravity Solids (%)		Sand (%)		MBT (lb/bbl)	Pm (mL/mL)	Pf (mL/mL)										
25.5	7.8																
Chlorides (mg/L)	Calcium (mg/L)	CaCl (ppm)	Oil Water Ratio	Electric Stab (V)	Lime (lb/bbl)	pH											
37,000	6,800	25,000	77/23	638.0	2.7												
Gel 10 sec (lbf/100ft²)	Gel 10 min (lbf/100ft²)				Gel 30 min (lbf/100ft²)												
8.000	10.000				11.000												
Comment																	
Maintain 13.1 ppg MW w/ barite ; Vis 45-55: Add 35 sx Lime (8ppb fluid additions, .75ppb active system), 1 drum EZ Mul (5.9ppb fluid additions), Diesel at 4.8 secs/qt (4.5 bbls/hr), Water at 14.3 secs/qt (1.5 bbls/hr).																	
Last BOP Test																	
Date	Test Type			Item Tested	Next Test Date	Com											
10/7/2021	BOP			BOP'S, 8/18/2021 22:30, <class>	10/28/2021	Full BOP test 10,000											
Leak Off and Formation Integrity Tests																	
Test Type				Depth (ftKB)				Dens Fluid (lb/gal)									
FORMATION INTEGRITY				1,011.0				12.50									
FORMATION INTEGRITY				8,350.0				10.48									
FORMATION INTEGRITY				10,840.0				14.00									
Casing Pressure Test																	
Test Type		Test Subtype			Date	Item Tested	Failed?	Time (min)	P (psi)								
CASING		STANDARD			7/23/2021	SURFACE, 1,011.0ftKB	No	30.00	1,000.0								
CASING		STANDARD			10/31/2021	INTERMEDIATE, 8,353.0ftKB	No	30.00	2,500.0								
CASING		STANDARD			10/5/2021	INTERMEDIATE 2, 10,835.0ftKB	No	30.00	2,500.0								
Kick Offs & Key Depths																	
Date				Type			Top Depth (ftKB)			Depth Top (TVD) (ftKB)							
9/25/2021 12:00				KICK OFF			4,683.0			4,571.6							
10/5/2021 07:00				KICK OFF			10,925.0			10,858.1							
10/6/2021 00:45				HEEL			11,733.0			11,380.8							
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	1,011.0		1,010.8		13 3/8	J55	54.50		BTC		656.6						
INTERMEDIATE	8,353.0		8,289.8		9 5/8	L80-IC	40.00		BTC		4,509.6						
INTERMEDIATE 2	10,835.0		10,768.2		7 5/8	P110-IC	29.70		WEDGE 441		7,836.9						
Gas Emissions - Flare																	
Type		Method		Dur (min)	Amount	Units	Com										
Job Supply Amounts																	
Supply Item Des		Type	Unit Label	Received	Consumed	Returned	Note				Cum On Loc	Cum Consumed					
DIESEL		FUEL	GAL		3,385						7,721	69,763.0					
DIESEL		MUD	GAL		5,266						11,748	84,878.0					
Mud Additive Amounts																	
Des			Type	Units	Rec	Consumed	On Loc		Cum Cons								
BARITE-BULK			WEIGHTING MATERIAL	TON		7	39.21		182								
EZ MUL			OIL MUD ADDITIVE	GAL		2	15.0		3								
LIME			ALKALINITY CONTROL	SACK		90	150.0		230								
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	11.00	0.067			7,500.0							
Pump Checks																	
Pump #	Depth (ftKB)	Time	P (psi)	Strokes (spm)	Q Flow (gpm)			Eff (%)									
Deviation Surveys																	
Date	Description										Job						
7/14/2021	AS DRILL SURVEY										ODR, 7/14/2021 06:00						
Date	Description										Job						
9/25/2021	SIDETRACK										ODR, 7/14/2021 06:00						
Daily Drilling Report																	

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Printed: Wednesday, October 13, 2021

Daily Drilling Report

UTL 1308A 4101H

H & P - 487

Accept: 8/18/2021

Release:

Days Since LTI: 399.00

Days Since RI: 399.00

DELAWARE

ODR

Report Date:

10/13/2021

Report #:

35

DFS:

33

AFE #:

9015111

Total AFE + Sup:

\$4,412,374.71

Daily Field Est. (Cost):

\$64,954.49

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)
270_0_WFMP_A1	-8,565.0		11,300.5	11,511.5	
TOT	-8,640.0		11,375.5		
BOT	-8,730.0		11,465.5		
FIRST TAKE POINT (FTP)	-8,675.0		11,410.5		
PBHL/TD	-8,590.0		11,325.5		

Personnel Log	
Company	Count
PIONEER NATURAL RESOURCES USA INC	4
HELMERICH & PAYNE INTERNATIONAL DRILLING CO	13
ALTITUDE ENERGY PARTNERS INC	2
GORDON TECHNOLOGIES LLC	1
DYNAMIC ENERGY SERVICES LLC	1
STRATAGRAPH INC	2

Daily Drilling Report

UTL 1308A 4101H				DELAWARE	
H & P - 487				Job:	ODR
Accept: 8/18/2021				Report Date:	10/14/2021
Days Since LTI: 400.00				Report #:	36
Release:				DFS:	34
Days Since RI: 400.00				AFE #:	9015111
				Total AFE + Sup:	\$4,412,374.71
				Daily Field Est. (Cost):	\$59,167.28

P/I/UWI 42-475-38217-0000		Well Profile HORIZONTAL		Open Formation WOLFCAMP A1 (WFMP A1)		Field Name PHANTOM (WOLFCAMP)						
SSN ID00056072		Property Sub		KB-Grd (ft) 26.50	Orig KB Elev (ft) 2,735.50	Ground Elevation (ft) 2,709.00	Spud Date 7/14/2021	TD Date				
Jobs												
Responsible Grp 2		Responsible Grp 3		Job Type	Start Date		End Date		Job Status			
DRL ENG - ALEXANDER LINDBLAD		AREA TEAM 2		ODR	7/14/2021 06:00				IN PROGRESS			
Job Dates (ex. Estimated Pad Release, TXRRC Calls)												
Type			Subtype		Date		Note					
MILESTONE			ESTIMATED PAD RELEASE		10/29/2021		3 well pad. Drilling 1st production on 3 well pad					
Type TXRRC CALL			Subtype CEMENT PROD		Date 10/14/2021		Note Christina Opt#14					
Daily Operations												
Footage/Meterage (ft) 140.00		Drilling Hours (hr)		% Rotating Time (%)		End Depth (ftKB) 21,997.0		Target Depth (ftKB) 22,083.0		Daily Field Est Total (Cost) 59,167.28	Cum Field Est To Date (Cost) 4,901,947.67	
24 HR ROP (ft/hr)		Circulating Hours (hr) 10.00		% Sliding Time (%)		End Depth (TVD) (ftKB) 11,109.0		Target Depth (TVD) (ftKB) 11,325.0		Daily Mud Field Est (Cost) 1,602.49	Cum Mud Field Est (Cost) 83,636.48	Total AFE + Sup (Cost) 4,412,374.71
Daily Goal Description DRILLED FEET				Daily Goal - Last 24 140.0				Daily Goal - Next 24 0.0		Goal Comments Goal not met due to NPT		
Backbuild Yes		Lateral Inclination Toe Up		Last Casing String INTERMEDIATE 2, 10,835.0ftKB					Next Casing String PRODUCTION, 21,983.0ftKB			
Avg Connection Gas 0.00		Avg Trip Gas 0.00		Avg Background Gas 115.00		Max Connection Gas 0.00		Max Trip Gas 0.00		Max Drill Gas 144.00		
Operations Summary Control drlg K&M cycle F/ 21,857' T/ 21,997', @ 20 fph, Circ 1 extra B/U, TOO H T/6,100',(0% Sliding RSS , Avg DLS 1.68°, 2.67' Above, 17' Right, Target Line #6, TVD 11,493.90' @ VS, 92.0 Inc., W/ no HSE events												
Last survey=21,997' Inc-92.14 Azm-74.69												
Operations Next Report Period TOOH, L/D lateral BHA, PWB, R/U casing crew, M/U F/E and test, TIH with 5 1/2 production casing T/ 21,983', W/ no HSE events												
Operations at Report Time TOOH @ 6,100'/Full crews												
Remarks Daily NPT: 1.5, Rig: 0 , 3rd: 5 PNR: 0 Cum. NPT: 1.5, Rig: 0, 3rd: 5, PNR: 0 Surface: 100% Intermediate #1= 100% Intermediate #2: 100% Curve: 100% Lateral: 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	7.5	13:30	PROD, POST DRL	DRL_K&M	NORMAL	K&M Clean up cycle; Pumping 340 gpm; Rotating @ 100 rpm; 100% Returns Note: Drilling F/ 21,857' T/ 21,997' @ 20 fph	21,857.0	21,997.0				
13:30	2.5	16:00	PROD, POST DRL	K&M_CLEANUP	NORMAL	K&M Clean up cycle; Pumping 340 gpm; Rotating @ 100 rpm; 100% Returns for 1 bottoms up until shakers clean.	21,997.0	21,997.0				
16:00	0.25	16:15	PROD, POST DRL	FLOW_CHK	NORMAL	Flow check, well static.	21,997.0	21,997.0				
16:15	3.5	19:45	PROD, POST DRL	3RD_PTY	NORMAL	Trouble shoot MPD with Weatherford rep. The motor on the MPD would not function, C/O motor, Attempt to use MPD holding 200 psi and the fill up line blew on stack. C/O 2" fill up hose and close ball valve before hose on stack side,	21,997.0	21,997.0	3.50	17		
19:45	1.5	21:15	PROD, POST DRL	HDL_ROT HD	NORMAL	C/O rotating head and bowl gasket When changing out could not get pipe to slide through new rubber, Rebuild old rotating head assembly and install	21,997.0	21,997.0				
21:15	0.25	21:30	PROD, POST DRL	SFTY	NORMAL	PJSM over tripping out of hole	21,997.0	21,997.0				
21:30	0.75	22:15	PROD, POST DRL	TOOH_ELEV	NORMAL	TOOH F/ 21,997' T/ 21,063', Holding 200 psi with MPD @ 243 gpm with rig pumps	21,997.0	21,997.0				
22:15	0.25	22:30	PROD, POST DRL	CIRC	NORMAL	Pump slug	21,997.0	21,997.0				
22:30	2.25	00:45	PROD, POST DRL	TOOH_ELEV	NORMAL	TOOH F/ 21,063' T/ 17,182', Holding 200 psi with MPD Following recommended trip speeds 21,007-20,700'- 50'/min 20,700-19,400'- 100'/min 19,400'-17,200' 150'/min,,, After 17,200' hold 0 psi to surface	21,997.0	21,997.0				
00:45	1.5	02:15	PROD, POST DRL	TOOH_ELEV	NORMAL	TOOH F/ 17,182' T/ 14,282', Filling hole with trip tanks Following recommended trip speeds 200' fpm F/17,200' T/8,104' No limit on trip speed F/8,104' T/ surface	21,997.0	21,997.0				
Daily Drilling Report												
Page 1/4					Printed: Thursday, October 14, 2021							

Daily Drilling Report

DELAWARE	
Job:	ODR
Report Date:	10/14/2021
Report #:	36
DFS:	34
AFE #:	9015111
Total AFE + Sup:	\$4,412,374.71
Daily Field Est. (Cost):	\$59,167.28

Daily Drilling Report

Leak Off and Formation Integrity Tests										
Test Type		Depth (ftKB)			Dens Fluid (lb/gal)					
FORMATION INTEGRITY		1,011.0			12.50					
FORMATION INTEGRITY		8,350.0			10.48					
FORMATION INTEGRITY		10,840.0			14.00					
Casing Pressure Test										
Test Type		Test Subtype		Date		Item Tested		Failed?	Time (min)	P (psi)
CASING		STANDARD		7/23/2021		SURFACE, 1,011.0ftKB		No	30.00	1,000.0
CASING		STANDARD		10/31/2021		INTERMEDIATE, 8,353.0ftKB		No	30.00	2,500.0
CASING		STANDARD		10/5/2021		INTERMEDIATE 2, 10,835.0ftKB		No	30.00	2,500.0
Kick Offs & Key Depths										
Date		Type			Top Depth (ftKB)		Depth Top (TVD) (ftKB)			
9/25/2021 12:00		KICK OFF			4,683.0		4,571.6			
10/5/2021 07:00		KICK OFF			10,925.0		10,858.1			
10/6/2021 00:45		HEEL			11,733.0		11,380.8			
10/13/2021 13:30		TOE			21,997.0		11,109.0			
Casing Strings										
Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)			
CONDUCTOR	106.5	106.5	20	H40	78.67					
SURFACE	1,011.0	1,010.8	13 3/8	J55	54.50	BTC	656.6			
INTERMEDIATE	8,353.0	8,289.8	9 5/8	L80-IC	40.00	BTC	4,509.6			
INTERMEDIATE 2	10,835.0	10,768.2	7 5/8	P110-IC	29.70	WEDGE 441	7,836.9			
Gas Emissions - Flare										
Type	Method	Dur (min)	Amount	Units	Com					
Job Supply Amounts										
Supply Item Des	Type	Unit Label	Received	Consumed	Returned	Note	Cum On Loc	Cum Consumed		
DIESEL	FUEL	GAL		2,121			5,600	71,884.0		
DIESEL	MUD	GAL		1,686			10,062	86,564.0		
Mud Additive Amounts										
Des	Type	Units	Rec	Consumed	On Loc	Cum Cons				
BARITE-BULK	WEIGHTING MATERIAL	TON		4	35.27	186				
EZ MUL	OIL MUD ADDITIVE	GAL		1	14.0	4				
LIME	ALKALINITY CONTROL	SACK		60	90.0	290				
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	11.00	0.067	7,500.0			
Pump Checks										
Pump #	Depth (ftKB)	Time	P (psi)	Strokes (spm)	Q Flow (gpm)		Eff (%)			
Deviation Surveys										
Date 7/14/2021		Description AS DRILL SURVEY				Job ODR, 7/14/2021 06:00				
Date 9/25/2021		Description SIDETRACK				Job ODR, 7/14/2021 06:00				
Survey Data - All surveys for 24 hr reporting period										
MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)			
21,960.00	92.14	74.69	11,110.41	10,903.83	2,313.77	10,655.53	0.63			
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)			
270_0_WFMP_A1			-8,565.0		11,300.5	11,511.5				
TOT			-8,640.0		11,375.5					
BOT			-8,730.0		11,465.5					
FIRST TAKE POINT (FTP)			-8,675.0		11,410.5					
PBHL/TD			-8,590.0		11,325.5					
Daily Contacts										
Job Contact		Title	Office	Mobile	Email					
COX, BRYAN, ENGINEER		ENGINEER	972-969-5717	361-318-4212	BRYAN.COX@PXD.COM					
LINDBLAD, ALEXANDER, ENGINEER		ENGINEER	972-969-1749		ALEXANDER.LINDBLAD@PXD.COM					
POLYA, JOE, AREA DRILLING SUPERINTENDENT		AREA DRILLING SUPERINTENDENT	432-413-6147	432-352-3155	JOE.POLYA@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					
WHITE, JOHN, WELLSITE SUPERVISOR		WELLSITE SUPERVISOR		337-353-5797	JOHN.WHITE@PXD.COM					
FOWLER, TREY, WELLSITE SUPERVISOR		WELLSITE SUPERVISOR		409-489-2876	TREY.FOWLER@PXD.COM					
HAYS, KAREN, MUD ENGINEER		MUD ENGINEER		970-215-0438	KAREN.HAYS@PXD.COM					
TRUPE, CODY, MUD ENGINEER		MUD ENGINEER		405-664-3414	CODY.TRUPE@PXD.COM					
RIG-H&P 487, RIG PHONE		RIG PHONE	432-200-0785		DL-HP487@PXD.COM					
Daily Drilling Report										

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Printed: Thursday, October 14, 2021

Daily Drilling Report

H & P - 487	
Accept: 8/18/2021	Release:
Days Since LTI: 400.00	Days Since RI: 400.00

Job:	ODR
Report Date:	10/14/2021
Report #:	36
DFS:	34
AFE #:	9015111
Total AFE + Sup:	\$4,412,374.71
Daily Field Est. (Cost):	\$59,167.28

Personnel Log	
Company	Count
PIONEER NATURAL RESOURCES USA INC	4
HELMERICH & PAYNE INTERNATIONAL DRILLING CO	13
ALTITUDE ENERGY PARTNERS INC	2
GORDON TECHNOLOGIES LLC	1
DYNAMIC ENERGY SERVICES LLC	1
STRATAGRAPH INC	2
TENARIS GLOBAL SERVICES USA	2
TCI CASING SPECIALTIES LLC	5
WEATHERFORD INTERNATIONAL LLC	1

Daily Drilling Report

UTL 1308A 4101H				DELAWARE	
H & P - 487				Job:	ODR
Accept: 8/18/2021				Report Date:	10/15/2021
Days Since LTI: 401.00				Report #:	37
Release:				DFS:	35
Days Since RI: 401.00				AFE #:	9015111
				Total AFE + Sup:	\$4,412,374.71
				Daily Field Est. (Cost):	\$107,920.99

API/UWI 42-475-38217-0000		Well Profile HORIZONTAL		Open Formation WOLFCAMP A1 (WFMP A1)		Field Name PHANTOM (WOLFCAMP)				
SSN ID00056072		Property Sub	KB-Grd (ft) 26.50	Orig KB Elev (ft) 2,735.50	Ground Elevation (ft) 2,709.00	Spud Date 7/14/2021	TD Date 10/13/2021			
Jobs										
Responsible Grp 2 DRL ENG - ALEXANDER LINDBLAD		Responsible Grp 3 AREA TEAM 2		Job Type ODR	Start Date 7/14/2021 06:00	End Date	Job Status IN PROGRESS			
Job Dates (ex. Estimated Pad Release, TXRRRC Calls)										
Type			Subtype		Date	Note				
MILESTONE			ESTIMATED PAD RELEASE		10/29/2021	3 well pad. Running production pipe on 1st well on 3 well pad				
Daily Operations										
Footage/Meterage (ft) 0.00		Drilling Hours (hr)		% Rotating Time (%)	End Depth (ftKB) 21,997.0	Target Depth (ftKB) 22,083.0	Daily Field Est Total (Cost) 107,920.99	Cum Field Est To Date (Cost) 5,009,158.47		
24 HR ROP (ft/hr)		Circulating Hours (hr)		% Sliding Time (%)	End Depth (TVD) (ftKB) 11,109.0	Target Depth (TVD) (ftKB) 11,325.0	Daily Mud Field Est (Cost) 3,880.10	Cum Mud Field Est (Cost) 86,709.88	Total AFE + Sup (Cost) 4,412,374.71	
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 Up	Last Casing String INTERMEDIATE 2, 10,835.0ftKB				Next Casing String PRODUCTION, 21,983.0ftKB			
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, L/D lateral BHA, PWB, R/U casing crew, M/U F/E and test, TIH with 5 1/2 production casing T/ 20,920', W/ no HSE events										
Operations Next Report Period Continue running 5.5" casing T/ 21,983', 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 to UTL 1308C 4104H, W/ no HSE events										
Operations at Report Time RIH with 5 1/2 production csg T/20,920'/ 2 full crews										
Remarks Daily NPT: 1.5, Rig: 0 , 3rd: 5 PNR: 0 Cum. NPT: 1.5, Rig: 0, 3rd: 5, PNR: 0 Surface: 100% Intermediate #1= 100% Intermediate #2: 100% Curve: 100% Lateral: 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	1.75	07:45	PROD, POST DRL	TOOH_ELEV	NORMAL	TOOH F/6100' T/435', Hole taking proper fill	21,997.0	21,997.0		
07:45	0.25	08:00	PROD, POST DRL	HDL_ROTHTD	NORMAL	Pull Rotating Head	21,997.0	21,997.0		
08:00	0.5	08:30	PROD, POST DRL	TOOH_ELEV	NORMAL	TOOH F/435' T/114', Hole taking proper fill	21,997.0	21,997.0		
08:30	0.25	08:45	PROD, POST DRL	SFTY	NORMAL	HPJSM on laying down lateral BHA	21,997.0	21,997.0		
08:45	1	09:45	PROD, POST DRL	LD_DIR	NORMAL	Lay down lateral BHA	21,997.0	21,997.0		
09:45	0.5	10:15	PROD, POST DRL	WRBSH	NORMAL	Pull wear bushing, clean rig floor of OBM	21,997.0	21,997.0		
10:15	0.25	10:30	PROD, POST DRL	SFTY	NORMAL	HPJSM W/ TCI, Tenaris, Weatherford, Texas Torque Turn, H&P and PNR on R/U & Running 5.5" production casing	21,997.0	21,997.0		
10:30	1.5	12:00	PROD, CASE & CMT	RU_CSG	NORMAL	R/U TCI 5.5" casing equipment	21,997.0	21,997.0		
12:00	0.25	12:15	PROD, CASE & CMT	MU_SHOE_TR K	NORMAL	M/U shoe track and pump through, floats opened	21,997.0	21,997.0		
12:15	17.75	06:00	PROD, CASE & CMT	CSG_W/O ROTATION	NORMAL	Run production casing F/ 44' T/ 20,920', monitor well on trip tank, hole displacing properly. Floating casing, no filling till P/U airlock. After airlock fill with hose on fly topping off every 40 joints	21,997.0	21,997.0		
Drill Strings										
BHA #11 , PRODUCTION - LATERAL										
Bit Run 10			Drill Bit 6 3/4in, DD406T, 5320799			Bit Type PDC		Make GE/BAKER HUGHES		
Nozzles (1/32") 9/9/9/12/12/11			Bit Total Fluid Area (nozzles) (in²) 0.50		IADC Bit Dull 2-2-CT-S-X-1-WT-TD		Hours Drilled By Bit (hr) 118.50		Depth Drilled By Bit (ft) 9,770.00	
BHA Drilling Time (hr) 118.50			BHA Depth Drilled (ft) 9,770.00		BHA ROP (ft/hr) 82.4		Depth In (ftKB) 12,227.0		Depth Out (ftKB) 21,997.0	
Drill String Components										
Jts	Item Des			OD (in)	ID (in)	Len (ft)	Cum Len (ft)	Wt (lbf)	Cum Wt (1000lbf)	Make
238	DRILL PIPE			5	4.81	7,638.08	21,997.00	148,942.6	149	RIG
1	SUB - XO			5 1/4	2.25	4.92	14,358.92		0	AMEGA WEST
444	DRILL PIPE			5	2.75	13,952.31	14,354.00		0	RIG
4	HWDP			4 1/2	2.75	123.92	401.69		0	RIG
Daily Drilling Report										
Page 1/3					Printed: Friday, October 15, 2021					

Daily Drilling Report

UTL 1308A 4101H			
H & P - 487			
Accept: 8/18/2021		Release:	
Days Since LTI: 401.00		Days Since RI: 401.00	

DELAWARE		Job:	ODR
		Report Date:	10/15/2021
		Report #:	37
		DFS:	35
		AFE #:	9015111
		Total AFE + Sup:	\$4,412,374.71
		Daily Field Est. (Cost):	\$107,920.99

Drill String Components										
Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)	Wt (lb)	Cum Wt (1000lb)	Make		
1	REAMER - DRILL N' REAM	5	3.13	8.40	277.77		0	DRILLING TOOLS INTERNATIONAL		
5	HWDP	4 1/2	2.75	154.56	269.37		0	RIG		
1	SUB - XO	5 1/4	2.25	3.49	114.81		0	AMEGA WEST		
1	MOTOR - STABILIZER SLEEVE	5	3.25	34.41	111.32		0	ALTITUDE ENERGY PARTNERS		
1	SUB - FILTER	5	3.25	4.92	76.91		0	STABIL DRILL		
1	ACCELERATOR	4 1/2	2.75	18.36	71.99		0	TOMAX		
1	STABILIZER	5	2.69	5.71	53.63		0	STABIL DRILL		
1	DRILL COLLAR - NON MAG	5 1/8	2.81	28.74	47.92		0	GORDON		
1	SUB - UBHO	5 1/4	2.31	3.50	19.18		0	GORDON		
1	RSS TOOL	4 3/4	2.50	14.88	15.68		0	SCHLUMBERGER		
Mud Motors										
SN		Bend Angle	Bearing Type	Lobe Config	# Stages	Lwr Defln Type		Bit To Bend		
5025		0	NOT SEALED	7:8	7			0		
Sensors										
Sensor Type		Sensor-Bit (ft)			Note					
GAMMA		31.10								
DIRECTIONAL		37.00								
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 01:00		Mud Company PIONEER DRILLING FLUIDS			Type OIL BASE		Depth (ftKB) 21,997.0		Density (lb/gal) 13.20	
Funnel Viscosity (s/qt) 60		T Flowline (°F) 0.0		PV (cP) 19.0		YP (lb/100ft²) 11.000		Vis 3rpm 5		Vis 6rpm 6
Filtrate (mL/30min)		HTHP Filtrate (mL/30min) 8.0		HTHP Temperature (°F) 250.0		HTHP Pressure (psi) 500.0				
Solids (%) 26.5		Low Gravity Solids (%) 8.3		Sand (%)		MBT (lb/bbl)		Pm (mL/mL)		Pf (mL/mL)
Chlorides (mg/L) 33,000		Calcium (mg/L) 7,000		CaCl (ppm) 22,790		Oil Water Ratio 76/24		Electric Stab (V) 796.0		Lime (lb/bbl) 2.3
pH		Gel 10 sec (lb/100ft²) 6.000		Gel 10 min (lb/100ft²) 8.000		Gel 30 min (lb/100ft²) 9.000				
Comment Maintain 13-13.1ppg using barite. Once circulating through casing, add 35 sx Lime (1.22 ppb active system), Diesel at 3.3 secs/qt (6.5bbls/hr).										
Last BOP Test										
Date		Test Type		Item Tested		Next Test Date		Com		
10/7/2021		BOP		BOP'S, 8/18/2021 22:30, <class>		10/28/2021		Full BOP test 10,000		
Leak Off and Formation Integrity Tests										
Test Type		Depth (ftKB)				Dens Fluid (lb/gal)				
FORMATION INTEGRITY		1,011.0				12.50				
FORMATION INTEGRITY		8,350.0				10.48				
FORMATION INTEGRITY		10,840.0				14.00				
Casing Pressure Test										
Test Type		Test Subtype		Date		Item Tested		Failed?		P (psi)
CASING		STANDARD		7/23/2021		SURFACE, 1,011.0ftKB		No		30.00
CASING		STANDARD		10/31/2021		INTERMEDIATE, 8,353.0ftKB		No		30.00
CASING		STANDARD		10/5/2021		INTERMEDIATE 2, 10,835.0ftKB		No		30.00
Kick Offs & Key Depths										
Date		Type			Top Depth (ftKB)		Depth Top (TVD) (ftKB)			
9/25/2021 12:00		KICK OFF			4,683.0		4,571.6			
10/5/2021 07:00		KICK OFF			10,925.0		10,858.1			
10/6/2021 00:45		HEEL			11,733.0		11,380.8			
10/13/2021 13:30		TOE			21,997.0		11,109.0			
Casing Strings										
Description		Set Depth (ftKB)		Set Depth (TVD) (ftKB)		OD (in)		Grade		Wt/Len (lb/ft)
CONDUCTOR		106.5		106.5		20		H40		78.67
SURFACE		1,011.0		1,010.8		13 3/8		J55		54.50
INTERMEDIATE		8,353.0		8,289.8		9 5/8		L80-IC		40.00
INTERMEDIATE 2		10,835.0		10,768.2		7 5/8		P110-IC		29.70
WEDGE 441										
Gas Emissions - Flare										
Type		Method		Dur (min)		Amount		Units		Com
Job Supply Amounts										
Supply Item Des		Type		Unit Label		Received		Consumed		Returned
DIESEL		FUEL		GAL		6,357		1,389		
DIESEL		MUD		GAL		8,120		1,026		
Mud Additive Amounts										
Des		Type		Units		Rec		Consumed		On Loc
BARABLOK		FLUID LOSS ADDITIVES		SACK		200		20		180.0
CALCIUM CHLORIDE		SALT		SACK				60		100.0
Daily Drilling Report					Page 2/3			Printed: Friday, October 15, 2021		

Daily Drilling Report

H & P - 487	
Accept: 8/18/2021	Release:
Days Since LTI: 401.00	Days Since RI: 401.00

Job:	ODR
Report Date:	10/15/2021
Report #:	37
DFS:	35
AFE #:	9015111
Total AFE + Sup:	\$4,412,374.71
Daily Field Est. (Cost):	\$107,920.99

This image shows a completely blank white rectangular area enclosed within a thin black border. There are no markings, text, or illustrations present on the page.

Daily Drilling Report

UTL 1308A 4101H				DELAWARE	
H & P - 487				Job:	ODR
Accept: 8/18/2021		Release: 10/15/2021		Report Date:	10/15/2021
Days Since LTI: 402.00		Days Since RI: 402.00		Report #:	38
				DFS:	35
				AFE #:	9015111
				Total AFE + Sup:	\$4,412,374.71
				Daily Field Est. (Cost):	\$848,654.23

PWI/UWI 42-475-38217-0000		Well Profile HORIZONTAL		Open Formation WOLFCAMP A1 (WFMP A1)		Field Name PHANTOM (WOLFCAMP)				
SSN ID00056072		Property Sub		KB-Grd (ft) 26.50	Orig KB Elev (ft) 2,735.50	Ground Elevation (ft) 2,709.00	Spud Date 7/14/2021	TD Date 10/13/2021		
Jobs										
Responsible Grp 2		Responsible Grp 3		Job Type	Start Date		End Date	Job Status		
DRL ENG - ALEXANDER LINDBLAD		AREA TEAM 2		ODR	7/14/2021 06:00		10/15/2021 17:30	COMPLETE		
Job Dates (ex. Estimated Pad Release, TXRRC Calls)										
Type			Subtype		Date		Note			
MILESTONE			ESTIMATED PAD RELEASE		10/29/2021		3 well pad 1st complete well on 3 well pad			
Daily Operations										
Footage/Meterage (ft) 0.00		Drilling Hours (hr)		% Rotating Time (%)		End Depth (ftKB) 21,997.0	Target Depth (ftKB) 22,083.0	Daily Field Est Total (Cost) 848,654.23	Cum Field Est To Date (Cost) 5,858,797.70	
24 HR ROP (ft/hr)		Circulating Hours (hr)		% Sliding Time (%)		End Depth (TVD) (ftKB) 11,109.0	Target Depth (TVD) (ftKB) 11,325.0	Daily Mud Field Est (Cost) 86,709.88	Cum Mud Field Est (Cost) 4,412,374.71	
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 Up		Last Casing String PRODUCTION, 21,983.0ftKB			Next Casing String PRODUCTION, 21,983.0ftKB			
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/ 21,983', 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 @ 17:30 10/15/2021 to UTL 1308C 4104H, W/ no HSE events										
Operations Next Report Period Rig Released to UTL 1308C 4104H										
Operations at Report Time Rig Released to UTL 1308C 4104H										
Remarks Daily NPT: 1.5, Rig: 0 , 3rd: 5 PNR: 0 Cum. NPT: 1.5, Rig: 0, 3rd: 5, PNR: 0 Surface: 100% Intermediate #1= 100% Intermediate #2: 100% Curve: 100% Lateral: 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	0.75	06:45	PROD, CASE & CMT	CSG_W/O ROTATION	NORMAL	Run production casing F/ 20,920' T/ 21,983', monitor well on trip tank, hole displacing properly. Floating casing.	21,997.0	21,997.0		
06:45	0.5	07:15	PROD, CASE & CMT	RD_CSG	NORMAL	Rig Down casing equipment	21,997.0	21,997.0		
07:15	0.25	07:30	PROD, CASE & CMT	RU_CMT	NORMAL	Rig up cement equipment	21,997.0	21,997.0		
07:30	4	11:30	PROD, CASE & CMT	CIRC	NORMAL	Bust airlock and burp, let air and fluid swap. Circulate STS	21,997.0	21,997.0		
11:30	4.25	15:45	PROD, CASE & CMT	CMT	NORMAL	Test lines 7,500 psi. Pump 50 Bbl's Spacer (13.2 ppg). Pump 388 bbls of tail @ 13.5 ppg, 466 bbl fresh water displacment. Bump plug @ 15:45 , Held 1500 psi over @ 5435 psi for 5 mins, Bled back 9 bbls, Floats held. Full returns through job Lift pressures 50=3015 psi =6 bpm 100=3346 psi= 150=3948 psi= 200=4451 psi= 250=4857 psi= 300=4938 psi= 350=4966 psi= 400=4938 psi = 450=3850 psi=3 bpm 466=3850 psi=3 bpm	21,997.0	21,997.0		
15:45	0.25	16:00	DEMOB, RIG DOWN	RD_CMT	NORMAL	Rig down cementers	21,997.0	21,997.0		
16:00	0.75	16:45	DEMOB, RIG DOWN	WH	NORMAL	L/D landing joint, install pack off and test	21,997.0	21,997.0		
16:45	0.5	17:15	DEMOB, RIG DOWN	ND_BOPE	NORMAL	Nipple down BOPE	21,997.0	21,997.0		
17:15	0.25	17:30	DEMOB, RIG DOWN	WH	NORMAL	Set TA cap Release Rig to UTL 1308C 4104H @ 17:30 hrs.	21,997.0	21,997.0		
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)
Daily Drilling Report										
Page 1/3					Printed: Saturday, October 16, 2021					

Daily Drilling Report

H & P - 487

DELAWARE

Job:	ODR
Report Date:	10/15/2021
Report #:	38
DFS:	35
AFE #:	9015111
Total AFE + Sup:	\$4,412,374.71
Daily Field Est. (Cost):	\$848,654.23

Mud Checks															
Time 01:00		Mud Company PIONEER DRILLING FLUIDS			Type OIL BASE		Depth (ftKB) 11,128.0		Density (lb/gal) 13.05		Funnel Viscosity (s/qt) 56		T Flowline (°F) 0.0		
PV (cP) 19.0	YP (lb/100ft²) 13.000	Vis 3rpm 7	Vis 6rpm 7	Filtrate (mL/30min)		HTHP Filtrate (mL/30min) 8.0		HTHP Temperature (°F) 250.0		HTHP Pressure (psi) 500.0					
Solids (%) 25.5		Low Gravity Solids (%) 7.4		Sand (%)		MBT (lb/bbl)		Pm (mL/mL)		Pf (mL/mL)					
Chlorides (mg/L) 34,000		Calcium (mg/L) 7,000		CaCl (ppm) 22,000	Oil Water Ratio 76/24		Electric Stab (V) 738.0		Lime (lb/bbl) 3.9		pH				
Gel 10 sec (lb/100ft²) 8.000				Gel 10 min (lb/100ft²) 10.000				Gel 30 min (lb/100ft²) 11.000							
Comment Maintain mw of 13ppg using barite. Add 12 sx Lime (8.33ppb fluid additions), 1 drum Invermul (5.97 ppb fluid additions), Add Diesel at 4.5 secs/qt (4.8 bbls/hr), Water at 17.9 secs/qt (1.2 bbls/hr).															
Last BOP Test															
Date	Test Type			Item Tested		Next Test Date		Com							
10/7/2021	BOP			BOP'S, 8/18/2021 22:30, <class>		10/28/2021		Full BOP test 10,000							
Leak Off and Formation Integrity Tests															
Test Type				Depth (ftKB)				Dens Fluid (lb/gal)							
FORMATION INTEGRITY								1,011.0		12.50					
FORMATION INTEGRITY								8,350.0		10.48					
FORMATION INTEGRITY								10,840.0		14.00					
Casing Pressure Test															
Test Type		Test Subtype			Date		Item Tested		Failed?	Time (min)	P (psi)				
CASING		STANDARD			7/23/2021		SURFACE, 1,011.0ftKB		No	30.00	1,000.0				
CASING		STANDARD			10/31/2021		INTERMEDIATE, 8,353.0ftKB		No	30.00	2,500.0				
CASING		STANDARD			10/5/2021		INTERMEDIATE 2, 10,835.0ftKB		No	30.00	2,500.0				
Kick Offs & Key Depths															
Date				Type			Top Depth (ftKB)			Depth Top (TVD) (ftKB)					
9/25/2021 12:00				KICK OFF			4,683.0			4,571.6					
10/5/2021 07:00				KICK OFF			10,925.0			10,858.1					
10/6/2021 00:45				HEEL			11,733.0			11,380.8					
10/13/2021 13:30				TOE			21,997.0			11,109.0					
Casing Strings															
Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)								
CONDUCTOR	106.5	106.5	20	H40	78.67										
SURFACE	1,011.0	1,010.8	13 3/8	J55	54.50	BTC	656.6								
INTERMEDIATE	8,353.0	8,289.8	9 5/8	L80-IC	40.00	BTC	4,509.6								
INTERMEDIATE 2	10,835.0	10,768.2	7 5/8	P110-IC	29.70	WEDGE 441	7,836.9								
PRODUCTION	21,983.0	11,109.5	5 1/2	P110-IC	23.00	TSH625									
Cement															
PRODUCTION CASING CEMENT, Casing, 10/15/2021 11:30															
Cementing End Date 10/15/2021 15:45		Wellbore SIDETRACK 1		Technical Result		Comment Job went according to the plan.									
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	21,983.0	Yes	No	6	3	6	3,950.0	5,450.0	No	No	No
Cement Fluids															
Fluid Type MUDPUSH				Estimated Top (ftKB) 3,923.4		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) 21,858.9		Class TXI LITEWEIGHT		Yield (ft³/sack) 1.26		Density (lb/gal) 13.50			
Fluid Type DSPLMT				Estimated Top (ftKB) 21,858.9		Est Btm (ftKB) 0.0		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		552					10,016		73,825.0			
DIESEL		MUD	GAL		0					17,156		87,590.0			
WATER		FRESH	BBL	0	0		Meter reading 60123			0		33,379.0			
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	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	11.00		0.067		7,500.0				
Pump Checks															
Pump #	Depth (ftKB)	Time	P (psi)	Strokes (spm)		Q Flow (gpm)			Eff (%)						
Deviation Surveys															
Date 7/14/2021		Description AS DRILL SURVEY								Job ODR, 7/14/2021 06:00					
Date 9/25/2021		Description SIDETRACK								Job ODR, 7/14/2021 06:00					
Daily Drilling Report															

Daily Drilling Report

H & P - 487

Accept: 8/18/2021	Release: 10/15/2021
Days Since LTI: 402.00	Days Since RI: 402.00

Job:	ODR
Report Date:	10/15/2021
Report #:	38
DFS:	35
AFE #:	9015111
Total AFE + Sup:	\$4,412,374.71
Daily Field Est. (Cost):	\$848,654.23

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Daily Drilling Report

UTL 1308A 4101H				DELAWARE	
H & P - 487				Job:	ODR
Accept: 8/18/2021				Report Date:	9/29/2021
Days Since LTI: 385.00				Report #:	21
Release:				DFS:	19
Days Since RI: 385.00				AFE #:	9015111
				Total AFE + Sup:	\$4,412,374.71
				Daily Field Est. (Cost):	\$73,934.24

P/UWI 42-475-38217-0000		Well Profile HORIZONTAL		Open Formation WOLFCAMP A1 (WFMP A1)		Field Name PHANTOM (WOLFCAMP)				
SSN ID00056072		Property Sub	KB-Grd (ft) 26.50	Orig KB Elev (ft) 2,735.50	Ground Elevation (ft) 2,709.00	Spud Date 7/14/2021	TD Date			
Jobs										
Responsible Grp 2		Responsible Grp 3		Job Type	Start Date	End Date	Job Status			
DRL ENG - ALEXANDER LINDBLAD		AREA TEAM 2		ODR	7/14/2021 06:00		IN PROGRESS			
Job Dates (ex. Estimated Pad Release, TXRRC Calls)										
Type		Subtype		Date		Note				
MILESTONE		ESTIMATED PAD RELEASE		10/15/2021		3 well pad. Drilling Inter. #1 Batch Drilling				
Type TXRRC CALL		Subtype CEMENT INT		Date 9/28/2021		Note Audy #2				
Daily Operations										
Footage/Meterage (ft) 399.00		Drilling Hours (hr) 13.25	% Rotating Time (%) 100.00	End Depth (ftKB) 8,367.0	Target Depth (ftKB) 22,083.0	Daily Field Est Total (Cost) 73,934.24	Cum Field Est To Date (Cost) 2,127,288.39			
24 HR ROP (ft/hr) 30.1		Circulating Hours (hr) 3.00	% Sliding Time (%) 0.00	End Depth (TVD) (ftKB) 8,303.8	Target Depth (TVD) (ftKB) 11,325.0	Daily Mud Field Est (Cost) 3,511.65	Cum Mud Field Est (Cost) 41,097.81	Total AFE + Sup (Cost) 4,412,374.71		
Daily Goal Description DRILLED FEET			Daily Goal - Last 24 397.0		Daily Goal - Next 24 0.0		Goal Comments Goal not met			
Backbuild	Lateral Inclination	Last Casing String SURFACE, 1,011.0ftKB				Next Casing String PROPOSED INTERMEDIATE, 8,353.0ftKB				
Avg Connection Gas 0.00		Avg Trip Gas 0.00		Avg Background Gas 58.00	Max Connection Gas 0.00	Max Trip Gas 0.00	Max Drill Gas 98.00			
Operations Summary Drill Inter. #1 sidetrack F/7,968' T/8,367', (00.00% Sliding, 79.5' Above, 15' Right, Per Dir. sidetrack #1, plan #1 Held 10.0 degree tangent T/ 5,600') Circulate 2 Hi -Vis sweeps, TOO, L/D 8" DC's.										
Operations Next Report Period L/D Dir. BHA, Pull wear bushing, R/U & Run 9 5/8 casing, Land out 9 5/8 casing, circulate 1 1/2 times casing capacity, perform 2 stage cement job, P/U 8.75 BHA										
Operations at Report Time L/D 8" DC's										
Remarks Daily NPT: 1.5, Rig: 0 , 3rd: 0 PNR: 0 Cum. NPT: 1.5, Rig: 0, 3rd: 0, PNR: 0 Surface: 100% Intermediate #1= 100% Intermediate #2: 0% Curve: 0% Lateral: 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	13.25	19:15	INT, POST DRL	DRL	SIDETRA CK	Drilling intermediate section F/7,968' T/8,367' (399' @ 30.1 fph), 100% returns	7,968.0	8,367.0	13.25	7
19:15	3	22:15	INT, POST DRL	CIRC	SIDETRA CK	Circulate , pump 2 high vis sweep around with caliper material(130% caculated washout). Shakers cleaned up	8,367.0	8,367.0	3.00	7
22:15	0.25	22:30	INT, POST DRL	FLOW_CHK	SIDETRA CK	Flow Check	8,367.0	8,367.0	0.25	7
22:30	2.25	00:45	INT, POST DRL	TOOH_ELEV	SIDETRA CK	TOOH F/ 8,367" T/ 4950', monitor well on trip tank, hole taking proper fill	8,367.0	8,367.0	2.25	7
00:45	0.5	01:15	INT, POST DRL	HDL_ROT,HD	SIDETRA CK	Pull Rotating, C/O elevators from 4.5" to 5"	8,367.0	8,367.0	0.50	7
01:15	1.5	02:45	INT, POST DRL	TOOH_ELEV	SIDETRA CK	TOOH F/ 4,950' T/ 2,272', monitor well on trip tank, hole taking proper fill	8,367.0	8,367.0	1.50	7
02:45	1.25	04:00	INT, POST DRL	TOOH_NONEL EV	SIDETRA CK	Back Ream F/2,272' T/1,400' Full Returns	8,367.0	8,367.0	1.25	7
04:00	0.75	04:45	INT, POST DRL	HDL_BHA	SIDETRA CK	TOOH F/1,400' T/329' with HWDP monitor well on trip tank, hole taking proper fill	8,367.0	8,367.0	0.75	7
04:45	1.25	06:00	INT, POST DRL	L/D BHA	SIDETRA CK	L/D 8" DC's, monitor well on trip tank, hole taking proper fill	8,367.0	8,367.0	1.25	7
Drill Strings										
BHA #6 , SIDETRACK										
Bit Run 5RR		Drill Bit 12 1/4in, CF716, 53893			Bit Type PDC		Make ULTERRA			
Nozzles (1/32") 13/13/13/13/13/13		Bit Total Fluid Area (nozzles) (in²) 0.91		IADC Bit Dull -----		Hours Drilled By Bit (hr) 54.00		Depth Drilled By Bit (ft) 3,560.00		
BHA Drilling Time (hr) 54.00		BHA Depth Drilled (ft) 3,560.00		BHA ROP (ft/hr) 65.9		Depth In (ftKB) 4,807.0		Depth Out (ftKB) 8,367.0		
Drill String Components										
Jts	Item Des			OD (in)	ID (in)	Len (ft)	Cum Len (ft)	Wt (lbf)	Cum Wt (1000lbf)	Make
108	DRILL PIPE			4 1/2	2.75	3,386.89	8,367.00	56,222.4	117	QUAIL
1	SUB - XO			4 3/4	2.75	4.98	4,980.11		61	QUAIL
99	DRILL PIPE			5	4.81	3,106.69	4,975.13	60,580.5	61	RIG
17	HWDP - SPIRALED			5	3.00	511.21	1,868.44		0	RIG
1	DRILLING JARS - HYDRAULIC			6 1/2	2.93	33.98	1,357.23		0	KNIGHT OIL TOOLS LLC
Daily Drilling Report										
Page 1/3										
Printed: Wednesday, September 29, 2021										

Daily Drilling Report

H & P - 487	
Accept: 8/18/2021	Release:
Days Since LTI: 385.00	Days Since RI: 385.00

Job:	ODR
Report Date:	9/29/2021
Report #:	21
DFS:	19
A/E #:	9015111
Total A/E + Sup:	\$4,412,374.71
Daily Field Est. (Cost):	\$73,934.24

Pump Operations

Pump Checks

Deviation Surveys

Survey Data - All surveys for 24 hr reporting period

Date	Description	Job
9/25/2021	SIDETRACK	ODR, 7/14/2021 06:00

Survey Data - All surveys for 24 hr reporting period

Formations

Daily Contacts

Personnel Log

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Daily Drilling Report

UTL 1308A 4101H

H & P - 487

Accept: 8/18/2021

Release:

Days Since LTI: 386.00

Days Since RI: 386.00

DELAWARE

ODR

Report Date:

9/30/2021

Report #:

22

DFS:

20

AFE #:

9015111

Total AFE + Sup:

\$4,412,374.71

Daily Field Est. (Cost):

\$954,559.07

Daily Drilling Report

Daily Drilling Report

UTL 1308A 4101H			
H & P - 487			
Accept: 8/18/2021		Release:	
Days Since LTI: 386.00		Days Since RI: 386.00	

DELAWARE		Job:	ODR
		Report Date:	9/30/2021
		Report #:	22
		DFS:	20
		AFE #:	9015111
		Total AFE + Sup:	\$4,412,374.71
		Daily Field Est. (Cost):	\$954,559.07

Time Log											
Start Time	Dur (hr)	End Time	Phase	Operation	Ops Category	Com	Start Depth (ftKB)	End Depth (ftKB)	Prob Hrs (hr)	Prob Ref #	
22:15	3.5	01:45	INT, CASE & CMT	CMT	SIDETRA CK	Cement 9 5/8" intermediate casing. Test lines to 4,500 psi. Flush 20 bbls water through lines to reserve pit, Pump 50 bbl of 11 lb/gal spacer, 194 bbs of 11.0 lb/gal lead cement, 62 bbls of 14.8 lb/gal tail cement, and displace with 626 bbl of active mud. With full returns till 195 bbls into displacment then fell to 95% returns. Bumped plug with calculated displacement, final lift was 661 psi at 3.3 BPM., bumped to 1100, Inflated packer at 2620 psi and took 1.25 bbl to inflate, floats held and bled back 3.5 bbls Lift pressures as follows 50 bbls= 310 psi= 6.3 bpm 100 bbls=400 psi= 6.3 bpm 150 bbls= 300 psi= 6.3 bpm 200 bbls= 330 psi= 6.3 bpm 250 bbls= 380 psi= 6.3 bpm 300 bbls= 375 psi= 6.3 bpm 350 bbls= 400 psi = 6.3 bpm 400 bbls= 400 psi = 6.3 bpm 450 bbls = 400 psi = 6.3 bpm 500 bbls = 530 psi = 6.3 bpm 550 bbls = 675 psi = 6.3 bpm 600 bbls = 820 psi = 6.3 bpm 626 bbls = 661 psi = 3.3 bpm	8,367.0	8,367.0	3.50	7	
01:45	2	03:45	INT, CASE & CMT	CIRC	SIDETRA CK	Dropped DVT opening bomb and waited 35 minutes. Pressured up and shifted DVT with 1173 psi. Broke circulation with the cement truck and circulated bottoms up @ 8 bpm, returned 0 bbls of spacer and 0 bbls of cement to surface.	8,367.0	8,367.0	2.00	7	
03:45	2.25	06:00	INT, CASE & CMT	CMT	SIDETRA CK	Pump 2nd stage of cement job	8,367.0	8,367.0	2.25	7	

Drill Strings											
BHA #6 , SIDETRACK											
Bit Run 5RR			Drill Bit 12 1/4in, CF716, 53893				Bit Type PDC		Make ULTERRA		
Nozzles (1/32") 13/13/13/13/13/13			Bit Total Fluid Area (nozzles) (in²) 0.91		IADC Bit Dull 2-5-CT-S-X-0-CT-TD		Hours Drilled By Bit (hr) 54.00		Depth Drilled By Bit (ft) 3,560.00		
BHA Drilling Time (hr) 54.00			BHA Depth Drilled (ft) 3,560.00		BHA ROP (ft/hr) 65.9		Depth In (ftKB) 4,807.0		Depth Out (ftKB) 8,367.0		

Drill String Components										
Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)	Wt (lbf)	Cum Wt (1000lbf)	Make		
108	DRILL PIPE	4 1/2	2.75	3,386.89	8,367.00	56,222.4	117	QUAIL		
1	SUB - XO	4 3/4	2.75	4.98	4,980.11		61	QUAIL		
99	DRILL PIPE	5	4.81	3,106.69	4,975.13	60,580.5	61	RIG		
17	HWDP - SPIRALED	5	3.00	511.21	1,868.44		0	RIG		
1	DRILLING JARS - HYDRAULIC	6 1/2	2.93	33.98	1,357.23		0	KNIGHT OIL TOOLS LLC		
33	HWDP - SPIRALED	5	3.00	994.02	1,323.25		0	RIG		
1	SUB - XO	6 3/4	3.00	4.07	329.23		0	RIG		
6	DRILL COLLAR - SPIRALED	8	3.00	181.51	325.16		0	RIG		
1	SUB - XO	8	3.00	3.21	143.65		0	STABIL DRILL		
1	ACCELERATOR	8	3.50	26.00	140.44		0	COUGAR		
1	REAMER - ROLLER	8 1/4	2.88	8.03	114.44		0			
1	DRILL COLLAR - NON MAG	8	3.75	30.03	106.41		0	STABIL DRILL		
1	MWD TOOL - RETRIEVABLE	8	3.75	29.36	76.38		0	STABIL DRILL		
1	SUB - UBHO	8	3.50	3.97	47.02		0	GORDON		
1	REAMER - ROLLER	8	2.88	5.76	43.05		0			
1	MOTOR - STABILIZER SLEEVE	9 5/8	1.00	35.79	37.29		0	ALTITUDE ENERGY PARTNERS		

Mud Motors							
SN	Bend Angle	Bearing Type	Lobe Config	# Stages	Lwr Defln Type	Bit To Bend	
9014	1.75	NOT SEALED	7:8	7			8.46

Sensors		
Sensor Type	Sensor-Bit (ft)	Note
GAMMA	54.55	
DIRECTIONAL	65.08	

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)

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Daily Drilling Report

UTL 1308A 4101H				DELAWARE	
H & P - 487				Job:	ODR
Accept: 8/18/2021				Report Date:	9/30/2021
Days Since LTI: 386.00				Report #:	22
Release:				DFS:	20
Days Since RI: 386.00				AFE #:	9015111
				Total AFE + Sup:	\$4,412,374.71
				Daily Field Est. (Cost):	\$954,559.07

Mud Checks															
Time 01:00		Mud Company PIONEER DRILLING FLUIDS			Type DIRECT EMULSION		Depth (ftKB) 8,367.0		Density (lb/gal) 9.60	Funnel Viscosity (s/qt) 49	T Flowline (°F)				
PV (cP) 17.0		YP (lb/100ft²) 15.000	Vis 3rpm 3	Vis 6rpm 4	Filtrate (mL/30min) 25.0		HTHP Filtrate (mL/30min) 32.0		HTHP Temperature (°F) 250.0		HTHP Pressure (psi) 500.0				
Solids (%) 13.2			Low Gravity Solids (%) 5.5		Sand (%) 0.3		MBT (lb/bbl)		Pm (mL/mL)		PI (mL/mL)				
Chlorides (mg/L) 146,000			Calcium (mg/L)		CaCl (ppm) 1,560,000	Oil Water Ratio 34/66		Electric Stab (V)		Lime (lb/bbl) 0.3	pH 9.5				
Gel 10 sec (lb/100ft²) 4.000					Gel 10 min (lb/100ft²) 7.000				Gel 30 min (lb/100ft²) 11.000						
Comment Maintain Mw 9.6-9.7ppg. No treatments while run casing and cement job															
Last BOP Test															
Date	Test Type			Item Tested			Next Test Date		Com						
8/20/2021	BOP			BOP'S, 8/18/2021 22:30, <class>			9/10/2021		Full BOP test 250 Low 5000 High						
Leak Off and Formation Integrity Tests															
Test Type				Depth (ftKB)				Dens Fluid (lb/gal)							
FORMATION INTEGRITY				1,011.0				12.50							
Casing Pressure Test															
Test Type			Test Subtype			Date		Item Tested		Failed?	Time (min)	P (psi)			
CASING			STANDARD			7/23/2021		SURFACE, 1,011.0ftKB		No	30.00	1,000.0			
Kick Offs & Key Depths															
Date				Type				Top Depth (ftKB)		Depth Top (TVD) (ftKB)					
9/25/2021 12:00				KICK OFF				4,683.0		4,571.6					
Casing Strings															
Description		Set Depth (ftKB)		Set Depth (TVD) (ftKB)		OD (in)		Grade		Wt/Len (lb/ft)		Top Thread	P LeakOff (psi)		
CONDUCTOR		106.5		106.5		20		H40		78.67					
SURFACE		1,011.0		1,010.8		13 3/8		J55		54.50		BTC	656.6		
INTERMEDIATE		8,352.0		8,284.6		9 5/8		L80-IC		40.00		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				1,348					5,401	42,249.0	
DIESEL		MUD		GAL		7,237		16,653					14,590	46,940.0	
Mud Additive Amounts															
Des			Type		Units		Rec		Consumed		On Loc		Cum Cons		
BARITE-BULK			WEIGHTING MATERIAL		TON				6		121.0		45		
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		6,374.0	
2		GARDNER-DENVER				PZ-11-1600		5 1/2		11.00		0.081		6,374.0	
3		GARDNER-DENVER				PZ-11-1600		5 1/2		11.00		0.081		6,374.0	
Pump Checks															
Pump #		Depth (ftKB)		Time		P (psi)		Strokes (spm)		Q Flow (gpm)		Eff (%)			
Deviation Surveys															
Date 7/14/2021		Description AS DRILL SURVEY								Job ODR, 7/14/2021 06:00					
Date 9/25/2021		Description SIDETRACK								Job ODR, 7/14/2021 06:00					
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)	
265_BSPG1						-5,815.0				8,550.5					
267_BSPG2						-7,150.0				9,885.5					
268_BSPG3						-7,630.0				10,365.5					
268_PHANTOM FIELD TOP						-7,630.0				10,365.5					
ICP1						-8,035.0				10,770.5					
268_BSPG3 BASE CARBONATE						-8,190.0				10,925.5					
270_0_WFMP_A1						-8,565.0				11,300.5					
TOT						-8,640.0				11,375.5					
BOT						-8,730.0				11,465.5					
FIRST TAKE POINT (FTP)						-8,675.0				11,410.5					
PBHL/TD						-8,590.0				11,325.5					
Daily Contacts															
Job Contact				Title		Office		Mobile		Email					
LINDBLAD, ALEXANDER, ENGINEER				ENGINEER		972-969-1749				ALEXANDER.LINDBLAD@PXD.COM					
COX, BRYAN, ENGINEER				ENGINEER		972-969-5717		361-318-4212		BRYAN.COX@PXD.COM					
POLYA, JOE, AREA DRILLING SUPERINTENDENT				AREA DRILLING SUPERINTENDENT		432-413-6147		432-352-3155		JOE.POLYA@PXD.COM					
BROWN, DAN, SUPERINTENDENT				SUPERINTENDENT				469-203-9731		DAN.BROWN@PXD.COM					
JOHNSON, STEVEN, SUPERINTENDENT				SUPERINTENDENT				580-504-9863		STEVEN.JOHNSON@PXD.COM					
SALAZAR, TODD, WELLSITE SUPERVISOR				WELLSITE SUPERVISOR				325-232-2114		TODD.SALAZAR1@PXD.COM					
FOWLER, TREY, WELLSITE SUPERVISOR				WELLSITE SUPERVISOR				409-489-2876		TREY.FOWLER@PXD.COM					
RIG-H&P 487, RIG PHONE				RIG PHONE		432-200-0785				DL-HP487@PXD.COM					
Daily Drilling Report															

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Printed: Thursday, September 30, 2021

Daily Drilling Report

H & P - 487	
Accept: 8/18/2021	Release:
Days Since LTI: 386.00	Days Since RI: 386.00

Job:	ODR
Report Date:	9/30/2021
Report #:	22
DFS:	20
AFE #:	9015111
Total AFE + Sup:	\$4,412,374.71
Daily Field Est. (Cost):	\$954,559.07

Personnel Log	
Company	Count
PIONEER NATURAL RESOURCES USA INC	4
HELMERICH & PAYNE INTERNATIONAL DRILLING CO	13
ALTITUDE ENERGY PARTNERS INC	2
GORDON TECHNOLOGIES LLC	1
DYNAMIC ENERGY SERVICES LLC	1
STRATAGRAPH INC	2
SAFETY AUTOMATION TECHNOLOGY LLC	2
BAKER HUGHES OILFIELD OPERATIONS INC	2
TCI CASING SPECIALTIES LLC	4
TENARIS GLOBAL SERVICES USA	2
EDGE SPECIALTY SERVICES INC	2

Daily Drilling Report

UTL 1308A 4101H				DELAWARE	
H & P - 487				Job:	ODR
Accept: 8/18/2021				Report Date:	9/1/2021
Days Since LTI: 380.00				Report #:	16
Release:				DFS:	14
Days Since RI: 380.00				AFE #:	9015111
				Total AFE + Sup:	\$4,412,374.71
				Daily Field Est. (Cost):	\$122,961.34

P/U/UWI 42-475-38217-0000		Well Profile HORIZONTAL		Open Formation WOLFCAMP A1 (WFMP A1)		Field Name PHANTOM (WOLFCAMP)											
SSN ID00056072		Property Sub		KB-Grd (ft) 26.50	Orig KB Elev (ft) 2,735.50	Ground Elevation (ft) 2,709.00	Spud Date 7/14/2021	TD Date									
Jobs																	
Responsible Grp 2		Responsible Grp 3		Job Type		Start Date		End Date		Job Status							
DRL ENG - ALEXANDER LINDBLAD		AREA TEAM 2		ODR		7/14/2021 06:00				IN PROGRESS							
Job Dates (ex. Estimated Pad Release, TXRRC Calls)																	
Type				Subtype		Date		Note									
MILESTONE				ESTIMATED PAD RELEASE		10/8/2021		3 well pad. Drilling well #1 sequentially.									
Daily Operations																	
Footage/Meterage (ft) 0.00		Drilling Hours (hr)		% Rotating Time (%)		End Depth (ftKB) 8,373.0		Target Depth (ftKB) 22,083.0		Daily Field Est Total (Cost) 122,961.34		Cum Field Est To Date (Cost) 1,313,307.96					
24 HR ROP (ft/hr)		Circulating Hours (hr)		% Sliding Time (%)		End Depth (TVD) (ftKB) 8,305.6		Target Depth (TVD) (ftKB) 11,325.0		Daily Mud Field Est (Cost) 4,652.93		Cum Mud Field Est (Cost) 31,156.52		Total AFE + Sup (Cost) 4,412,374.71			
Daily Goal Description DRILLED FEET				Daily Goal - Last 24 0.0				Daily Goal - Next 24 0.0				Goal Comments Goal met					
Backbuild		Lateral Inclination		Last Casing String SURFACE, 1,011.0ftKB						Next Casing String PROPOSED INTERMEDIATE, 8,353.0ftKB							
Avg Connection Gas 0.00			Avg Trip Gas 0.00			Avg Background Gas 26.00			Max Connection Gas 0.00			Max Trip Gas 0.00			Max Drill Gas 0.00		
Operations Summary P/U 2 7/8 tubing, TIH T/5,999', Circulate, R/U & spot 215 bbl cement plug, R/D cement iron, TOO H T/4,020', Circulate pipe capacity, TOO H T/1,255', L/D 2 7/8 tubing, P/U 13 3/8 bridge plug, TIH T/900', set bridge plug, TOO H T/800', dump 10 bags of sand, wait 1 hr, Displace hole with 12.5 ppg fluid, TOO H, L/D running tool, N/D BOPE, Install TA cap, Release rig to UTL 1308B 3802H, Rig released @ 04:30 9-1-21																	
Operations Next Report Period Release rig to UTL 1308B 3802H																	
Operations at Report Time Release rig to UTL 1308B 3802H																	
Remarks Daily NPT: 0, Rig: 0 , 3rd: 0 PNR: 0 Cum. NPT: 0, Rig: 0, 3rd: 0, PNR: 0 Surface: 100% Intermediate #1= 100% Intermediate #2: 0% Curve: 0% Lateral: 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	2.75	08:45	INT, POST DRL	PU_DP	FISHING	P/U 2 7/8 tubing, R/D tubing equipment Hole giving proper displacement				8,373.0	8,373.0	2.75	7				
08:45	0.25	09:00	INT, POST DRL	HDL_ROT HD	FISHING	Install rotating head				8,373.0	8,373.0	0.25	7				
09:00	2	11:00	INT, POST DRL	TIH_ELEV	FISHING	TIH F/1,255' T/5,999' Hole giving proper displacement				8,373.0	8,373.0	2.00	7				
11:00	2	13:00	INT, POST DRL	CIRC	FISHING	Circulate @ 5,999' Full Returns				8,373.0	8,373.0	2.00	7				
13:00	0.25	13:15	INT, POST DRL	RU_CMT	FISHING	R/U cement equipment				8,373.0	8,373.0	0.25	7				
13:15	1	14:15	INT, POST DRL	CMT_REM	FISHING	Test lines 2500 psi, pump 35 bbl 13 ppg mud push, 215 bbl 17 ppg lead cement, 5 bbl 13 ppg mud push, 70 bbl 9.6 ppg drilling mud, full returns				8,373.0	8,373.0	1.00	7				
14:15	0.25	14:30	INT, POST DRL	RD_CMT	FISHING	R/D cement equipment				8,373.0	8,373.0	0.25	7				
14:30	1.5	16:00	INT, POST DRL	TOOH_ELEV	FISHING	TOOH F/5,999' T/4,020' @ 3 min stand Hole taking proper fill				8,373.0	8,373.0	1.50	7				
16:00	0.25	16:15	INT, POST DRL	CIRC	FISHING	circulate pipe capacity @ 4,020' Full reurns				8,373.0	8,373.0	0.25	7				
16:15	1	17:15	INT, POST DRL	TOOH_ELEV	FISHING	TOOH F/4,020' T/1,255' Hole taking proper fill				8,373.0	8,373.0	1.00	7				
17:15	0.25	17:30	INT, POST DRL	HDL_ROT HD	FISHING	Pull rotating head				8,373.0	8,373.0	0.25	7				
17:30	3	20:30	INT, POST DRL	L/D DP	FISHING	R/U tubing equipment, L/D 2 7/8 tubing, R/D tubing equipment Hole taking proper fill				8,373.0	8,373.0	3.00	7				
20:30	0.25	20:45	INT, POST DRL	SFTY	FISHING	HPJSM on picking up 13 3/8 bridge plug				8,373.0	8,373.0	0.25	7				
20:45	2.25	23:00	INT, POST DRL	TRIP_NON_ST 80	FISHING	M/U 13 3/8 bridge plug, TIH T/900', using rig tongs, set bridge plug, Hole giving proper displacement				8,373.0	8,373.0	2.25	7				
Daily Drilling Report																	

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Printed: Wednesday, September 1, 2021

Daily Drilling Report

UTL 1308A 4101H			
H & P - 487			
Accept: 8/18/2021		Release:	
Days Since LTI: 380.00		Days Since RI: 380.00	

DELAWARE		Job:	ODR
		Report Date:	9/1/2021
		Report #:	16
		DFS:	14
		AFE #:	9015111
		Total AFE + Sup:	\$4,412,374.71
		Daily Field Est. (Cost):	\$122,961.34

Time Log											
Start Time	Dur (hr)	End Time	Phase	Operation	Ops Category	Com		Start Depth (ftKB)	End Depth (ftKB)	Prob Hrs (hr)	Prob Ref #
23:00	0.25	23:15	INT, POST DRL	TRIP_NON_ST 80	FISHING	TOOH F/900' T/800' hole taking proper fill		8,373.0	8,373.0	0.25	7
23:15	1.5	00:45	INT, POST DRL	CIRC	FISHING	Dump 10 bags of sand down hole, wait 1 hour, Displace hole with 12.5 ppg fluid, Full returns		8,373.0	8,373.0	1.50	7
00:45	1.25	02:00	INT, POST DRL	TRIP_NON_ST 80	FISHING	TOOOH F/800' T/Running tool Hole taking proper fill		8,373.0	8,373.0	1.25	7
02:00	0.25	02:15	INT, POST DRL	SFTY	FISHING	HPJSM on N/D BOPE		8,373.0	8,373.0	0.25	7
02:15	1.5	03:45	INT, POST DRL	ND_BOPE	FISHING	Nipple Down BOPE		8,373.0	8,373.0	1.50	7
03:45	0.75	04:30	INT, POST DRL	WH	FISHING	Remove spacer spool & spead head, Install TA Cap, Release rig T/ UTL 1308B 3802H Rig released @ 04:30 9-1-21		8,373.0	8,373.0	0.75	7
Interval Problems											
DOWNHOLE CONDITIONS, 8,373.0ftKB, 8/25/2021 18:30											
Ref #	Dur (N...	Ex...	Subtype	Problem Descript...	Est Cost OR (Cost)	Accountable Party		Comment			
7		No	WELLBORE	TIGHT SPOT		PIONEER NATURAL RESOURCES USA INC		Back Ream through Tight spot F/6,578' T/6,486' Stuck at 5,976' No Returns			
Drill Strings											
BHA #3 , INTERMEDIATE											
Bit Run 3				Drill Bit 12 1/4in, SPL616, 56014			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) 22.75		Depth Drilled By Bit (ft) 1,436.00	
BHA Drilling Time (hr) 22.75				BHA Depth Drilled (ft) 1,436.00		BHA ROP (ft/hr) 63.1		Depth In (ftKB) 6,937.0		Depth Out (ftKB) 8,373.0	
Drill String Components											
Jts	Item Des				OD (in)	ID (in)	Len (ft)	Cum Len (ft)	Wt (lbf)	Cum Wt (1000lbf)	Make
208	DRILL PIPE				5	4.81	6,509.09	8,373.00	126,927.3	127	RIG
17	HWDP - SPIRALED				5	3.00	514.32	1,863.91		0	RIG
1	DRILLING JARS - HYDRAULIC				6 3/4	2.65	29.68	1,349.59		0	**ADD MAKE
33	HWDP - SPIRALED				5	3.00	992.77	1,319.91		0	RIG
1	SUB - XO				5	3.00	4.03	327.14		0	RIG
6	DRILL COLLAR				8	2.88	177.89	323.11		0	Rig
1	SUB - XO				8	2.88	2.86	145.22		0	STABIL DRILL
1	SUB - SHOCK				8.22	3.56	26.50	142.36		0	COUGAR
1	REAMER - ROLLER				8.05	2.97	7.53	115.86		0	**ADD MAKE
1	DRILL COLLAR - NON MAG				8.15	3.84	29.47	108.33		0	STABIL DRILL
1	MWD TOOL				8.11	3.85	29.78	78.86		0	STABIL DRILL
1	SUB - UBHO				8.06	3.63	3.02	49.08		0	GORDON
1	REAMER - ROLLER				8.34	2.87	6.53	46.06		0	**ADD MAKE
1	MOTOR - STABILIZER SLEEVE				9 5/8	3.00	38.03	39.53		0	ALTITUDE ENERGY PARTNERS
Mud Motors											
SN		Bend Angle		Bearing Type		Lobe Config		# Stages		Lwr Defin Type	
AEP9001		1.75		NOT SEALED		7:8		7			
										8.37	
Sensors											
Sensor Type				Sensor-Bit (ft)				Note			
GAMMA				54.55							
DIRECTIONAL				65.08							
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 01:00		Mud Company PIONEER DRILLING FLUIDS				Type WATER BASE	Depth (ftKB) 8,373.0	Density (lb/gal) 9.60	Funnel Viscosity (s/qt) 28	T Flowline (°F) 0.0	
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 (%) 14.3		Low Gravity Solids (%) 3.5		Sand (%) 0.2		MBT (lb/bbl) 0.0		Pm (mL/mL) 0.400		Pf (mL/mL)	
Chlorides (mg/L) 145,000		Calcium (mg/L) 1,800		CaCl (ppm)	Oil Water Ratio 0/100	Electric Stab (V)		Lime (lb/bbl) 0.1		pH 10.0	
Gel 10 sec (lb/100ft²) 1.000				Gel 10 min (lb/100ft²) 1.000				Gel 30 min (lb/100ft²) 1.000			
Comment L/D wash pipe and tools. R/U tubing tools, made up mule shoe, and began TIH with 2 7/8" tubing. Ran tubing to 1,255' and then TIH to 5,999'. Ciruclated capacity and half then cemented. POOH to 4,020' and circulated pipe capacity. POOH and L/D tubing. Rig down tubing equipment. Make up bridge plug, TIH to set bridge plug. Footage drilled last 24hrs- 0', ROP 0, WOB 55K, RPM 30,Torque 27K, Diff 1250, P/U 320K, S/O 220K, Rot 257K, Lithology @ 8,373'- SH 60%, LS 10%, SD 30%.											
Last BOP Test											
Date	Test Type			Item Tested			Next Test Date		Com		
8/20/2021	BOP			BOP'S, 8/18/2021 22:30, <class>			9/10/2021		Full BOP test 250 Low 5000 High		
Daily Drilling Report											
Page 2/4						Printed: Wednesday, September 1, 2021					

Daily Drilling Report

H & P - 487	
Accept: 8/18/2021	Release:
Days Since LTI: 380.00	Days Since RI: 380.00

Job:	ODR
Report Date:	9/1/2021
Report #:	16
DFS:	14
AFE #:	9015111
Total AFE + Sup:	\$4,412,374.71
Daily Field Est. (Cost):	\$122,961.34

Leak Off and Formation Integrity Tests													
Test Type		Depth (ftKB)				Dens Fluid (lb/gal)							
FORMATION INTEGRITY		1,011.0				12.50							
Casing Pressure Test													
Test Type		Test Subtype		Date		Item Tested		Failed?	Time (min)	P (psi)			
CASING		STANDARD		7/23/2021		SURFACE, 1,011.0ftKB		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	1,011.0	1,010.8	13 3/8	J55	54.50	BTC	656.6						
Cement													
CEMENT PLUG, Plug, 8/31/2021 12:49													
Cementing End Date 8/31/2021 14:13		Wellbore ORIGINAL		Technical Result		Comment							
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?
		4,500.0	6,000.0	No	No	6	3	5	200.0		No	No	No
Cement Fluids													
Fluid Type MUDPUSH			Estimated Top (ftKB)	Est Btm (ftKB)	Class		Yield (ft³/sack)		Density (lb/gal)				
			4,300.0	4,500.0					13.00				
Fluid Type LEAD CMT			Estimated Top (ftKB)	Est Btm (ftKB)	Class		Yield (ft³/sack)		Density (lb/gal)				
			4,500.0	6,000.0	CLASS H		1.00		17.00				
Fluid Type DSPLMT			Estimated Top (ftKB)	Est Btm (ftKB)	Class		Yield (ft³/sack)		Density (lb/gal)				
			0.0	4,500.0					9.60				
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						
BARITE-BULK		WEIGHTING MATERIAL	TON		15	45.0	36						
DEFOAM A		DEFOAMER	GAL		3	11.0	19						
EZ MUD		OIL MUD ADDITIVE	GAL		1	19.0	13						
PAC-L		FLUID LOSS ADDITIVES	SACK		4	14.0	26						
SODA ASH		ALKALINITY CONTROL	SACK		3	10.0	39						
XANTHAN GUM		VISCOSIFIER	SACK	40	10	30.0	90						
ZEOGEL		SPECIALITY	SACK		33	100.0	350						
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	6,374.0						
2	GARDNER-DENVER		PZ-11-1600	5 1/2	11.00	0.081	6,374.0						
3	GARDNER-DENVER		PZ-11-1600	5 1/2	11.00	0.081	6,374.0						
Pump Checks													
Pump #	Depth (ftKB)	Time	P (psi)	Strokes (spm)	Q Flow (gpm)		Eff (%)						
Deviation Surveys													
Date 7/14/2021		Description AS DRILL SURVEY					Job ODR, 7/14/2021 06:00						
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)						
265_BSPG1			-5,815.0		8,550.5								
267_BSPG2			-7,150.0		9,885.5								
268_BSPG3			-7,630.0		10,365.5								
268_PHANTOM FIELD TOP			-7,630.0		10,365.5								
ICP1			-8,035.0		10,770.5								
268_BSPG3 BASE CARBONATE			-8,190.0		10,925.5								
270_0_WFMP_A1			-8,565.0		11,300.5								
TOT			-8,640.0		11,375.5								
BOT			-8,730.0		11,465.5								
FIRST TAKE POINT (FTP)			-8,675.0		11,410.5								
PBHL/TD			-8,590.0		11,325.5								
Daily Contacts													
Job Contact		Title	Office	Mobile	Email								
LINDBLAD, ALEXANDER, ENGINEER		ENGINEER	972-969-1749		ALEXANDER.LINDBLAD@PXD.COM								
COX, BRYAN, ENGINEER		ENGINEER	972-969-5717	361-318-4212	BRYAN.COX@PXD.COM								
HARDIN, JOE, AREA DRILLING SUPERINTENDENT		AREA DRILLING SUPERINTENDENT	361-452-2118	361-318-8762	THOMAS.HARDIN@PXD.COM								
VILLESCAS, BERNIE, SUPERINTENDENT		SUPERINTENDENT	432-571-2950	432-312-2088	BERNIE.VILLESCAS@PXD.COM								
JOHNSON, STEVEN, SUPERINTENDENT		SUPERINTENDENT		580-504-9863	STEVEN.JOHNSON@PXD.COM								
SALAZAR, TODD, WELLSITE SUPERVISOR		WELLSITE SUPERVISOR		325-232-2114	TODD.SALAZAR1@PXD.COM								
Daily Drilling Report				Page 3/4				Printed: Wednesday, September 1, 2021					

Daily Drilling Report

H & P - 487	
Accept: 8/18/2021	Release:
Days Since LTI: 380.00	Days Since RI: 380.00

Job:	ODR
Report Date:	9/1/2021
Report #:	16
DFS:	14
AFE #:	9015111
Total AFE + Sup:	\$4,412,374.71
Daily Field Est. (Cost):	\$122,961.34

Personnel Log	
Company	Count
PIONEER NATURAL RESOURCES USA INC	4
HELMERICH & PAYNE INTERNATIONAL DRILLING CO	14
ALTITUDE ENERGY PARTNERS INC	2
GORDON TECHNOLOGIES LLC	1
DYNAMIC ENERGY SERVICES LLC	2
STRATAGRAPH INC	1
SAFETY AUTOMATION TECHNOLOGY LLC	2
YELLOW JACKET OILFIELD SERVICES LLC	4
TEXAS T OILFIELD SERVICES	4
PIPE PROS LLC	1
SCHLUMBERGER TECHNOLOGY CORPORATION	3
CACTUS WELLHEAD LLC	1

Daily Drilling Report

UTL 1308A 4101H				DELAWARE	
H & P - 487				Job:	ODR
Accept: 8/18/2021				Report Date:	9/25/2021
Days Since LTI: 381.00				Report #:	17
Release:				DFS:	15
Days Since RI: 381.00				AFE #:	9015111
				Total AFE + Sup:	\$4,412,374.71
				Daily Field Est. (Cost):	\$94,259.44

API/UWI 42-475-38217-0000		Well Profile HORIZONTAL		Open Formation WOLFCAMP A1 (WFMP A1)		Field Name PHANTOM (WOLFCAMP)				
SSN ID00056072	Property Sub	KB-Grd (ft) 26.50	Orig KB Elev (ft) 2,735.50	Ground Elevation (ft) 2,709.00	Spud Date 7/14/2021	TD Date				
Jobs										
Responsible Grp 2 DRL ENG - ALEXANDER LINDBLAD		Responsible Grp 3 AREA TEAM 2		Job Type ODR	Start Date 7/14/2021 06:00	End Date		Job Status IN PROGRESS		
Job Dates (ex. Estimated Pad Release, TXRRC Calls)										
Type MILESTONE		Subtype ESTIMATED PAD RELEASE		Date 10/15/2021		Note 3 well pad. Drilling Inter. #1 Batch Drilling				
Daily Operations										
Footage/Meterage (ft) 0.00		Drilling Hours (hr)		% Rotating Time (%)		End Depth (ftKB) 8,373.0		Target Depth (ftKB) 22,083.0		
24 HR ROP (ft/hr)		Circulating Hours (hr)		% Sliding Time (%)		End Depth (TVD) (ftKB) 8,305.6		Target Depth (TVD) (ftKB) 11,325.0		
Daily Goal Description DRILLED FEET		Daily Goal - Last 24 0.0		Daily Goal - Next 24 200.0		Daily Mud Field Est (Cost) 31,156.52		Cum Field Est To Date (Cost) 1,776,151.49		
Backbuild		Lateral Inclination		Last Casing String SURFACE, 1,011.0ftKB		Next Casing String PROPOSED INTERMEDIATE, 8,353.0ftKB				
Avg Connection Gas 0.00		Avg Trip Gas 0.00		Avg Background Gas 0.00		Max Connection Gas 0.00		Max Drill Gas 0.00		
Operations Summary Skid rig from UTL 1308A 4101H, N/U BOPE, after attempting to do a shell test, started leaking at speed head, N/D, picked up BOP's, inspected ring grooves, C/O ring gasket, N/U BOP's. Test BOP's, still leaking, N/D BOPE, remove spacer spool and speed head, C/O speed head, N/U BOPE, Shell Test Bop's, TIH with bridge plug retrieval tool, retrieve plug, TOOHL, L/D bridge plug.										
Operations Next Report Period P/U Dir. BHA, TIH to 5,000', side track with 2.12 motor, TOOHL, C/O BHA, TIH										
Operations at Report Time L/D 13 3/8 bridge plug										
Remarks Daily NPT: 0, Rig: 0 , 3rd: 0 PNR: 0 Cum. NPT: 0, Rig: 0, 3rd: 0, PNR: 0 Surface: 100% Intermediate #1= 0% Intermediate #2: 0% Curve: 0% Lateral: 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 #
17:00	0.5	17:30		SKID	SIDETRA CK	Skid Rig from UTL 1308C 4104H to UTL 1308B 3802H	8,373.0	8,373.0		
17:30	0.25	17:45		SFTY	SIDETRA CK	HPJSM on N/U BOPE	8,373.0	8,373.0		
17:45	1	18:45		NU_BOPE	SIDETRA CK	Nipple up BOPE, space spool and related equipment	8,373.0	8,373.0		
18:45	0.5	19:15		TEST_BOPE	SIDETRA CK	Install test plug, fill BOP's with water, M/U testing equipment	8,373.0	8,373.0		
19:15	9.25	04:30		CONC_BOPE	SIDETRA CK	Shell test BOP's, after attempting to do a shell test, started leaking at speed head, N/D, picked up BOP's, inspected ring grooves, C/O ring gasket, N/U BOP's. Test BOP's, still leaking, N/D BOPE, remove spacer spool and speed head, waiting on new speed head to arrive at location, C/O speed head, N/U BOPE, ShellTest Bop's, test good, R/D testers, N/U flowline.	8,373.0	8,373.0	9.25	10
04:30	0.5	05:00		TIH_ELEV	SIDETRA CK	M/U bridge plug retrieval tool, TIH to 900'	8,373.0	8,373.0		
05:00	0.25	05:15		CIRC	SIDETRA CK	Wash on top of bridge plug @ 900'	8,373.0	8,373.0		
05:15	0.75	06:00		TOOH_ELEV	SIDETRA CK	Release bridge plug, TOOHL, L/D bridge plug	8,373.0	8,373.0		
Interval Problems										
3RD PARTY, 8,373.0ftKB, 9/24/2021 19:15										
Ref # 10	Dur (N...) 9.25	Ex... No	Subtype PRESSURE CONTROL	Problem Descript... WELLHEAD	Est Cost OR (Cost)	Accountable Party CACTUS WELLHEAD LLC	Comment Shell test BOP's, after attempting to do a shell test, started leaking at speed head, N/D, picked up BOP's, inspected ring grooves, C/O ring gasket, N/U BOP's. Test BOP's, still leaking, N/D BOPE, remove spacer spool and speed head, C/O speed head, N/U BOPE, Test Bop's			
Drill Strings										
BHA #3 , INTERMEDIATE										
Bit Run 3		Drill Bit 12 1/4in, SPL616, 56014				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) 22.75		Depth Drilled By Bit (ft) 1,436.00		
BHA Drilling Time (hr) 22.75		BHA Depth Drilled (ft) 1,436.00		BHA ROP (ft/hr) 63.1		Depth In (ftKB) 6,937.0		Depth Out (ftKB) 8,373.0		
Drill String Components										
Jts	Item Des			OD (in)	ID (in)	Len (ft)	Cum Len (ft)	Wt (lbf)	Cum Wt (1000lbf)	Make
208	DRILL PIPE			5	4.81	6,509.09	8,373.00	126,927.3	127	RIG
17	HWDP - SPIRALED			5	3.00	514.32	1,863.91		0	RIG
1	DRILLING JARS - HYDRAULIC			6 3/4	2.65	29.68	1,349.59		0	**ADD MAKE
33	HWDP - SPIRALED			5	3.00	992.77	1,319.91		0	RIG
Daily Drilling Report										

Daily Drilling Report

Drill String Components										
Jts	Item Des		OD (in)	ID (in)	Len (ft)	Cum Len (ft)	Wt (lb/ft)	Cum Wt (1000lb/ft)	Make	
1	SUB - XO		5	3.00	4.03	327.14		0	RIG	
6	DRILL COLLAR		8	2.88	177.89	323.11		0	Rig	
1	SUB - XO		8	2.88	2.86	145.22		0	STABIL DRILL	
1	SUB - SHOCK		8.22	3.56	26.50	142.36		0	COUGAR	
1	REAMER - ROLLER		8.05	2.97	7.53	115.86		0	**ADD MAKE	
1	DRILL COLLAR - NON MAG		8.15	3.84	29.47	108.33		0	STABIL DRILL	
1	MWD TOOL		8.11	3.85	29.78	78.86		0	STABIL DRILL	
1	SUB - UBHO		8.06	3.63	3.02	49.08		0	GORDON	
1	REAMER - ROLLER		8.34	2.87	6.53	46.06		0	**ADD MAKE	
1	MOTOR - STABILIZER SLEEVE		9 5/8	3.00	38.03	39.53		0	ALTITUDE ENERGY PARTNERS	
Mud Motors										
SN		Bend Angle	Bearing Type	Lobe Config	# Stages	Lwr Defln Type		Bit To Bend		
AEP9001		1.75	NOT SEALED	7:8	7			8.37		
Sensors										
Sensor Type		Sensor-Bit (ft)			Note					
GAMMA		54.55								
DIRECTIONAL		65.08								
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 01:00		Mud Company PIONEER DRILLING FLUIDS			Type DIRECT EMULSION	Depth (ftKB) 8,373.0	Density (lb/gal) 9.80	Funnel Viscosity (s/qt) 42	T Flowline (°F)	
PV (cP) 18.0	YP (lb/ft/100ft²) 13.000	Vis 3rpm 4	Vis 6rpm 6	Filtrate (mL/30min) 15.2	HTHP Filtrate (mL/30min) 32.0		HTHP Temperature (°F) 250.0		HTHP Pressure (psi) 500.0	
Solids (%) 12.0		Low Gravity Solids (%) 4.4		Sand (%) 0.1		MBT (lb/bbl)		Pm (mL/mL)		Pf (mL/mL)
Chlorides (mg/L) 108,000		Calcium (mg/L)		CaCl (ppm) 1,400,000	Oil Water Ratio 28/72		Electric Stab (V)		Lime (lb/bbl) 0.2	pH 10.0
Gel 10 sec (lb/ft/100ft²) 4.000				Gel 10 min (lb/ft/100ft²) 8.000			Gel 30 min (lb/ft/100ft²) 11.000			
Comment Skidded rig to the UTL 1308A 4101H. Testing BOPE										
Last BOP Test										
Date	Test Type		Item Tested			Next Test Date	Com			
8/20/2021	BOP		BOP'S, 8/18/2021 22:30, <class>			9/10/2021	Full BOP test 250 Low 5000 High			
Leak Off and Formation Integrity Tests										
Test Type			Depth (ftKB)			Dens Fluid (lb/gal)				
FORMATION INTEGRITY			1,011.0			12.50				
Casing Pressure Test										
Test Type		Test Subtype			Date	Item Tested		Failed?	Time (min)	P (psi)
CASING		STANDARD			7/23/2021	SURFACE, 1,011.0ftKB		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	1,011.0	1,010.8	13 3/8	J55	54.50	BTC		656.6		
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	4,684			Transferred from' UTL 1308B 3802H'	4,684	28,382.0	
DIESEL		FUEL	GAL	7,420	306			11,798	28,688.0	
DIESEL		MUD	GAL	21,660			Transferred from' UTL 1308B 3802H'	39,498	0.0	
DIESEL		MUD	GAL		0			39,498	0.0	
WATER		FRESH	BBL	0			Transferred from' UTL 1308B 3802H'	0	24,037.0	
WATER		FRESH	BBL	0	0		Meter reading beginning 50005 ending 50005	0	24,037.0	
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	6,374.0		
2	GARDNER-DENVER			PZ-11-1600	5 1/2	11.00	0.081	6,374.0		
3	GARDNER-DENVER			PZ-11-1600	5 1/2	11.00	0.081	6,374.0		
Pump Checks										
Pump #	Depth (ftKB)	Time	P (psi)	Strokes (spm)	Q Flow (gpm)			Eff (%)		
Daily Drilling Report										

Page 2/3

Printed: Saturday, September 25, 2021

Daily Drilling Report

H & P - 487

Accept: 8/18/2021

Release:**Days Since LTI: 381.00**

Days Since RI: 381.00

DELAWARE

Job:

ODR

Report Date:

9/25/2021

Report #:

17

DFS:

15

AFE #:

9015111

Total AFE + Sup:

\$4,412,374.71

Daily Field Est. (Cost):

\$94,259.44

Daily Drilling Report

Daily Drilling Report

P/U/UWI 42-475-38217-0000		Well Profile HORIZONTAL		Open Formation WOLFCAMP A1 (WFMP A1)		Field Name PHANTOM (WOLFCAMP)				
SSN ID00056072	Property Sub	KB-Grd (ft) 26.50	Orig KB Elev (ft) 2,735.50	Ground Elevation (ft) 2,709.00	Spud Date 7/14/2021		TD Date			
Jobs										
Responsible Grp 2		Responsible Grp 3		Job Type	Start Date		End Date	Job Status		
DRL ENG - ALEXANDER LINDBLAD		AREA TEAM 2		ODR	7/14/2021 06:00			IN PROGRESS		
Job Dates (ex. Estimated Pad Release, TXRRC Calls)										
Type		Subtype		Date		Note				
MILESTONE		ESTIMATED PAD RELEASE		10/15/2021		3 well pad. Drilling Inter. #1 Batch Drilling				
Daily Operations										
Footage/Meterage (ft) 124.00	Drilling Hours (hr) 8.25	% Rotating Time (%) 0.00	End Depth (ftKB) 4,807.0	Target Depth (ftKB) 22,083.0	Daily Field Est Total (Cost) 67,564.44	Cum Field Est To Date (Cost) 1,850,428.43				
24 HR ROP (ft/hr) 15.0	Circulating Hours (hr)	% Sliding Time (%) 100.00	End Depth (TVD) (ftKB) 4,758.2	Target Depth (TVD) (ftKB) 11,325.0	Daily Mud Field Est (Cost) 976.31	Cum Mud Field Est (Cost) 32,132.83	Total AFE + Sup (Cost) 4,412,374.71			
Daily Goal Description DRILLED FEET		Daily Goal - Last 24 200.0		Daily Goal - Next 24 2,000.0		Goal Comments Goal not met				
Backbuild	Lateral Inclination	Last Casing String SURFACE, 1,011.0ftKB			Next Casing String PROPOSED INTERMEDIATE, 8,353.0ftKB					
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, L/D bridge plug, P/U sidetrack BHA, TIH to 4,683', sidetrack F/4,683' T/4,807', TOOH, Back Ream through tight spots F/2,200' T/1,402', back ream tight spots, TOOH, L/D BHA, C/O bails, P/U Dir BHA, Slip & Cut										
Operations Next Report Period Slip & Cut, TIH T/4,807', Drill Inter. #1 sidetrack F/4,807' T/6,807'										
Operations at Report Time Slip & Cut Drill Line										
Remarks Daily NPT: 0, Rig: 0 , 3rd: 0 PNR: 0 Cum. NPT: 0, Rig: 0, 3rd: 0, PNR: 0 Surface: 100% Intermediate #1= 0% Intermediate #2: 0% Curve: 0% Lateral: 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	0.25	06:15	INT, POST DRL	TOOH_ELEV	SIDETRA CK	TOOH F/ 300' w/ bridge plug	8,373.0	8,373.0	0.25	7
06:15	0.25	06:30	INT, POST DRL	HDL_BHA	SIDETRA CK	L/D bridge plug and running tool	8,373.0	8,373.0	0.25	7
06:30	0.25	06:45	INT, POST DRL	WRBSH	SIDETRA CK	Install wear bushing	8,373.0	8,373.0	0.25	7
06:45	1	07:45	INT, POST DRL	PU_DIR	SIDETRA CK	P/U sidetrack BHA	8,373.0	8,373.0	1.00	7
07:45	4.25	12:00	INT, POST DRL	TIH_ELEV	SIDETRA CK	TIH F/ BHA T/ 4,683', monitor well on trip tank, hole displacing properly, set 50k on cement plug	8,373.0	8,373.0	4.25	7
12:00	8.25	20:15	INT, POST DRL	TIME_DRL	SIDETRA CK	Sidetrack F/ 4,683' T/ 4,807', 500 gpm, 20-30k wob, full returns **6.5' of departure at bit, spoke with DE, PDC and Superintendent. All agreed to come out of hole for INT BHA, sidetrack BHA giving 9's.	4,683.0	4,807.0	8.25	7
20:15	0.25	20:30	INT, POST DRL	FLOW_CHK	SIDETRA CK	Flow check, well static	4,807.0	4,807.0	0.25	7
20:30	0.5	21:00	INT, POST DRL	TOOH_ELEV	SIDETRA CK	TOOH F/4,807' T/4,259', Monitoring well on trip tank, hole taking proper fill	4,807.0	4,807.0	0.50	7
21:00	0.25	21:15	INT, POST DRL	HDL_ROT HD	SIDETRA CK	Pull Rotating head	4,807.0	4,807.0	0.25	7
21:15	1.5	22:45	INT, POST DRL	TOOH_ELEV	SIDETRA CK	TOOH F/4,289' T/2,200', Monitoring well on trip tank, hole taking proper fill	4,807.0	4,807.0	1.50	7
22:45	2.25	01:00	INT, POST DRL	TOOH_NONEL EV	SIDETRA CK	Back Ream F/2,200' T/1,402' using joint of 5" DP as kelly joint due to not being able to screw into HWDP because of long bails hitting spirals.	4,807.0	4,807.0	2.25	7, 11
01:00	1.25	02:15	INT, POST DRL	HDL_BHA	SIDETRA CK	TOOH with HWDP & 8" DC's F/1,402' T/BHA, Hole taking proper fill	4,807.0	4,807.0	1.25	7
02:15	0.25	02:30	INT, POST DRL	SFTY	SIDETRA CK	HPJSM on L/D & P/U BHA	4,807.0	4,807.0	0.25	7
02:30	0.5	03:00	INT, POST DRL	LD_DIR	SIDETRA CK	L/D Directional sidetrack BHA	4,807.0	4,807.0	0.50	7
Daily Drilling Report				Page 1/4			Printed: Sunday, September 26, 2021			

PIONEER

NATURAL RESOURCES

Daily Drilling Report

UTL 1308A 4101H	
H & P - 487	
Accept: 8/18/2021	Release:
Days Since LTI: 382.00	Days Since RI: 382.00

DELAWARE	
Job:	ODR
Report Date:	9/26/2021
Report #:	18
DFS:	16
AFE #:	9015111
Total AFE + Sup:	\$4,412,374.71
Daily Field Est. (Cost):	\$67,564.44

Time Log																	
Start Time	Dur (hr)	End Time	Phase	Operation	Ops Category	Com		Start Depth (ftKB)	End Depth (ftKB)	Prob Hrs (hr)	Prob Ref #						
03:00	1	04:00	INT, POST DRL	RIG_RPR	SIDETRA CK	Change out 12' bails with 10' bails		4,807.0	4,807.0	1.00	7, 12						
04:00	1	05:00	INT, POST DRL	PU_ DIR	SIDETRA CK	P/U Directional BHA		4,807.0	4,807.0	1.00	7						
05:00	0.5	05:30	INT, POST DRL	HDL_BHA	SIDETRA CK	TIH with 8" DC's and HWDP F/BHA T/900' Hole giving proper displacement		4,807.0	4,807.0	0.50	7						
05:30	0.5	06:00	INT, POST DRL	SLIP_CUT	SIDETRA CK	Slip & Cut Drill Line		4,807.0	4,807.0	0.50	7						
Interval Problems																	
DOWNHOLE CONDITIONS, 4,807.0ftKB, 9/25/2021 22:45																	
Ref #	Dur (N...)	Ex...	Subtype	Problem Descript...	Est Cost OR (Cost)	Accountable Party		Comment									
11	2.25	No	WELLBORE	TIGHT SPOT		PIONEER NATURAL RESOURCES USA INC		Back Ream F/2,200' T/1,402' using joint of 5" DP as kelly joint due to not being able to screw into HWDP because of long bails hitting spirals.									
RIG, <depthstart>ftKB, 9/26/2021 03:00																	
Ref #	Dur (N...)	Ex...	Subtype	Problem Descript...	Est Cost OR (Cost)	Accountable Party		Comment									
12	1.00	No	HOISTING	ELEVATORS		PIONEER NATURAL RESOURCES USA INC		Change out 12' bails with 10' bails									
Drill Strings																	
BHA #5 , SIDETRACK																	
Bit Run				Drill Bit				Bit Type		Make							
5				12 1/4in, CF716, 53893				PDC		ULTERRA							
Nozzles (1/32")				Bit Total Fluid Area (nozzles) (in²)		IADC Bit Dull		Hours Drilled By Bit (hr)		Depth Drilled By Bit (ft)							
13/13/13/13/13/13				0.91		0-0-NO-A-X-0-NO-BHA		8.25		124.00							
BHA Drilling Time (hr)				BHA Depth Drilled (ft)		BHA ROP (ft/hr)		Depth In (ftKB)		Depth Out (ftKB)							
8.25				124.00		15.0		4,683.0		4,807.0							
Drill String Components																	
Jts	Item Des				OD (in)	ID (in)	Len (ft)	Cum Len (ft)	Wt (lbf)	Cum Wt (1000lbf)	Make						
95	DRILL PIPE				5	4.81	2,978.17	4,807.00	58,074.3	58	RIG						
17	HWDP - SPIRALED				5	3.00	511.21	1,828.83		0	RIG						
1	DRILLING JARS - HYDRAULIC				6 1/2	2.93	33.98	1,317.62		0	KNIGHT OIL TOOLS LLC						
33	HWDP - SPIRALED				5	3.00	994.02	1,283.64		0	RIG						
1	SUB - XO				6 3/4	3.00	4.07	289.62		0	STABIL DRILL						
6	DRILL COLLAR - SPIRALED				8	2.00	181.51	285.55		0	RIG						
1	SUB - XO				8	3.00	3.21	104.04		0	STABIL DRILL						
1	DRILL COLLAR - NON MAG				8	3.75	30.03	100.83		0	STABIL DRILL						
1	MWD TOOL				8	3.75	29.36	70.80		0	STABIL DRILL						
1	SUB - UBHO				8	3.50	3.97	41.44		0	GORDON						
1	MOTOR - STABILIZER SLEEVE				9 5/8	1.00	35.97	37.47		0	ALTITUDE ENERGY PARTNERS						
Mud Motors																	
SN		Bend Angle		Bearing Type		Lobe Config		# Stages		Lwr DefIn Type							
8020		2.12		NOT SEALED		7:8		5.9		Bit To Bend							
										5.96							
Sensors																	
Sensor Type				Sensor-Bit (ft)				Note									
GAMMA				49.50													
DIRECTIONAL				59.77													
Drilling Parameters																	
Start Time	End Time	Start Depth (ftKB)	Int Depth (ft)	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	ROP Average (ft/hr)	Drill Str Wt (1000lbf)	PU Str Wt (1000lbf)	SO Str Wt (1000lbf)	Off-Btm Str Wt (1000lbf)	Drill Tq	Off Btm Tq	TFO (°)
12:00	18:00	4,683.0	83.00	13.8	35	0	350.0	500	1,900.0	0.0	245	305	230	260	0.0	0.0	220
18:00	20:15	4,766.0	41.00	18.2	35	0	350.0	650	2,330.0	0.0	245	305	230	260	0.0	0.0	220
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)		
9.80	9.92	177.8		1.5		229.8		468.9		18.2	556.3	81.63		443.95	129.38		
Mud Checks																	
Time		Mud Company				Type		Depth (ftKB)		Density (lb/gal)		Funnel Viscosity (s/qt)		T Flowline (°F)			
01:00		PIONEER DRILLING FLUIDS				DIRECT EMULSION		4,807.0		9.80		40					
PV (cP)		YP (lbf/100ft²)		Vis 3rpm		Vis 6rpm		Filtrate (mL/30min)		HTHP Filtrate (mL/30min)		HTHP Temperature (°F)		HTHP Pressure (psi)			
9.0		12.000		2		3		30.0		32.0		250.0		500.0			
Solids (%)				Low Gravity Solids (%)			Sand (%)			MBT (lb/bbl)			Pm (mL/mL)		Pf (mL/mL)		
12.5				3.9			0.1										
Chlorides (mg/L)			Calcium (mg/L)			CaCl (ppm)		Oil Water Ratio		Electric Stab (V)		Lime (lb/bbl)		pH			
125,000						1,280,000		29/71				0.2		9.0			
Gel 10 sec (lbf/100ft²)						Gel 10 min (lbf/100ft²)						Gel 30 min (lbf/100ft²)					
4.000						6.000						9.000					
Comment																	
Skidded rig to current well. N/U BOP and began testing. Cactus speed head failed to test. Waited on new head, installed, and tested (good test). M/U retrieval tool and TIH to 896'. Retrieved bridge plug and POOH. P/U BHA and TIH to 4,683' (tagged cement). Began sliding while kicking off and drilled to current depth with no issues. POOH at report time. Footage drilled last 24hrs-124', ROP 20, WOB 32K, RPM 5, Torque 8K, Diff 350, P/U 230K, S/O 165K, Rot 190K, Lithology @ 4,791'-CMNT 55%, ANHY 35%, LS 10%																	
Daily Drilling Report																	

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Printed: Sunday, September 26, 2021

PIONEER
NATURAL RESOURCES

Daily Drilling Report

UTL 1308A 4101H

H & P - 487

Accept: 8/18/2021

Release:

Days Since LTI: 382.00

Days Since RI: 382.00

DELAWARE

Job:

ODR

Report Date:

9/26/2021

Report #:

18

DFS:

16

AFE #:

9015111

Total AFE + Sup:

\$4,412,374.71

Daily Field Est. (Cost):

\$67,564.44

Last BOP Test									
Date	Test Type	Item Tested	Next Test Date	Com					
8/20/2021	BOP	BOP'S, 8/18/2021 22:30, <class>	9/10/2021	Full BOP test 250 Low 5000 High					
Leak Off and Formation Integrity Tests									
Test Type		Depth (ftKB)		Dens Fluid (lb/gal)					
FORMATION INTEGRITY		1,011.0		12.50					
Casing Pressure Test									
Test Type	Test Subtype	Date	Item Tested	Failed?	Time (min)	P (psi)			
CASING	STANDARD	7/23/2021	SURFACE, 1,011.0ftKB	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	1,011.0	1,010.8	13 3/8	J55	54.50	BTC	656.6		
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					11,798	28,688.0	
DIESEL	MUD	GAL		2,048			37,450	2,048.0	
WATER	FRESH	BBL	0	0		Meter reading beginning 50005 ending 50005	0	24,037.0	
Mud Additive Amounts									
Des	Type	Units	Rec	Consumed	On Loc	Cum Cons			
BICARBONATE OF SODA	ALKALINITY CONTROL	SACK		20	86.0	20			
CAUSTIC SODA	ALKALINITY CONTROL	SACK		3	141.0	3			
XANTHAN GUM	VISCOSIFIER	SACK		10	192.0	100			
Pump Operations									
Pump #	Make	Model	Liner Size (in)	Stroke (in)	Vol/Stk (bbl/stk)	P Max (psi)			
1	GARDNER-DENVER	PZ-11-1600	5 1/2	11.00	0.081	6,374.0			
2	GARDNER-DENVER	PZ-11-1600	5 1/2	11.00	0.081	6,374.0			
3	GARDNER-DENVER	PZ-11-1600	5 1/2	11.00	0.081	6,374.0			
Pump Checks									
Pump #	Depth (ftKB)	Time	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)			
Deviation Surveys									
Date 7/14/2021	Description AS DRILL SURVEY					Job ODR, 7/14/2021 06:00			
Survey Data - All surveys for 24 hr reporting period									
MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)		
4,712.00	11.15	166.42	4,664.07	586.57	-548.79	208.11	1.83		
4,806.00	9.40	166.89	4,756.55	603.26	-565.10	211.99	1.86		
Date 9/25/2021	Description SIDETRACK					Job ODR, 7/14/2021 06:00			
Survey Data - All surveys for 24 hr reporting period									
MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)		
4,716.00	9.74	160.47	4,668.21	585.86	-548.08	208.84	0.52		
4,742.00	8.11	147.53	4,693.90	589.87	-551.70	210.56	9.91		
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			-2,315.0		5,050.5				
263_5_TOP_CHERRY_CANYON			-3,210.0		5,945.5				
264_5_TOP_BRUSHY_CANYON			-4,490.0		7,225.5				
264_AVLN			-5,350.0		8,085.5				
ALT_ICP1			-5,550.0		8,285.5				
265_BSPG1			-5,815.0		8,550.5				
267_BSPG2			-7,150.0		9,885.5				
268_BSPG3			-7,630.0		10,365.5				
268_PHANTOM FIELD TOP			-7,630.0		10,365.5				
ICP1			-8,035.0		10,770.5				
268_BSPG3 BASE CARBONATE			-8,190.0		10,925.5				
270_0_WFMP_A1			-8,565.0		11,300.5				
TOT			-8,640.0		11,375.5				
BOT			-8,730.0		11,465.5				
FIRST TAKE POINT (FTP)			-8,675.0		11,410.5				
PBHL/TD			-8,590.0		11,325.5				
Daily Contacts									
Job Contact		Title	Office	Mobile	Email				
LINDBLAD, ALEXANDER, ENGINEER		ENGINEER	972-969-1749		ALEXANDER.LINDBLAD@PXD.COM				
COX, BRYAN, ENGINEER		ENGINEER	972-969-5717	361-318-4212	BRYAN.COX@PXD.COM				
HARDIN, JOE, AREA DRILLING SUPERINTENDENT		AREA DRILLING SUPERINTENDENT	361-452-2118	361-318-8762	THOMAS.HARDIN@PXD.COM				
VILLESCAS, BERNIE, SUPERINTENDENT		SUPERINTENDENT	432-571-2950	432-312-2088	BERNIE.VILLESCAS@PXD.COM				
Daily Drilling Report									

Daily Drilling Report

H & P - 487	
Accept: 8/18/2021	Release:
Days Since LTI: 382.00	Days Since RI: 382.00

Job:	ODR
Report Date:	9/26/2021
Report #:	18
DFS:	16
AFE #:	9015111
Total AFE + Sup:	\$4,412,374.71
Daily Field Est. (Cost):	\$67,564.44

[illegible]

Daily Drilling Report

UTL 1308A 4101H				DELAWARE	
H & P - 487				Job:	ODR
Accept: 8/18/2021				Report Date:	9/27/2021
Days Since LTI: 383.00				Report #:	19
Release:				DFS:	17
Days Since RI: 383.00				AFE #:	9015111
				Total AFE + Sup:	\$4,412,374.71
				Daily Field Est. (Cost):	\$51,745.75

P/I/UWI 42-475-38217-0000		Well Profile HORIZONTAL		Open Formation WOLFCAMP A1 (WFMP A1)		Field Name PHANTOM (WOLFCAMP)														
SSN ID00056072		Property Sub		KB-Grd (ft) 26.50		Orig KB Elev (ft) 2,735.50		Ground Elevation (ft) 2,709.00		Spud Date 7/14/2021		TD Date								
Jobs																				
Responsible Grp 2				Responsible Grp 3				Job Type		Start Date			End Date		Job Status					
DRL ENG - ALEXANDER LINDBLAD				AREA TEAM 2				ODR		7/14/2021 06:00					IN PROGRESS					
Job Dates (ex. Estimated Pad Release, TXRRC Calls)																				
Type				Subtype				Date			Note									
MILESTONE				ESTIMATED PAD RELEASE				10/15/2021			3 well pad. Drilling Inter. #1 Batch Drilling									
Daily Operations																				
Footage/Meterage (ft) 1,401.00			Drilling Hours (hr) 17.25			% Rotating Time (%) 47.83			End Depth (ftKB) 6,208.0			Target Depth (ftKB) 22,083.0			Daily Field Est Total (Cost) 51,745.75		Cum Field Est To Date (Cost) 1,902,174.18			
24 HR ROP (ft/hr) 81.2			Circulating Hours (hr) 2.50			% Sliding Time (%) 52.17			End Depth (TVD) (ftKB) 6,144.9			Target Depth (TVD) (ftKB) 11,325.0			Daily Mud Field Est (Cost) 2,041.94		Cum Mud Field Est (Cost) 34,174.77		Total AFE + Sup (Cost) 4,412,374.71	
Daily Goal Description DRILLED FEET						Daily Goal - Last 24 2,000.0						Daily Goal - Next 24 2,000.0						Goal Comments Goal not met/ NPT on rig		
Backbuild		Lateral Inclination		Last Casing String SURFACE, 1,011.0ftKB						Next Casing String PROPOSED INTERMEDIATE, 8,353.0ftKB										
Avg Connection Gas 0.00			Avg Trip Gas 0.00			Avg Background Gas 23.00			Max Connection Gas 0.00			Max Trip Gas 0.00			Max Drill Gas 27.00					
Operations Summary Slip & Cut, TIH T/4,807', Drill Inter. #1 sidetrack F/4,807' T/5,829', NPT trouble shoot generator problem, Drill Inter. #1 sidetrack F/5,829' T/6,208' (52.17% Sliding, 26' Above, 78' Left Per Dir. sidetrack #1, plan #1 Held 10.0 degree tangent T/ 5,600')																				
Operations Next Report Period Drill Inter. #1 sidetrack F/6,208' T/8,208'																				
Operations at Report Time Drilling Inter. #1 sidetrack @ 6,208'																				
Remarks Daily NPT: 1.5, Rig: 0 , 3rd: 0 PNR: 1.5 Cum. NPT: 1.5, Rig: 0, 3rd: 0, PNR: 0 Surface: 100% Intermediate #1= 70% Intermediate #2: 0% Curve: 0% Lateral: 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	07:00	INT, POST DRL	SLIP_CUT	SIDETRA CK	Slip and cut drill line						4,807.0	4,807.0	1.00	7					
07:00	2.5	09:30	INT, POST DRL	TIH_ELEV	SIDETRA CK	TIH T/ 4,655', monitor well on trip tank, hole displacing properly						4,807.0	4,807.0	2.50	7					
09:30	0.75	10:15	INT, POST DRL	TIH_NONELEV	SIDETRA CK	Orient tool face prior to entering side track, attempt to slack off in side track w/ no pumps unsuccesful, slide,wash and ream to bottom						4,807.0	4,807.0	0.75	7					
10:15	3.75	14:00	INT, POST DRL	DRL	SIDETRA CK	Drilling intermediate section F/ 4,807' T/ 5,074' (267' @ 71.2 fph), 100% returns						4,807.0	5,074.0	3.75	7					
14:00	0.5	14:30	INT, POST DRL	HDL_ROT HD	SIDETRA CK	Change out Rotating Head Element						5,074.0	5,074.0	0.50	7					
14:30	7.5	22:00	INT, POST DRL	DRL	SIDETRA CK	Drilling intermediate section F/5,074' T/5,829' (755' @ 100.6 fph), 100% returns						5,074.0	5,829.0	7.50	7					
22:00	0.5	22:30	INT, POST DRL	RIG_SVC	SIDETRA CK	Lubricate Rig						5,829.0	5,829.0	0.50	7					
22:30	1.5	00:00	INT, POST DRL	RIG_RPR	SIDETRA CK	Troubleshoot generators, 3 gens are dropping off line when mud pumps are shut down. (work pipe and pump 60 spm, while troubleshooting)						5,829.0	5,829.0	1.50	7, 13					
00:00	6	06:00	INT, POST DRL	DRL	SIDETRA CK	Drilling intermediate section F/5,829' T/6,208' (379' @ 63.2 fph), 100% returns						5,829.0	6,208.0	6.00	7					
Interval Problems																				
RIG, 5,829.0ftKB, 9/26/2021 22:30																				
Ref #	Dur (N...)	Ex...	Subtype	Problem Descript...	Est Cost OR (Cost)	Accountable Party HELMERICH & PAYNE INTERNATIONAL DRILLING CO				Comment Troubleshoot generators, 3 gens are dropping off line when mud pumps are shut down.										
13	1.50	No	POWER SYSTEMS	MOTORS																
Drill Strings																				
BHA #6 , SIDETRACK																				
Bit Run 5RR				Drill Bit 12 1/4in, CF716, 53893						Bit Type PDC				Make ULTERRA						
Nozzles (1/32") 13/13/13/13/13/13				Bit Total Fluid Area (nozzles) (in²) 0.91				IADC Bit Dull -----				Hours Drilled By Bit (hr) 17.25		Depth Drilled By Bit (ft) 1,401.00						
BHA Drilling Time (hr) 17.25				BHA Depth Drilled (ft) 1,401.00				BHA ROP (ft/hr) 81.2				Depth In (ftKB) 4,807.0		Depth Out (ftKB) 6,208.0						
Drill String Components																				
Jts	Item Des				OD (in)		ID (in)		Len (ft)		Cum Len (ft)		Wt (lbf)		Cum Wt (1000lbf)		Make			
138	DRILL PIPE				5		4.81		4,339.56		6,208.00		84,621.4		85		RIG			
17	HWDP - SPIRALED				5		3.00		511.21		1,868.44				0		RIG			
Daily Drilling Report																				
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Printed: Monday, September 27, 2021																				

Daily Drilling Report

H & P - 487

Accept: 8/18/2021

Days Since LTI: 383.00

Release:

Days Since RI: 383.00

DELAWARE

Job:

ODR

Report Date:

9/27/2021

Report #:

19

DFS:

17

AFE #:

9015111

Total AFE + Sup:

\$4,412,374.71

Daily Field Est. (Cost):

\$51,745.75

Hydraulic Calculations										
Dens Mud (lb/gal)	ECD End (lb/gal)	Bit Hydraulic Power (hp)	HP/Area (hp/in ²)	Jet Vel (ft/s)	Bit dP (psi)	Min Open Hole AV (ft/min)	Max Open Hole AV (ft/min)	Vol DrillString (bbl)	Vol Bit to Shoe (bbl)	Vol Shoe to Top (bbl)
9.80	10.08	397.6	3.4	300.6	801.9	23.8	847.6	111.60	535.23	129.38

Daily Drilling Report

Mud Checks												
Time 01:00		Mud Company PIONEER DRILLING FLUIDS			Type DIRECT EMULSION		Depth (ftKB) 5,829.0		Density (lb/gal) 9.80	Funnel Viscosity (s/qt) 45	T Flowline (°F)	
PV (cP) 13.0		YP (lb/100ft²) 15.000	Vis 3rpm 3	Vis 6rpm 4	Filtrate (mL/30min) 30.0		HTHP Filtrate (mL/30min) 32.0		HTHP Temperature (°F) 250.0		HTHP Pressure (psi) 500.0	
Solids (%) 13.0			Low Gravity Solids (%) 4.3		Sand (%) 0.1		MBT (lb/bbl)		Pm (mL/mL)		PI (mL/mL)	
Chlorides (mg/L) 145,000			Calcium (mg/L)		CaCl (ppm) 1,600,000	Oil Water Ratio 26/74		Electric Stab (V)		Lime (lb/bbl) 0.2	pH 9.5	
Gel 10 sec (lb/100ft²) 4.000					Gel 10 min (lb/100ft²) 7.000			Gel 30 min (lb/100ft²) 10.000				
Comment POOH from 4259' to 2200'. Ream from 2200' to 1402'. POOH from 1402' to BHA. L/D BHA. P/U BHA. TIH at 419'. Cut drill line 83'. TIH from 419' to 4807'. Drilling/Sliding from 4807' to 5829'. Repair GENs at report time. Footage drilled last 24hrs-1022', ROP 15, WOB -15K, RPM -18 rpm, Torque -4 K, Diff - psi, P/U - 244K, S/O - 184 K. Lithology @ 5,810'- Sand 95%, Shale 5%												
Last BOP Test												
Date		Test Type			Item Tested		Next Test Date		Com			
8/20/2021		BOP			BOP'S, 8/18/2021 22:30, <class>		9/10/2021		Full BOP test 250 Low 5000 High			
Leak Off and Formation Integrity Tests												
Test Type				Depth (ftKB)				Dens Fluid (lb/gal)				
FORMATION INTEGRITY				1,011.0				12.50				
Casing Pressure Test												
Test Type		Test Subtype			Date		Item Tested		Failed?	Time (min)	P (psi)	
CASING		STANDARD			7/23/2021		SURFACE, 1,011.0ftKB		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		1,011.0		1,010.8		13 3/8		J55	54.50		BTC	656.6
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		3,252				7,133	33,353.0	
DIESEL			MUD	GAL		8,697				28,753	10,745.0	
WATER			FRESH	BBL	0	0		Meter reading beginning 50005 ending 50005		0	24,037.0	
Mud Additive Amounts												
Des			Type		Units		Rec	Consumed		On Loc	Cum Cons	
BICARBONATE OF SODA			ALKALINITY CONTROL		SACK			20		66.0	40	
CAUSTIC SODA			ALKALINITY CONTROL		SACK			7		134.0	10	
HYPERMUL			EMULSIFIER		GAL			1		12.0	1	
SODA ASH			ALKALINITY CONTROL		SACK			20		82.0	59	
XANTHAN GUM			VISCOSIFIER		SACK			10		182.0	110	
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		6,374.0	
2	GARDNER-DENVER				PZ-11-1600		5 1/2	11.00	0.081		6,374.0	
3	GARDNER-DENVER				PZ-11-1600		5 1/2	11.00	0.081		6,374.0	
Pump Checks												
Pump #	Depth (ftKB)		Time	P (psi)		Strokes (spm)		Q Flow (gpm)		Eff (%)		
1	6,000.0		03:05	350.0		30		97		95		
1	6,000.0		03:06	390.0		40		129		95		
1	6,000.0		03:07	450.0		50		161		95		
2	6,000.0		03:08	340.0		30		97		95		
2	6,000.0		03:09	380.0		40		129		95		
2	6,000.0		03:10	440.0		50		161		95		
Deviation Surveys												
Date 7/14/2021		Description AS DRILL SURVEY							Job ODR, 7/14/2021 06:00			
Survey Data - All surveys for 24 hr reporting period												
MD (ftKB)		Incl (°)		Azm (°)		TVD (ftKB)		VS (ft)		NS (ft)	EW (ft)	DLS (°/100ft)
4,900.00		8.67		166.17		4,849.39		617.96		-579.45	215.42	0.79
4,994.00		9.43		168.57		4,942.22		632.65		-593.88	218.64	0.90
5,089.00		10.91		168.30		5,035.72		649.29		-610.31	222.01	1.56
5,183.00		9.95		168.48		5,128.17		666.18		-626.98	225.43	1.02
5,277.00		9.62		168.28		5,220.80		682.03		-642.63	228.65	0.35
5,371.00		9.53		167.55		5,313.49		697.56		-657.92	231.92	0.16
5,465.00		10.08		162.23		5,406.12		713.52		-673.35	236.11	1.13
5,560.00		9.95		160.75		5,499.67		730.04		-689.02	241.35	0.30
5,654.00		9.94		160.03		5,592.26		746.27		-704.31	246.80	0.13
5,748.00		9.69		159.58		5,684.88		762.29		-719.35	252.33	0.28
5,842.00		9.70		160.32		5,777.54		778.11		-734.22	257.76	0.13
5,936.00		8.36		157.32		5,870.37		792.85		-747.98	263.06	1.51
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Survey Data - All surveys for 24 hr reporting period							
MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
6,031.00	6.21	149.78	5,964.60	804.78	-758.80	268.31	2.47
6,125.00	5.08	144.29	6,058.15	813.74	-766.57	273.30	1.33

Date 9/25/2021	Description SIDETRACK	Job ODR, 7/14/2021 06:00
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Survey Data - All surveys for 24 hr reporting period							
MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
4,814.00	8.56	107.40	4,765.19	528.92	-557.59	218.41	7.94
4,908.00	11.06	119.88	4,857.82	544.21	-564.18	232.91	3.48
5,007.00	11.33	124.31	4,954.94	563.20	-574.39	249.17	0.91
5,102.00	10.82	123.36	5,048.17	581.32	-584.55	264.33	0.57
5,196.00	10.43	126.61	5,140.56	598.56	-594.48	278.53	0.76
5,290.00	10.33	131.30	5,233.02	615.48	-605.12	291.69	0.90
5,384.00	10.07	130.91	5,325.54	632.12	-616.06	304.23	0.29
5,479.00	9.73	131.51	5,419.12	648.45	-626.82	316.52	0.37
5,573.00	9.55	130.88	5,511.79	664.19	-637.19	328.37	0.22
5,668.00	7.94	129.72	5,605.69	678.64	-646.54	339.37	1.70
5,763.00	4.63	127.53	5,700.10	689.03	-653.07	347.46	3.49
5,857.00	1.84	133.08	5,793.94	694.32	-656.41	351.57	2.98
5,952.00	1.07	153.63	5,888.91	696.67	-658.25	353.08	0.97

Formations					
Formation Name	Prog Top (TVD SS) Override (ft(elv))	Prog Top MD (ftKB)	Prog Top (TVD) (ftKB)	Final Top MD (ftKB)	Final Top (TVD) (ftKB)
264_5_TOP_BRUSHY_CANYON	-4,490.0		7,225.5		
264_AVLN	-5,350.0		8,085.5		
ALT_ICP1	-5,550.0		8,285.5		
265_BSPG1	-5,815.0		8,550.5		
267_BSPG2	-7,150.0		9,885.5		
268_BSPG3	-7,630.0		10,365.5		
268_PHANTOM FIELD TOP	-7,630.0		10,365.5		
ICP1	-8,035.0		10,770.5		
268_BSPG3 BASE CARBONATE	-8,190.0		10,925.5		
270_0_WFMP_A1	-8,565.0		11,300.5		
TOT	-8,640.0		11,375.5		
BOT	-8,730.0		11,465.5		
FIRST TAKE POINT (FTP)	-8,675.0		11,410.5		
PBHL/TD	-8,590.0		11,325.5		

Daily Contacts				
Job Contact	Title	Office	Mobile	Email
LINDBLAD, ALEXANDER, ENGINEER	ENGINEER	972-969-1749		ALEXANDER.LINDBLAD@PXD.COM
COX, BRYAN, ENGINEER	ENGINEER	972-969-5717	361-318-4212	BRYAN.COX@PXD.COM
HARDIN, JOE, AREA DRILLING SUPERINTENDENT	AREA DRILLING SUPERINTENDENT	361-452-2118	361-318-8762	THOMAS.HARDIN@PXD.COM
VILLESCAS, BERNIE, SUPERINTENDENT	SUPERINTENDENT	432-571-2950	432-312-2088	BERNIE.VILLESCAS@PXD.COM
SALAZAR, TODD, WELLSITE SUPERVISOR	WELLSITE SUPERVISOR		325-232-2114	TODD.SALAZAR1@PXD.COM
WHITE, JOHN, WELLSITE SUPERVISOR	WELLSITE SUPERVISOR		337-353-5797	JOHN.WHITE@PXD.COM
RIG-H&P 487, RIG PHONE	RIG PHONE	432-200-0785		DL-HP487@PXD.COM

Personnel Log	
Company	Count
PIONEER NATURAL RESOURCES USA INC	4
HELMERICH & PAYNE INTERNATIONAL DRILLING CO	13
ALTITUDE ENERGY PARTNERS INC	2
GORDON TECHNOLOGIES LLC	1
DYNAMIC ENERGY SERVICES LLC	1
STRATAGRAPH INC	2
SAFETY AUTOMATION TECHNOLOGY LLC	2

Daily Drilling Report

UTL 1308A 4101H				DELAWARE	
H & P - 487				Job:	ODR
Accept: 8/18/2021				Report Date:	9/28/2021
Days Since LTI: 384.00				Report #:	20
Release:				DFS:	18
Days Since RI: 384.00				AFE #:	9015111
				Total AFE + Sup:	\$4,412,374.71
				Daily Field Est. (Cost):	\$135,683.97

P/I/UWI 42-475-38217-0000		Well Profile HORIZONTAL		Open Formation WOLFCAMP A1 (WFMP A1)		Field Name PHANTOM (WOLFCAMP)					
SSN ID00056072	Property Sub	KB-Grd (ft) 26.50	Orig KB Elev (ft) 2,735.50	Ground Elevation (ft) 2,709.00	Spud Date 7/14/2021	TD Date					
Jobs											
Responsible Grp 2		Responsible Grp 3		Job Type	Start Date	End Date	Job Status				
DRL ENG - ALEXANDER LINDBLAD		AREA TEAM 2		ODR	7/14/2021 06:00		IN PROGRESS				
Job Dates (ex. Estimated Pad Release, TXRRC Calls)											
Type		Subtype		Date	Note						
MILESTONE		ESTIMATED PAD RELEASE		10/15/2021	3 well pad. Drilling Inter. #1 Batch Drilling						
Daily Operations											
Footage/Meterage (ft) 1,760.00		Drilling Hours (hr) 23.50		% Rotating Time (%) 100.00		End Depth (ftKB) 7,968.0	Target Depth (ftKB) 22,083.0	Daily Field Est Total (Cost) 135,683.97	Cum Field Est To Date (Cost) 2,053,354.15		
24 HR ROP (ft/hr) 74.9		Circulating Hours (hr) 0.50		% Sliding Time (%) 0.00		End Depth (TVD) (ftKB) 7,904.8	Target Depth (TVD) (ftKB) 11,325.0	Daily Mud Field Est (Cost) 3,411.39	Cum Mud Field Est (Cost) 37,586.16	Total AFE + Sup (Cost) 4,412,374.71	
Daily Goal Description DRILLED FEET				Daily Goal - Last 24 2,000.0			Daily Goal - Next 24 397.0		Goal Comments Goal not met/-12%		
Backbuild		Lateral Inclination		Last Casing String SURFACE, 1,011.0ftKB				Next Casing String PROPOSED INTERMEDIATE, 8,353.0ftKB			
Avg Connection Gas 0.00		Avg Trip Gas 0.00		Avg Background Gas 49.00		Max Connection Gas 0.00		Max Trip Gas 0.00		Max Drill Gas 105.00	
Operations Summary Drill Inter. #1 sidetrack F/6,208' T/7,968' (00.00% Sliding, 85' Above, 15' Right, Per Dir. sidetrack #1, plan #1 Held 10.0 degree tangent T/ 5,600')											
Operations Next Report Period Drill Inter. #1 sidetrack F/7,968' T/8,365', Circulate 2 Hi-Vis sweeps, TOO H, L/D 8" DC's & BHA, pull wear bushing, R/U 9 5/8 Casing											
Operations at Report Time Drilling Inter. #1 sidetrack @ 7,968'											
Remarks Daily NPT: 1.5, Rig: 0 , 3rd: 0 PNR: 1.5 Cum. NPT: 1.5, Rig: 0, 3rd: 0, PNR: 0 Surface: 100% Intermediate #1= 94% Intermediate #2: 0% Curve: 0% Lateral: 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	22.25	04:15	INT, POST DRL	DRL	SIDETRA CK	Drilling intermediate section F/6,208' T/7,905' (,1697' @ 76.3 fph), 100% returns		6,208.0	7,905.0	22.25	7
04:15	0.5	04:45	INT, POST DRL	RIG_SVC	SIDETRA CK	Lubricate Rig		7,905.0	7,905.0	0.50	7
04:45	1.25	06:00	INT, POST DRL	DRL	SIDETRA CK	Drilling intermediate section F/7,905' T/7,968' (63' @ 50.4 fph), 100% returns		7,905.0	7,968.0	1.25	7
Drill Strings											
BHA #6 , SIDETRACK											
Bit Run 5RR			Drill Bit 12 1/4in, CF716, 53893				Bit Type PDC		Make ULTERRA		
Nozzles (1/32") 13/13/13/13/13/13			Bit Total Fluid Area (nozzles) (in²) 0.91		IADC Bit Dull -----		Hours Drilled By Bit (hr) 40.75		Depth Drilled By Bit (ft) 3,161.00		
BHA Drilling Time (hr) 40.75			BHA Depth Drilled (ft) 3,161.00		BHA ROP (ft/hr) 77.6		Depth In (ftKB) 4,807.0		Depth Out (ftKB) 7,968.0		
Drill String Components											
Jts	Item Des				OD (in)	ID (in)	Len (ft)	Cum Len (ft)	Wt (lbf)	Cum Wt (1000lbf)	Make
95	DRILL PIPE				4 1/2	2.75	2,987.89	7,968.00	49,599.0	110	QUAIL
1	SUB - XO				4 3/4	2.75	4.98	4,980.11		61	QUAIL
99	DRILL PIPE				5	4.81	3,106.69	4,975.13	60,580.5	61	RIG
17	HWDP - SPIRALED				5	3.00	511.21	1,868.44		0	RIG
1	DRILLING JARS - HYDRAULIC				6 1/2	2.93	33.98	1,357.23		0	KNIGHT OIL TOOLS LLC
33	HWDP - SPIRALED				5	3.00	994.02	1,323.25		0	RIG
1	SUB - XO				6 3/4	3.00	4.07	329.23		0	RIG
6	DRILL COLLAR - SPIRALED				8	3.00	181.51	325.16		0	RIG
1	SUB - XO				8	3.00	3.21	143.65		0	STABIL DRILL
1	ACCELERATOR				8	3.50	26.00	140.44		0	COUGAR
1	REAMER - ROLLER				8 1/4	2.88	8.03	114.44		0	
1	DRILL COLLAR - NON MAG				8	3.75	30.03	106.41		0	STABIL DRILL
1	MWD TOOL - RETRIEVABLE				8	3.75	29.36	76.38		0	STABIL DRILL
1	SUB - UBHO				8	3.50	3.97	47.02		0	GORDON
1	REAMER - ROLLER				8	2.88	5.76	43.05		0	
1	MOTOR - STABILIZER SLEEVE				9 5/8	1.00	35.79	37.29		0	ALTITUDE ENERGY PARTNERS
Mud Motors											
SN		Bend Angle		Bearing Type	Lobe Config		# Stages	Lwr Defln Type		Bit To Bend	
9014		1.75		NOT SEALED	7:8		7			8.46	
Sensors											
Sensor Type			Sensor-Bit (ft)				Note				
GAMMA			54.55								
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Daily Drilling Report

Sensors																			
Sensor Type				Sensor-Bit (ft)				Note											
DIRECTIONAL				65.08															
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	12:00	6,208.0	1,082.00	180.3	55	30	1,100.0	1,000	5,600.0	0.0	205	250	180	205	23.0	11.0	0		
12:00	00:00	7,290.0	490.00	40.8	55	30	600.0	850	4,750.0	0.0	205	250	180	205	19.0	13.0	0		
00:00	04:15	7,780.0	125.00	29.4	55	30	600.0	850	4,750.0	0.0	205	250	180	205	19.0	13.0	0		
04:15	04:45	7,905.0	0.00		0	0	0.0	850	4,100.0	0.0	205	250	180	205	0.0	0.0	0		
04:45	06:00	7,905.0	63.00	50.4	55	30	600.0	850	4,750.0	0.0	205	250	180	205	16.0	13.0	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)									
9.65	9.95	391.5	3.3	300.6	789.6	23.7	847.6	129.61	653.48	133.93									
Mud Checks																			
Time 01:00		Mud Company PIONEER DRILLING FLUIDS				Type DIRECT EMULSION		Depth (ftKB) 7,726.0		Density (lb/gal) 9.65		Funnel Viscosity (s/qt) 47		T Flowline (°F)					
PV (cP) 16.0		YP (lb/100ft²) 15.000		Vis 3rpm 2		Vis 6rpm 3		Filtrate (mL/30min) 27.0		HTHP Filtrate (mL/30min) 32.0		HTHP Temperature (°F) 250.0		HTHP Pressure (psi) 500.0					
Solids (%) 12.5				Low Gravity Solids (%) 4.4				Sand (%) 0.1				MBT (lb/bbl)		Pm (mL/mL)		Pf (mL/mL)			
Chlorides (mg/L) 155,000			Calcium (mg/L)			CaCl (ppm) 1,760,000		Oil Water Ratio 32/68			Electric Stab (V)			Lime (lb/bbl) 0.4		pH 9.5			
Gel 10 sec (lb/100ft²) 4.000						Gel 10 min (lb/100ft²) 7.000						Gel 30 min (lb/100ft²) 10.000							
Comment Drilling/Sliding from 5829' to 7720' at report time. Footage drilled last 24hrs-1891', ROP 38, WOB -56K, RPM -30 rpm, Torque -14.9 K, Diff - 449psi, P/U - 244K, S/O - 184 K. Lithology @ 7700'- Sand 50%, 45% shale, and 5% Limestone																			
Last BOP Test																			
Date		Test Type				Item Tested				Next Test Date		Com							
8/20/2021		BOP				BOP'S, 8/18/2021 22:30, <class>				9/10/2021		Full BOP test 250 Low 5000 High							
Leak Off and Formation Integrity Tests																			
Test Type						Depth (ftKB)						Dens Fluid (lb/gal)							
FORMATION INTEGRITY						1,011.0						12.50							
Casing Pressure Test																			
Test Type				Test Subtype				Date		Item Tested				Failed?	Time (min)		P (psi)		
CASING				STANDARD				7/23/2021		SURFACE, 1,011.0ftKB				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		1,011.0		1,010.8		13 3/8		J55		54.50		BTC		656.6					
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		3,464		4,797							5,800		38,150.0		
DIESEL		MUD		GAL		11,095		19,542							20,306		30,287.0		
WATER		FRESH		BBL		0		0				Meter reading beginning 50005 ending 50005			0		24,037.0		
Mud Additive Amounts																			
Des				Type		Units		Rec		Consumed		On Loc		Cum Cons					
BICARBONATE OF SODA				ALKALINITY CONTROL		SACK				11		55.0		51					
CAUSTIC SODA				ALKALINITY CONTROL		SACK				2		132.0		12					
PAC-L				FLUID LOSS ADDITIVES		SACK		26		26		48.0		52					
SODA ASH				ALKALINITY CONTROL		SACK		45		98		29.0		157					
TRANSPORTATION				MISCELLANEOUS		MILE		1		1		0.0		1					
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		6,374.0					
2		GARDNER-DENVER				PZ-11-1600		5 1/2		11.00		0.081		6,374.0					
3		GARDNER-DENVER				PZ-11-1600		5 1/2		11.00		0.081		6,374.0					
Pump Checks																			
Pump #		Depth (ftKB)		Time		P (psi)		Strokes (spm)		Q Flow (gpm)				Eff (%)					
1		7,900.0		04:20		360.0		30		97				95					
1		7,900.0		04:21		430.0		40		129				95					
Daily Drilling Report																			
Page 2/4																			
Printed: Tuesday, September 28, 2021																			

Daily Drilling Report

UTL 1308A 4101H

H & P - 487

Accept: 8/18/2021 Release:

Days Since LTI: 384.00 Days Since RI: 384.00

DELAWARE

Job: ODR

Report Date: 9/28/2021

Report #: 20

DFS: 18

AFE #: 9015111

Total AFE + Sup: \$4,412,374.71

Daily Field Est. (Cost): \$135,683.97

Pump Checks							
Pump #	Depth (ftKB)	Time	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)	
1	7,900.0	04:22	490.0	50	161	95	
2	7,900.0	04:23	350.0	30	97	95	
2	7,900.0	04:24	420.0	40	129	95	
2	7,900.0	04:25	490.0	50	161	95	
Deviation Surveys							
Date 7/14/2021		Description AS DRILL SURVEY				Job ODR, 7/14/2021 06:00	
Survey Data - All surveys for 24 hr reporting period							
MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
6,220.00	3.38	128.90	6,152.89	251.90	-771.74	277.94	2.14
6,314.00	1.08	134.29	6,246.81	251.13	-774.10	280.73	2.45
6,408.00	0.44	66.29	6,340.80	250.66	-774.57	281.69	1.07
6,502.00	0.35	0.00	6,434.80	250.13	-774.14	282.02	0.47
6,608.00	0.38	77.68	6,540.80	249.61	-773.74	282.37	0.43
6,691.00	0.65	56.21	6,623.80	248.90	-773.42	283.03	0.39
6,785.00	0.35	58.65	6,717.79	248.08	-772.98	283.71	0.32
6,879.00	0.31	107.89	6,811.79	247.65	-772.91	284.20	0.30
6,973.00	0.38	252.65	6,905.79	247.80	-773.08	284.15	0.70
7,068.00	0.65	222.82	7,000.79	248.62	-773.57	283.48	0.39
7,162.00	0.71	253.17	7,094.78	249.69	-774.13	282.56	0.38
7,256.00	0.61	237.95	7,188.77	250.74	-774.56	281.58	0.21
7,351.00	0.52	262.76	7,283.77	251.61	-774.88	280.72	0.27
7,445.00	0.78	269.21	7,377.76	252.49	-774.95	279.66	0.29
7,633.00	0.81	238.12	7,565.75	254.84	-775.67	277.25	0.23
7,728.00	1.16	245.11	7,660.73	256.44	-776.42	275.81	0.39
7,822.00	0.98	247.15	7,754.72	258.15	-777.14	274.20	0.20
7,916.00	1.09	226.43	7,848.70	259.81	-778.07	272.82	0.41
Date 9/25/2021		Description SIDETRACK				Job ODR, 7/14/2021 06:00	
Survey Data - All surveys for 24 hr reporting period							
MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
6,235.00	0.39	213.22	6,171.90	711.29	-660.87	352.40	0.16
6,329.00	0.35	178.12	6,265.89	711.55	-661.43	352.24	0.24
6,423.00	0.31	168.58	6,359.89	711.96	-661.96	352.30	0.07
6,517.00	0.14	146.47	6,453.89	712.28	-662.31	352.41	0.20
6,612.00	0.19	167.26	6,548.89	712.53	-662.56	352.51	0.08
6,706.00	0.18	184.18	6,642.89	712.75	-662.86	352.53	0.06
6,800.00	0.25	150.59	6,736.89	713.04	-663.18	352.62	0.15
6,894.00	0.21	140.08	6,830.89	713.41	-663.50	352.83	0.06
6,988.00	0.27	169.17	6,924.89	713.76	-663.84	352.99	0.14
7,083.00	0.50	153.80	7,019.89	714.33	-664.44	353.21	0.26
7,177.00	0.49	158.75	7,113.88	715.08	-665.18	353.54	0.05
7,272.00	0.58	179.83	7,208.88	715.78	-666.04	353.69	0.23
7,366.00	0.55	198.85	7,302.88	716.30	-666.94	353.54	0.20
7,460.00	0.55	200.74	7,396.87	716.67	-667.79	353.24	0.02
7,555.00	0.80	202.30	7,491.86	717.09	-668.83	352.82	0.26
7,649.00	0.60	209.13	7,585.86	717.45	-669.87	352.34	0.23
7,743.00	0.67	196.00	7,679.85	717.83	-670.83	351.94	0.17
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			-5,350.0		8,085.5		
ALT_ICP1			-5,550.0		8,285.5		
265_BSPG1			-5,815.0		8,550.5		
267_BSPG2			-7,150.0		9,885.5		
268_BSPG3			-7,630.0		10,365.5		
268_PHANTOM FIELD TOP			-7,630.0		10,365.5		
ICP1			-8,035.0		10,770.5		
268_BSPG3 BASE CARBONATE			-8,190.0		10,925.5		
270_0_WFMP_A1			-8,565.0		11,300.5		
TOT			-8,640.0		11,375.5		
BOT			-8,730.0		11,465.5		
FIRST TAKE POINT (FTP)			-8,675.0		11,410.5		
PBHL/TD			-8,590.0		11,325.5		
Daily Contacts							
Job Contact		Title	Office	Mobile	Email		
LINDBLAD, ALEXANDER, ENGINEER		ENGINEER	972-969-1749		ALEXANDER.LINDBLAD@PXD.COM		
COX, BRYAN, ENGINEER		ENGINEER	972-969-5717	361-318-4212	BRYAN.COX@PXD.COM		
HARDIN, JOE, AREA DRILLING SUPERINTENDENT		AREA DRILLING SUPERINTENDENT	361-452-2118	361-318-8762	THOMAS.HARDIN@PXD.COM		
VILLESCAS, BERNIE, SUPERINTENDENT		SUPERINTENDENT	432-571-2950	432-312-2088	BERNIE.VILLESCAS@PXD.COM		
SALAZAR, TODD, WELLSITE SUPERVISOR		WELLSITE SUPERVISOR		325-232-2114	TODD.SALAZAR1@PXD.COM		
Daily Drilling Report		Page 3/4			Printed: Tuesday, September 28, 2021		

Daily Drilling Report

H & P - 487	
Accept: 8/18/2021	Release:
Days Since LTI: 384.00	Days Since RI: 384.00

Job:	ODR
Report Date:	9/28/2021
Report #:	20
DFS:	18
AFE #:	9015111
Total AFE + Sup:	\$4,412,374.71
Daily Field Est. (Cost):	\$135,683.97

Daily Contacts				
Job Contact	Title	Office	Mobile	Email
WHITE, JOHN, WELLSITE SUPERVISOR	WELLSITE SUPERVISOR		337-353-5797	JOHN.WHITE@PXD.COM
RIG-H&P 487, RIG PHONE	RIG PHONE	432-200-0785		DL-HP487@PXD.COM
Personnel Log				
Company				Count
PIONEER NATURAL RESOURCES USA INC				4
HELMERICH & PAYNE INTERNATIONAL DRILLING CO				13
ALTITUDE ENERGY PARTNERS INC				2
GORDON TECHNOLOGIES LLC				1
DYNAMIC ENERGY SERVICES LLC				1
STRATAGRAPH INC				2
SAFETY AUTOMATION TECHNOLOGY LLC				2
TRIFECTA OILFIELD SERVICES LLC				4

Daily Drilling Report

UTL 1308A 4101H				DELAWARE	
H & P - 487				Job:	ODR
Accept: 8/18/2021				Report Date:	8/31/2021
Days Since LTI: 379.00				Report #:	15
Release:				DFS:	13
Days Since RI: 379.00				AFE #:	9015111
				Total AFE + Sup:	\$4,412,374.71
				Daily Field Est. (Cost):	\$68,010.94

P/I/UWI 42-475-38217-0000		Well Profile HORIZONTAL		Open Formation WOLFCAMP A1 (WFMP A1)		Field Name PHANTOM (WOLFCAMP)						
SSN ID00056072		Property Sub		KB-Grd (ft) 26.50	Orig KB Elev (ft) 2,735.50	Ground Elevation (ft) 2,709.00	Spud Date 7/14/2021	TD Date				
Jobs												
Responsible Grp 2		Responsible Grp 3		Job Type	Start Date		End Date		Job Status			
DRL ENG - ALEXANDER LINDBLAD		AREA TEAM 2		ODR	7/14/2021 06:00				IN PROGRESS			
Job Dates (ex. Estimated Pad Release, TXRRC Calls)												
Type			Subtype		Date		Note					
MILESTONE			ESTIMATED PAD RELEASE		10/8/2021		3 well pad. Drilling well #1 sequentially.					
Daily Operations												
Footage/Meterage (ft) 0.00		Drilling Hours (hr)		% Rotating Time (%)		End Depth (ftKB) 8,373.0		Target Depth (ftKB) 22,083.0		Daily Field Est Total (Cost) 68,010.94	Cum Field Est To Date (Cost) 1,191,378.12	
24 HR ROP (ft/hr)		Circulating Hours (hr)		% Sliding Time (%)		End Depth (TVD) (ftKB) 8,305.6		Target Depth (TVD) (ftKB) 11,325.0		Daily Mud Field Est (Cost) 1,309.00	Cum Mud Field Est (Cost) 26,503.59	Total AFE + Sup (Cost) 4,412,374.71
Daily Goal Description DRILLED FEET				Daily Goal - Last 24 0.0			Daily Goal - Next 24 0.0			Goal Comments Goal met		
Backbuild		Lateral Inclination		Last Casing String SURFACE, 1,011.0ftKB				Next Casing String PROPOSED INTERMEDIATE, 8,353.0ftKB				
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 Trouble shoot electrical problems at VFD house, TIH with fishing tools to 5,970', screw into fish, jar up and made 5', attempted to jar down, no success, R/U & run wireline, free point, unable to get down with wireline past 3 joints HWDP, run in hole with back off and shot charge off @ 6,064', pull out and R/D wireline, TOOHO to fishing tools, L/D fishing tools and 3 joints HWDP, L/D wash pipe racked back in derrick, pull wear bushing, R/U 2 7/8 tubing handling equipment, Picking up 2 7/8 tubing using manual tubing tongs												
Operations Next Report Period TIH with 2 7/8 tubing, set cement plug from 6,000' to 5,000', TOOHO T/4,000', Circulate, TOOHO, L/D 2 7/8 tubing, TIH set retrievable bridge plug, TOOHO, N/D BOPE, set TA cap, Release rig to UTL 1308B 3802H												
Operations at Report Time Picking up 2 7/8 tubing using manual tubing tongs												
Remarks Daily NPT: 0, Rig: 0 , 3rd: 0 PNR: 0 Cum. NPT: 0, Rig: 0, 3rd: 0, PNR: 0 Surface: 100% Intermediate #1= 100% Intermediate #2: 0% Curve: 0% Lateral: 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	2.75	08:45	INT, POST DRL	RIG_RPR	FISHING	Trouble shoot electrical problem at VFD house on Top Drive and Draw Works		8,373.0	8,373.0	2.75	7, 9	
08:45	3	11:45	INT, POST DRL	TIH_ELEV	FISHING	TIH w/ fishing assembly F/ 1,033' T/ 5,933', monitor well on trip tank, hole giving proper fill		8,373.0	8,373.0	3.00	7	
11:45	2.25	14:00	INT, POST DRL	JAR	FISHING	Screw into fish and attempt to jar up, made .5' in first 15 min then nothing else going up after 1 hour. Attempted to jar down, no hole made.		8,373.0	8,373.0	2.25	7	
14:00	1	15:00	INT, POST DRL	RU_WL	FISHING	R/U wireline for free point and back off		8,373.0	8,373.0	1.00	7	
15:00	3.75	18:45	INT, POST DRL	WL	FISHING	M/U and run free point, found free point at 6,064'. Screw in sub, Leaving 6 joints of HWDP, 6 8" DC and directional BHA in hole. M/U back off and run in hole to 6,064', shot charge off, string backed off, pull out of hole with wireline.		8,373.0	8,373.0	3.75	7	
18:45	0.75	19:30	INT, POST DRL	RD_WL	FISHING	R/D Yellow Jacket Wireline		8,373.0	8,373.0	0.75	7	
19:30	2.75	22:15	INT, POST DRL	TOOH_ELEV	FISHING	TOOH F/6,064' T/1,680', Open ended after Free Point/Back Off Hole taking proper fill		8,373.0	8,373.0	2.75	7	
22:15	0.25	22:30	INT, POST DRL	HDL_ROT HD	FISHING	Pull rotating head		8,373.0	8,373.0	0.25	7	
22:30	1.25	23:45	INT, POST DRL	TOOH_ELEV	FISHING	TOOH F/1,680' T/Fishing tools Hole taking proper fill		8,373.0	8,373.0	1.25	7	
23:45	1	00:45	INT, POST DRL	L/D BHA	FISHING	Lay down fishing tools and 3 joints 5" HWDP Hole taking proper fill		8,373.0	8,373.0	1.00	7	
00:45	2	02:45	INT, POST DRL	L/D BHA	FISHING	R/U wash pipe handling tools, elevators, bowl, L/D 1 -5" jt DP and 2-joints wash pipe out of derrick, L/D wash pipe handling tools		8,373.0	8,373.0	2.00	7	
02:45	1	03:45	INT, POST DRL	WRBSH	FISHING	Pull wear bushing		8,373.0	8,373.0	1.00	7	
03:45	0.25	04:00	INT, POST DRL	SFTY	FISHING	HPJSM on rigging up and running 2 7/8 tubing,		8,373.0	8,373.0	0.25	7	
Daily Drilling Report				Page 1/3				Printed: Tuesday, August 31, 2021				

Daily Drilling Report

H & P - 487	
Accept: 8/18/2021	Release:
Days Since LTI: 379.00	Days Since RI: 379.00

Job:	ODR
Report Date:	8/31/2021
Report #:	15
DFS:	13
AFE #:	9015111
Total AFE + Sup:	\$4,412,374.71
Daily Field Est. (Cost):	\$68,010.94

Daily Drilling Report

Daily Drilling Report

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	1,011.0	1,010.8	13 3/8	J55	54.50	BTC	656.6	
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		1,000			7,881	20,501.0
DIESEL	MUD	GAL		0			3,320	0.0
WATER	FRESH	BBL	0	0		Meter reading beginning 42123 ending 42123	0	24,037.0
Mud Additive Amounts								
Des	Type	Units	Rec	Consumed	On Loc	Cum Cons		
BA.TRANSPORTATION	MISCELLANEOUS	MILE	1	1	0.0	8		
BARITE-BULK	WEIGHTING MATERIAL	TON		4	60.0	21		
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	6,374.0		
2	GARDNER-DENVER	PZ-11-1600	5 1/2	11.00	0.081	6,374.0		
3	GARDNER-DENVER	PZ-11-1600	5 1/2	11.00	0.081	6,374.0		
Pump Checks								
Pump #	Depth (ftKB)	Time	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)		
Deviation Surveys								
Date 7/14/2021	Description AS DRILL SURVEY					Job ODR, 7/14/2021 06:00		
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)			
265_BSPG1	-5,815.0		8,550.5					
267_BSPG2	-7,150.0		9,885.5					
268_BSPG3	-7,630.0		10,365.5					
268_PHANTOM FIELD TOP	-7,630.0		10,365.5					
ICP1	-8,035.0		10,770.5					
268_BSPG3 BASE CARBONATE	-8,190.0		10,925.5					
270_0_WFMP_A1	-8,565.0		11,300.5					
TOT	-8,640.0		11,375.5					
BOT	-8,730.0		11,465.5					
FIRST TAKE POINT (FTP)	-8,675.0		11,410.5					
PBHL/TD	-8,590.0		11,325.5					
Daily Contacts								
Job Contact	Title	Office	Mobile	Email				
LINDBLAD, ALEXANDER, ENGINEER	ENGINEER	972-969-1749		ALEXANDER.LINDBLAD@PXD.COM				
COX, BRYAN, ENGINEER	ENGINEER	972-969-5717	361-318-4212	BRYAN.COX@PXD.COM				
HARDIN, JOE, AREA DRILLING SUPERINTENDENT	AREA DRILLING SUPERINTENDENT	361-452-2118	361-318-8762	THOMAS.HARDIN@PXD.COM				
VILLESCAS, BERNIE, SUPERINTENDENT	SUPERINTENDENT	432-571-2950	432-312-2088	BERNIE.VILLESCAS@PXD.COM				
JOHNSON, STEVEN, SUPERINTENDENT	SUPERINTENDENT		580-504-9863	STEVEN.JOHNSON@PXD.COM				
SALAZAR, TODD, WELLSITE SUPERVISOR	WELLSITE SUPERVISOR		325-232-2114	TODD.SALAZAR1@PXD.COM				
WHITE, JOHN, WELLSITE SUPERVISOR	WELLSITE SUPERVISOR		337-353-5797	JOHN.WHITE@PXD.COM				
RIG-H&P 487, RIG PHONE	RIG PHONE	432-200-0785		DL-HP487@PXD.COM				
Personnel Log								
Company							Count	
PIONEER NATURAL RESOURCES USA INC							4	
HELMERICH & PAYNE INTERNATIONAL DRILLING CO							13	
ALTITUDE ENERGY PARTNERS INC							2	
GORDON TECHNOLOGIES LLC							1	
DYNAMIC ENERGY SERVICES LLC							2	
STRATAGRAPH INC							1	
SAFETY AUTOMATION TECHNOLOGY LLC							2	
YELLOW JACKET OILFIELD SERVICES LLC							4	
TEXAS T OILFIELD SERVICES							4	
PIPE PROS LLC							1	