

PINNERGY 3

Accept:3/19/2024

Release:

Days Since LTI:

Days Since RI:

Daily Drilling Report

PERMIAN - JV SOUTHERN WOLFCAMP

Job:ODR

Report Date:03/20/2024

Report #:1

DFS:0

AFE #:9034369

Total AFE + Sup:\$3,467,554.14

Daily Field Est. (Cost):\$157,340.01

API/UWI 42-461-42560-0000		Well Profile HORIZONTAL		Open Formation WOLFCAMP A2 (WFMP A2)			Field Name SPRABERRY (TREND AREA)				
SSN ID00020209	Property Sub	KB-Grd (ft) 26.00		Orig KB Elevation (ft) 2,701.00		Ground Elevation (ft) 2,675.00		Spud Date 3/19/2024	TD Date		
Jobs											
Responsible Grp 2			Responsible Grp 3		Job Type	Start Date		End Date	Job Status		
DRL ENG - JOHN GARZA			AREA TEAM 4		ODR	3/19/2024 19:30			IN PROGRESS		
Job Dates (ex. Estimated Pad Release, TXRRC Calls)											
Type		Subtype			Date			Note			
TXRRC CALL		SPUD			3/19/2024 19:30			Jessica Op #49			
TXRRC CALL		CEMENT SURF			3/19/2024 19:30			Jessica Op #49			
Daily Operations											
Footage/Meterage (ft) 1,117.00		Drilling Hours 7.00	% Rotating Time 92.86	End Depth (ftKB) 1,223.0	Target Depth (ftKB)		Daily Field Est Total \$157,340.01		Cum Field Est To Date \$157,340.01		
24 HR ROP (ft/hr) 159.6	Circulating Hours 0.50	% Sliding Time 7.14	End Depth (TVD) (ftKB)	Target Depth Depth (TVD) (ftKB)		Daily Mud Field Est Total \$		Cum Mud Field Est \$	Total AFE + Sup \$3,467,554.14		
Daily Goal Description			Daily Goal - Last 24			Daily Goal - Next 24			Goal Comments		
Backbuild	Lateral Inclination	Last Casing String CONDUCTOR, 106.0ftKB				Next Casing String ftKB					
Avg Connection Gas		Avg Trip Gas	Avg Background Gas		Max Connection Gas		Max Trip Gas		Max Drill Gas		
Operations Summary											
Skid rig from the University 3-19 704H to the University 3-19 705H, Rig up, Pre spud inspection,Pickup BHA, Drill 17.5" surface hole F/87' T/TD=1,204', Circulate and Cond (Well 5 of 6)											
Operations Next Report Period											
Circulate and Cond, TOO H L/D Drill Pipe, L/D BHA, R/U Csg., RIH with 13-3/8" Casing, Circ. Casing Cap, R/U Cmt, Pump Surface Cmt, RD. Release rig											
Operations At Report Time											
Circulate to clean well bore											
Remarks											
Time Log											
Start Time	Dur (hr)	End Time	Phase	Operation	Ops Category	Com	Start Depth (ftKB)	End Depth (ftKB)	Prob Hrs	Prob Ref #	
19:30	1	20:30	CONST, DRL SURF	SKID	NORMAL	Skid rig from the University 3-19 704H to the University 3-19 705H	106.0	106.0			
20:30	0.5	21:00	CONST, DRL SURF	RU MIRU	NORMAL	R/U Hoses, Lines, Electrical.Set in Catwalk. Continue R/U of All Rig Components. R/U Transfer Pumps, unload drill pipe and drill collars, strap and tally BHA and drill pipe.	106.0	106.0			
21:00	1	22:00	CONST, DRL SURF	RIG_INSP	NORMAL	Pre spud rig inspection, drops inspection on derrick, adjust mast rollers	106.0	106.0			
22:00	0.5	22:30	CONST, DRL SURF	PU_DIR	NORMAL	Work with Meteorite directional to pick up 17.5" surface BHA	106.0	106.0			
22:30	7	05:30	CONST, DRL SURF	DRL	NORMAL	Drill 17.5" surface hole F/87' T/1,204'	106.0	1,223.0			
05:30	0.5	06:00	CONST, DRL SURF	CIRC	NORMAL	Circulate 2 poly sweeps to clean well bore. 5 min flow check, well static.	1,223.0	1,223.0			
Drill Strings											
BHA #1 , SURFACE											
Bit Run 1			Drill Bit 17 1/2, SPL616, N00125				Bit Type PDC		Make DIAMANT		
Nozzles (1/32")			Bit Total Fluid Area (nozzles) (in²)		IADC Bit Dull -----		Hours Drilled By Bit (hr) 7.00		Depth Drilled By Bit (ft) 1,117.00		
BHA Drilling Time (hr) 7.00			BHA Depth Drilled (ft) 1,117.00		BHA ROP (ft/hr) 159.6		Depth In (ftKB) 106.0		Depth Out (ftKB) 1,223.0		
Drill String Components											
Jts	Item Des				OD (in)	ID (in)	Len (ft)	Cum Len (ft)	Wt (lbf)	Cum Wt (1000lbf)	Make
25	DRILL PIPE				4 1/2	3.83	778.36	1,204.00	12,920.8	51	RIG
10	DRILL COLLAR				6	2.50	281.29	425.64	22,334.4	38	RIG
1	SUB - XO				8	2.87	1.81	144.35	137.4	16	RIG
1	DRILL COLLAR				8	3.00	30.04	142.54	4,415.9	16	RIG
2	DRILL COLLAR - NON MAG				8	3.50	59.85	112.50	8,277.3	11	AMEGA WEST
1	SUB - UBHO				8	3.25	1.98	52.65	282.7	3	AMEGA WEST
1	DRILL COLLAR - PONY, NON MAG				8	3.50	9.25	50.67	82.5	3	AMEGA WEST
1	STABILIZER				8	3.00	7.75	41.42	51.2	3	AMEGA WEST

1	MOTOR - STABILIZER SLEEVE				8 1/2	4.00	32.17	33.67	2,605.8	3	TMC							
Mud Motors																		
SN		Bend Angle		Bearing Type		Lobe Config		# Stages		Lwr Defln Type		Bit To Bend						
TMC850-03		1.76				7:8		4.0				9.57						
Sensors																		
Sensor Type			Sensor-Bit (ft)				Note											
DIRECTIONAL			70.00															
Drilling Parameters																		
Start Time	End Time	Start Depth (ftKB)	Int Depth (ft)	Int ROP (ft/hr)	WOB (1000lbf)	RPM	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	ROP Average (ft/hr)	Drill Str Wt (1000lbf)	PU Str Wt (1000lbf)	SO Str Wt (1000lbf)	Off-Btm Str Wt (1000lbf)	Drill Tq	Off Btm Tq	TFO (°)	
22:30	23:45	106.0	286.00	228.8	12	50	350.0	750	1,100.0	143.0	23	40	36	38	2,000.0	1,000.0	0	
23:45	00:00	392.0	12.00	48.0	12	0	300.0	750	1,100.0	48.0	30	40	36	38	0.0	1,000.0	50	
00:00	01:45	404.0	354.00	202.3	15	50	450.0	750	1,400.0	202.3	33	52	44	48	4,000.0	2,000.0	0	
01:45	02:00	758.0	20.00	80.0	12	0	450.0	750	1,200.0	80.0	40	52	44	48	0.0	2,000.0	190	
02:00	05:30	778.0	445.00	127.1	15	50	450.0	750	1,400.0	127.1	42	63	51	57	6,000.0	3,000.0	0	
05:30	06:00	1,223.0	0.00		0	50	0.0	750	1,200.0	0.0	42	63	51	57	0.0	3,000.0	0	
Hydraulic Calculations																		
Dens Mud (lb/gal)	ECD End (lb/gal)	Bit Hydraulic Power (hp)		HP/Area (hp/in²)		Jet Vel (ft/s)		Bit dP (psi)	Min Open Hole AV (ft/min)		Max Open Hole AV (ft/min)		Vol DrillString (bbl)		Vol Bit to Shoe (bbl)		Vol Shoe to Top (bbl)	
Kick Offs & Key Depths																		
Date			Type		Top Depth (ftKB)				Depth Top (TVD) (ftKB)									
No Data																		
Casing Strings																		
Description		Set Depth (ftKB)		Set Depth (TVD) (ftKB)			OD (in)		Grade	Wt/Len (lb/ft)		Top Thread		P LeakOff (psi)				
CONDUCTOR		106.0		106.0			20		H40	78.67								
Gas Emissions - Flare																		
Type			Method			Dur (Min)			Amount			Units		Com				
No Data																		
Job Supply Amounts																		
Supply Item Des		Type	Unit Label	Received	Consumed	Returned	Note			Cum On Loc		Cum Consumed						
WATER		FRESH	BBL			0	Spudder Fresh Water			0		0						
DIESEL		FUEL	GAL	1099	1099	0	Spudder Fuel			0		1099						
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-9	6		9.02		0.079			2,500.0						
2	GARDNER-DENVER			PZ-9	6		9.02		0.079			2,500.0						
Pump Checks																		
Pump #		Depth (ftKB)		Time	P (psi)	Strokes (spm)			Q Flow (gpm)			Eff (%)						
No Data																		
Deviation Surveys																		
Date				Description				Job										
3/20/2024 06:00				AS DRILL SURVEY				ODR, 3/19/2024 19:30										
Survey Data - All surveys for 24 hr reporting period																		
MD (ftKB)		Incl (°)	Azm (°)		TVD (ftKB)		VS (ft)		NS (ft)		EW (ft)		DLS (°/100ft)					
148.00		0.30	161.10		148.00		0.32		-0.30		0.10		0.25					
235.00		0.40	264.90		235.00		0.50		-0.54		-0.13		0.64					
322.00		0.50	220.20		322.00		0.69		-0.86		-0.67		0.41					
407.00		0.60	167.70		406.99		1.36		-1.58		-0.82		0.58					
501.00		0.80	159.90		500.99		2.50		-2.68		-0.49		0.24					
593.00		1.10	158.50		592.97		4.01		-4.10		0.06		0.33					
688.00		1.00	161.10		687.96		5.74		-5.73		0.66		0.12					
782.00		1.40	156.00		781.94		7.68		-7.56		1.39		0.44					
876.00		1.60	164.80		875.90		10.12		-9.87		2.20		0.32					
970.00		1.80	168.00		969.86		12.91		-12.59		2.86		0.24					
1,064.00		1.70	164.00		1,063.82		15.77		-15.37		3.55		0.17					
Formations																		
Formation Name				Prog Top Override (TVD SS) (ft(elv))			Prog Top MD (ftKB)		Prog Top (TVD) (ftKB)		Final Top MD (ftKB)		Final Top (TVD) (ftKB)					
222_0_DOKM_E1_SNRS_M/TOP_POROUS_SAND				2,011.0					690.0									
224_0_DOKM_F1_SNRS_L/BASE_POROUS_SAND				1,754.0					947.0									
250_0_DWLK				1,587.0					1,114.0									
SCP				1,554.0					1,147.0									
251_0_RSRL				1,451.0					1,250.0									
251_0_SLDO				1,388.0					1,313.0									
256_0_YATES				657.0					2,044.0									
257_0_SEVEN RIVERS				299.0					2,402.0									
258_0_QUEEN				-218.0					2,919.0									
259_0_GRAYBURG				-890.0					3,591.0									

261_0_SAN ANDRES	-1,203.0		3,904.0		
263_0_SAN_ANDRES_SHALE	-2,322.0		5,023.0		
ALT_ICP1	-2,372.0		5,073.0		
265_0_CLEARFORK/POP	-3,020.0		5,721.0		
267_0_SPBY_U_A1/267_0_SPBY	-3,869.0		6,570.0		
267_5_SPBY_M_A1	-4,130.0		6,831.0		
268_5_SPBY_L_A1	-4,433.0		7,134.0		
268_6_SPBY_L_B1/JO MILL	-4,739.0		7,440.0		
268_7_SPBY_L_C1/LOWER SPRABERRY SHALE	-4,809.0		7,510.0		
ICP1	-4,969.0		7,670.0		
269_0_DEAN	-5,240.0		7,941.0		
270_0_WFMP_A1	-5,426.0		8,127.0		
271_0_WFMP_A2	-5,524.0		8,225.0		
TOT	-5,561.0		8,262.0		
ILP	-5,575.0		8,276.0		
PBHL/TD	-5,528.0		8,229.0		

Daily Contacts				
Job Contact	Title	Office	Mobile	Email
RICHARDSON, KEN, AREA DRILLING SUPERINTENDENT	AREA DRILLING SUPERINTENDENT	432-571-2557	432-557-8128	KEN.RICHARDSON@PXD.COM
COX, BRYAN, ENGINEER	ENGINEER	972-969-5717	361-318-4212	BRYAN.COX@PXD.COM
GARZA, JOHN, ENGINEER	ENGINEER		469-286-7746	JOHN.GARZA@PXD.COM
BLEDSON, WILL, SUPERINTENDENT	SUPERINTENDENT		361-318-5836	WILL.BLEDSON@PXD.COM
NICKERSON, KEVIN, WELLSITE SUPERVISOR	WELLSITE SUPERVISOR		432-227-3431	KEVIN.NICKERSON@PXD.COM

Personnel Log	
Company	Count
PIONEER NATURAL RESOURCES USA INC	1
METEORITE ENERGY SERVICES INC	2
PINNERGY LTD	11

PINNERGY 3

Accept: 3/19/2024

Release:

Days Since LTI:

Days Since RI:

Daily Drilling Report

PERMIAN - JV SOUTHERN WOLFCAMP

Job: ODR

Report Date: 03/20/2024

Report #: 2

DFS: 1

AFE #: 9034369

Total AFE + Sup: \$3,467,554.14

Daily Field Est. (Cost): \$67,294.99

API/UWI 42-461-42560-0000			Well Profile HORIZONTAL		Open Formation WOLFCAMP A2 (WFMP A2)			Field Name SPRABERRY (TREND AREA)			
SSN ID00020209		Property Sub	KB-Grd (ft) 26.00		Orig KB Elevation (ft) 2,701.00		Ground Elevation (ft) 2,675.00		Spud Date 3/19/2024	TD Date	
Jobs											
Responsible Grp 2			Responsible Grp 3		Job Type	Start Date		End Date	Job Status		
DRL ENG - JOHN GARZA			AREA TEAM 4		ODR	3/19/2024 19:30			IN PROGRESS		
Job Dates (ex. Estimated Pad Release, TXRRC Calls)											
Type		Subtype				Date		Note			
Daily Operations											
Footage/Meterage (ft) 0.00		Drilling Hours	% Rotating Time	End Depth (ftKB) 1,223.0		Target Depth (ftKB)		Daily Field Est Total \$67,294.99		Cum Field Est To Date \$224,635.00	
24 HR ROP (ft/hr)	Circulating Hours	% Sliding Time	End Depth (TVD) (ftKB) 1,222.7		Target Depth Depth (TVD) (ftKB)		Daily Mud Field Est Total \$		Cum Mud Field Est \$	Total AFE + Sup \$3,467,554.14	
Daily Goal Description			Daily Goal - Last 24			Daily Goal - Next 24			Goal Comments		
Backbuild	Lateral Inclination	Last Casing String SURFACE, 1,203.3ftKB				Next Casing String ftKB					
Avg Connection Gas		Avg Trip Gas	Avg Background Gas		Max Connection Gas		Max Trip Gas		Max Drill Gas		
Operations Summary Circulate and Cond, TOO H L/D Drill Pipe, L/D BHA, R/U Csg., RIH with 13-3/8" Casing, Circ. Casing Cap, R/U Cmt, Pump Surface Cmt, RD. Release rig											
Operations Next Report Period Release rig to the University 3-19 706H											
Operations At Report Time Release rig to the University 3-19 706H											
Remarks											
Time Log											
Start Time	Dur (hr)	End Time	Phase	Operation	Ops Category	Com		Start Depth (ftKB)	End Depth (ftKB)	Prob Hrs	Prob Ref #
06:00	0.5	06:30	CONST, DRL SURF	CIRC	NORMAL	Circulate 2 poly sweeps to clean well bore. 5 min flow check, well static.		1,223.0	1,223.0		
06:30	0.5	07:00	CONST, DRL SURF	L/D DP	NORMAL	Lay down Drill Pipe		1,223.0	1,223.0		
07:00	0.5	07:30	CONST, DRL SURF	LD_DIR	NORMAL	Lay down BHA		1,223.0	1,223.0		
07:30	1	08:30	CONST, DRL SURF	RU_CSG	NORMAL	PJSM with Pinnergy Rig Crew, Smith Casing Crew and PNR Rep over RU to RIH with 13 3/8" Casing. RU Casing Tools and Equipment. M/U shoe track and test floats.		1,223.0	1,223.0		
08:30	2	10:30	CONST, DRL SURF	CSG_W/O ROTATION	NORMAL	Run 29 joints 13 3/8"54.5# J55 casing.		1,223.0	1,223.0		
10:30	0.5	11:00	CONST, DRL SURF	CIRC	NORMAL	Circulate casing capacity / Safety meeting with Perm5 cement crew		1,223.0	1,223.0		
11:00	2	13:00	CONST, DRL SURF	CMT	NORMAL	Rig up cement head and all lines, test lines to 2,000 psi.,Cement with Perm5, Lead 1,000 sacks @ 13.0 ppg / Tail 500 sacks @ 14.8 ppg. / bump plug @ 1,000 psi hold for 5 min / check floats / floats held / Bleed back 1 bbl of FW to cement truck / No cement returns to surface.		1,223.0	1,223.0		
13:00	0.5	13:30	CONST, DRL SURF	RD_CMT	NORMAL	Rig down cement equipment, Back out and L/D Landing Joint with Cactus Rep, install Dust cap		1,223.0	1,223.0		
13:30	4	17:30	CONST, DRL SURF	WAIT	NORMAL	Wait on cement for 6 hrs. and VES wireline truck to arrive on location.		1,223.0	1,223.0	4.00	1
17:30	0.5	18:00	CONST, DRL SURF	RU_WL	NORMAL	Rig up VES wireline to run temp log		1,223.0	1,223.0	0.50	1
18:00	1	19:00	CONST, DRL SURF	WL	NORMAL	Ran temp log with VES wireline and found top of cement at 100ft		1,223.0	1,223.0	1.00	1
19:00	0.5	19:30	CONST, DRL SURF	RD_WL	NORMAL	Rig down VES wire line Release rig		1,223.0	1,223.0	0.50	1
Interval Problems											
3RD PARTY, 1,223.0ftKB, 3/20/2024 13:30											
Ref #	Dur (hr)	Exclude From Problem Time Calcs?	SubType	Problem Description	Est Cost OR (Cost)	Accountable Party		Comment			

1	6.00	No	CEMENT	TOP OF CEMENT		PIONEER NATURAL RESOURCES USA INC	No cement returns. Wait 6 hrs on cement. Had VES wireline run temp log and found top of cement at 100ft.				
Drill Strings											
BHA #1 , SURFACE											
Bit Run			Drill Bit				Bit Type		Make		
1			17 1/2, SPL616, N00125				PDC		DIAMANT		
Nozzles (1/32")			Bit Total Fluid Area (nozzles) (in²)		IADC Bit Dull		Hours Drilled By Bit (hr)		Depth Drilled By Bit (ft)		
					-----TD		7.00		1,117.00		
BHA Drilling Time (hr)			BHA Depth Drilled (ft)		BHA ROP (ft/hr)		Depth In (ftKB)		Depth Out (ftKB)		
7.00			1,117.00		159.6		106.0		1,223.0		
Drill String Components											
Jts	Item Des				OD (in)	ID (in)	Len (ft)	Cum Len (ft)	Wt (lbf)	Cum Wt (1000lbf)	Make
25	DRILL PIPE				4 1/2	3.83	778.36	1,204.00	12,920.8	51	RIG
10	DRILL COLLAR				6	2.50	281.29	425.64	22,334.4	38	RIG
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1	SUB - UBHO				8	3.25	1.98	52.65	282.7	3	AMEGA WEST
1	DRILL COLLAR - PONY, NON MAG				8	3.50	9.25	50.67	82.5	3	AMEGA WEST
1	STABILIZER				8	3.00	7.75	41.42	51.2	3	AMEGA WEST
1	MOTOR - STABILIZER SLEEVE				8 1/2	4.00	32.17	33.67	2,605.8	3	TMC
Mud Motors											
SN		Bend Angle		Bearing Type		Lobe Config		# Stages	Lwr Defln Type		Bit To Bend
TMC850-03		1.76				7:8		4.0			9.57
Sensors											
Sensor Type			Sensor-Bit (ft)				Note				
DIRECTIONAL			70.00								
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)	
Kick Offs & Key Depths											
Date		Type	Top Depth (ftKB)				Depth Top (TVD) (ftKB)				
No Data											
Casing Strings											
Description		Set Depth (ftKB)		Set Depth (TVD) (ftKB)		OD (in)	Grade	Wt/Len (lb/ft)		Top Thread	P LeakOff (psi)
CONDUCTOR		106.0		106.0		20	H40	78.67			
SURFACE		1,203.3		1,203.1		13 3/8	J55	54.50		BTC	
Cement											
Cement Fluids											
Fluid Type	Estimated Top (ftKB)			Estimated Bottom (ftKB)			Class		Yield (ft³/sack)		Density (lb/gal)
SPACER	29.5			29.5			FRESH WATER				8.34
Fluid Type	Estimated Top (ftKB)			Estimated Bottom (ftKB)			Class		Yield (ft³/sack)		Density (lb/gal)
LEAD CMT	29.5			844.8			CLASS C		1.90		13.00
Fluid Type	Estimated Top (ftKB)			Estimated Bottom (ftKB)			Class		Yield (ft³/sack)		Density (lb/gal)
TAIL CMT	844.8			1,223.0			CLASS C		1.33		14.80
Fluid Type	Estimated Top (ftKB)			Estimated Bottom (ftKB)			Class		Yield (ft³/sack)		Density (lb/gal)
DSPLMT	29.5			1,164.7			FRESH WATER				8.34
Cement Stages											
Description			Final Top Depth		Btm (ftKB)		Top Pl...		Btm Pl...		
SURFACE CASING CEMENT			29.5		1,223.0		Yes				
Q Pump Init			Q Pump Final		Q Pump Avg		P Pump Final		P Plug Bump	Float	Recip? Rotated?
4			3		5		450.0		1,000.0	No	No No
SURFACE CASING CEMENT casing 3/20/2024 11:00											
Cmtg End Date			Wellbore			Technical Result			Comment		
3/20/2024 13:00			ORIGINAL			FAILURE					
Gas Emissions - Flare											
Type		Method			Dur (Min)		Amount		Units		Com
No Data											
Job Supply Amounts											
Supply Item Des		Type	Unit Label	Received	Consumed	Returned	Note		Cum On Loc		Cum Consumed
DIESEL		FUEL	GAL	1099	1099	0	Spudder Fuel		0		1099
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-9	6		9.02	0.079		2,500.0	
2	GARDNER-DENVER			PZ-9	6		9.02	0.079		2,500.0	
Pump Checks											
Pump #		Depth (ftKB)		Time	P (psi)	Strokes (spm)		Q Flow (gpm)		Eff (%)	
No Data											
Deviation Surveys											

Date 3/20/2024 06:00	Description AS DRILL SURVEY	Job ODR, 3/19/2024 19:30			
Formations					
Formation Name	Prog Top Override (TVD SS) (ft(elv))	Prog Top MD (ftKB)	Prog Top (TVD) (ftKB)	Final Top MD (ftKB)	Final Top (TVD) (ftKB)
251_0_RSRL	1,451.0		1,250.0		
251_0_SLDO	1,388.0		1,313.0		
256_0_YATES	657.0		2,044.0		
257_0_SEVEN RIVERS	299.0		2,402.0		
258_0_QUEEN	-218.0		2,919.0		
259_0_GRAYBURG	-890.0		3,591.0		
261_0_SAN ANDRES	-1,203.0		3,904.0		
263_0_SAN_ANDRES_SHALE	-2,322.0		5,023.0		
ALT_ICP1	-2,372.0		5,073.0		
265_0_CLEARFORK/POP	-3,020.0		5,721.0		
267_0_SPBY_U_A1/267_0_SPBY	-3,869.0		6,570.0		
267_5_SPBY_M_A1	-4,130.0		6,831.0		
268_5_SPBY_L_A1	-4,433.0		7,134.0		
268_6_SPBY_L_B1/JO MILL	-4,739.0		7,440.0		
268_7_SPBY_L_C1/LOWER SPRABERRY SHALE	-4,809.0		7,510.0		
ICP1	-4,969.0		7,670.0		
269_0_DEAN	-5,240.0		7,941.0		
270_0_WFMP_A1	-5,426.0		8,127.0		
271_0_WFMP_A2	-5,524.0		8,225.0		
TOT	-5,561.0		8,262.0		
ILP	-5,575.0		8,276.0		
PBHL/TD	-5,528.0		8,229.0		
Daily Contacts					
Job Contact	Title	Office	Mobile	Email	
RICHARDSON, KEN, AREA DRILLING SUPERINTENDENT	AREA DRILLING SUPERINTENDENT	432-571-2557	432-557-8128	KEN.RICHARDSON@PXD.COM	
COX, BRYAN, ENGINEER	ENGINEER	972-969-5717	361-318-4212	BRYAN.COX@PXD.COM	
GARZA, JOHN, ENGINEER	ENGINEER		469-286-7746	JOHN.GARZA@PXD.COM	
BLEDSON, WILL, SUPERINTENDENT	SUPERINTENDENT		361-318-5836	WILL.BLEDSON@PXD.COM	
NICKERSON, KEVIN, WELLSITE SUPERVISOR	WELLSITE SUPERVISOR		432-227-3431	KEVIN.NICKERSON@PXD.COM	
Personnel Log					
Company					Count
PIONEER NATURAL RESOURCES USA INC					1
METEORITE ENERGY SERVICES INC					2
PINNERGY LTD					11

PINNERGY 3

Accept: 3/19/2024

Release:

Days Since LTI:

Days Since RI:

Daily Drilling Report

PERMIAN - JV SOUTHERN WOLFCAMP

Job: ODR

Report Date: 03/21/2024

Report #: 3

DFS: 1

AFE #: 9034369

Total AFE + Sup: \$3,467,554.14

Daily Field Est. (Cost): \$7,642.89

API/UWI 42-461-42560-0000			Well Profile HORIZONTAL			Open Formation WOLFCAMP A2 (WFMP A2)			Field Name SPRABERRY (TREND AREA)						
SSN ID00020209		Property Sub		KB-Grd (ft) 26.00		Orig KB Elevation (ft) 2,701.00			Ground Elevation (ft) 2,675.00		Spud Date 3/19/2024		TD Date		
Jobs															
Responsible Grp 2				Responsible Grp 3			Job Type		Start Date			End Date		Job Status	
DRL ENG - JOHN GARZA				AREA TEAM 4			ODR		3/19/2024 19:30					IN PROGRESS	
Job Dates (ex. Estimated Pad Release, TXRRC Calls)															
Type			Subtype					Date			Note				
Daily Operations															
Footage/Meterage (ft) 0.00		Drilling Hours		% Rotating Time		End Depth (ftKB) 1,223.0		Target Depth (ftKB)		Daily Field Est Total \$7,642.89			Cum Field Est To Date \$234,786.49		
24 HR ROP (ft/hr)		Circulating Hours		% Sliding Time		End Depth (TVD) (ftKB) 1,222.7		Target Depth Depth (TVD) (ftKB)		Daily Mud Field Est Total \$		Cum Mud Field Est \$		Total AFE + Sup \$3,467,554.14	
Daily Goal Description				Daily Goal - Last 24				Daily Goal - Next 24				Goal Comments			
Backbuild		Lateral Inclination		Last Casing String SURFACE, 1,203.3ftKB					Next Casing String ftKB						
Avg Connection Gas			Avg Trip Gas		Avg Background Gas			Max Connection Gas			Max Trip Gas		Max Drill Gas		
Operations Summary															
Perform Top-Out cement job with Permian 5															
Operations Next Report Period															
Release rig to the Midkiff Unit 2901H															
Operations At Report Time															
Release rig to the Midkiff Unit 2901H															
Remarks															
Time Log															
Start Time	Dur (hr)	End Time	Phase		Operation	Ops Category	Com			Start Depth (ftKB)	End Depth (ftKB)	Prob Hrs	Prob Ref #		
15:00	0.5	15:30	CONST, DRL SURF		RU_CMT	NORMAL	Rig up 1" pipe to top out cement from 100'			1,223.0	1,223.0	0.50	2		
15:30	1	16:30	CONST, DRL SURF		CMT_REM	NORMAL	Perform top out cement job F/100' to surface with Permian 5			1,223.0	1,223.0	1.00	2		
16:30	0.5	17:00	CONST, DRL SURF		RD_CMT	NORMAL	Rig down 1" pipe and wash out			1,223.0	1,223.0	0.50	2		
Interval Problems															
3RD PARTY, 1,223.0ftKB, 3/21/2024 15:00															
Ref #	Dur (hr)	Exclude From Problem Time Calcs?			SubType	Problem Description	Est Cost OR (Cost)	Accountable Party			Comment				
2	2.00	No			CEMENT	TOP OF CEMENT		PIONEER NATURAL RESOURCES USA INC			Perform top out cement jobF/100' to surface.				
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)
Kick Offs & Key Depths															
Date			Type		Top Depth (ftKB)					Depth Top (TVD) (ftKB)					
No Data															
Casing Strings															
Description			Set Depth (ftKB)		Set Depth (TVD) (ftKB)			OD (in)	Grade	Wt/Len (lb/ft)		Top Thread		P LeakOff (psi)	
CONDUCTOR			106.0		106.0			20	H40	78.67					
SURFACE			1,203.3		1,203.1			13 3/8	J55	54.50		BTC			
Cement															
Cement Fluids															
Fluid Type		Estimated Top (ftKB)			Estimated Bottom (ftKB)			Class		Yield (ft³/sack)		Density (lb/gal)			
WATER		29.5			29.5			FRESH WATER				8.34			
Fluid Type		Estimated Top (ftKB)			Estimated Bottom (ftKB)			Class		Yield (ft³/sack)		Density (lb/gal)			
CEMENT		29.5			119.0			CLASS C		1.32		14.80			
Fluid Type		Estimated Top (ftKB)			Estimated Bottom (ftKB)			Class		Yield (ft³/sack)		Density (lb/gal)			
DSPLMT		29.5			119.0			FRESH WATER				8.34			
Cement Stages															
Description				Final Top Depth		Btm (ftKB)		Top Pl...		Btm Pl...					
SURFACE CASING CEMENT				29.5		119.0									
Q Pump Init				Q Pump Final		Q Pump Avg		P Pump Final		P Plug Bump		Float	Recip?	Rotated?	
1				1		1		200.0				No	No	No	
SURFACE CASING CEMENT casing - remedial 3/21/2024 15:00															
Cmtg End Date					Wellbore			Technical Result				Comment			

3/21/2024 17:00		ORIGINAL		SUCCESS									
Gas Emissions - Flare													
Type		Method		Dur (Min)		Amount							
Units						Com							
No Data													
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-9		6	
2		GARDNER-DENVER		PZ-9		6							
Pump Checks													
Pump #		Depth (ftKB)		Time		P (psi)							
Strokes (spm)		Q Flow (gpm)		Eff (%)									
No Data													
Deviation Surveys													
Date		Description			Job								
3/20/2024 06:00		AS DRILL SURVEY			ODR, 3/19/2024 19:30								
Formations													
Formation Name		Prog Top Override (TVD SS) (ft(elv))		Prog Top MD (ftKB)		Prog Top (TVD) (ftKB)							
Final Top MD (ftKB)		Final Top (TVD) (ftKB)											
251_0_RSRL													
251_0_SLDO		1,451.0				1,250.0							
256_0_YATES		1,388.0				1,313.0							
257_0_SEVEN RIVERS		657.0				2,044.0							
258_0_QUEEN		299.0				2,402.0							
259_0_GRAYBURG		-218.0				2,919.0							
261_0_SAN ANDRES		-890.0				3,591.0							
263_0_SAN ANDRES SHALE		-1,203.0				3,904.0							
ALT_ICP1		-2,322.0				5,023.0							
265_0_CLEARFORK/POP		-2,372.0				5,073.0							
267_0_SPBY_U_A1/267_0_SPBY		-3,020.0				5,721.0							
267_5_SPBY_M_A1		-3,869.0				6,570.0							
268_5_SPBY_L_A1		-4,130.0				6,831.0							
268_6_SPBY_L_B1/JO MILL		-4,433.0				7,134.0							
268_7_SPBY_L_C1/LOWER SPRABERRY SHALE		-4,739.0				7,440.0							
ICP1		-4,809.0				7,510.0							
269_0_DEAN		-4,969.0				7,670.0							
270_0_WFMP_A1		-5,240.0				7,941.0							
271_0_WFMP_A2		-5,426.0				8,127.0							
TOT		-5,524.0				8,225.0							
ILP		-5,561.0				8,262.0							
PBHL/TD		-5,575.0				8,276.0							
		-5,528.0				8,229.0							
Daily Contacts													
Job Contact		Title		Office		Mobile							
Email													
RICHARDSON, KEN, AREA DRILLING SUPERINTENDENT		AREA DRILLING SUPERINTENDENT		432-571-2557		432-557-8128							
COX, BRYAN, ENGINEER		ENGINEER		972-969-5717		361-318-4212							
GARZA, JOHN, ENGINEER		ENGINEER				469-286-7746							
BLEDSE, WILL, SUPERINTENDENT		SUPERINTENDENT				361-318-5836							
NICKERSON, KEVIN, WELLSITE SUPERVISOR		WELLSITE SUPERVISOR				432-227-3431							
Personnel Log													
Company						Count							
PIONEER NATURAL RESOURCES USA INC						1							
METEORITE ENERGY SERVICES INC						2							
PINNERGY LTD						11							

H & P 604	
Accept:	5/2/2024
Release:	
Days Since LTI:	887.00
Days Since RI:	190.00

Daily Drilling Report

PERMIAN - JV SOUTHERN WOLFCAMP	
Job:	ODR
Report Date:	05/03/2024
Report #:	4
DFS:	2
AFE #:	9034369
Total AFE + Sup:	\$3,384,818.20
Daily Field Est. (Cost):	\$168,443.03

API/UWI 42-461-42560-0000		Well Profile HORIZONTAL		Open Formation WOLFCAMP A2 (WFMP A2)		Field Name SPRABERRY (TREND AREA)				
SSN ID00020209	Property Sub	KB-Grd (ft) 26.00	Orig KB Elevation (ft) 2,702.00		Ground Elevation (ft) 2,676.00		Spud Date 3/19/2024	TD Date		
Jobs										
Responsible Grp 2		Responsible Grp 3		Job Type	Start Date		End Date	Job Status		
DRL ENG - JOHN GARZA		AREA TEAM 4		ODR	3/19/2024 19:30			IN PROGRESS		
Job Dates (ex. Estimated Pad Release, TXRRC Calls)										
Type	Subtype		Date	Note						
MILESTONE	ESTIMATED PAD RELEASE		7/20/2024	Updated 5/3/24, drilling 2nd well, INT 1 interval on 6 well pad, sequential drilling						
Daily Operations										
Footage/Meterage (ft) 533.00		Drilling Hours 2.52	% Rotating Time 54.37	End Depth (ftKB) 1,756.0	Target Depth (ftKB) 21,529.0	Daily Field Est Total \$168,443.03		Cum Field Est To Date \$494,362.89		
24 HR ROP (ft/hr) 211.5	Circulating Hours 0.22	% Sliding Time 45.63	End Depth (TVD) (ftKB) 1,755.2	Target Depth Depth (TVD) (ftKB) 8,229.2	Daily Mud Field Est Total \$		Cum Mud Field Est \$	Total AFE + Sup \$3,384,818.20		
Daily Goal Description DRILLED FEET			Daily Goal - Last 24 0.0		Daily Goal - Next 24 3,000.0		Goal Comments Goal met			
Backbuild Yes	Lateral Inclination	Last Casing String SURFACE, 1,203.3ftKB				Next Casing String PROPOSED INTERMEDIATE, 5,100.0ftKB				
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 Skid rig, N/U, Shell Test BOP, P/U BHA, P/U BHA, Drill shoe track & 10' new formation, F.I.T. to 12.5 EMW, Replace Rot.head clamp,Drill Intermediate F/1,233' T/1756'										
Operations Next Report Period Drill INT To 4756'										
Operations At Report Time Drilling INT @ 1756'										
Remarks NPT: Cum: 2 hrs; Dly: 2 hrs Surf: 100% Int.: 14% Int 2.: 0% Prod. Curve: 0% Prod. Lateral: 0% No Incident No Spills Reported Reserve Pit Level 6' below mark @ 18:00 5/2/24 Reserve Pit Level 6' below mark @ 05:30 5/3/24										
Time Log										
Start Time	Dur (hr)	End Time	Phase	Operation	Ops Category	Com	Start Depth (ftKB)	End Depth (ftKB)	Prob Hrs	Prob Ref #
09:30	2	11:30	MOB, RIG UP	SKID	NORMAL	Skid 60' from University 3-19 702H to University 3-19 705H.	1,223.0	1,223.0		
11:30	0.25	11:45	MOB, RIG UP	SFTY	NORMAL	Safety meeting on n/u BOP and rig up.	1,223.0	1,223.0		
11:45	0.25	12:00	MOB, RIG UP	NU_BOPE	NORMAL	N/U BOPE	1,223.0	1,223.0		
12:00	1.25	13:15	MOB, RIG UP	RU MIRU	NORMAL	R/U flow line, mud line and choke.	1,223.0	1,223.0		
13:15	3.25	16:30	MOB, RIG UP	CONC_BOPE	NORMAL	Shell test BOP, mud and choke lines 250 psi Low/5000 psi.Hi Troubleshoot pressure loss.	1,223.0	1,223.0		
16:30	0.25	16:45	INT, PRE DRL	WRBSH	NORMAL	Install WB.	1,223.0	1,223.0		
16:45	0.25	17:00	INT, PRE DRL	HDL_ROTHD	NORMAL	Install trip nipple.	1,223.0	1,223.0		
17:00	0.25	17:15	INT, PRE DRL	SFTY	NORMAL	Safety meeting on picking up directional tools.	1,223.0	1,223.0		
17:15	2.75	20:00	INT, PRE DRL	PU_DIR	NORMAL	P/U Int 1 directional BHA.	1,223.0	1,223.0		
20:00	1.5	21:30	INT, PRE DRL	HDL_BHA	NORMAL	TIH F/ 112' T/ 1164' with BHA out of derrick, Monitor proper displacment on trip tank	1,223.0	1,223.0		
21:30	0.25	21:45	INT, PRE DRL	HDL_ROTHD	NORMAL	Found Clamp broken on rotating head,Pull trip nipple	1,223.0	1,223.0		
21:45	0.5	22:15	INT, PRE DRL	CIRC	NORMAL	Fill pipe and Test MWD, good test	1,223.0	1,223.0		
22:15	1.25	23:30	INT, PRE DRL	DRL_OUT	NORMAL	Drill shoe track F/ 1164' T/ 1223', full returns	1,223.0	1,223.0		
23:30	0.25	23:45	INT, PRE DRL	DRL	NORMAL	Drill 10' new hole from 1223' T/ 1233', full returns	1,223.0	1,233.0		
23:45	0.5	00:15	INT, PRE DRL	CIRC	NORMAL	Circulate hole clean, mud weight 8.5 ppg in & out, full returns	1,233.0	1,233.0		
00:15	0.25	00:30	INT, PRE DRL	FIT	NORMAL	Perform FIT to 12.5 ppg equivalant with 8.5 ppg test mud, pressure to 250 psi- good test	1,233.0	1,233.0		

00:30	2	02:30	INT, DRL	3RD_PTY	NORMAL	Pruitt replaced the damaged clamp assy off rotating head		1,233.0	1,233.0	2.00	3										
02:30	3.5	06:00	INT, DRL	DRL	NORMAL	Drill 12-1/4" intermediate from 1,233' to 1756' (523'@ 149.4 FPH), WOB 40, PP 3850, Diff 600, GPM 1000, RPM 50 (While building 6° tangent)		1,233.0	1,756.0												
Interval Problems																					
3RD PARTY, 1,233.0ftKB, 5/3/2024 00:30																					
Ref #	Dur (hr)	Exclude From Problem Time Calcs?		SubType	Problem Description	Est Cost OR (Cost)	Accountable Party	Comment													
3	2.00	No		PRESSURE CONTROL	ROTATING HEAD		PRUITT TOOL & SUPPLY CO INC	Pruitt replaced the damaged clamp assy off rotating head													
Drill Strings																					
BHA #2 , INTERMEDIATE																					
Bit Run				Drill Bit				Bit Type		Make											
2				12 1/4, BXTZ616, SN8946				PDC		SMITH											
Nozzles (1/32")				Bit Total Fluid Area (nozzles) (in²)		IADC Bit Dull		Hours Drilled By Bit (hr)		Depth Drilled By Bit (ft)											
13/13/13/13/13/13				0.78		-----		2.52		533.00											
BHA Drilling Time (hr)				BHA Depth Drilled (ft)		BHA ROP (ft/hr)		Depth In (ftKB)		Depth Out (ftKB)											
2.52				533.00		211.5		1,223.0		1,756.0											
Drill String Components																					
Jts	Item Des			OD (in)	ID (in)	Len (ft)	Cum Len (ft)	Wt (lbf)	Cum Wt (1000lbf)	Make											
21	DRILL PIPE			5	4.28	660.26	1,756.00	12,875.1	43	RIG											
5	HWDP			5	2.88	150.98	1,095.74	7,549.0	30	RIG											
1	DRILLING JARS - HYDRAULIC			6 3/4	2.88	28.96	944.76		22	KNIGHT OIL TOOLS LLC											
1	HWDP			5	2.88	447.91	915.80	22,395.5	22	RIG											
1	SUB - XO			6 13/16	2.81	3.18	467.89		0	DRILLING TOOLS INTERNATIONAL											
1	DRILL COLLAR - SPIRALED			8	2.75	352.34	464.71		0	RIG											
1	SUB - XO			8 1/8	2.81	3.40	112.37		0	DRILLING TOOLS INTERNATIONAL											
1	DRILL COLLAR - NON MAG			8	3.25	28.06	108.97		0	DRILLING TOOLS INTERNATIONAL											
1	MWD TOOL - NON-RETRIEVABLE			8	3.25	30.40	80.91		0	DRILLING TOOLS INTERNATIONAL											
1	SUB (OTHER)			8	3.50	3.19	50.51		0	SCHLUMBERGER											
1	SUB - UBHO			8	3.25	3.25	47.32		0	SCHLUMBERGER											
1	STABILIZER			8 1/4	2.81	8.10	44.07		0	DRILLING TOOLS INTERNATIONAL											
1	MOTOR - STABILIZER SLEEVE			8 3/4	4.88	34.57	35.97		0	MPACT											
Mud Motors																					
SN		Bend Angle		Bearing Type		Lobe Config		# Stages	Lwr Defn Type		Bit To Bend										
96D272DLE		1.5		NOT SEALED		7:8		7			7.1										
Sensors																					
Sensor Type				Sensor-Bit (ft)				Note													
DIRECTIONAL				75.72																	
GAMMA				79.36																	
Drilling Parameters																					
Start Time	End Time	Start Depth (ftKB)	Int Depth (ft)	Int ROP (ft/hr)	WOB (1000lbf)	RPM	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	ROP Average (ft/hr)	Drill Str Wt (1000lbf)	PU Str Wt (1000lbf)	SO Str Wt (1000lbf)	Off-Btm Str Wt (1000lbf)	Drill Tq	Off Btm Tq	TFO (°)				
23:40	23:50	1,223.0	10.00	58.8	15	20	276.0	448	1,077.0	63.0	115	115	115	115	5.0	5.0					
23:57	00:10	1,233.0	0.00		3	20	0.0	448	847.0	0.0	127	127	127	127	0.0	0.0					
02:35	02:43	1,233.0	22.00	169.2	45	20	639.0	652	2,191.0	165.0	85	85	85	85	12.0	12.0					
02:45	02:50	1,255.0	12.00	150.0	49	0	761.0	654	2,318.0	221.0	81	81	81	81	13.0	13.0					
02:52	03:20	1,267.0	110.00	234.0	47	19	647.0	761	2,801.0	216.0	85	85	85	85	12.0	12.0					
03:24	03:39	1,377.0	77.00	308.0	41	0	601.0	973	3,951.0	391.0	91	91	91	91	17.0	17.0					
03:39	03:49	1,454.0	43.00	252.9	51	48	783.0	963	4,138.0	447.0	79	79	79	79	16.0	16.0					
04:03	04:25	1,497.0	38.00	102.7	7	0	161.0	997	3,626.0	91.0	122	122	122	122	2.0	2.0					
04:27	04:53	1,535.0	123.00	286.0	41	47	763.0	973	4,219.0	441.0	90	90	90	90	14.0	14.0					
05:15	06:00	1,658.0	98.00	217.8	13	0	323.0	997	3,785.0	92.0	123	123	123	123	2.0	2.0					
Hydraulic Calculations																					
Dens Mud (lb/gal)		ECD End (lb/gal)		Bit Hydraulic Power (hp)		HP/Area (hp/in²)		Jet Vel (ft/s)		Bit dP (psi)		Min Open Hole AV (ft/min)		Max Open Hole AV (ft/min)		Vol DrillString (bbl)		Vol Bit to Shoe (bbl)		Vol Shoe to Top (bbl)	
8.60		8.62		766.4		6.5		411.3		1,317.8		27.9		332.5		20.96		51.89		153.59	
Mud Checks																					
Time		Mud Company				Type		Depth (ftKB)		Density (lb/gal)		Funnel Viscosity (s/qt)			T Flowline (° F)						
5/2/2024 20:00		PIONEER DRILLING FLUIDS				WATER BASE		1,223.0		8.60		28			0.0						
pV (cP)		YP (lbf/100ft²)		Vis 3rpm		Vis 6rpm		Filtrate (mL/30min)		HTHP Filtrate (mL/30min)			HTHP Temperature (° F)			HTHP Pressure (psi)					
1.0		1.000		1		1		100.0													
Solids (%)			Low Gravity Solids (%)				Sand (%)			MBT (lb/bbl)			Pm (mL/mL)			Pf (mL/mL)					
4.0			1.9				0.0			0.0			0.000			0.0					
Chlorides (mg/L)			Calcium (mg/L)			CaCl (ppm)					Oil Water Ratio		Electric Stab (V)			Lime (lb/bbl)		pH			
36,000			800.000			0.00218105461042404					0/100					0.0		7.0			
Gel 10 sec (lbf/100ft²)					Gel 10 min (lbf/100ft²)					Gel 30 min (lbf/100ft²)											
1.000					1.000					1.000					1.000						
Comment																					
Let MW increase while drilling, begin dumping and dilute once MW gets to 10.2 ppg. Continue to treat with Soda Ash for hardness and Lime for pH. Begin adding H2S																					

scavenger at 4,000'. Pump high vis sweeps every other connection for hole cleaning.									
Last BOP Test									
Date		Test Type		Item Tested			Next Test Date		Com
5/2/2024 17:00		BOP		BOP'S, 5/2/2024 09:30			5/9/2024 17:00		
Leak Off and Formation Integrity Tests									
Test Type				Depth (ftKB)			Dens Fluid (lb/gal)		
FORMATION INTEGRITY				1,203.0			12.50		
Casing Pressure Test									
Test Type	Test Subtype	Date		Item Tested			Failed?	Time (min)	P (psi)
CASING	STANDARD	3/23/2024 11:00		SURFACE, 1,203.3ftKB			No	30.00	1,000.0
Kick Offs & Key Depths									
Date		Type	Top Depth (ftKB)			Depth Top (TVD) (ftKB)			
No Data									
Casing Strings									
Description	Set Depth (ftKB)		Set Depth (TVD) (ftKB)		OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
CONDUCTOR	106.0		106.0		20	H40	78.67		
SURFACE	1,203.3		1,203.1		13 3/8	J55	54.50	BTC	781.1
Gas Emissions - Flare									
Type		Method		Dur (Min)		Amount		Units	Com
No Data									
Job Supply Amounts									
Supply Item Des	Type	Unit Label	Received	Consumed	Returned	Note		Cum On Loc	Cum Consumed
DIESEL	MUD	GAL	4158			Transferred from' UNIVERSITY 3-19 702H'		4,158	0
WATER	FRESH	BBL	0			Transferred from' UNIVERSITY 3-19 702H'		0	8249
DIESEL	FUEL	GAL	11478			Transferred from' UNIVERSITY 3-19 702H'		11,478	1099
DIESEL	FUEL	GAL		549		Rig		10,929	1648
WATER	FRESH	BBL				Meter reading 169699		0	8249
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 1/4	11.00	0.074	6,900.0
2	GARDNER-DENVER			PZ-11-1600		5 1/4	11.00	0.074	6,900.0
3	GARDNER-DENVER			PZ-11-1600		5 1/4	11.00	0.074	6,900.0
Pump Checks									
Pump #	Depth (ftKB)			Time	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)	
No Data									
Deviation Surveys									
Date			Description			Job			
3/20/2024 06:00			AS DRILL SURVEY			ODR, 3/19/2024 19:30			
Survey Data - All surveys for 24 hr reporting period									
MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)		VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	
1,300.00	1.81	161.58	1,299.70		22.26	-22.42	5.62	0.07	
1,395.00	1.65	146.05	1,394.66		25.10	-24.98	6.85	0.52	
1,489.00	2.09	137.71	1,488.61		28.12	-27.37	8.76	0.55	
1,583.00	3.52	126.20	1,582.50		32.43	-30.34	12.24	1.63	
Formations									
Formation Name			Prog Top Override (TVD SS) (ft(elv))		Prog Top MD (ftKB)	Prog Top (TVD) (ftKB)	Final Top MD (ftKB)	Final Top (TVD) (ftKB)	
256_0_YATES			657.0			2,045.0			
257_0_SEVEN RIVERS			299.0			2,403.0			
258_0_QUEEN			-218.0			2,920.0			
259_0_GRAYBURG			-890.0			3,592.0			
261_0_SAN ANDRES			-1,203.0			3,905.0			
263_0_SAN_ANDRES_SHALE			-2,179.0			4,881.0			
ICP1			-2,229.0			4,931.0			
265_0_CLEARFORK/POP			-3,020.0			5,722.0			
267_0_SPBY_U_A1/267_0_SPBY			-3,869.0			6,571.0			
267_5_SPBY_M_A1			-4,130.0			6,832.0			
268_5_SPBY_L_A1			-4,433.0			7,135.0			
268_6_SPBY_L_B1/JO MILL			-4,739.0			7,441.0			
268_7_SPBY_L_C1/LOWER SPRABERRY SHALE			-4,809.0			7,511.0			
ICP2			-4,969.0			7,671.0			
269_0_DEAN			-5,240.0			7,942.0			
270_0_WFMP_A1			-5,426.0			8,128.0			
271_0_WFMP_A2			-5,524.0			8,226.0			
TOT			-5,561.0			8,263.0			
ILP			-5,575.0			8,277.0			
PBHL/TD			-5,528.0			8,230.0			
Daily Contacts									
Job Contact				Title		Office	Mobile	Email	
RICHARDSON, KEN, AREA DRILLING SUPERINTENDENT				AREA DRILLING SUPERINTENDENT		432-571-2557	432-557-8128	KEN.RICHARDSON@PXD.COM	

COX, BRYAN, ENGINEER	ENGINEER	972-969-5717	361-318-4212	BRYAN.COX@PXD.COM
GARZA, JOHN, ENGINEER	ENGINEER		469-286-7746	JOHN.GARZA@PXD.COM
PARSELL, VIC, SUPERINTENDENT	SUPERINTENDENT		432-301-2539	VIC.PARSELL@PXD.COM
DAFFRON, MIKE, SUPERINTENDENT	SUPERINTENDENT	432-385-9242	318-243-5902	MIKE.DAFFRON@PXD.COM
YOUNG, JC, WELLSITE SUPERVISOR	WELLSITE SUPERVISOR		662-633-1897	JC.YOUNG@PXD.COM
BAYLIS, JAMES "BUD", WELLSITE SUPERVISOR	WELLSITE SUPERVISOR		601-518-1190	JAMES.BAYLIS@PXD.COM
CLIFTON, JOHN, MUD ENGINEER	MUD ENGINEER		405-243-6436	JOHN.CLIFTON@PXD.COM
RIG-H&P 604, RIG PHONE	RIG PHONE	432-200-0290	432-888-5155	DL-HP604@PXD.COM
Personnel Log				
Company				Count
PIONEER NATURAL RESOURCES USA INC				1
METEORITE ENERGY SERVICES INC				2
PINNERGY LTD				11

H & P 604

Accept: 5/2/2024

Release:

Days Since LTI: 888.00

Days Since RI: 191.00

Daily Drilling Report

PERMIAN - JV SOUTHERN WOLFCAMP

Job: ODR

Report Date: 05/04/2024

Report #: 5

Dfs: 3

Afe #: 9034369

Total Afe + Sup: \$3,384,818.20

Daily Field Est. (Cost): \$119,903.80

API/UWI 42-461-42560-0000		Well Profile HORIZONTAL		Open Formation WOLFCAMP A2 (WFMP A2)		Field Name SPRABERRY (TREND AREA)				
SSN ID00020209	Property Sub	KB-Grd (ft) 26.00	Orig KB Elevation (ft) 2,702.00		Ground Elevation (ft) 2,676.00		Spud Date 3/19/2024	TD Date		
Jobs										
Responsible Grp 2		Responsible Grp 3		Job Type	Start Date		End Date	Job Status		
DRL ENG - JOHN GARZA		AREA TEAM 4		ODR	3/19/2024 19:30			IN PROGRESS		
Job Dates (ex. Estimated Pad Release, TXRRC Calls)										
Type	Subtype		Date	Note						
MILESTONE	ESTIMATED PAD RELEASE		7/20/2024	Updated 5/3/24, drilling 2nd well, INT 1 interval on 6 well pad, sequential drilling						
TXRRC CALL	CEMENT INT		5/4/2024 03:20	Cindy Op #2 / Job #388700						
Daily Operations										
Footage/Meterage (ft) 3,264.00		Drilling Hours 19.31	% Rotating Time 80.22	End Depth (ftKB) 5,020.0	Target Depth (ftKB) 21,529.0	Daily Field Est Total \$119,903.80		Cum Field Est To Date \$623,087.84		
24 HR ROP (ft/hr) 169.0	Circulating Hours 2.25	% Sliding Time 19.78	End Depth (TVD) (ftKB) 4,999.7	Target Depth Depth (TVD) (ftKB) 8,229.2	Daily Mud Field Est Total \$9,380.48		Cum Mud Field Est \$9,380.48	Total AFE + Sup \$3,384,818.20		
Daily Goal Description DRILLED FEET		Daily Goal - Last 24 3,000.0			Daily Goal - Next 24 200.0		Goal Comments Goal met			
Backbuild Yes	Lateral Inclination	Last Casing String SURFACE, 1,203.3ftKB				Next Casing String PROPOSED INTERMEDIATE, 5,100.0ftKB				
Avg Connection Gas 25.00		Avg Trip Gas 0.00	Avg Background Gas 3.00		Max Connection Gas 38.00		Max Trip Gas 0.00	Max Drill Gas 19.00		
Operations Summary Drill INT 1 from 1,756' to 5020', Circulate sweeps and spot pad mud Safety stand down on upcoming futures.										
Operations Next Report Period TOOH. RIH with casing. Cement. P/U BHA TIH, test casing										
Operations At Report Time Flow Check										
Remarks NPT: Cum: 2 hrs; Dly: 0 hrs Surf: 100% Int.: 100% Int 2.: 0% Prod. Curve: 0% Prod. Lateral: 0% No Incident No Spills Reported Reserve Pit Level 6' below mark @ 18:00 5/3/24 Reserve Pit Level 6' below mark @ 05:30 5/4/24										
Time Log										
Start Time	Dur (hr)	End Time	Phase	Operation	Ops Category	Com	Start Depth (ftKB)	End Depth (ftKB)	Prob Hrs	Prob Ref #
06:00	0.75	06:45	INT, DRL	DRL	NORMAL	Drill 12-1/4" intermediate from 1,756' to 1,868' (112'@ 149.4 FPH), WOB 40, PP 3850, Diff 600, GPM 1000, RPM 50 (While building 6° tangent)	1,756.0	1,868.0		
06:45	0.25	07:00	INT, DRL	SFTY	NORMAL	Safety stand down on upcoming futures.	1,868.0	1,868.0		
07:00	10.5	17:30	INT, DRL	DRL	NORMAL	Drill 12-1/4" intermediate from 1,868' to 3,735' (1,867'@ 177.8 FPH), WOB 60, PP 5000, Diff 1200, GPM 1000, RPM 60	1,868.0	3,735.0		
17:30	0.5	18:00	INT, DRL	RIG_SVC	NORMAL	Rig service.	3,735.0	3,735.0		
18:00	0.25	18:15	INT, DRL	DRL	NORMAL	Drill 12-1/4" intermediate from 3,735' to 3,800' (65'@ 260 FPH), WOB 60, PP 5000, Diff 1200, GPM 1000, RPM 60	3,735.0	3,800.0		
18:15	0.25	18:30	INT, DRL	SFTY	NORMAL	Safety stand down on upcoming Exxon futures, also discussed fork lift safety	3,800.0	3,800.0		
18:30	8.75	03:15	INT, DRL	DRL	NORMAL	Drill 12-1/4" intermediate from 3,800' to 5,020' (1220'@ 139 FPH), WOB 50-60, PP 5200, Diff 1200, GPM 900, RPM 60	3,800.0	5,020.0		
03:15	2	05:15	INT, DRL	CIRC	NORMAL	Circulate hole clean with 2 sweeps. Had 50% washout	5,020.0	5,020.0		
05:15	0.5	05:45	INT, DRL	CIRC	NORMAL	Spot 175 bbls 10.4 ppg PAD mud, full returns	5,020.0	5,020.0		
05:45	0.25	06:00	INT, DRL	FLOW_CHK	NORMAL	Check flow well static	5,020.0	5,020.0		
Drill Strings										

BHA #2 , INTERMEDIATE				
Bit Run	Drill Bit		Bit Type	Make
2	12 1/4, BXTZ616, SN8946		PDC	SMITH
Nozzles (1/32")		Bit Total Fluid Area (nozzles) (in²)	IADC Bit Dull	Hours Drilled By Bit (hr)
13/13/13/13/13/13		0.78	-----	22.13
BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)
22.13	3,797.00	171.6	1,223.0	5,020.0

Drill String Components								
Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)	Wt (lbf)	Cum Wt (1000lbf)	Make
125	DRILL PIPE	5	4.28	3,924.26	5,020.00	76,523.1	106	RIG
5	HWDP	5	2.88	150.98	1,095.74	7,549.0	30	RIG
1	DRILLING JARS - HYDRAULIC	6 3/4	2.88	28.96	944.76		22	KNIGHT OIL TOOLS LLC
1	HWDP	5	2.88	447.91	915.80	22,395.5	22	RIG
1	SUB - XO	6 13/16	2.81	3.18	467.89		0	DRILLING TOOLS INTERNATIONAL
1	DRILL COLLAR - SPIRALED	8	2.75	352.34	464.71		0	RIG
1	SUB - XO	8 1/8	2.81	3.40	112.37		0	DRILLING TOOLS INTERNATIONAL
1	DRILL COLLAR - NON MAG	8	3.25	28.06	108.97		0	DRILLING TOOLS INTERNATIONAL
1	MWD TOOL - NON-RETRIEVABLE	8	3.25	30.40	80.91		0	DRILLING TOOLS INTERNATIONAL
1	SUB (OTHER)	8	3.50	3.19	50.51		0	SCHLUMBERGER
1	SUB - UBHO	8	3.25	3.25	47.32		0	SCHLUMBERGER
1	STABILIZER	8 1/4	2.81	8.10	44.07		0	DRILLING TOOLS INTERNATIONAL
1	MOTOR - STABILIZER SLEEVE	8 3/4	4.88	34.57	35.97		0	MPACT

Mud Motors							
SN	Bend Angle	Bearing Type	Lobe Config	# Stages	Lwr Defin Type	Bit To Bend	
96D272DLE	1.5	NOT SEALED	7:8	7		7.1	

Sensors		
Sensor Type	Sensor-Bit (ft)	Note
DIRECTIONAL	75.72	
GAMMA	79.36	

Drilling Parameters																	
Start Time	End Time	Start Depth (ftKB)	Int Depth (ft)	Int ROP (ft/hr)	WOB (1000lbf)	RPM	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	ROP Average (ft/hr)	Drill Str Wt (1000lbf)	PU Str Wt (1000lbf)	SO Str Wt (1000lbf)	Off-Btm Str Wt (1000lbf)	Drill Tq	Off Btm Tq	TFO (°)
06:00	06:27	1,756.0	25.00	62.5	10	0	166.0	996	3,849.0	74.0	125	125	125	125	2.0	2.0	
06:28	06:43	1,781.0	87.00	348.0	44	50	757.0	986	4,453.0	401.0	93	93	93	93	15.0	15.0	
06:51	07:21	1,868.0	23.00	46.0	20	0	235.0	996	3,924.0	50.0	116	116	116	116	2.0	2.0	
07:24	09:57	1,891.0	645.00	252.9	50	57	925.0	991	4,688.0	302.0	91	91	91	91	16.0	16.0	
10:07	10:39	2,536.0	27.00	50.9	11	0	0.0	995	3,967.0	51.0	136	136	136	136	2.0	2.0	
10:40	14:43	2,563.0	922.00	227.7	46	59	1,022.0	980	4,746.0	316.0	108	108	108	108	17.0	17.0	
14:51	15:28	3,485.0	25.00	40.3	8	0	310.0	994	4,043.0	39.0	155	155	155	155	2.0	2.0	
15:28	16:14	3,510.0	138.00	179.2	55	60	1,143.0	991	4,892.0	202.0	115	115	115	115	17.0	17.0	
16:23	17:08	3,648.0	31.00	41.3	25	0	495.0	994	4,241.0	47.0	144	144	144	144	4.0	4.0	
17:10	17:23	3,679.0	57.00	259.1	48	60	1,155.0	992	4,902.0	275.0	122	122	122	122	18.0	18.0	
17:48	19:41	3,736.0	348.00	185.1	47	57	1,367.0	982	5,122.0	234.0	123	123	123	123	21.0	21.0	
19:54	19:59	4,084.0	27.00	337.5	52	50	1,357.0	991	5,211.0	208.0	120	120	120	120	20.0	20.0	
20:18	21:55	4,111.0	297.00	183.3	41	49	1,072.0	983	4,925.0	185.0	135	135	135	135	16.0	16.0	
22:03	23:04	4,408.0	45.00	44.1	16	0	68.0	994	4,311.0	44.0	161	161	161	161	3.0	3.0	
23:06	01:25	4,453.0	319.00	137.5	49	50	858.0	990	5,012.0	156.0	136	136	136	136	16.0	16.0	
01:25	03:15	4,772.0	248.00	141.7	49	50	858.0	990	5,012.0	156.0	136	136	136	136	16.0	16.0	
03:15	04:30	5,020.0	0.00		0	50	100.0	990	4,550.0	0.0	136	136	136	136	0.0	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)	
10.20	10.22	890.0	7.6	408.4	1,541.1	27.7	330.1	79.04	447.85	154.17	

Mud Checks													
Time		Mud Company			Type	Depth (ftKB)		Density (lb/gal)		Funnel Viscosity (s/qt)		T Flowline (° F)	
5/3/2024 19:00		PIONEER DRILLING FLUIDS			WATER BASE	3,965.0		10.20		28		115.0	
pV (cP)	YP (lb/100ft²)	Vis 3rpm	Vis 6rpm	Filtrate (mL/30min)		HTHP Filtrate (mL/30min)			HTHP Temperature (° F)		HTHP Pressure (psi)		
1.0	1.000	1	1	100.0									
Solids (%)		Low Gravity Solids (%)			Sand (%)		MBT (lb/bbl)		Pm (mL/mL)		Pf (mL/mL)		
14.0		14.0			0.3		5.0		1.700		0.7		
Chlorides (mg/L)		Calcium (mg/L)		CaCl (ppm)			Oil Water Ratio		Electric Stab (V)		Lime (lb/bbl)	pH	
171,000		1,680.000		0.0165603101153738			100/0				0.4	11.0	
Gel 10 sec (lb/100ft²)				Gel 10 min (lb/100ft²)				Gel 30 min (lb/100ft²)					
1.000				1.000				1.000					

Mud Checks													
Time		Mud Company			Type	Depth (ftKB)		Density (lb/gal)		Funnel Viscosity (s/qt)		T Flowline (° F)	
5/3/2024 09:30		PIONEER DRILLING FLUIDS			WATER BASE	2,414.0		10.20		28		104.0	
pV (cP)	YP (lb/100ft²)	Vis 3rpm	Vis 6rpm	Filtrate (mL/30min)		HTHP Filtrate (mL/30min)			HTHP Temperature (° F)			HTHP Pressure (psi)	
1.0	1.000	1	1	100.0									
Solids (%)		Low Gravity Solids (%)			Sand (%)		MBT (lb/bbl)			Pm (mL/mL)		Pf (mL/mL)	

13.0		2.7		0.2		2.5		1.400		0.6			
Chlorides (mg/L)		Calcium (mg/L)		CaCl (ppm)		Oil Water Ratio		Electric Stab (V)		Lime (lb/bbl)		pH	
159,000		1,760.000		0.0186602417793607		100/0				0.4		10.5	
Gel 10 sec (lb/100ft²)				Gel 10 min (lb/100ft²)				Gel 30 min (lb/100ft²)					
1.000				1.000				1.000					
Comment													
Let MW increase to 10 - 10.2 while drilling, begin dumping and dilute once MW gets to 10.2 ppg. Continue to treat with Soda Ash for hardness and Lime for pH. Begin adding H2S scavenger at 4,000'. Pump high vis sweeps every other connection for hole cleaning.													
Last BOP Test													
Date		Test Type		Item Tested				Next Test Date			Com		
5/2/2024 16:30		BOP		BOP'S, 5/2/2024 09:30				5/9/2024 16:30					
Leak Off and Formation Integrity Tests													
Test Type				Depth (ftKB)				Dens Fluid (lb/gal)					
FORMATION INTEGRITY				1,203.0				12.50					
Casing Pressure Test													
Test Type	Test Subtype	Date		Item Tested				Failed?	Time (min)		P (psi)		
CASING	STANDARD	3/23/2024 11:00		SURFACE, 1,203.3ftKB				No	30.00		1,000.0		
Kick Offs & Key Depths													
Date		Type	Top Depth (ftKB)				Depth Top (TVD) (ftKB)						
No Data													
Casing Strings													
Description		Set Depth (ftKB)		Set Depth (TVD) (ftKB)		OD (in)	Grade	Wt/Len (lb/ft)		Top Thread		P LeakOff (psi)	
CONDUCTOR		106.0		106.0		20	H40	78.67					
SURFACE		1,203.3		1,203.1		13 3/8	J55	54.50		BTC		781.1	
Gas Emissions - Flare													
Type		Method		Dur (Min)			Amount		Units		Com		
No Data													
Job Supply Amounts													
Supply Item Des		Type	Unit Label	Received	Consumed	Returned	Note		Cum On Loc		Cum Consumed		
WATER		FRESH	BBL	1551	1551		Meter reading 171250		0		9800		
DIESEL		FUEL	GAL		4374		Rig		6,555		6022		
Mud Additive Amounts													
Des						Type		Units	Rec	Consumed	On Loc	Cum Cons	
JET HIB 5000						H2S SCAVANGER		GAL DRUM	12	1	11.0	1	
SOLIDS CONTROL EQUIPMENT						SOLIDS CONTROL EQUIPMENT		EA	2	2	0.0	2	
MUD RENTAL EQUIPMENT						MUD RENTAL EQUIPMENT		EA	2	2	0.0	2	
BLOWER FOR BULK BINS						MISCELLANEOUS		PER RIG	2	2	0.0	2	
BENTONITE - BULK						VISCOSIFIER		TON	9	4	5.0	4	
XANTHAN GUM						RHEOLOGY MODIFIER		LB	60	5	55.0	5	
SOLTEX						FILTRATE CONTROL		LB	31	6	25.0	6	
WC DEFOAMER						DEFOAMER		GAL	39	8	31.0	8	
PAC LV						FLUID LOSS ADDITIVES		LB	90	11	79.0	11	
LIME						ALKALINITY CONTROL		LB	390	29	361.0	29	
SODA ASH						HARDNESS MODIFIER		LB	257	43	214.0	43	
FLAT RATE (> THAN 1/2 FULL) OVER 16,000/SACK & OVER 12 TONS/BULK						MISCELLANEOUS		PER LOAD	800	800	0.0	800	
Pump Operations													
Pump #	Make			Model		Liner Size (in)		Stroke (in)		Vol/Stk (bbl/stk)		P Max (psi)	
1	GARDNER-DENVER			PZ-11-1600		5 1/4		11.00		0.074		6,900.0	
2	GARDNER-DENVER			PZ-11-1600		5 1/4		11.00		0.074		6,900.0	
3	GARDNER-DENVER			PZ-11-1600		5 1/4		11.00		0.074		6,900.0	
Pump Checks													
Pump #	Depth (ftKB)			Time		P (psi)		Strokes (spm)		Q Flow (gpm)		Eff (%)	
1	4,771.0			5/4/2024 02:00		275.0		30		88		95	
2	4,771.0			5/4/2024 02:00		255.0		30		88		95	
3	4,771.0			5/4/2024 02:00		245.0		30		88		95	
1	4,771.0			5/4/2024 02:01		280.0		40		118		95	
2	4,771.0			5/4/2024 02:01		270.0		40		118		95	
3	4,771.0			5/4/2024 02:01		260.0		40		118		95	
1	4,771.0			5/4/2024 02:02		320.0		50		147		95	
2	4,771.0			5/4/2024 02:02		310.0		50		147		95	
3	4,771.0			5/4/2024 02:02		295.0		50		147		95	
Deviation Surveys													
Date				Description				Job					
3/20/2024 06:00				AS DRILL SURVEY				ODR, 3/19/2024 19:30					
Survey Data - All surveys for 24 hr reporting period													
MD (ftKB)		Incl (°)	Azm (°)		TVD (ftKB)		VS (ft)		NS (ft)		EW (ft)		DLS (°/100ft)
1,772.00		6.25	122.86		1,770.86		43.55		-38.98		24.81		2.00
1,866.00		7.12	124.59		1,864.22		54.46		-45.06		33.90		0.95
2,055.00		6.99	130.57		2,051.79		77.64		-59.19		52.28		0.39
2,149.00		6.78	130.41		2,145.12		88.90		-66.51		60.85		0.22
2,243.00		6.63	129.87		2,238.47		99.86		-73.58		69.24		0.17

2,338.00	6.16	128.58	2,332.88	110.44	-80.28	77.44	0.52
2,432.00	5.86	130.10	2,426.37	120.28	-86.51	85.05	0.36
2,527.00	6.17	129.66	2,520.84	130.23	-92.89	92.69	0.33
2,621.00	6.93	126.98	2,614.23	140.95	-99.53	101.11	0.87
2,715.00	6.95	127.33	2,707.54	152.31	-106.39	110.16	0.05
2,904.00	6.35	127.78	2,895.27	174.19	-119.73	127.51	0.32
2,998.00	6.05	127.54	2,988.72	184.35	-125.93	135.55	0.32
3,093.00	5.74	125.58	3,083.21	194.10	-131.74	143.38	0.39
3,187.00	5.57	125.88	3,176.76	203.35	-137.15	150.90	0.18
3,281.00	5.13	125.57	3,270.35	212.11	-142.27	158.02	0.47
3,376.00	4.96	126.94	3,364.98	220.46	-147.21	164.75	0.22
3,470.00	4.86	122.00	3,458.63	228.48	-151.76	171.38	0.46
3,565.00	5.53	116.53	3,553.24	236.97	-155.94	178.89	0.88
3,659.00	5.81	118.30	3,646.78	246.10	-160.22	187.13	0.35
3,753.00	6.76	122.24	3,740.22	256.29	-165.43	196.00	1.11
3,848.00	6.58	122.75	3,834.58	267.28	-171.35	205.30	0.20
3,942.00	6.65	122.99	3,927.95	278.06	-177.23	214.40	0.08
4,051.00	6.41	121.69	4,036.24	290.40	-183.86	224.87	0.26
4,131.00	6.14	121.76	4,115.76	299.09	-188.46	232.31	0.34
4,226.00	5.92	120.41	4,210.24	309.00	-193.61	240.85	0.28
4,320.00	5.47	119.96	4,303.77	318.24	-198.31	248.92	0.48
4,414.00	6.19	122.55	4,397.29	327.72	-203.27	257.07	0.82
4,508.00	7.34	127.07	4,490.63	338.77	-209.62	266.13	1.35
4,603.00	7.11	126.17	4,584.88	350.71	-216.74	275.72	0.27
4,697.00	6.66	126.87	4,678.20	361.98	-223.45	284.78	0.49
4,792.00	5.75	127.08	4,772.64	372.24	-229.62	292.98	0.96
4,886.00	5.22	126.07	4,866.21	381.22	-234.98	300.19	0.57
4,942.00	5.06	126.40	4,921.99	386.24	-237.95	304.24	0.29

Formations						
Formation Name	Prog Top Override (TVD SS) (ft(elv))	Prog Top MD (ftKB)	Prog Top (TVD) (ftKB)	Final Top MD (ftKB)	Final Top (TVD) (ftKB)	
265_0_CLEARFORK/POP	-3,020.0		5,722.0			
267_0_SPBY_U_A1/267_0_SPBY	-3,869.0		6,571.0			
267_5_SPBY_M_A1	-4,130.0		6,832.0			
268_5_SPBY_L_A1	-4,433.0		7,135.0			
268_6_SPBY_L_B1/JO MILL	-4,739.0		7,441.0			
268_7_SPBY_L_C1/LOWER SPRABERRY SHALE	-4,809.0		7,511.0			
ICP2	-4,969.0		7,671.0			
269_0_DEAN	-5,240.0		7,942.0			
270_0_WFMP_A1	-5,426.0		8,128.0			
271_0_WFMP_A2	-5,524.0		8,226.0			
TOT	-5,561.0		8,263.0			
ILP	-5,575.0		8,277.0			
PBHL/TD	-5,528.0		8,230.0			

Daily Contacts				
Job Contact	Title	Office	Mobile	Email
RICHARDSON, KEN, AREA DRILLING SUPERINTENDENT	AREA DRILLING SUPERINTENDENT	432-571-2557	432-557-8128	KEN.RICHARDSON@PXD.COM
COX, BRYAN, ENGINEER	ENGINEER	972-969-5717	361-318-4212	BRYAN.COX@PXD.COM
GARZA, JOHN, ENGINEER	ENGINEER		469-286-7746	JOHN.GARZA@PXD.COM
PARSELL, VIC, SUPERINTENDENT	SUPERINTENDENT		432-301-2539	VIC.PARSELL@PXD.COM
DAFFRON, MIKE, SUPERINTENDENT	SUPERINTENDENT	432-385-9242	318-243-5902	MIKE.DAFFRON@PXD.COM
YOUNG, JC, WELLSITE SUPERVISOR	WELLSITE SUPERVISOR		662-633-1897	JC.YOUNG@PXD.COM
BAYLIS, JAMES "BUD", WELLSITE SUPERVISOR	WELLSITE SUPERVISOR		601-518-1190	JAMES.BAYLIS@PXD.COM
CLIFTON, JOHN, MUD ENGINEER	MUD ENGINEER		405-243-6436	JOHN.CLIFTON@PXD.COM
RIG-H&P 604, RIG PHONE	RIG PHONE	432-200-0290	432-888-5155	DL-HP604@PXD.COM

Personnel Log	
Company	Count
PIONEER NATURAL RESOURCES USA INC	3
HELMERICH & PAYNE INTERNATIONAL DRILLING CO	13
SCHLUMBERGER TECHNOLOGY CORPORATION	1

20:30	0.5	21:00	INT, CASE & CMT	RD_CSG	NORMAL	Rig down casing equipment	5,020.0	5,020.0		
21:00	0.5	21:30	INT, CASE & CMT	RU_CMT	NORMAL	R/U cement equipment	5,020.0	5,020.0		
21:30	1.75	23:15	INT, CASE & CMT	CIRC	NORMAL	Circulate surface to surface, full returns	5,020.0	5,020.0		
23:15	0.25	23:30	INT, CASE & CMT	SFTY	NORMAL	PJSM with Schlumberger & H&P on cementing 9 5/8" casing	5,020.0	5,020.0		
23:30	4	03:30	INT, CASE & CMT	CMT	NORMAL	Test lines to 4000 psi.Perform int 1 cement job as follows: mix & pump 50 bbl spacer @ 10.8 ppg, 516 bbls lead cement @ 11ppg, 62 bbls tail cement @ 14.8 ppg, drop plug & displace with 374 bbls fresh water, plug bumped on schedule from 950 psi to 1450 psi, held 5 minutes, bleed off 2.0 bbls back, floats holding, well static, had 44 bbls cement eturned to surface	5,020.0	5,020.0		
03:30	0.5	04:00	INT, CASE & CMT	RD_CMT	NORMAL	R/D cementers.	5,020.0	5,020.0		
04:00	0.5	04:30	INT, CASE & CMT	WH	NORMAL	Flush stack.L/O Cactus landing joint, install & test packoff - good	5,020.0	5,020.0		
04:30	0.25	04:45	INT2, PRE DRL	WRBSH	NORMAL	Install wear bushing	5,020.0	5,020.0		
04:45	0.25	05:00	INT2, PRE DRL	SFTY	NORMAL	PJSM on P/U directional BHA	5,020.0	5,020.0		
05:00	0.5	05:30	INT2, PRE DRL	PU_ DIR	NORMAL	P/U intermediate 2 directional BHA	5,020.0	5,020.0		
05:30	0.5	06:00	INT2, PRE DRL	TIH_ELEV	NORMAL	TIH from 103' to 1000', proper disp to trip tank	5,020.0	5,020.0		

Interval Problems										
SURFACE CONDITION, 5,020.0ftKB, 5/4/2024 19:45										
Ref #	Dur (hr)	Exclude From Problem Time Calcs?	SubType LOCATION	Problem Description WEATHER	Est Cost OR (Cost)	Accountable Party PIONEER NATURAL RESOURCES USA INC	Comment Wait on weather, Lighting and hailing			
4	0.50	No								

Drill Strings										
BHA #2 , INTERMEDIATE										
Bit Run 2			Drill Bit 12 1/4, BXTZ616, SN8946			Bit Type PDC		Make SMITH		
Nozzles (1/32") 13/13/13/13/13/13			Bit Total Fluid Area (nozzles) (in²) 0.78		IADC Bit Dull 3-1-CR-N-X-0-BT-TD		Hours Drilled By Bit (hr) 22.13		Depth Drilled By Bit (ft) 3,797.00	
BHA Drilling Time (hr) 22.13			BHA Depth Drilled (ft) 3,797.00		BHA ROP (ft/hr) 171.6		Depth In (ftKB) 1,223.0		Depth Out (ftKB) 5,020.0	

Drill String Components										
Jts	Item Des			OD (in)	ID (in)	Len (ft)	Cum Len (ft)	Wt (lbf)	Cum Wt (1000lbf)	Make
125	DRILL PIPE			5	4.28	3,924.26	5,020.00	76,523.1	106	RIG
5	HWDP			5	2.88	150.98	1,095.74	7,549.0	30	RIG
1	DRILLING JARS - HYDRAULIC			6 3/4	2.88	28.96	944.76		22	KNIGHT OIL TOOLS LLC
1	HWDP			5	2.88	447.91	915.80	22,395.5	22	RIG
1	SUB - XO			6 13/16	2.81	3.18	467.89		0	DRILLING TOOLS INTERNATIONAL
1	DRILL COLLAR - SPIRALED			8	2.75	352.34	464.71		0	RIG
1	SUB - XO			8 1/8	2.81	3.40	112.37		0	DRILLING TOOLS INTERNATIONAL
1	DRILL COLLAR - NON MAG			8	3.25	28.06	108.97		0	DRILLING TOOLS INTERNATIONAL
1	MWD TOOL - NON-RETRIEVABLE			8	3.25	30.40	80.91		0	DRILLING TOOLS INTERNATIONAL
1	SUB (OTHER)			8	3.50	3.19	50.51		0	SCHLUMBERGER
1	SUB - UBHO			8	3.25	3.25	47.32		0	SCHLUMBERGER
1	STABILIZER			8 1/4	2.81	8.10	44.07		0	DRILLING TOOLS INTERNATIONAL
1	MOTOR - STABILIZER SLEEVE			8 3/4	4.88	34.57	35.97		0	MPACT

Mud Motors						
SN		Bend Angle		Bearing Type		Lobe Config
96D272DLE		1.5		NOT SEALED		7:8
						# Stages 7
						Lwr Defln Type
						Bit To Bend 7.1

Sensors										
Sensor Type			Sensor-Bit (ft)				Note			
DIRECTIONAL			75.72							
GAMMA			79.36							

BHA #3 , INTERMEDIATE 2 - VERTICAL										
Bit Run 3			Drill Bit 8 3/4, DD506THX, 5343386			Bit Type PDC		Make BAKER HUGHES		
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)		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
5	HWDP			5	3.00	150.36	1,268.85	6,766.2	51	RIG
1	DRILLING JARS - MECHANICAL			6 3/4	2.88	28.96	1,118.49		44	KNIGHT OIL TOOLS LLC
33	HWDP			5	3.00	986.33	1,089.53	44,384.8	44	RIG

1	DRILL COLLAR - NON MAG	6 11/16	3.25	27.37	103.20		0	DRILLING TOOLS INTERNATIONAL													
1	MWD TOOL - RETRIEVABLE	6 3/4	3.25	31.06	75.83		0	SCHLUMBERGER													
1	SUB - UBHO	6 1/2	3.25	3.34	44.77		0	SCHLUMBERGER													
1	STABILIZER	6 3/4	2.81	5.73	41.43		0	DRILLING TOOLS INTERNATIONAL													
1	MOTOR - STABILIZER SLEEVE	7	3.50	34.70	35.70		0	MPACT													
Mud Motors																					
SN		Bend Angle		Bearing Type		Lobe Config		# Stages		Lwr Defln Type		Bit To Bend									
700-0544LE		1.83		NOT SEALED		7:8		6.9				5.6									
Sensors																					
Sensor Type			Sensor-Bit (ft)				Note														
DIRECTIONAL			70.68																		
GAMMA			74.32																		
Hydraulic Calculations																					
Dens Mud (lb/gal)		ECD End (lb/gal)		Bit Hydraulic Power (hp)		HP/Area (hp/in²)		Jet Vel (ft/s)		Bit dP (psi)		Min Open Hole AV (ft/min)		Max Open Hole AV (ft/min)		Vol DrillString (bbl)		Vol Bit to Shoe (bbl)		Vol Shoe to Top (bbl)	
Mud Checks																					
Time		Mud Company				Type		Depth (ftKB)		Density (lb/gal)		Funnel Viscosity (s/qt)			T Flowline (° F)						
5/4/2024 19:00		PIONEER DRILLING FLUIDS				WATER BASE		5,020.0		10.00		28			0.0						
pV (cP)		YP (lb/100ft²)		Vis 3rpm		Vis 6rpm		Filtrate (mL/30min)		HTHP Filtrate (mL/30min)			HTHP Temperature (° F)			HTHP Pressure (psi)					
1.0		1.000		1		1		100.0													
Solids (%)			Low Gravity Solids (%)				Sand (%)		MBT (lb/bbl)			Pm (mL/mL)			Pf (mL/mL)						
13.0			3.8				0.2		2.5			1.200			0.6						
Chlorides (mg/L)			Calcium (mg/L)			CaCl (ppm)				Oil Water Ratio		Electric Stab (V)			Lime (lb/bbl)		pH				
157,000			1,640.000			0.00403731771141067				0/100					0.2		10.5				
Gel 10 sec (lb/100ft²)						Gel 10 min (lb/100ft²)						Gel 30 min (lb/100ft²)									
1.000						1.000						1.000									
Comment																					
Mud Checks																					
Time		Mud Company				Type		Depth (ftKB)		Density (lb/gal)		Funnel Viscosity (s/qt)			T Flowline (° F)						
5/4/2024 07:00		PIONEER DRILLING FLUIDS				WATER BASE		5,020.0		10.20		28			0.0						
pV (cP)		YP (lb/100ft²)		Vis 3rpm		Vis 6rpm		Filtrate (mL/30min)		HTHP Filtrate (mL/30min)			HTHP Temperature (° F)			HTHP Pressure (psi)					
1.0		1.000		1		1		100.0													
Solids (%)			Low Gravity Solids (%)				Sand (%)		MBT (lb/bbl)			Pm (mL/mL)			Pf (mL/mL)						
13.5			4.3				0.2		2.5			1.300			0.6						
Chlorides (mg/L)			Calcium (mg/L)			CaCl (ppm)				Oil Water Ratio		Electric Stab (V)			Lime (lb/bbl)		pH				
159,000			1,600.000			0.00394476757576792				0/100					0.2		10.5				
Gel 10 sec (lb/100ft²)						Gel 10 min (lb/100ft²)						Gel 30 min (lb/100ft²)									
1.000						1.000						1.000									
Comment																					
No treatment while tripping and running casing.																					
Last BOP Test																					
Date			Test Type			Item Tested					Next Test Date			Com							
5/2/2024 16:30			BOP			BOP'S, 5/2/2024 09:30					5/9/2024 16:30										
Leak Off and Formation Integrity Tests																					
Test Type						Depth (ftKB)				Dens Fluid (lb/gal)											
FORMATION INTEGRITY						1,203.0				12.50											
Casing Pressure Test																					
Test Type		Test Subtype		Date			Item Tested				Failed?		Time (min)		P (psi)						
CASING		STANDARD		3/23/2024 11:00			SURFACE, 1,203.3ftKB				No		30.00		1,000.0						
Kick Offs & Key Depths																					
Date		Type		Top Depth (ftKB)					Depth Top (TVD) (ftKB)												
No Data																					
Casing Strings																					
Description		Set Depth (ftKB)		Set Depth (TVD) (ftKB)			OD (in)		Grade		Wt/Len (lb/ft)		Top Thread		P LeakOff (psi)						
CONDUCTOR		106.0		106.0			20		H40		78.67										
SURFACE		1,203.3		1,203.1			13 3/8		J55		54.50		BTC		781.1						
INTERMEDIATE		5,012.0		4,991.7			9 5/8		L80-IC		40.00		BTC								
Cement																					
Cement Fluids																					
Fluid Type		Estimated Top (ftKB)			Estimated Bottom (ftKB)				Class		Yield (ft³/sack)		Density (lb/gal)								
MUDPUSH		0.0			0.0								9.00								
Fluid Type		Estimated Top (ftKB)			Estimated Bottom (ftKB)				Class		Yield (ft³/sack)		Density (lb/gal)								
LEAD CMT		0.0			4,008.0				CLASS C POZ		3.21		11.00								
Fluid Type		Estimated Top (ftKB)			Estimated Bottom (ftKB)				Class		Yield (ft³/sack)		Density (lb/gal)								
TAIL CMT		4,008.0			5,012.0				CLASS C		1.33		14.80								
Fluid Type		Estimated Top (ftKB)			Estimated Bottom (ftKB)				Class		Yield (ft³/sack)		Density (lb/gal)								
DSPLMT		0.0			4,932.6								8.34								
Cement Stages																					
Description		Final Top Depth			Btm (ftKB)		Top Pl...			Btm Pl...											
		29.7			5,012.0		Yes														
Q Pump Init		Q Pump Final			Q Pump Avg		P Pump Final			P Plug Bump		Float		Recip?		Rotated?					
6		2			6		950.0			1,450.0		No		No		No					

INTERMEDIATE CASING CEMENT casing 5/4/2024 23:38										
Cmtg End Date	Wellbore	Technical Result	Comment							
5/5/2024 03:27	ORIGINAL		Spacer vol. = 50 bbls Lead vol.= 516 bbls Tail vol.= 62 bbls Cement returns vol.= 44 bbls Tracking# = 32528							
Gas Emissions - Flare										
Type		Method		Dur (Min)		Amount		Units	Com	
No Data										
Job Supply Amounts										
Supply Item Des	Type	Unit Label	Received	Consumed	Returned	Note	Cum On Loc	Cum Consumed		
WATER	FRESH	BBL	1380	1380		Meter reading 172630	0	11180		
DIESEL	FUEL	GAL		1154		Rig	5,401	7176		
Mud Additive Amounts										
Des			Type			Units	Rec	Consumed	On Loc	Cum Cons
BLOWER FOR BULK BINS			MISCELLANEOUS			PER RIG	1	1	0.0	3
MUD RENTAL EQUIPMENT			MUD RENTAL EQUIPMENT			EA	1	1	0.0	3
SOLIDS CONTROL EQUIPMENT			SOLIDS CONTROL EQUIPMENT			EA	1	1	0.0	3
WC DEFOAMER			DEFOAMER			GAL		5	26.0	13
JET HIB 5000			H2S SCAVANGER			GAL DRUM		5	6.0	6
SODA ASH			HARDNESS MODIFIER			LB		21	193.0	64
LIME			ALKALINITY CONTROL			LB		28	333.0	57
Pump Operations										
Pump #	Make		Model	Liner Size (in)	Stroke (in)	Vol/Stk (bbl/stk)		P Max (psi)		
1	GARDNER-DENVER		PZ-11-1600	5 1/4	11.00	0.074		6,900.0		
2	GARDNER-DENVER		PZ-11-1600	5 1/4	11.00	0.074		6,900.0		
3	GARDNER-DENVER		PZ-11-1600	5 1/4	11.00	0.074		6,900.0		
Pump Checks										
Pump #	Depth (ftKB)		Time	P (psi)	Strokes (spm)		Q Flow (gpm)		Eff (%)	
No Data										
Deviation Surveys										
Date			Description			Job				
3/20/2024 06:00			AS DRILL SURVEY			ODR, 3/19/2024 19:30				
Formations										
Formation Name			Prog Top Override (TVD SS) (ft(elv))		Prog Top MD (ftKB)	Prog Top (TVD) (ftKB)	Final Top MD (ftKB)	Final Top (TVD) (ftKB)		
265_0_CLEARFORK/POP			-3,020.0			5,722.0				
267_0_SPBY_U_A1/267_0_SPBY			-3,869.0			6,571.0				
267_5_SPBY_M_A1			-4,130.0			6,832.0				
268_5_SPBY_L_A1			-4,433.0			7,135.0				
268_6_SPBY_L_B1/JO MILL			-4,739.0			7,441.0				
268_7_SPBY_L_C1/LOWER SPRABERRY SHALE			-4,809.0			7,511.0				
ICP2			-4,969.0			7,671.0				
269_0_DEAN			-5,240.0			7,942.0				
270_0_WFMP_A1			-5,426.0			8,128.0				
271_0_WFMP_A2			-5,524.0			8,226.0				
TOT			-5,561.0			8,263.0				
ILP			-5,575.0			8,277.0				
PBHL/TD			-5,528.0			8,230.0				
Daily Contacts										
Job Contact			Title		Office	Mobile	Email			
RICHARDSON, KEN, AREA DRILLING SUPERINTENDENT			AREA DRILLING SUPERINTENDENT		432-571-2557	432-557-8128	KEN.RICHARDSON@PXD.COM			
COX, BRYAN, ENGINEER			ENGINEER		972-969-5717	361-318-4212	BRYAN.COX@PXD.COM			
GARZA, JOHN, ENGINEER			ENGINEER			469-286-7746	JOHN.GARZA@PXD.COM			
PARSELL, VIC, SUPERINTENDENT			SUPERINTENDENT			432-301-2539	VIC.PARSELL@PXD.COM			
DAFFRON, MIKE, SUPERINTENDENT			SUPERINTENDENT		432-385-9242	318-243-5902	MIKE.DAFFRON@PXD.COM			
YOUNG, JC, WELLSITE SUPERVISOR			WELLSITE SUPERVISOR			662-633-1897	JC.YOUNG@PXD.COM			
BAYLIS, JAMES "BUD", WELLSITE SUPERVISOR			WELLSITE SUPERVISOR			601-518-1190	JAMES.BAYLIS@PXD.COM			
CLIFTON, JOHN, MUD ENGINEER			MUD ENGINEER			405-243-6436	JOHN.CLIFTON@PXD.COM			
RIG-H&P 604, RIG PHONE			RIG PHONE		432-200-0290	432-888-5155	DL-HP604@PXD.COM			
Personnel Log										
Company								Count		
PIONEER NATURAL RESOURCES USA INC								3		
HELMERICH & PAYNE INTERNATIONAL DRILLING CO								13		
SCHLUMBERGER TECHNOLOGY CORPORATION								1		

H & P 604

Accept:5/2/2024

Release:

Days Since LTI:890.00

Days Since RI:193.00

Daily Drilling Report

PERMIAN - JV SOUTHERN WOLFCAMP

Job:ODR

Report Date:05/06/2024

Report #:7

DFS:5

AFE #:9034369

Total AFE + Sup:\$3,384,818.20

Daily Field Est. (Cost):\$188,746.94

API/UWI 42-461-42560-0000		Well Profile HORIZONTAL		Open Formation WOLFCAMP A2 (WFMP A2)		Field Name SPRABERRY (TREND AREA)				
SSN ID00020209	Property Sub	KB-Grd (ft) 26.00	Orig KB Elevation (ft) 2,702.00		Ground Elevation (ft) 2,676.00		Spud Date 3/19/2024	TD Date		
Jobs										
Responsible Grp 2		Responsible Grp 3		Job Type	Start Date		End Date	Job Status		
DRL ENG - JOHN GARZA		AREA TEAM 4		ODR	3/19/2024 19:30			IN PROGRESS		
Job Dates (ex. Estimated Pad Release, TXRRC Calls)										
Type	Subtype		Date	Note						
MILESTONE	ESTIMATED PAD RELEASE		7/20/2024	Updated 5/3/24, drilling 2nd well, INT 1 interval on 6 well pad, sequential drilling						
TXRRC CALL	CEMENT INT2		5/6/2024 04:15	Cindy Op #2 / Job #388700						
Daily Operations										
Footage/Meterage (ft) 2,688.00		Drilling Hours 9.80	% Rotating Time 66.53	End Depth (ftKB) 7,708.0	Target Depth (ftKB) 21,529.0	Daily Field Est Total \$188,746.94		Cum Field Est To Date \$1,103,944.46		
24 HR ROP (ft/hr) 274.3	Circulating Hours 1.24	% Sliding Time 33.47	End Depth (TVD) (ftKB) 7,684.8	Target Depth Depth (TVD) (ftKB) 8,229.2	Daily Mud Field Est Total \$4,652.53		Cum Mud Field Est \$18,742.46	Total AFE + Sup \$3,384,818.20		
Daily Goal Description DRILLED FEET		Daily Goal - Last 24 2,000.0			Daily Goal - Next 24 0.0		Goal Comments Goal met			
Backbuild Yes	Lateral Inclination	Last Casing String INTERMEDIATE, 5,012.0ftKB				Next Casing String PROPOSED INTERMEDIATE 2, 7,521.0ftKB				
Avg Connection Gas 359.00		Avg Trip Gas 0.00	Avg Background Gas 152.00		Max Connection Gas 1,025.00		Max Trip Gas 0.00	Max Drill Gas 693.00		
Operations Summary TIH from 1,000' to 4,800', Test casing, drill shoe track,Drill Int 2 F/ 5,020' T/ 7,485', Drill intermediate 2 curve F/7,485' T/7,708, Circulate sweep, Spot pad mud, TOO H, L/D directional BHA, Pull wear bushing MD: 7622', INC:9.80 °, AZM: 164.66°, Behind 0.62', Left 25.0 '										
Operations Next Report Period RIH with liner. Circulate. Set hanger. Cement. Set packer. Circulate. TOO H. Test BOPE.										
Operations At Report Time TIH @ 1000'										
Remarks NPT: Cum: 2 .5 hrs; Dly: 0 hrs Surf: 100% Int.: 100% Int 2.: 100% Prod. Curve: 0% Prod. Lateral: 0% No Incident No Spills Reported Reserve Pit Level 5.5 below mark @ 18:00 5/5/24 Reserve Pit Level 5.5' below mark @ 05:30 5/6/24										
Time Log										
Start Time	Dur (hr)	End Time	Phase	Operation	Ops Category	Com	Start Depth (ftKB)	End Depth (ftKB)	Prob Hrs	Prob Ref #
06:00	1.75	07:45	INT2, PRE DRL	TIH_ELEV	NORMAL	TIH from 1000' to 4,847', proper disp to trip tank	5,020.0	5,020.0		
07:45	0.5	08:15	INT2, PRE DRL	HDL_ROT HD	NORMAL	Install rotating head.	5,020.0	5,020.0		
08:15	0.75	09:00	INT2, PRE DRL	CSG_TEST	NORMAL	Fill pipe & Test 9 5/8" casing to 2,500 psi	5,020.0	5,020.0		
09:00	1	10:00	INT2, PRE DRL	DRL_OUT	NORMAL	Drill out Shoe track and cement from 4,847' to 5,020'	5,020.0	5,020.0		
10:00	0.25	10:15	INT2, PRE DRL	FLOW_CHK	NORMAL	Flow check.	5,020.0	5,020.0		
10:15	6.75	17:00	INT2, DRL	DRL	NORMAL	Drill 8.75" intermediate 2 from 5,020' to 7,028' (2,008' @ 297.5 FPH) wob-45/50, rpm-50, gpm-700, psi-3500, dpsi-1350, trq-18/20, full returns	5,020.0	7,028.0		
17:00	0.5	17:30	INT2, DRL	RIG_SVC	NORMAL	Rig service.	7,028.0	7,028.0		
17:30	1.25	18:45	INT2, DRL	DRL	NORMAL	Drill 8.75" intermediate 2 from 7,028' to 7,485' (459' @ 365.6 FPH) wob-45/50, rpm-50, gpm-700, psi-3500, dpsi-1350, trq-18/20, full returns	7,028.0	7,485.0		
18:45	4.25	23:00	INT2, DRL CURVE	DRL	NORMAL	Drill 8.75" intermediate 2 curve from 7,485' to 7,708' (223' @ 52.4 FPH) wob-20/25 rpm- 0-50, gpm-700, psi-2775, dpsi-200, full returns	7,485.0	7,708.0		
23:00	1	00:00	INT2, POST DRL	CIRC	NORMAL	Pump sweep and circulate Hole clean	7,708.0	7,708.0		
00:00	0.25	00:15	INT2, POST DRL	CIRC	NORMAL	Spot pad mud 250 bbls 8.5	7,708.0	7,708.0		
00:15	0.25	00:30	INT2, POST DRL	FLOW_CHK	NORMAL	Flow check, well static	7,708.0	7,708.0		

00:30	0.5	01:00	INT2, POST DRL	TOOH_ELEV	NORMAL	TOOH wet F/7708' T/6,770' with proper hole fill	7,708.0	7,708.0		
01:00	3.75	04:45	INT2, POST DRL	TOOH_ELEV	NORMAL	Pump slug and TOOH F/ 6,770' to BHA, Monitor proper fill on trip tank	7,708.0	7,708.0		
04:45	0.25	05:00	INT2, POST DRL	SFTY	NORMAL	PJSM on L/D 8 3/4" directional BHA	7,708.0	7,708.0		
05:00	0.5	05:30	INT2, POST DRL	LD_DIR	NORMAL	L/D 8 3/4" directional BHA	7,708.0	7,708.0		
05:30	0.5	06:00	INT2, POST DRL	WRBSH	NORMAL	Pull wear bushing, clean floor	7,708.0	7,708.0		

Drill Strings										
BHA #3 , INTERMEDIATE 2 - VERTICAL										
Bit Run			Drill Bit			Bit Type			Make	
			3 8 3/4, DD506THX, 5343386			PDC			BAKER HUGHES	
Nozzles (1/32")			Bit Total Fluid Area (nozzles) (in²)			IADC Bit Dull			Hours Drilled By Bit (hr)	
13/13/13/13/13/13			0.78			-----			9.80	
BHA Drilling Time (hr)			BHA Depth Drilled (ft)			BHA ROP (ft/hr)			Depth In (ftKB)	
9.80			2,688.00			274.3			5,020.0	
									7,708.0	

Drill String Components										
Jts	Item Des			OD (in)	ID (in)	Len (ft)	Cum Len (ft)	Wt (lbf)	Cum Wt (1000lbf)	Make
67	DRILL PIPE			4 1/2	3.83	2,093.45	7,708.00	34,751.3	171	QUAIL
1	SUB - XO			5	3.72	4.53	5,614.55		136	QUAIL
138	DRILL PIPE			5	4.28	4,341.17	5,610.02	84,652.8	136	RIG
5	HWDP			5	3.00	150.36	1,268.85	6,766.2	51	RIG
1	DRILLING JARS - MECHANICAL			6 3/4	2.88	28.96	1,118.49		44	KNIGHT OIL TOOLS LLC
33	HWDP			5	3.00	986.33	1,089.53	44,384.8	44	RIG
1	DRILL COLLAR - NON MAG			6 11/16	3.25	27.37	103.20		0	DRILLING TOOLS INTERNATIONAL
1	MWD TOOL - RETRIEVABLE			6 3/4	3.25	31.06	75.83		0	SCHLUMBERGER
1	SUB - UBHO			6 1/2	3.25	3.34	44.77		0	SCHLUMBERGER
1	STABILIZER			6 3/4	2.81	5.73	41.43		0	DRILLING TOOLS INTERNATIONAL
1	MOTOR - STABILIZER SLEEVE			7	3.50	34.70	35.70		0	MPACT

Mud Motors						
SN		Bend Angle		Bearing Type		Lobe Config
700-0544LE		1.83		NOT SEALED		7:8
						# Stages
						6.9
						Lwr Defln Type
						Bit To Bend
						5.6

Sensors		
Sensor Type		Sensor-Bit (ft)
DIRECTIONAL		70.68
GAMMA		74.32

Drilling Parameters																	
Start Time	End Time	Start Depth (ftKB)	Int Depth (ft)	Int ROP (ft/hr)	WOB (1000lbf)	RPM	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	ROP Average (ft/hr)	Drill Str Wt (1000lbf)	PU Str Wt (1000lbf)	SO Str Wt (1000lbf)	Off-Btm Str Wt (1000lbf)	Drill Tq	Off Btm Tq	TFO (°)
10:25	11:05	5,020.0	235.00	350.7	35	45	1,046.0	698	3,155.0	425.0	134	134	134	134	12.0	12.0	
11:16	11:33	5,255.0	20.00	71.4	12	0	96.0	698	2,443.0	69.0	157	157	157	157	2.0	2.0	
11:34	12:43	5,275.0	429.00	373.0	35	45	960.0	697	3,311.0	438.0	133	133	133	133	13.0	13.0	
13:14	14:55	5,704.0	706.00	420.2	44	45	1,135.0	697	3,551.0	541.0	133	133	133	133	14.0	14.0	
15:03	15:22	6,410.0	15.00	46.9	4	0	152.0	698	2,552.0	47.0	177	177	177	177	2.0	2.0	
15:24	16:55	6,425.0	603.00	396.7	46	47	1,274.0	688	3,666.0	500.0	142	142	142	142	16.0	16.0	
17:12	17:28	7,028.0	0.00		0	50	0.0	698	2,437.0	0.0	200	200	200	200	0.0	0.0	
17:33	18:54	7,028.0	457.00	338.5	46	50	1,335.0	697	3,608.0	431.0	157	157	157	157	17.0	17.0	
18:58	19:04	7,485.0	4.00	40.0	15	0	139.0	698	2,732.0	38.0	181	181	181	181	2.0	2.0	
19:17	19:31	7,489.0	13.00	56.5	16	0	243.0	698	2,672.0	51.0	181	181	181	181	3.0	3.0	
19:55	21:28	7,502.0	94.00	60.6	17	0	108.0	698	2,722.0	67.0	180	180	180	180	2.0	2.0	
21:34	21:41	7,596.0	49.00	408.3	47	50	926.0	697	3,533.0	407.0	165	165	165	165	17.0	17.0	
21:44	21:54	7,645.0	0.00		11	0	0.0	694	2,521.0	1.0	203	203	203	203	0.0	0.0	
21:54	22:42	7,645.0	49.00	61.3	30	0	189.0	698	2,699.0	60.0	182	182	182	182	2.0	2.0	
22:52	22:54	7,694.0	14.00	466.7	46	50	943.0	697	3,501.0	367.0	168	168	168	168	17.0	17.0	
22:55	23:43	7,708.0	0.00		2	50	0.0	698	2,571.0	0.0	213	213	213	213	0.0	0.0	

Hydraulic Calculations											
Dens Mud (lb/gal)	ECD End (lb/gal)	Bit Hydraulic Power (hp)		HP/Area (hp/in²)	Jet Vel (ft/s)	Bit dP (psi)	Min Open Hole AV (ft/min)	Max Open Hole AV (ft/min)	Vol DrillString (bbl)	Vol Bit to Shoe (bbl)	Vol Shoe to Top (bbl)
8.50	8.56	259.9		4.3	287.9	638.4	19.4	620.7	118.40	132.86	267.57

Mud Checks														
Time		Mud Company			Type	Depth (ftKB)		Density (lb/gal)		Funnel Viscosity (s/qt)		T Flowline (° F)		
5/5/2024 19:00		PIONEER DRILLING FLUIDS			WATER BASE	7,489.0		8.50		28		108.0		
pV (cP)	YP (lb/100ft²)	Vis 3rpm	Vis 6rpm	Filtrate (mL/30min)		HTHP Filtrate (mL/30min)			HTHP Temperature (° F)		HTHP Pressure (psi)			
1.0	1.000	1	1	100.0										
Solids (%)		Low Gravity Solids (%)				Sand (%)		MBT (lb/bbl)		Pm (mL/mL)		Pf (mL/mL)		
1.0		0.9				0.0		2.5		0.600		0.2		
Chlorides (mg/L)		Calcium (mg/L)		CaCl (ppm)		Oil Water Ratio		Electric Stab (V)		Lime (lb/bbl)		pH		
1,300		160.000		0.0004481544062473		0/100				0.1		10.0		
Gel 10 sec (lb/100ft²)				Gel 10 min (lb/100ft²)				Gel 30 min (lb/100ft²)						
1.000				1.000				1.000						

connection. Dump and dilute with fresh water.

Mud Checks									
Time		Mud Company			Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (° F)
5/5/2024 07:00		PIONEER DRILLING FLUIDS			WATER BASE	5,020.0	8.40	28	0.0
pV (cP)	YP (lb/100ft²)	Vis 3rpm	Vis 6rpm	Filtrate (mL/30min)		HTHP Filtrate (mL/30min)		HTHP Temperature (° F)	HTHP Pressure (psi)
1.0	1.000	1	1	100.0					
Solids (%)		Low Gravity Solids (%)			Sand (%)	MBT (lb/bbl)	Pm (mL/mL)	Pf (mL/mL)	
1.0		0.6			0.0	0.0	0.000	0.0	
Chlorides (mg/L)		Calcium (mg/L)		CaCl (ppm)		Oil Water Ratio	Electric Stab (V)	Lime (lb/bbl)	pH
1,600		200.000		0.000559916844822942		0/100		0.0	7.0
Gel 10 sec (lb/100ft²)				Gel 10 min (lb/100ft²)			Gel 30 min (lb/100ft²)		
1.000				1.000			1.000		

Comment
Maintain MW at 8.4 -8.5ppg. Add Soda Ash @ 1ppb to maintain hardness. Add lime @ 1ppb to increase pH. Pump high vis sweeps every other connection for hole cleaning. Dump and dilute with fresh water as needed.

Last BOP Test				
Date	Test Type	Item Tested		Next Test Date
5/2/2024 16:30	BOP	BOP'S, 5/2/2024 09:30		5/9/2024 16:30

Leak Off and Formation Integrity Tests		
Test Type	Depth (ftKB)	Dens Fluid (lb/gal)
FORMATION INTEGRITY	1,203.0	12.50

Casing Pressure Test						
Test Type	Test Subtype	Date	Item Tested	Failed?	Time (min)	P (psi)
CASING	STANDARD	3/23/2024 11:00	SURFACE, 1,203.3ftKB	No	30.00	1,000.0

Kick Offs & Key Depths			
Date	Type	Top Depth (ftKB)	Depth Top (TVD) (ftKB)
5/5/2024 18:45	KICK OFF	7,485.0	7,464.0

Casing Strings							
Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
CONDUCTOR	106.0	106.0	20	H40	78.67		
SURFACE	1,203.3	1,203.1	13 3/8	J55	54.50	BTC	781.1
INTERMEDIATE	5,012.0	4,991.7	9 5/8	L80-IC	40.00	BTC	

Gas Emissions - Flare					
Type	Method	Dur (Min)	Amount	Units	Com
No Data					

Job Supply Amounts								
Supply Item Des	Type	Unit Label	Received	Consumed	Returned	Note	Cum On Loc	Cum Consumed
DIESEL	FUEL	GAL	7214			Flint 94128	12,615	7176
WATER	FRESH	BBL	2883	2883		Meter reading 175513	0	14063
DIESEL	FUEL	GAL		1866		Rig	10,749	9042

Mud Additive Amounts							
Des	Type				Units	Rec	Consumed
MUD RENTAL EQUIPMENT	MUD RENTAL EQUIPMENT				EA	1	1
SOLIDS CONTROL EQUIPMENT	SOLIDS CONTROL EQUIPMENT				EA	1	1
BLOWER FOR BULK BINS	MISCELLANEOUS				PER RIG	1	1
BENTONITE - BULK	VISCOSIFIER				TON		2
XANTHAN GUM	RHEOLOGY MODIFIER				LB		5
PAC LV	FLUID LOSS ADDITIVES				LB		10
SODA ASH	HARDNESS MODIFIER				LB		23
LIME	ALKALINITY CONTROL				LB		32

Pump Operations						
Pump #	Make	Model	Liner Size (in)	Stroke (in)	Vol/Stk (bbl/stk)	P Max (psi)
1	GARDNER-DENVER	PZ-11-1600	5 1/4	11.00	0.074	6,900.0
2	GARDNER-DENVER	PZ-11-1600	5 1/4	11.00	0.074	6,900.0
3	GARDNER-DENVER	PZ-11-1600	5 1/4	11.00	0.074	6,900.0

Pump Checks						
Pump #	Depth (ftKB)	Time	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)
No Data						

Deviation Surveys		
Date	Description	Job
3/20/2024 06:00	AS DRILL SURVEY	ODR, 3/19/2024 19:30

Survey Data - All surveys for 24 hr reporting period							
MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
5,064.00	3.98	124.78	5,043.60	244.19	-243.55	312.05	0.89
5,159.00	3.46	124.55	5,138.40	247.71	-247.06	317.12	0.55
5,253.00	1.80	120.89	5,232.30	250.08	-249.43	320.72	1.77
5,348.00	0.20	308.18	5,327.29	250.75	-250.09	321.87	2.10
5,442.00	0.37	357.05	5,421.29	250.34	-249.69	321.73	0.30
5,537.00	0.38	74.56	5,516.29	249.95	-249.30	322.02	0.49
5,635.00	0.59	51.30	5,614.28	249.55	-248.89	322.72	0.29
5,730.00	0.30	358.39	5,709.28	249.00	-248.34	323.10	0.50

5,825.00	0.33	4.87	5,804.28	248.48	-247.82	323.11	0.05
5,919.00	0.80	30.50	5,898.27	247.64	-246.98	323.47	0.56
6,013.00	1.14	35.94	5,992.26	246.32	-245.66	324.35	0.37
6,107.00	1.09	48.50	6,086.24	244.97	-244.31	325.57	0.26
6,202.00	1.12	43.27	6,181.22	243.70	-243.04	326.88	0.11
6,297.00	1.94	56.02	6,276.19	242.13	-241.46	328.85	0.93
6,391.00	1.48	61.12	6,370.15	240.66	-239.99	331.24	0.51
6,486.00	0.84	184.43	6,465.14	240.77	-240.09	332.26	2.17
6,581.00	0.58	164.58	6,560.13	241.92	-241.25	332.33	0.37
6,675.00	0.65	123.74	6,654.12	242.68	-242.00	332.90	0.46
6,770.00	1.13	16.14	6,749.12	242.08	-241.40	333.61	1.54
6,865.00	0.71	332.48	6,844.11	240.66	-239.98	333.60	0.83
6,959.00	0.73	315.73	6,938.10	239.71	-239.03	332.91	0.22
7,054.00	0.43	37.65	7,033.10	239.00	-238.32	332.70	0.84
7,149.00	1.48	61.24	7,128.08	238.13	-237.44	334.00	1.16
7,243.00	1.34	63.55	7,222.05	237.06	-236.37	336.05	0.16
7,338.00	1.25	63.88	7,317.03	236.11	-235.42	337.97	0.10
7,432.00	0.89	71.14	7,411.01	235.43	-234.73	339.58	0.41
7,527.00	3.97	156.65	7,505.93	238.21	-237.51	341.59	4.21
7,572.00	8.33	162.61	7,550.66	242.76	-242.06	343.18	9.78
7,622.00	9.80	164.66	7,600.04	250.32	-249.62	345.39	3.01

Formations					
Formation Name	Prog Top Override (TVD SS) (ft(elv))	Prog Top MD (ftKB)	Prog Top (TVD) (ftKB)	Final Top MD (ftKB)	Final Top (TVD) (ftKB)
269_0_DEAN	-5,240.0		7,942.0		
270_0_WFMP_A1	-5,426.0		8,128.0		
271_0_WFMP_A2	-5,524.0		8,226.0		
TOT	-5,561.0		8,263.0		
ILP	-5,575.0		8,277.0		
PBHL/TD	-5,528.0		8,230.0		

Daily Contacts				
Job Contact	Title	Office	Mobile	Email
RICHARDSON, KEN, AREA DRILLING SUPERINTENDENT	AREA DRILLING SUPERINTENDENT	432-571-2557	432-557-8128	KEN.RICHARDSON@PXD.COM
COX, BRYAN, ENGINEER	ENGINEER	972-969-5717	361-318-4212	BRYAN.COX@PXD.COM
GARZA, JOHN, ENGINEER	ENGINEER		469-286-7746	JOHN.GARZA@PXD.COM
PARSELL, VIC, SUPERINTENDENT	SUPERINTENDENT		432-301-2539	VIC.PARSELL@PXD.COM
DAFFRON, MIKE, SUPERINTENDENT	SUPERINTENDENT	432-385-9242	318-243-5902	MIKE.DAFFRON@PXD.COM
YOUNG, JC, WELLSITE SUPERVISOR	WELLSITE SUPERVISOR		662-633-1897	JC.YOUNG@PXD.COM
BAYLIS, JAMES "BUD", WELLSITE SUPERVISOR	WELLSITE SUPERVISOR		601-518-1190	JAMES.BAYLIS@PXD.COM
CLIFTON, JOHN, MUD ENGINEER	MUD ENGINEER		405-243-6436	JOHN.CLIFTON@PXD.COM
RIG-H&P 604, RIG PHONE	RIG PHONE	432-200-0290	432-888-5155	DL-HP604@PXD.COM

Personnel Log	
Company	Count
PIONEER NATURAL RESOURCES USA INC	3
HELMERICH & PAYNE INTERNATIONAL DRILLING CO	12
SCHLUMBERGER TECHNOLOGY CORPORATION	1

H & P 604

Accept: 5/2/2024

Release:

Days Since LTI: 891.00

Days Since RI: 194.00

Daily Drilling Report

PERMIAN - JV SOUTHERN WOLFCAMP

Job: ODR

Report Date: 05/07/2024

Report #: 8

DFS: 6

AFE #: 9034369

Total AFE + Sup: \$3,384,818.20

Daily Field Est. (Cost): \$322,453.67

API/UWI 42-461-42560-0000			Well Profile HORIZONTAL		Open Formation WOLFCAMP A2 (WFMP A2)			Field Name SPRABERRY (TREND AREA)			
SSN ID00020209		Property Sub	KB-Grd (ft) 26.00		Orig KB Elevation (ft) 2,702.00		Ground Elevation (ft) 2,676.00		Spud Date 3/19/2024	TD Date	
Jobs											
Responsible Grp 2			Responsible Grp 3		Job Type	Start Date		End Date	Job Status		
DRL ENG - JOHN GARZA			AREA TEAM 4		ODR	3/19/2024 19:30			IN PROGRESS		
Job Dates (ex. Estimated Pad Release, TXRRC Calls)											
Type	Subtype		Date	Note							
MILESTONE	ESTIMATED PAD RELEASE		7/20/2024	Updated 5/3/24, drilling 2nd well, INT 1 interval on 6 well pad, sequential drilling							
Daily Operations											
Footage/Meterage (ft) 0.00		Drilling Hours	% Rotating Time	End Depth (ftKB) 7,708.0	Target Depth (ftKB) 21,529.0		Daily Field Est Total \$322,453.67		Cum Field Est To Date \$1,426,398.14		
24 HR ROP (ft/hr)	Circulating Hours	% Sliding Time	End Depth (TVD) (ftKB) 7,684.8	Target Depth Depth (TVD) (ftKB) 8,229.2		Daily Mud Field Est Total \$3,659.73		Cum Mud Field Est \$22,402.19	Total AFE + Sup \$3,384,818.20		
Daily Goal Description DRILLED FEET			Daily Goal - Last 24 0.0		Daily Goal - Next 24 500.0			Goal Comments Goal met			
Backbuild Yes	Lateral Inclination	Last Casing String INTERMEDIATE 2, 7,720.0ftKB				Next Casing String PROPOSED PRODUCTION, 21,468.0ftKB					
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 R/U and RIH with liner. Circulate. Set hanger. Cement. Set packer. Circulate. TOO. Test BOPE. Install WB. Work BHA.TIH to 3,060', Troubleshoot MWD tool, TIH to 4,000'											
Operations Next Report Period TIH with 6.75" assembly.Cut DL, C/O Saver sub, D/O shoe track. FIT to 11.5. Build curve. Drill lateral.											
Operations At Report Time TIH @ 4,000'											
Remarks NPT: Cum: 4.5 hrs; Dly: 2.0 hrs Surf: 100% Int.: 100% Int 2.: 100% Prod. Curve: 0% Prod. Lateral: 0% No Incident No Spills Reported Reserve Pit Level 5.5 below mark @ 18:00 5/6/24 Reserve Pit Level 5.5' below mark @ 05:30 5/7/24											
Time Log											
Start Time	Dur (hr)	End Time	Phase	Operation	Ops Category	Com		Start Depth (ftKB)	End Depth (ftKB)	Prob Hrs	Prob Ref #
06:00	0.5	06:30	INT2, CASE & CMT	RU_CSG	NORMAL	R/U casing tools.		7,708.0	7,708.0		
06:30	0.5	07:00	INT2, CASE & CMT	MU_SHOE_TRK	NORMAL	M/U shoe track and Test.		7,708.0	7,708.0		
07:00	2.5	09:30	INT2, CASE & CMT	LNR_W/OWASH	NORMAL	Run 66 total joints 7-5/8" 29.7# P-110 IC Wedge 441 from 92' to 2,895', proper disp to trip tank		7,708.0	7,708.0		
09:30	0.25	09:45	INT2, CASE & CMT	RD_CSG	NORMAL	R/D Maverick casing tools		7,708.0	7,708.0		
09:45	0.25	10:00	INT2, CASE & CMT	CIRC	NORMAL	Circulate 1 liner capacity, full returns		7,708.0	7,708.0		
10:00	4	14:00	INT2, CASE & CMT	LNR_W/OWASH	NORMAL	TIH with liner from 2,895' to 7,708', tagged bottom with 20K Note: filled pipe & washed last stand to bottom for safety		7,708.0	7,708.0		
14:00	1	15:00	INT2, CASE & CMT	CIRC	NORMAL	Circulate STS, full returns		7,708.0	7,708.0		
15:00	0.25	15:15	INT2, CASE & CMT	SFTY	NORMAL	PJSM prior to R/U & cement liner		7,708.0	7,708.0		
15:15	2.75	18:00	INT2, CASE & CMT	LNR_W/OWASH	NORMAL	Drop 1-1/4" brass ball allow 30 minutes to fall, pumped and never seen. Dropped 2nd ball and wait, pressure up & shear seat with 3,652 psi, drop 1-1/2" ball & allow 10 minutes to fall, pressure up & shear seat with 1737 psi, P/U &		7,708.0	7,708.0		

						check weights 156 k up & 1143 k down liner set in place				
18:00	0.25	18:15	INT2, CASE & CMT	RU_CMT	NORMAL	R/U SLB & test lines to 6500 PSI	7,708.0	7,708.0		
18:15	1.25	19:30	INT2, CASE & CMT	CMT	NORMAL	Perform liner cement job. Pump 30 bbl spacer @ 10 ppg, 64 bbl lead cement @ 11.0 ppg, 15 bbl tail cement @ 13.2 ppg, wash lines, drop dart & displace with 210 bbls freshwater, plug bumped on schedule from 1400 psi to 2400 psi, Full returns. release psi with 2.0 bbls returning to tank, floats holding & well static	7,708.0	7,708.0		
19:30	0.25	19:45	INT2, CASE & CMT	LNR_W/OWASH	NORMAL	Set liner top packer & test to 1000 psi for 5 minutes	7,708.0	7,708.0		
19:45	0.25	20:00	INT2, CASE & CMT	CIRC	NORMAL	Unsting from liner, CBU abover liner with 30 bbls spacer and 5 bbls cement returning to surface,	7,708.0	7,708.0		
20:00	0.25	20:15	INT2, CASE & CMT	RD_CMT	NORMAL	R/D cementing iron & L/D Baker cement head	7,708.0	7,708.0		
20:15	0.25	20:30	INT2, CASE & CMT	CIRC	NORMAL	Circulate bottom up with nerf ball	7,708.0	7,708.0		
20:30	2	22:30	INT2, CASE & CMT	TOOH_ELEV	NORMAL	TOOH with Baker liner setting tools from 4,821' to setting tool & L/D same, proper hole fill	7,708.0	7,708.0		
22:30	0.25	22:45	PROD, PRE DRL	SFTY	NORMAL	PJSM prior to test bop's	7,708.0	7,708.0		
22:45	2.5	01:15	PROD, PRE DRL	TEST_BOPE	NORMAL	Test BOP with 5" & 4-1/2" DP, test all rams 250/5000 psi, annular 250/3500 psi, rig floor valves and choke manifold 250/5000 psi, stand pipe to pumps 250/6500 psi, all tests were 5 min low & 5 min high	7,708.0	7,708.0		
01:15	0.25	01:30	PROD, PRE DRL	WRBSH	NORMAL	Install wear bushing	7,708.0	7,708.0		
01:30	0.25	01:45	PROD, PRE DRL	SFTY	NORMAL	PJSM prior to pick up BHA	7,708.0	7,708.0		
01:45	0.5	02:15	PROD, PRE DRL	PU_DIR	NORMAL	P/U directional RSS BHA	7,708.0	7,708.0		
02:15	1.25	03:30	PROD, PRE DRL	TIH_ELEV	NORMAL	TIH F/ 226' T/ 3,060' ,Monitor proper displacement on trip tank	7,708.0	7,708.0		
03:30	2	05:30	PROD, PRE DRL	3RD_PTY	NORMAL	Attempt to test MWD, Made several recycle attempt, send downlink to change configuration	7,708.0	7,708.0	2.00	6
05:30	0.5	06:00	PROD, PRE DRL	TIH_ELEV	NORMAL	TIH F/ 3,060' T/ 4,000',Monitor proper displacement on trip tank	7,708.0	7,708.0		

Interval Problems

DIRECTIONAL, 7,708.0ftKB, 5/7/2024 03:30

Ref #	Dur (hr)	Exclude From Problem Time Calcs?	SubType	Problem Description	Est Cost OR (Cost)	Accountable Party	Comment
6	2.00	No	MWD / LWD	TROUBLESHOOTING - DOWNHOLE EQUIPMENT		SCHLUMBERGER TECHNOLOGY CORPORATION	Attempt to test MWD, Made several recycle attempt, send downlink to change configuration

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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Mud Checks

Time		Mud Company			Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)		T Flowline (° F)		
5/6/2024 18:00		PIONEER DRILLING FLUIDS			WATER BASE	7,708.0	8.60	28		0.0		
pV (cP)	YP (lb/100ft²)	Vis 3rpm	Vis 6rpm	Filtrate (mL/30min)		HTHP Filtrate (mL/30min)		HTHP Temperature (° F)		HTHP Pressure (psi)		
1.0	1.000	1	1	100.0								
Solids (%)		Low Gravity Solids (%)			Sand (%)		MBT (lb/bbl)		Pm (mL/mL)		Pf (mL/mL)	
3.0		2.3			0.0		5.0		0.500		0.2	
Chlorides (mg/L)		Calcium (mg/L)		CaCl (ppm)			Oil Water Ratio		Electric Stab (V)		Lime (lb/bbl)	pH
1,300		200.000		0.000571721493349955			0/100				0.1	10.0
Gel 10 sec (lb/100ft²)				Gel 10 min (lb/100ft²)				Gel 30 min (lb/100ft²)				
1.000				1.000				1.000				

Mud Checks

Time		Mud Company			Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)		T Flowline (° F)	
5/6/2024 07:00		PIONEER DRILLING FLUIDS			WATER BASE	7,708.0	8.50	28		0.0	
pV (cP)	YP (lb/100ft²)	Vis 3rpm	Vis 6rpm	Filtrate (mL/30min)	HTHP Filtrate (mL/30min)		HTHP Temperature (° F)		HTHP Pressure (psi)		
1.0	1.000	1	1	100.0							
Solids (%)		Low Gravity Solids (%)			Sand (%)		MBT (lb/bbl)		Pm (mL/mL)		Pf (mL/mL)
2.0		1.5			0.0		2.5		0.500		0.2
Chlorides (mg/L)		Calcium (mg/L)		CaCl (ppm)		Oil Water Ratio		Electric Stab (V)		Lime (lb/bbl)	pH
1,300		200.000		0.000565900173897871		0/100				0.1	10.0
Gel 10 sec (lb/100ft²)				Gel 10 min (lb/100ft²)				Gel 30 min (lb/100ft²)			
1.000				1.000				1.000			

No treatment while TOO H and running casing.

Last BOP Test

Date	Test Type	Item Tested	Next Test Date	Com
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5/6/2024 22:45		BOP		BOP'S, 5/2/2024 09:30		5/27/2024 22:45				
Leak Off and Formation Integrity Tests										
Test Type				Depth (ftKB)			Dens Fluid (lb/gal)			
FORMATION INTEGRITY				1,203.0			12.50			
Casing Pressure Test										
Test Type	Test Subtype	Date		Item Tested			Failed?	Time (min)	P (psi)	
CASING	STANDARD	3/23/2024 11:00		SURFACE, 1,203.3ftKB			No	30.00	1,000.0	
CASING	STANDARD	5/5/2024 09:00		INTERMEDIATE, 5,012.0ftKB			No	30.00	2,500.0	
Kick Offs & Key Depths										
Date		Type		Top Depth (ftKB)			Depth Top (TVD) (ftKB)			
5/5/2024 18:45		KICK OFF		7,485.0			7,464.0			
Casing Strings										
Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)		OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)		
CONDUCTOR	106.0	106.0		20	H40	78.67				
SURFACE	1,203.3	1,203.1		13 3/8	J55	54.50	BTC	781.1		
INTERMEDIATE	5,012.0	4,991.7		9 5/8	L80-IC	40.00	BTC			
INTERMEDIATE 2	7,720.0			7 5/8	P110-ICY	29.70	WEDGE 441			
Cement										
Cement Fluids										
Fluid Type	Estimated Top (ftKB)		Estimated Bottom (ftKB)		Class		Yield (ft³/sack)		Density (lb/gal)	
MUDPUSH	0.0		0.0						10.00	
Fluid Type	Estimated Top (ftKB)		Estimated Bottom (ftKB)		Class		Yield (ft³/sack)		Density (lb/gal)	
LEAD CMT	4,296.6		7,208.0		TXI LITEWEIGHT		2.81		11.00	
Fluid Type	Estimated Top (ftKB)		Estimated Bottom (ftKB)		Class		Yield (ft³/sack)		Density (lb/gal)	
TAIL CMT	7,208.0		7,708.0		TXI LITEWEIGHT		1.36		13.20	
Fluid Type	Estimated Top (ftKB)		Estimated Bottom (ftKB)		Class		Yield (ft³/sack)		Density (lb/gal)	
DSPLMT	0.0		7,613.2						8.34	
Cement Stages										
Description		Final Top Depth		Btm (ftKB)	Top Pl...		Btm Pl...			
Intermediate cement job		4,296.6		7,708.0	Yes					
Q Pump Init		Q Pump Final		Q Pump Avg	P Pump Final		P Plug Bump		Recip?	
5		3		5	1,400.0		2,400.0		No	
LINER CEMENT casing 5/6/2024 18:15										
Cmtg End	Wellbore	Technical	Comment							
Date	ORIGINAL	Result	API #: 42-461-42560-00-00 W15 Tracking #: 32567 30 bbl spacer 10 ppg 60.4 bbl lead 11 ppg 15.3 bbl tail 13.2 ppg Latch plug @ 1500 psi Bump plug 2400 psi , Lift pressure 1400 psi. Bleedoff pressure 2 bbl back 5 BBL Cement to surface							
5/6/2024										
19:30										
Gas Emissions - Flare										
Type		Method		Dur (Min)		Amount		Units		
Com										
No Data										
Job Supply Amounts										
Supply Item Des		Type	Unit Label	Received	Consumed	Returned	Note		Cum On Loc	
DIESEL		MUD	GAL	7550			Flint #94199		11,708	
WATER		FRESH	BBL	794	794		Meter reading 176307		0	
DIESEL		FUEL	GAL		733		Rig		10,016	
Mud Additive Amounts										
Des			Type			Units	Rec	Consumed	On Loc	
Cum Cons										
SOLIDS CONTROL EQUIPMENT			SOLIDS CONTROL EQUIPMENT			EA	1	1	0.0	
5										
MUD RENTAL EQUIPMENT			MUD RENTAL EQUIPMENT			EA	1	1	0.0	
5										
BLOWER FOR BULK BINS			MISCELLANEOUS			PER RIG	1	1	0.0	
5										
BARITE - BULK			WEIGHTING MATERIAL			TON		9	25.0	
9										
Pump Operations										
Pump #	Make		Model		Liner Size (in)		Stroke (in)		Vol/Stk (bbl/stk)	
P Max (psi)										
1	GARDNER-DENVER		PZ-11-1600		5 1/4		11.00		0.074	
6,900.0										
2	GARDNER-DENVER		PZ-11-1600		5 1/4		11.00		0.074	
6,900.0										
3	GARDNER-DENVER		PZ-11-1600		5 1/4		11.00		0.074	
6,900.0										
Pump Checks										
Pump #		Depth (ftKB)		Time	P (psi)	Strokes (spm)		Q Flow (gpm)		
Eff (%)										
No Data										
Deviation Surveys										
Date			Description			Job				
3/20/2024 06:00			AS DRILL SURVEY			ODR, 3/19/2024 19:30				
Formations										
Formation Name		Prog Top Override (TVD SS) (ft(elv))		Prog Top MD (ftKB)		Prog Top (TVD) (ftKB)		Final Top MD (ftKB)		
Final Top (TVD) (ftKB)										
269_0_DEAN		-5,240.0				7,942.0				
270_0_WFMP_A1		-5,426.0				8,128.0				
271_0_WFMP_A2		-5,524.0				8,226.0				
TOT		-5,561.0				8,263.0				
ILP		-5,575.0				8,277.0				
PBHL/TD		-5,528.0				8,230.0				
Daily Contacts										
Job Contact				Title		Office	Mobile	Email		

RICHARDSON, KEN, AREA DRILLING SUPERINTENDENT	AREA DRILLING SUPERINTENDENT	432-571-2557	432-557-8128	KEN.RICHARDSON@PXD.COM
COX, BRYAN, ENGINEER	ENGINEER	972-969-5717	361-318-4212	BRYAN.COX@PXD.COM
GARZA, JOHN, ENGINEER	ENGINEER		469-286-7746	JOHN.GARZA@PXD.COM
PARSELL, VIC, SUPERINTENDENT	SUPERINTENDENT		432-301-2539	VIC.PARSELL@PXD.COM
DAFFRON, MIKE, SUPERINTENDENT	SUPERINTENDENT	432-385-9242	318-243-5902	MIKE.DAFFRON@PXD.COM
YOUNG, JC, WELLSITE SUPERVISOR	WELLSITE SUPERVISOR		662-633-1897	JC.YOUNG@PXD.COM
BAYLIS, JAMES "BUD", WELLSITE SUPERVISOR	WELLSITE SUPERVISOR		601-518-1190	JAMES.BAYLIS@PXD.COM
CLIFTON, JOHN, MUD ENGINEER	MUD ENGINEER		405-243-6436	JOHN.CLIFTON@PXD.COM
RIG-H&P 604, RIG PHONE	RIG PHONE	432-200-0290	432-888-5155	DL-HP604@PXD.COM
Personnel Log				
Company				Count
PIONEER NATURAL RESOURCES USA INC				3
HELMERICH & PAYNE INTERNATIONAL DRILLING CO				13
SCHLUMBERGER TECHNOLOGY CORPORATION				1

H & P 604

Accept:

5/2/2024

Release:

Days Since LTI:

892.00

Days Since RI:

195.00

PERMIAN - JV SOUTHERN WOLFCAMP

Job:

ODR

Report Date:

05/08/2024

Report #:

9

DFS:

7

AFE #:

9034369

Total AFE + Sup:

\$3,384,818.20

Daily Field Est. (Cost):

\$98,136.09

Daily Drilling Report

API/UWI 42-461-42560-0000		Well Profile HORIZONTAL		Open Formation WOLFCAMP A2 (WFMP A2)		Field Name SPRABERRY (TREND AREA)				
SSN ID00020209	Property Sub	KB-Grd (ft) 26.00	Orig KB Elevation (ft) 2,702.00		Ground Elevation (ft) 2,676.00		Spud Date 3/19/2024	TD Date		
Jobs										
Responsible Grp 2		Responsible Grp 3		Job Type	Start Date		End Date	Job Status		
DRL ENG - JOHN GARZA		AREA TEAM 4		ODR	3/19/2024 19:30			IN PROGRESS		
Job Dates (ex. Estimated Pad Release, TXRRC Calls)										
Type	Subtype		Date	Note						
MILESTONE	ESTIMATED PAD RELEASE		7/20/2024	Updated 5/7/24, drilling 2nd well, production interval on 6 well pad, sequential drilling						
Daily Operations										
Footage/Meterage (ft) 2,076.00		Drilling Hours 19.13	% Rotating Time 100.00	End Depth (ftKB) 9,784.0	Target Depth (ftKB) 21,529.0	Daily Field Est Total \$98,136.09		Cum Field Est To Date \$1,524,459.23		
24 HR ROP (ft/hr) 108.5	Circulating Hours 0.45	% Sliding Time 0.00	End Depth (TVD) (ftKB) 8,267.2	Target Depth Depth (TVD) (ftKB) 8,229.2	Daily Mud Field Est Total \$5,815.69		Cum Mud Field Est \$28,217.88	Total AFE + Sup \$3,384,818.20		
Daily Goal Description DRILLED FEET			Daily Goal - Last 24 500.0		Daily Goal - Next 24 3,500.0		Goal Comments Goal met			
Backbuild Yes	Lateral Inclination	Last Casing String INTERMEDIATE 2, 7,708.0ftKB				Next Casing String PROPOSED PRODUCTION, 21,468.0ftKB				
Avg Connection Gas 860.00		Avg Trip Gas 0.00	Avg Background Gas 290.00		Max Connection Gas 1,289.00		Max Trip Gas 0.00	Max Drill Gas 761.00		
Operations Summary TIH with 6.75" assembly to 7,480'. Test casing. Cut DL, C/O Saver sub, D/O shoe track. FIT to 11.5. Drill curve F/ 7,718' T/ 8,665', Drill lateral F/ 8,665' T/ 9,784'.										
Operations Next Report Period Drill lateral 13,284'.										
Operations At Report Time Drilling lateral @ 9,784'.										
Remarks NPT: Cum: 6.0 hrs; Dly: 0.0 hrs Surf: 100% Int.: 100% Int 2.: 100% Prod. Curve: 100% Prod. Lateral: 7% No Incident No Spills Reported Reserve Pit Level 5.5 below mark @ 18:00 5/7/24 Reserve Pit Level 5.5' below mark @ 05:30 5/8/24										
Time Log										
Start Time	Dur (hr)	End Time	Phase	Operation	Ops Category	Com	Start Depth (ftKB)	End Depth (ftKB)	Prob Hrs	Prob Ref #
06:00	1.25	07:15	PROD, PRE DRL	TIH_ELEV	NORMAL	TIH F/ 4,000' T/ 7,480', Monitor proper displacement on trip tank	7,708.0	7,708.0		
07:15	0.75	08:00	PROD, PRE DRL	CSG_TEST	NORMAL	Test casing to 2,500 psi.	7,708.0	7,708.0		
08:00	1	09:00	PROD, PRE DRL	SLIP_CUT	NORMAL	S/C drill line.	7,708.0	7,708.0		
09:00	1	10:00	PROD, PRE DRL	SAVER_SUB	NORMAL	Change out saver sub.	7,708.0	7,708.0		
10:00	1	11:00	PROD, PRE DRL	DRL_OUT	NORMAL	D/O cement and float equipment from 7,613' to 7,708' while displacing with 9.9 OBM.	7,708.0	7,708.0		
11:00	0.25	11:15	PROD, PRE DRL	DRL	NORMAL	Drill from 7,708' to 7,718' 15 wob, 20 rpm, 250 gpm	7,708.0	7,718.0		
11:15	1	12:15	PROD, PRE DRL	CIRC	NORMAL	Circulate 9.9 OBM around and clean hole.	7,718.0	7,718.0		
12:15	0.25	12:30	PROD, PRE DRL	FIT	NORMAL	FIT to 11.5 EMW, 9.9 TMW, 7,685' TVD, 640 PSI.	7,718.0	7,718.0		
12:30	11.5	00:00	PROD, DRL CURVE	DRL	NORMAL	Drill 6-3/4" production curve from 7,718' to 8,665', (947' @ 82.3 FPH,full returns MD 8,707', Inc. 85.96°, Azm. 179.94°, Above 5.11', Left 21.34'	7,718.0	8,665.0		
00:00	6	06:00	PROD, DRL LAT	DRL	NORMAL	Drill 6 3/4" lateral F/8,665' T/ 9,784', (1,119' @ 186.5 FPH) WOB 30-33, GPM 350, RPM 120, Diff 950, PP 4750	8,665.0	9,784.0		
Drill Strings										
BHA #4 , PRODUCTION - CURVE/LATERAL										
Bit Run 4		Drill Bit 6 3/4, SDi613, 6681				Bit Type PDC		Make SMITH		
Nozzles (1/32")		Bit Total Fluid Area (nozzles) (in²)		IADC Bit Dull		Hours Drilled By Bit (hr)		Depth Drilled By Bit (ft)		

9/9/9/9/9/9		0.37		-----		19.13		2,076.00									
BHA Drilling Time (hr)		BHA Depth Drilled (ft)		BHA ROP (ft/hr)		Depth In (ftKB)		Depth Out (ftKB)									
19.13		2,076.00		108.5		7,708.0		9,784.0									
Drill String Components																	
Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)	Wt (lbf)	Cum Wt (1000lbf)	Make									
303	DRILL PIPE	4 1/2	3.83	9,557.24	9,784.00	158,650.2	162	QUAIL									
3	HWDP	4 1/2	3.25	92.75	226.76	3,431.7	3	RIG									
1	SUB - XO	4.298	3.83	3.60	134.01		0	DRILLING TOOLS INTERNATIONAL									
1	SUB - FLOAT	4.298	3.83	4.19	130.41		0	DRILLING TOOLS INTERNATIONAL									
1	MOTOR - SLICK SLEEVE	5 1/4	2.25	32.37	126.22		0	MPACT									
1	ANTI-STALL TOOL	5	3.75	21.82	93.85		0	TOMAX									
1	SUB - XO	5 1/4	2.25	3.58	72.03		0	DRILLING TOOLS INTERNATIONAL									
1	SUB - FILTER	5 1/16	2.25	4.51	68.45		0	DRILLING TOOLS INTERNATIONAL									
1	SUB (OTHER)	4 3/4	2.69	5.08	63.94		0	SCHLUMBERGER									
1	STABILIZER	4 15/16	2.69	4.56	58.86		0	DRILLING TOOLS INTERNATIONAL									
1	MWD TOOL - NON-RETRIEVABLE	4 15/16	2.69	29.48	54.30		0	DRILLING TOOLS INTERNATIONAL									
1	DRILL COLLAR - NON MAG, FLEX	5 1/16	2.69	9.45	24.82		0	DRILLING TOOLS INTERNATIONAL									
1	RSS TOOL	5	3.64	14.92	15.37		0	SCHLUMBERGER									
Mud Motors																	
SN		Bend Angle		Bearing Type		Lobe Config		# Stages									
500-154LE		0		NOT SEALED		7:8		7									
Sensors																	
Sensor Type		Sensor-Bit (ft)				Note											
NEAR BIT INCLINOMETER		8.34															
GAMMA		30.33															
Drilling Parameters																	
Start Time	End Time	Start Depth (ftKB)	Int Depth (ft)	Int ROP (ft/hr)	WOB (1000lbf)	RPM	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	ROP Average (ft/hr)	Drill Str Wt (1000lbf)	PU Str Wt (1000lbf)	SO Str Wt (1000lbf)	Off-Btm Str Wt (1000lbf)	Drill Tq	Off Btm Tq	TFO (°)
11:00	11:11	7,708.0	10.00	55.6	14	24	200.0	254	2,189.0	55.0	157	157	157	157	6.0	6.0	
11:12	11:39	7,718.0	0.00		0	10	0.0	259	2,072.0	0.0	173	173	173	173	0.0	0.0	
12:32	00:38	7,718.0	1,033.00	85.4	20	22	300.0	380	4,460.0	111.0	147	147	147	147	6.0	6.0	
00:49	01:40	8,751.0	180.00	211.8	30	98	500.0	352	4,454.0	231.0	140	140	140	140	10.0	10.0	
01:40	06:00	8,931.0	853.00	142.2	33	120	950.0	352	4,454.0	231.0	140	140	140	140	10.0	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)		
9.80	10.14	167.3		4.7	303.0	814.8	9.8		479.3		138.28		50.40		346.08		
Mud Checks																	
Time		Mud Company				Type		Depth (ftKB)		Density (lb/gal)		Funnel Viscosity (s/qt)		T Flowline (° F)			
5/7/2024 19:00		PIONEER DRILLING FLUIDS				OIL BASE		8,139.0		9.80		56		107.0			
pV (cP)	YP (lbf/100ft²)	Vis 3rpm	Vis 6rpm	Filtrate (mL/30min)			HTHP Filtrate (mL/30min)			HTHP Temperature (° F)		HTHP Pressure (psi)					
17.0	9.000	5	6				14.2			250.0		500.0					
Solids (%)		Low Gravity Solids (%)				Sand (%)		MBT (lb/bbl)		Pm (mL/mL)		Pf (mL/mL)					
13.5		8.6				0.0											
Chlorides (mg/L)		Calcium (mg/L)		CaCl (ppm)			Oil Water Ratio		Electric Stab (V)		Lime (lb/bbl)		pH				
25,000		10,800.000		0.133552971884391			78.6/21.4		711.0		2.6						
Gel 10 sec (lbf/100ft²)				Gel 10 min (lbf/100ft²)				Gel 30 min (lbf/100ft²)									
6.000				6.000				8.000									
Comment																	
12 shaker screens changed in the last 24 hours. Centrifuge was not run in the last 24 hours. PNR fluid transfer checklist completed prior to transfers. Displace hole with OBM.																	
Mud Checks																	
Time		Mud Company				Type		Depth (ftKB)		Density (lb/gal)		Funnel Viscosity (s/qt)		T Flowline (° F)			
5/7/2024 09:00		PIONEER DRILLING FLUIDS				OIL BASE		7,708.0		9.80		59		0.0			
pV (cP)	YP (lbf/100ft²)	Vis 3rpm	Vis 6rpm	Filtrate (mL/30min)			HTHP Filtrate (mL/30min)			HTHP Temperature (° F)		HTHP Pressure (psi)					
18.0	8.000	5	6				14.4			250.0		500.0					
Solids (%)		Low Gravity Solids (%)				Sand (%)		MBT (lb/bbl)		Pm (mL/mL)		Pf (mL/mL)					
13.5		8.6				0.0											
Chlorides (mg/L)		Calcium (mg/L)		CaCl (ppm)			Oil Water Ratio		Electric Stab (V)		Lime (lb/bbl)		pH				
25,000		10,800.000		0.133552971884391			78.6/21.4		681.0		2.5						
Gel 10 sec (lbf/100ft²)				Gel 10 min (lbf/100ft²)				Gel 30 min (lbf/100ft²)									
6.000				7.000				10.000									
Comment																	
Maintain MW 9.8 - 10.2 ppg. Add Diesel @ 3 sec./qt. (7.1 bbls./hr.). Added Water @ 10 sec./qt. (2.1 bbls. / hr.) Add Calcium Chloride @ 4 ppb. Add Gilsonite @ 1 ppb. Add Lime @ 3-4 ppb. Additions of OBM Primary and OBM Secondary for ES @ 500-800. Rheology Modifier for low end rheology.																	
Last BOP Test																	
Date		Test Type		Item Tested				Next Test Date			Com						
5/6/2024 22:45		BOP		BOP'S, 5/2/2024 09:30				5/27/2024 22:45									
Leak Off and Formation Integrity Tests																	
Test Type					Depth (ftKB)					Dens Fluid (lb/gal)							
FORMATION INTEGRITY					1,203.0					12.50							

FORMATION INTEGRITY				7,708.0		11.51					
Casing Pressure Test											
Test Type	Test Subtype	Date		Item Tested		Failed?	Time (min)	P (psi)			
CASING	STANDARD	3/23/2024 11:00		SURFACE, 1,203.3ftKB		No	30.00	1,000.0			
CASING	STANDARD	5/5/2024 09:00		INTERMEDIATE, 5,012.0ftKB		No	30.00	2,500.0			
Kick Offs & Key Depths											
Date		Type		Top Depth (ftKB)		Depth Top (TVD) (ftKB)					
5/5/2024 18:45		KICK OFF		7,485.0		7,464.0					
5/8/2024 00:00		HEEL		8,665.0		8,254.3					
Casing Strings											
Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)		OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)			
CONDUCTOR	106.0	106.0		20	H40	78.67					
SURFACE	1,203.3	1,203.1		13 3/8	J55	54.50	BTC	781.1			
INTERMEDIATE	5,012.0	4,991.7		9 5/8	L80-IC	40.00	BTC				
INTERMEDIATE 2	7,708.0	7,684.2		7 5/8	P110-ICY	29.70	WEDGE 441	4,596.9			
Gas Emissions - Flare											
Type		Method		Dur (Min)		Amount	Units	Com			
No Data											
Job Supply Amounts											
Supply Item Des	Type	Unit Label	Received	Consumed	Returned	Note	Cum On Loc	Cum Consumed			
WATER	FRESH	BBL				Meter reading 176307	0	14857			
DIESEL	FUEL	GAL		1713		Rig	8,303	11488			
DIESEL	MUD	GAL		2762		Mud	8,946	2762			
Mud Additive Amounts											
Des					Type		Units	Rec	Consumed	On Loc	Cum Cons
SOLIDS CONTROL EQUIPMENT					SOLIDS CONTROL EQUIPMENT		EA	1	1	0.0	6
MUD RENTAL EQUIPMENT					MUD RENTAL EQUIPMENT		EA	1	1	0.0	6
BCI OBM PRIMARY					EMULSIFIER		GAL		1	12.0	1
BCI OBM RHEO MODIFIER					LOW END MODIFIER		GAL		1	9.0	1
BENTONE 910					ORGANOPHILLIC CLAY		LB	80	3	90.0	3
BENTONE 990					ORGANOPHILLIC CLAY		LB	80	3	90.0	3
GILSOCOL GP					SPECIALTY		LB	100	12	138.0	12
CALCIUM CHLORIDE					CALCIUM CHLORIDE		LB	100	26	280.0	26
SHRINK WRAP					MISCELLANEOUS		EA	27	27	0.0	27
PALLETS					MISCELLANEOUS		EA	27	27	0.0	27
LIME					ALKALINITY CONTROL		LB	120	32	389.0	121
FLAT RATE (> THAN 1/2 FULL) OVER 16,000/SACK & OVER 12 TONS/BULK					MISCELLANEOUS		PER LOAD	800	800	0.0	1,600
DIESEL - FOR MUD							GAL	12632	2636	9,996.0	2,636
Pump Operations											
Pump #	Make			Model		Liner Size (in)	Stroke (in)	Vol/Stk (bbl/stk)		P Max (psi)	
1	GARDNER-DENVER			PZ-11-1600		5 1/4	11.00	0.074		6,900.0	
2	GARDNER-DENVER			PZ-11-1600		5 1/4	11.00	0.074		6,900.0	
3	GARDNER-DENVER			PZ-11-1600		5 1/4	11.00	0.074		6,900.0	
Pump Checks											
Pump #		Depth (ftKB)		Time	P (psi)	Strokes (spm)		Q Flow (gpm)		Eff (%)	
No Data											
Deviation Surveys											
Date			Description			Job					
3/20/2024 06:00			AS DRILL SURVEY			ODR, 3/19/2024 19:30					
Survey Data - All surveys for 24 hr reporting period											
MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)				
7,760.00	16.90	184.13	7,734.28	281.71	-281.00	347.05	6.02				
7,855.00	22.83	171.10	7,823.63	313.74	-313.03	348.91	7.75				
7,949.00	30.16	182.40	7,907.76	355.44	-354.72	350.75	9.43				
8,044.00	38.53	192.85	7,986.19	408.25	-407.55	343.15	10.75				
8,139.00	47.35	189.84	8,055.68	471.63	-470.96	330.57	9.53				
8,233.00	53.17	182.96	8,115.79	543.36	-542.70	322.71	8.36				
8,328.00	59.14	178.09	8,168.70	622.18	-621.52	322.10	7.59				
8,422.00	69.65	177.77	8,209.27	706.78	-706.12	325.17	11.19				
8,517.00	79.37	178.36	8,234.61	798.17	-797.51	328.25	10.25				
8,612.00	83.40	181.06	8,248.84	892.07	-891.40	328.71	5.09				
8,707.00	85.96	179.94	8,257.64	986.65	-985.98	327.89	2.94				
8,802.00	87.28	182.78	8,263.25	1,081.44	-1,080.78	325.63	3.29				
8,896.00	90.14	184.80	8,265.36	1,175.18	-1,174.53	319.42	3.72				
8,991.00	89.88	185.02	8,265.35	1,269.82	-1,269.19	311.29	0.36				
9,086.00	90.14	185.03	8,265.33	1,364.44	-1,363.82	302.97	0.27				
9,181.00	90.21	182.01	8,265.04	1,459.23	-1,458.63	297.14	3.18				
9,275.00	89.73	182.69	8,265.09	1,553.15	-1,552.55	293.28	0.89				
9,370.00	89.87	183.12	8,265.42	1,648.01	-1,647.43	288.47	0.48				
9,464.00	89.74	182.00	8,265.74	1,741.91	-1,741.33	284.27	1.20				

Formations					
Formation Name	Prog Top Override (TVD SS) (ft(elv))	Prog Top MD (ftKB)	Prog Top (TVD) (ftKB)	Final Top MD (ftKB)	Final Top (TVD) (ftKB)
ILP	-5,575.0		8,277.0		
Daily Contacts					
Job Contact		Title	Office	Mobile	Email
RICHARDSON, KEN, AREA DRILLING SUPERINTENDENT		AREA DRILLING SUPERINTENDENT	432-571-2557	432-557-8128	KEN.RICHARDSON@PXD.COM
COX, BRYAN, ENGINEER		ENGINEER	972-969-5717	361-318-4212	BRYAN.COX@PXD.COM
GARZA, JOHN, ENGINEER		ENGINEER		469-286-7746	JOHN.GARZA@PXD.COM
PARSELL, VIC, SUPERINTENDENT		SUPERINTENDENT		432-301-2539	VIC.PARSELL@PXD.COM
DAFFRON, MIKE, SUPERINTENDENT		SUPERINTENDENT	432-385-9242	318-243-5902	MIKE.DAFFRON@PXD.COM
YOUNG, JC, WELLSITE SUPERVISOR		WELLSITE SUPERVISOR		662-633-1897	JC.YOUNG@PXD.COM
BAYLIS, JAMES "BUD", WELLSITE SUPERVISOR		WELLSITE SUPERVISOR		601-518-1190	JAMES.BAYLIS@PXD.COM
CLIFTON, JOHN, MUD ENGINEER		MUD ENGINEER		405-243-6436	JOHN.CLIFTON@PXD.COM
RIG-H&P 604, RIG PHONE		RIG PHONE	432-200-0290	432-888-5155	DL-HP604@PXD.COM
Personnel Log					
Company					Count
PIONEER NATURAL RESOURCES USA INC					3
HELMERICH & PAYNE INTERNATIONAL DRILLING CO					13
SCHLUMBERGER TECHNOLOGY CORPORATION					1

H & P 604

Accept:

5/2/2024

Release:

Days Since LTI:

893.00

Days Since RI:

196.00

PERMIAN - JV SOUTHERN WOLFCAMP

Job:

ODR

Report Date:

05/09/2024

Report #:

10

DFS:

8

AFE #:

9034369

Total AFE + Sup:

\$3,384,818.20

Daily Field Est. (Cost):

\$185,770.70

Daily Drilling Report

API/UWI 42-461-42560-0000		Well Profile HORIZONTAL		Open Formation WOLFCAMP A2 (WFMP A2)		Field Name SPRABERRY (TREND AREA)				
SSN ID00020209	Property Sub	KB-Grd (ft) 26.00	Orig KB Elevation (ft) 2,702.00		Ground Elevation (ft) 2,676.00		Spud Date 3/19/2024	TD Date		
Jobs										
Responsible Grp 2		Responsible Grp 3		Job Type	Start Date		End Date	Job Status		
DRL ENG - JOHN GARZA		AREA TEAM 4		ODR	3/19/2024 19:30			IN PROGRESS		
Job Dates (ex. Estimated Pad Release, TXRRC Calls)										
Type	Subtype		Date	Note						
MILESTONE	ESTIMATED PAD RELEASE		7/20/2024	Updated 5/9/24, drilling 2nd well, production interval on 6 well pad, sequential drilling						
Daily Operations										
Footage/Meterage (ft) 5,516.00		Drilling Hours 22.08	% Rotating Time 100.00	End Depth (ftKB) 15,300.0	Target Depth (ftKB) 21,529.0	Daily Field Est Total \$185,770.70		Cum Field Est To Date \$1,710,229.92		
24 HR ROP (ft/hr) 249.8	Circulating Hours 1.02	% Sliding Time 0.00	End Depth (TVD) (ftKB) 8,273.7	Target Depth Depth (TVD) (ftKB) 8,229.2	Daily Mud Field Est Total \$10,946.58		Cum Mud Field Est \$39,164.46	Total AFE + Sup \$3,384,818.20		
Daily Goal Description DRILLED FEET			Daily Goal - Last 24 3,500.0		Daily Goal - Next 24 3,500.0		Goal Comments Goal met			
Backbuild Yes	Lateral Inclination	Last Casing String INTERMEDIATE 2, 7,708.0ftKB				Next Casing String PROPOSED PRODUCTION, 21,468.0ftKB				
Avg Connection Gas 2,200.00		Avg Trip Gas 0.00	Avg Background Gas 1,723.00		Max Connection Gas 2,526.00		Max Trip Gas 0.00	Max Drill Gas 2,441.00		
Operations Summary Drill lateral 9,784' to 10,757', Control drill F/10,757' T/10,961' due to trouble with RSS tool steering, Drill lateral F/10,961' T/15,300' MD: 14946', INC:89.65 °, AZM: 179.22', Below 3.76', Left 18.12 '										
Operations Next Report Period Drill lateral 18,800'.										
Operations At Report Time Drilling lateral @ 15,300'.										
Remarks NPT: Cum: 6.0 hrs; Dly: 0.0 hrs Surf: 100% Int.: 100% Int 2.: 100% Prod. Curve: 100% Prod. Lateral: 52% No Incident No Spills Reported Reserve Pit Level 5.5 below mark @ 18:00 5/8/24 Reserve Pit Level 5.5' below mark @ 05:30 5/9/24										
Time Log										
Start Time	Dur (hr)	End Time	Phase	Operation	Ops Category	Com	Start Depth (ftKB)	End Depth (ftKB)	Prob Hrs	Prob Ref #
06:00	4.5	10:30	PROD, DRL LAT	DRL	NORMAL	Drill 6 3/4" lateral F/9,784' T/ 10,757', (973' @ 216.2 FPH) WOB 15-35, GPM 350, RPM 80-120, Diff 950, PP 4750	9,784.0	10,757.0		
10:30	0.25	10:45	PROD, DRL LAT	CIRC	NORMAL	Downlink off bottom.	10,757.0	10,757.0		
10:45	0.5	11:15	PROD, DRL LAT	DRL	NORMAL	Drill 6 3/4" lateral F/10,757' T/ 10,822', (65' @ 130 FPH) WOB 15, GPM 350, RPM 80-120, Diff 250, PP 4150 Note: Drilled with just 15k wob	10,757.0	10,822.0		
11:15	0.25	11:30	PROD, DRL LAT	CIRC	NORMAL	Downlink off bottom.	10,822.0	10,822.0		
11:30	1.5	13:00	PROD, DRL LAT	DRL	NORMAL	Drill 6 3/4" lateral F/10,822' T/ 10,961', (139' @ 92.7 FPH) WOB 15, GPM 350, RPM 80-120, Diff 300, PP 4150 Note: ROP set from 75-100 FPH	10,822.0	10,961.0		
13:00	4.25	17:15	PROD, DRL LAT	DRL	NORMAL	Drill 6 3/4" lateral F/10,961' T/ 12,146', (1,185' @ 278.8 FPH) WOB 35, GPM 350, RPM 80-130, Diff 1075, PP 5250	10,961.0	12,146.0		
17:15	0.5	17:45	PROD, DRL LAT	RIG_SVC	NORMAL	Service rig.	12,146.0	12,146.0		
17:45	12.25	06:00	PROD, DRL LAT	DRL	NORMAL	Drill 6 3/4" lateral F/12,146' T/ 15,300', (3,154' @ 257.5FPH) WOB 35, GPM 350, RPM 80-130, Diff 1075, PP 5600	12,146.0	15,300.0		
Interval Problems										
DIRECTIONAL, 10,961.0ftKB, 5/8/2024 10:30										
Ref #	Dur (hr)	Exclude From Problem Time Calcs?	SubType	Problem Description		Est Cost OR (Cost)	Accountable Party		Comment	

8	2.50	Yes	ROTARY STEERABLE	FAILURE - DOWNHOLE EQUIPMENT		SCHLUMBERGER TECHNOLOGY CORPORATION	Downlink off bottom. Drilled only 15k WOB. Downlink off bottom. Drill @ 75 FPH
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Drill Strings

BHA #4 , PRODUCTION - CURVE/LATERAL

Bit Run	Drill Bit		Bit Type	Make
4	6 3/4, SDi613, 6681		PDC	SMITH
Nozzles (1/32")	Bit Total Fluid Area (nozzles) (in²)	IADC Bit Dull	Hours Drilled By Bit (hr)	Depth Drilled By Bit (ft)
9/9/9/9/9/9	0.37	-----	41.21	7,592.00
BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)	Depth Out (ftKB)
41.21	7,592.00	184.2	7,708.0	15,300.0

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)	Wt (lbf)	Cum Wt (1000lbf)	Make	
479	DRILL PIPE	4 1/2	3.83	15,073.24	15,300.00	250,215.8	254	QUAIL	
3	HWDP	4 1/2	3.25	92.75	226.76	3,431.7	3	RIG	
1	SUB - XO	4.298	3.83	3.60	134.01		0	DRILLING TOOLS INTERNATIONAL	
1	SUB - FLOAT	4.298	3.83	4.19	130.41		0	DRILLING TOOLS INTERNATIONAL	
1	MOTOR - SLICK SLEEVE	5 1/4	2.25	32.37	126.22		0	MPACT	
1	ANTI-STALL TOOL	5	3.75	21.82	93.85		0	TOMAX	
1	SUB - XO	5 1/4	2.25	3.58	72.03		0	DRILLING TOOLS INTERNATIONAL	
1	SUB - FILTER	5 1/16	2.25	4.51	68.45		0	DRILLING TOOLS INTERNATIONAL	
1	SUB (OTHER)	4 3/4	2.69	5.08	63.94		0	SCHLUMBERGER	
1	STABILIZER	4 15/16	2.69	4.56	58.86		0	DRILLING TOOLS INTERNATIONAL	
1	MWD TOOL - NON-RETRIEVABLE	4 15/16	2.69	29.48	54.30		0	DRILLING TOOLS INTERNATIONAL	
1	DRILL COLLAR - NON MAG, FLEX	5 1/16	2.69	9.45	24.82		0	DRILLING TOOLS INTERNATIONAL	
1	RSS TOOL	5	3.64	14.92	15.37		0	SCHLUMBERGER	

Mud Motors

SN	Bend Angle	Bearing Type	Lobe Config	# Stages	Lwr Defln Type	Bit To Bend
500-154LE	0	NOT SEALED	7:8	7		0

Sensors

Sensor Type	Sensor-Bit (ft)	Note
NEAR BIT INCLINOMETER	8.34	
GAMMA	30.33	

Drilling Parameters

Start Time	End Time	Start Depth (ftKB)	Int Depth (ft)	Int ROP (ft/hr)	WOB (1000lbf)	RPM	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	ROP Average (ft/hr)	Drill Str Wt (1000lbf)	PU Str Wt (1000lbf)	SO Str Wt (1000lbf)	Off-Btm Str Wt (1000lbf)	Drill Tq	Off Btm Tq	TFO (°)
06:00	10:22	9,784.0	973.00	222.7	26	121	676.0	352	4,563.0	266.0	139	139	139	139	9.0	9.0	
10:22	10:44	10,757.0	0.00		1	40	0.0	342	3,774.0	0.0	163	163	163	163	0.0	0.0	
10:44	11:10	10,757.0	66.00	153.5	16	120	463.0	352	4,350.0	154.0	148	148	148	148	8.0	8.0	
11:14	11:30	10,823.0	0.00		1	40	0.0	337	3,703.0	0.0	165	165	165	165	0.0	0.0	
11:30	17:19	10,823.0	1,324.00	227.5	26	126	764.0	349	4,780.0	291.0	136	136	136	136	11.0	11.0	
17:27	17:50	12,147.0	0.00		0	22	0.0	285	3,185.0	0.0	165	165	165	165	0.0	0.0	
17:53	18:35	12,147.0	220.00	314.3	33	129	959.0	351	5,077.0	371.0	128	128	128	128	14.0	14.0	
18:46	19:50	12,367.0	271.00	253.3	30	126	856.0	352	5,018.0	338.0	131	131	131	131	13.0	13.0	
20:01	00:58	12,638.0	1,426.00	288.1	33	129	926.0	351	5,327.0	382.0	124	124	124	124	15.0	15.0	
01:09	02:31	14,064.0	440.00	321.2	33	129	918.0	351	5,488.0	391.0	122	122	122	122	16.0	16.0	
02:48	05:25	14,504.0	761.00	290.5	32	127	920.0	351	5,523.0	357.0	123	123	123	123	16.0	16.0	
05:25	06:00	15,265.0	35.00	46.7	32	127	920.0	351	5,523.0	357.0	123	123	123	123	16.0	16.0	

Hydraulic Calculations

Dens Mud (lb/gal)	ECD End (lb/gal)	Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Jet Vel (ft/s)	Bit dP (psi)	Min Open Hole AV (ft/min)	Max Open Hole AV (ft/min)	Vol DrillString (bbl)	Vol Bit to Shoe (bbl)	Vol Shoe to Top (bbl)
10.00	10.83	169.3	4.7	302.1	826.7	9.8	477.9	216.88	186.04	346.08

Mud Checks

Time		Mud Company			Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)		T Flowline (° F)			
5/8/2024 20:00		PIONEER DRILLING FLUIDS			OIL BASE	12,637.0	10.00	69		112.0			
pV (cP)	YP (lbF/100ft²)	Vis 3rpm	Vis 6rpm	Filtrate (mL/30min)		HTHP Filtrate (mL/30min)		HTHP Temperature (° F)		HTHP Pressure (psi)			
24.0	11.000	6	7			13.4		250.0		500.0			
Solids (%)		Low Gravity Solids (%)			Sand (%)		MBT (lb/bbl)		Pm (mL/mL)		Pf (mL/mL)		
14.5		9.1			0.0								
Chlorides (mg/L)		Calcium (mg/L)		CaCl (ppm)			Oil Water Ratio		Electric Stab (V)		Lime (lb/bbl)		pH
25,000		11,200.000		0.144987834014894			79.5/20.5		601.0		2.9		
Gel 10 sec (lbF/100ft²)				Gel 10 min (lbF/100ft²)				Gel 30 min (lbF/100ft²)					
7.000				12.000				14.000					

Comment

No shaker screens changed in the last 24 hours. Centrifuge was not run in the last 24 hours. PNR fluid transfer checklist completed prior to transfers. Received 1 load diesel (7406 gals).

Mud Checks

Time		Mud Company			Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)		T Flowline (° F)	
5/8/2024 07:00		PIONEER DRILLING FLUIDS			OIL BASE	10,094.0	9.80	61		109.0	
pV (cP)	YP (lb/100ft²)	Vis 3rpm	Vis 6rpm	Filtrate (mL/30min)	HTHP Filtrate (mL/30min)			HTHP Temperature (° F)		HTHP Pressure (psi)	
20.0	10.000	5	6		13.8			250.0		500.0	
Solids (%)		Low Gravity Solids (%)			Sand (%)		MBT (lb/bbl)		Pm (mL/mL)		Pf (mL/mL)

13.5		8.6	0.0								
Chlorides (mg/L) 24,000		Calcium (mg/L) 10,400.000		CaCl (ppm) 0.129524949338351		Oil Water Ratio 78.6/21.4	Electric Stab (V) 631.0		Lime (lb/bbl) 2.6	pH	
Gel 10 sec (lb/100ft²) 6.000				Gel 10 min (lb/100ft²) 8.000			Gel 30 min (lb/100ft²) 9.000				
Comment Maintain MW 9.8 - 10.2 ppg. Add Diesel @ 3 sec./qt. (7.1 bbls./hr.). Added Water @ 10 sec./qt. (2.1 bbls. / hr.) Add Calcium Chloride @ 4 ppb. Add Gilsonite @ 1 ppb. Add Lime @ 3-4 ppb. Additions of OBM Primary and OBM Secondary for ES @ 500-800. Rheology Modifier for low end rheology.											
Last BOP Test											
Date		Test Type		Item Tested			Next Test Date		Com		
5/6/2024 22:45		BOP		BOP'S, 5/2/2024 09:30			5/27/2024 22:45				
Leak Off and Formation Integrity Tests											
Test Type				Depth (ftKB)			Dens Fluid (lb/gal)				
FORMATION INTEGRITY				1,203.0			12.50				
FORMATION INTEGRITY				7,708.0			11.51				
Casing Pressure Test											
Test Type	Test Subtype	Date		Item Tested			Failed?	Time (min)		P (psi)	
CASING	STANDARD	3/23/2024 11:00		SURFACE, 1,203.3ftKB			No	30.00		1,000.0	
CASING	STANDARD	5/5/2024 09:00		INTERMEDIATE, 5,012.0ftKB			No	30.00		2,500.0	
CASING	STANDARD	5/7/2024 08:00		INTERMEDIATE 2, 7,708.0ftKB			No	30.00		2,500.0	
Kick Offs & Key Depths											
Date		Type		Top Depth (ftKB)			Depth Top (TVD) (ftKB)				
5/5/2024 18:45		KICK OFF		7,485.0			7,464.0				
5/8/2024 00:00		HEEL		8,665.0			8,254.3				
Casing Strings											
Description	Set Depth (ftKB)		Set Depth (TVD) (ftKB)		OD (in)	Grade	Wt/Len (lb/ft)		Top Thread	P LeakOff (psi)	
CONDUCTOR	106.0		106.0		20	H40	78.67				
SURFACE	1,203.3		1,203.1		13 3/8	J55	54.50		BTC	781.1	
INTERMEDIATE	5,012.0		4,991.7		9 5/8	L80-IC	40.00		BTC		
INTERMEDIATE 2	7,708.0		7,684.2		7 5/8	P110-ICY	29.70		WEDGE 441	4,596.9	
Gas Emissions - Flare											
Type		Method		Dur (Min)		Amount		Units		Com	
No Data											
Job Supply Amounts											
Supply Item Des	Type	Unit Label	Received	Consumed	Returned	Note		Cum On Loc		Cum Consumed	
DIESEL	MUD	GAL	7406			Pilot 22725		16,352		2762	
DIESEL	MUD	GAL		4676		Mud		11,676		7438	
DIESEL	FUEL	GAL		2135		Rig		6,168		13623	
WATER	FRESH	BBL				Meter reading 176307		0		14857	
Mud Additive Amounts											
Des			Type			Units	Rec	Consumed	On Loc	Cum Cons	
SOLIDS CONTROL EQUIPMENT			SOLIDS CONTROL EQUIPMENT			EA	1	1	0.0	7	
MUD RENTAL EQUIPMENT			MUD RENTAL EQUIPMENT			EA	1	1	0.0	7	
BLOWER FOR BULK BINS			MISCELLANEOUS			PER RIG	1	1	0.0	6	
BCI OBM PRIMARY			EMULSIFIER			GAL		2	10.0	3	
BCI OBM RHEO MODIFIER			LOW END MODIFIER			GAL		2	7.0	3	
BARITE - BULK			WEIGHTING MATERIAL			TON	21.7	8.7	38.0	18	
BENTONE 910			ORGANOPHILLIC CLAY			LB		10	80.0	13	
BENTONE 990			ORGANOPHILLIC CLAY			LB		10	80.0	13	
GILSOCOL GP			SPECIALTY			LB		12	126.0	24	
VERSA TROL M			FILTRATE CONTROL			LB		25	125.0	25	
CALCIUM CHLORIDE			CALCIUM CHLORIDE			LB		66	214.0	92	
LIME			ALKALINITY CONTROL			LB		73	316.0	194	
DIESEL - FOR MUD						GAL	7406	4676	12,726.0	7,312	
Pump Operations											
Pump #	Make		Model		Liner Size (in)		Stroke (in)		Vol/Stk (bbl/stk)		P Max (psi)
1	GARDNER-DENVER		PZ-11-1600		5 1/4		11.00		0.074		6,900.0
2	GARDNER-DENVER		PZ-11-1600		5 1/4		11.00		0.074		6,900.0
3	GARDNER-DENVER		PZ-11-1600		5 1/4		11.00		0.074		6,900.0
Pump Checks											
Pump #	Depth (ftKB)		Time		P (psi)		Strokes (spm)		Q Flow (gpm)		Eff (%)
1	14,510.0		5/9/2024 03:36		935.0		30		88		95
1	14,510.0		5/9/2024 03:36		1,250.0		40		118		95
1	14,510.0		5/9/2024 03:36		1,500.0		50		147		95
2	14,510.0		5/9/2024 03:37		905.0		30		88		95
2	14,510.0		5/9/2024 03:37		1,250.0		40		118		95
2	14,510.0		5/9/2024 03:37		1,505.0		50		147		95
Deviation Surveys											
Date			Description			Job					
3/20/2024 06:00			AS DRILL SURVEY			ODR, 3/19/2024 19:30					
Survey Data - All surveys for 24 hr reporting period											

MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
9,843.00	89.72	177.80	8,265.94	2,120.61	-2,120.06	272.25	4.98
9,937.00	89.79	177.43	8,266.34	2,214.54	-2,213.98	276.16	0.40
10,032.00	89.87	178.92	8,266.62	2,309.49	-2,308.92	279.18	1.57
10,127.00	89.73	178.66	8,266.96	2,404.47	-2,403.90	281.19	0.31
10,316.00	89.64	180.09	8,268.00	2,593.46	-2,592.88	283.25	0.76
10,506.00	90.17	185.99	8,268.31	2,783.08	-2,782.53	273.18	3.12
10,600.00	89.82	181.72	8,268.32	2,876.84	-2,876.30	266.86	4.56
10,694.00	90.17	175.78	8,268.33	2,970.78	-2,970.23	268.91	6.33
10,883.00	89.99	182.81	8,268.06	3,159.65	-3,159.10	271.23	3.72
10,978.00	90.14	184.47	8,267.96	3,254.44	-3,253.90	265.20	1.75
11,072.00	90.06	181.03	8,267.79	3,348.31	-3,347.78	260.69	3.66
11,167.00	89.91	181.74	8,267.82	3,443.27	-3,442.75	258.40	0.76
11,262.00	90.29	182.46	8,267.65	3,538.20	-3,537.69	254.92	0.86
11,357.00	90.14	181.07	8,267.29	3,633.15	-3,632.64	251.99	1.47
11,451.00	89.42	179.08	8,267.65	3,727.14	-3,726.63	251.87	2.25
11,640.00	89.93	179.70	8,268.73	3,916.13	-3,915.62	253.88	0.42
11,735.00	89.96	181.38	8,268.82	4,011.12	-4,010.61	252.98	1.77
11,830.00	90.05	182.15	8,268.81	4,106.07	-4,105.57	250.06	0.82
12,019.00	90.06	182.80	8,268.63	4,294.87	-4,294.39	241.90	0.34
12,114.00	90.33	183.41	8,268.30	4,389.72	-4,389.25	236.75	0.70
12,302.00	90.34	183.22	8,267.21	4,577.38	-4,576.93	225.88	0.10
12,397.00	89.73	180.54	8,267.15	4,672.31	-4,671.87	222.76	2.89
12,587.00	90.03	180.63	8,267.55	4,862.30	-4,861.86	220.82	0.16
12,681.00	90.18	181.85	8,267.37	4,956.27	-4,955.83	218.79	1.31
12,869.00	89.95	180.21	8,267.16	5,144.23	-5,143.80	215.41	0.88
13,057.00	90.11	182.28	8,267.06	5,332.16	-5,331.74	211.32	1.10
13,246.00	89.97	181.12	8,266.93	5,521.07	-5,520.66	205.72	0.62
13,340.00	89.74	180.53	8,267.17	5,615.05	-5,614.65	204.36	0.67
13,435.00	89.57	179.39	8,267.74	5,710.05	-5,709.64	204.43	1.21
13,529.00	89.92	181.79	8,268.16	5,804.03	-5,803.63	203.46	2.58
13,624.00	90.19	182.75	8,268.07	5,898.95	-5,898.55	199.70	1.05
13,718.00	89.94	180.42	8,267.96	5,992.90	-5,992.51	197.10	2.49
13,813.00	89.80	181.29	8,268.18	6,087.89	-6,087.50	195.68	0.93
14,002.00	89.89	181.29	8,268.69	6,276.83	-6,276.45	191.43	0.05
14,096.00	89.54	179.43	8,269.15	6,370.82	-6,370.44	190.84	2.01
14,191.00	89.93	180.10	8,269.59	6,465.82	-6,465.44	191.23	0.82
14,285.00	89.69	179.86	8,269.91	6,559.82	-6,559.44	191.26	0.36
14,379.00	89.91	182.04	8,270.23	6,653.79	-6,653.42	189.70	2.33
14,569.00	89.90	179.81	8,270.55	6,843.75	-6,843.38	186.63	1.17
14,663.00	89.83	179.40	8,270.77	6,937.75	-6,937.38	187.28	0.44
14,851.00	89.90	180.04	8,271.21	7,125.75	-7,125.38	188.20	0.34
14,946.00	89.65	179.22	8,271.59	7,220.74	-7,220.37	188.81	0.90
Formations							
Formation Name	Prog Top Override (TVD SS) (ft(elv))		Prog Top MD (ftKB)	Prog Top (TVD) (ftKB)	Final Top MD (ftKB)		Final Top (TVD) (ftKB)
ILP	-5,575.0			8,277.0			
Daily Contacts							
Job Contact			Title	Office	Mobile	Email	
RICHARDSON, KEN, AREA DRILLING SUPERINTENDENT			AREA DRILLING SUPERINTENDENT	432-571-2557	432-557-8128	KEN.RICHARDSON@PXD.COM	
COX, BRYAN, ENGINEER			ENGINEER	972-969-5717	361-318-4212	BRYAN.COX@PXD.COM	
GARZA, JOHN, ENGINEER			ENGINEER		469-286-7746	JOHN.GARZA@PXD.COM	
BROWN, KEITH, SUPERINTENDENT			SUPERINTENDENT	972-313-9798	469-516-3137	KEITH.BROWN@PXD.COM	
DOYLE, ANTHONY, SUPERINTENDENT			SUPERINTENDENT		318-452-0523	ANTHONY.DOYLE@PXD.COM	
YOUNG, JC, WELLSITE SUPERVISOR			WELLSITE SUPERVISOR		662-633-1897	JC.YOUNG@PXD.COM	
GALLAGHER, JEFFERY, WELLSITE SUPERVISOR			WELLSITE SUPERVISOR		318-282-4788	JEFFERY.GALLAGHER@PXD.COM	
CLIFTON, JOHN, MUD ENGINEER			MUD ENGINEER		405-243-6436	JOHN.CLIFTON@PXD.COM	
RIG-H&P 604, RIG PHONE			RIG PHONE	432-200-0290	432-888-5155	DL-HP604@PXD.COM	
Personnel Log							
Company							Count
PIONEER NATURAL RESOURCES USA INC							3
HELMERICH & PAYNE INTERNATIONAL DRILLING CO							13
SCHLUMBERGER TECHNOLOGY CORPORATION							1

H & P 604

Accept: 5/2/2024

Release:

Days Since LTI: 894.00

Days Since RI: 197.00

Daily Drilling Report

PERMIAN - JV SOUTHERN WOLFCAMP

Job: ODR

Report Date: 05/10/2024

Report #: 11

DFS: 9

AFE #: 9034369

Total AFE + Sup: \$3,384,818.20

Daily Field Est. (Cost): \$251,777.33

API/UWI 42-461-42560-0000		Well Profile HORIZONTAL		Open Formation WOLFCAMP A2 (WFMP A2)			Field Name SPRABERRY (TREND AREA)				
SSN ID00020209		Property Sub	KB-Grd (ft) 26.00		Orig KB Elevation (ft) 2,702.00		Ground Elevation (ft) 2,676.00		Spud Date 3/19/2024	TD Date	
Jobs											
Responsible Grp 2			Responsible Grp 3		Job Type	Start Date		End Date	Job Status		
DRL ENG - JOHN GARZA			AREA TEAM 4		ODR	3/19/2024 19:30			IN PROGRESS		
Job Dates (ex. Estimated Pad Release, TXRRC Calls)											
Type	Subtype		Date	Note							
MILESTONE	ESTIMATED PAD RELEASE		7/20/2024	Updated 5/9/24, drilling 2nd well, production interval on 6 well pad, sequential drilling							
Daily Operations											
Footage/Meterage (ft) 5,637.00		Drilling Hours 23.53	% Rotating Time 100.00		End Depth (ftKB) 20,937.0	Target Depth (ftKB) 21,529.0		Daily Field Est Total \$251,777.33		Cum Field Est To Date \$1,962,007.25	
24 HR ROP (ft/hr) 239.6	Circulating Hours	% Sliding Time 0.00	End Depth (TVD) (ftKB) 8,082.5		Target Depth Depth (TVD) (ftKB) 8,229.2		Daily Mud Field Est Total \$8,579.99		Cum Mud Field Est \$47,744.45	Total AFE + Sup \$3,384,818.20	
Daily Goal Description DRILLED FEET			Daily Goal - Last 24 3,500.0			Daily Goal - Next 24 400.0			Goal Comments Goal met		
Backbuild Yes	Lateral Inclination	Last Casing String INTERMEDIATE 2, 7,708.0ftKB				Next Casing String PRODUCTION, 21,468.0ftKB					
Avg Connection Gas 2,336.00		Avg Trip Gas 0.00	Avg Background Gas 1,924.00		Max Connection Gas 2,617.00		Max Trip Gas 0.00		Max Drill Gas 2,558.00		
Operations Summary Drill lateral from 15,300' to 20,937' MD: 20,619', INC:97.23 °, AZM: 181.60°, Above 11.59', Right 0.71 '											
Operations Next Report Period Finish drilling lateral to TD while performing cleanup cycle the last 300', TOO, L/D BHA,											
Operations At Report Time Drilling lateral @ 20,937'.											
Remarks NPT: Cum: 6.0 hrs; Dly: 0.0 hrs Surf: 100% Int.: 100% Int 2.: 100% Prod. Curve: 100% Prod. Lateral: 96% No Incident No Spills Reported Reserve Pit Level 5.5 below mark @ 18:00 5/9/24 Reserve Pit Level 5.5' below mark @ 05:30 5/10/24											
Time Log											
Start Time	Dur (hr)	End Time	Phase	Operation	Ops Category	Com		Start Depth (ftKB)	End Depth (ftKB)	Prob Hrs	Prob Ref #
06:00	12	18:00	PROD, DRL LAT	DRL	NORMAL	Drill 6 3/4" lateral F/15,300' T/ 18,389', (3,089' @ 257.4FPH) WOB 35, GPM 350, RPM 80-130, Diff 1075, PP 6000		15,300.0	18,389.0		
18:00	12	06:00	PROD, DRL LAT	DRL	NORMAL	Drill 6 3/4" lateral F/18,389' T/ 20,937', (2,548' @ 212.3FPH) WOB 35, GPM 350, RPM 80-130, Diff 1075, PP 6000		18,389.0	20,937.0		
Drill Strings											
BHA #4 , PRODUCTION - CURVE/LATERAL											
Bit Run 4			Drill Bit 6 3/4, SDi613, 6681				Bit Type PDC		Make SMITH		
Nozzles (1/32") 9/9/9/9/9/9			Bit Total Fluid Area (nozzles) (in²) 0.37		IADC Bit Dull -----		Hours Drilled By Bit (hr) 64.74		Depth Drilled By Bit (ft) 13,229.00		
BHA Drilling Time (hr) 64.74			BHA Depth Drilled (ft) 13,229.00		BHA ROP (ft/hr) 204.3		Depth In (ftKB) 7,708.0		Depth Out (ftKB) 20,937.0		
Drill String Components											
Jts	Item Des			OD (in)	ID (in)	Len (ft)	Cum Len (ft)	Wt (lbf)	Cum Wt (1000lbf)	Make	
79	DRILL PIPE			5	4.28	3,395.95	20,937.00	66,221.0	357	RIG	
1	SUB - XO			6 5/8	3.00	4.53	17,541.05		291	QUAIL	
479	DRILL PIPE			4 1/2	3.83	17,309.76	17,536.52	287,342.0	291	QUAIL	
3	HWDP			4 1/2	3.25	92.75	226.76	3,431.7	3	RIG	
1	SUB - XO			4.298	3.83	3.60	134.01		0	DRILLING TOOLS INTERNATIONAL	
1	SUB - FLOAT			4.298	3.83	4.19	130.41		0	DRILLING TOOLS INTERNATIONAL	
1	MOTOR - SLICK SLEEVE			5 1/4	2.25	32.37	126.22		0	MPACT	

1	ANTI-STALL TOOL	5	3.75	21.82	93.85		0	TOMAX													
1	SUB - XO	5 1/4	2.25	3.58	72.03		0	DRILLING TOOLS INTERNATIONAL													
1	SUB - FILTER	5 1/16	2.25	4.51	68.45		0	DRILLING TOOLS INTERNATIONAL													
1	SUB (OTHER)	4 3/4	2.69	5.08	63.94		0	SCHLUMBERGER													
1	STABILIZER	4 15/16	2.69	4.56	58.86		0	DRILLING TOOLS INTERNATIONAL													
1	MWD TOOL - NON-RETRIEVABLE	4 15/16	2.69	29.48	54.30		0	DRILLING TOOLS INTERNATIONAL													
1	DRILL COLLAR - NON MAG, FLEX	5 1/16	2.69	9.45	24.82		0	DRILLING TOOLS INTERNATIONAL													
1	RSS TOOL	5	3.64	14.92	15.37		0	SCHLUMBERGER													
Mud Motors																					
SN		Bend Angle		Bearing Type		Lobe Config		# Stages	Lwr Defln Type		Bit To Bend										
500-154LE		0		NOT SEALED		7:8		7			0										
Sensors																					
Sensor Type			Sensor-Bit (ft)				Note														
NEAR BIT INCLINOMETER			8.34																		
GAMMA			30.33																		
Drilling Parameters																					
Start Time	End Time	Start Depth (ftKB)	Int Depth (ft)	Int ROP (ft/hr)	WOB (1000lbf)	RPM	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	ROP Average (ft/hr)	Drill Str Wt (1000lbf)	PU Str Wt (1000lbf)	SO Str Wt (1000lbf)	Off-Btm Str Wt (1000lbf)	Drill Tq	Off Btm Tq	TFO (°)				
06:00	18:23	15,300.0	3,203.00	258.7	33	128	850.0	351	5,753.0	307.0	120	120	120	120	19.0	19.0					
18:41	04:36	18,503.0	2,166.00	218.3	32	126	688.0	350	5,808.0	281.0	125	125	125	125	21.0	21.0					
04:48	05:35	20,669.0	173.00	221.8	34	106	762.0	351	5,943.0	236.0	123	123	123	123	23.0	23.0					
05:35	06:00	20,842.0	95.00	211.1	34	106	762.0	351	5,943.0	236.0	123	123	123	123	23.0	23.0					
Hydraulic Calculations																					
Dens Mud (lb/gal)		ECD End (lb/gal)		Bit Hydraulic Power (hp)		HP/Area (hp/in²)		Jet Vel (ft/s)		Bit dP (psi)		Min Open Hole AV (ft/min)		Max Open Hole AV (ft/min)		Vol DrillString (bbl)		Vol Bit to Shoe (bbl)		Vol Shoe to Top (bbl)	
10.10		11.34		171.0		4.8		302.1		835.0		9.8		477.9		309.22		324.65		330.43	
Mud Checks																					
Time			Mud Company				Type		Depth (ftKB)		Density (lb/gal)		Funnel Viscosity (s/qt)			T Flowline (° F)					
5/9/2024 20:00			PIONEER DRILLING FLUIDS				OIL BASE		18,786.0		10.10		64			114.0					
pV (cP)		YP (lbf/100ft²)		Vis 3rpm		Vis 6rpm		Filtrate (mL/30min)		HTHP Filtrate (mL/30min)			HTHP Temperature (° F)			HTHP Pressure (psi)					
23.0		9.000		5		6				13.4			250.0			500.0					
Solids (%)			Low Gravity Solids (%)					Sand (%)		MBT (lb/bbl)			Pm (mL/mL)			Pf (mL/mL)					
15.0			9.3					0.0													
Chlorides (mg/L)			Calcium (mg/L)			CaCl (ppm)				Oil Water Ratio		Electric Stab (V)			Lime (lb/bbl)		pH				
25,000			11,200.000			0.148445456179237				80/20		578.0			3.1						
Gel 10 sec (lbf/100ft²)					Gel 10 min (lbf/100ft²)					Gel 30 min (lbf/100ft²)											
6.000					10.000					11.000											
Comment																					
Mud Checks																					
Time			Mud Company				Type		Depth (ftKB)		Density (lb/gal)		Funnel Viscosity (s/qt)			T Flowline (° F)					
5/9/2024 07:00			PIONEER DRILLING FLUIDS				OIL BASE		15,736.0		10.00		69			112.0					
pV (cP)		YP (lbf/100ft²)		Vis 3rpm		Vis 6rpm		Filtrate (mL/30min)		HTHP Filtrate (mL/30min)			HTHP Temperature (° F)			HTHP Pressure (psi)					
24.0		13.000		6		7				13.4			250.0			500.0					
Solids (%)			Low Gravity Solids (%)					Sand (%)		MBT (lb/bbl)			Pm (mL/mL)			Pf (mL/mL)					
14.5			9.1					0.0													
Chlorides (mg/L)			Calcium (mg/L)			CaCl (ppm)				Oil Water Ratio		Electric Stab (V)			Lime (lb/bbl)		pH				
24,000			10,800.000			0.140855205257672				79.5/20.5		601.0			3.0						
Gel 10 sec (lbf/100ft²)					Gel 10 min (lbf/100ft²)					Gel 30 min (lbf/100ft²)											
7.000					12.000					13.000											
Comment																					
Maintain MW 9.8 - 10.2 ppg. Add Diesel @ 3 sec./qt. (7.1 bbls./hr.). Added Water @ 10 sec./qt. (2.1 bbls. / hr.) Add Calcium Chloride @ 4 ppb. Add Gilsonite @ 1 ppb. Add Lime @ 3-4 ppb. Additions of OBM Primary and OBM Secondary for ES @ 500-800. Rheology Modifier for low end rheology.																					
Last BOP Test																					
Date			Test Type			Item Tested						Next Test Date			Com						
5/6/2024 22:45			BOP			BOP'S, 5/2/2024 09:30						5/27/2024 22:45									
Leak Off and Formation Integrity Tests																					
Test Type						Depth (ftKB)				Dens Fluid (lb/gal)											
FORMATION INTEGRITY						1,203.0				12.50											
FORMATION INTEGRITY						7,708.0				11.51											
Casing Pressure Test																					
Test Type		Test Subtype		Date			Item Tested					Failed?		Time (min)		P (psi)					
CASING		STANDARD		3/23/2024 11:00			SURFACE, 1,203.3ftKB					No		30.00		1,000.0					
CASING		STANDARD		5/5/2024 09:00			INTERMEDIATE, 5,012.0ftKB					No		30.00		2,500.0					
CASING		STANDARD		5/7/2024 08:00			INTERMEDIATE 2, 7,708.0ftKB					No		30.00		2,500.0					
Kick Offs & Key Depths																					
Date				Type			Top Depth (ftKB)				Depth Top (TVD) (ftKB)										
5/5/2024 18:45				KICK OFF			7,485.0				7,464.0										
5/8/2024 00:00				HEEL			8,665.0				8,254.3										
Casing Strings																					
Description			Set Depth (ftKB)			Set Depth (TVD) (ftKB)			OD (in)		Grade		Wt/Len (lb/ft)		Top Thread		P LeakOff (psi)				
CONDUCTOR			106.0			106.0			20		H40		78.67								

SURFACE	1,203.3	1,203.1	13 3/8	J55	54.50	BTC	781.1
INTERMEDIATE	5,012.0	4,991.7	9 5/8	L80-IC	40.00	BTC	
INTERMEDIATE 2	7,708.0	7,684.2	7 5/8	P110-ICY	29.70	WEDGE 441	4,596.9

Gas Emissions - Flare						
Type	Method	Dur (Min)	Amount	Units	Com	
No Data						

Job Supply Amounts								
Supply Item Des	Type	Unit Label	Received	Consumed	Returned	Note	Cum On Loc	Cum Consumed
DIESEL	MUD	GAL	7404			Pilot 22728	19,080	7438
DIESEL	FUEL	GAL	7229			Flint 94381	13,397	13623
DIESEL	MUD	GAL		7404		Mud	11,676	14842
DIESEL	FUEL	GAL		2829		Rig	10,568	16452

Mud Additive Amounts							
Des	Type		Units	Rec	Consumed	On Loc	Cum Cons
SOLIDS CONTROL EQUIPMENT	SOLIDS CONTROL EQUIPMENT		EA	1	1	0.0	8
MUD RENTAL EQUIPMENT	MUD RENTAL EQUIPMENT		EA	1	1	0.0	8
BLOWER FOR BULK BINS	MISCELLANEOUS		PER RIG	1	1	0.0	7
BCI OBM WETTING AGENT	WETTING AGENT		GAL		1	9.0	1
BCI OBM PRIMARY	EMULSIFIER		GAL		2	8.0	5
BCI OBM RHEO MODIFIER	LOW END MODIFIER		GAL		2	5.0	5
BENTONE 910	ORGANOPHILIC CLAY		LB		5	75.0	18
BENTONE 990	ORGANOPHILIC CLAY		LB		5	75.0	18
GILSOCOL GP	SPECIALTY		LB		13	113.0	37
VERSA TROL M	FILTRATE CONTROL		LB		24	101.0	49
CALCIUM CHLORIDE	CALCIUM CHLORIDE		LB		74	140.0	166
LIME	ALKALINITY CONTROL		LB		76	240.0	270
DIESEL - FOR MUD			GAL	7404	7404	12,726.0	14,716

Pump Operations						
Pump #	Make	Model	Liner Size (in)	Stroke (in)	Vol/Stk (bbl/stk)	P Max (psi)
1	GARDNER-DENVER	PZ-11-1600	5 1/4	11.00	0.074	6,900.0
2	GARDNER-DENVER	PZ-11-1600	5 1/4	11.00	0.074	6,900.0
3	GARDNER-DENVER	PZ-11-1600	5 1/4	11.00	0.074	6,900.0

Pump Checks						
Pump #	Depth (ftKB)	Time	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)
No Data						

Deviation Surveys		
Date	Description	Job
3/20/2024 06:00	AS DRILL SURVEY	ODR, 3/19/2024 19:30

Survey Data - All surveys for 24 hr reporting period							
MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
15,324.00	90.11	181.82	8,271.45	7,598.54	-7,598.19	179.07	1.02
15,418.00	90.13	183.84	8,271.26	7,692.41	-7,692.07	174.43	2.15
15,512.00	89.86	182.80	8,271.26	7,786.24	-7,785.91	168.99	1.14
15,607.00	89.88	181.50	8,271.48	7,881.17	-7,880.85	165.42	1.37
15,701.00	89.91	180.96	8,271.65	7,975.14	-7,974.82	163.40	0.58
15,891.00	89.56	180.97	8,272.53	8,165.10	-8,164.79	160.20	0.18
15,985.00	89.57	180.80	8,273.24	8,259.09	-8,258.78	158.75	0.18
16,080.00	89.81	182.87	8,273.76	8,354.02	-8,353.72	155.71	2.19
16,269.00	89.61	180.89	8,274.72	8,542.90	-8,542.61	149.51	1.05
16,364.00	89.98	182.37	8,275.06	8,637.85	-8,637.57	146.81	1.61
16,458.00	89.79	181.27	8,275.24	8,731.80	-8,731.52	143.82	1.19
16,553.00	89.63	180.73	8,275.72	8,826.78	-8,826.50	142.16	0.59
16,648.00	89.78	181.42	8,276.21	8,921.75	-8,921.49	140.38	0.74
16,742.00	89.93	180.91	8,276.45	9,015.73	-9,015.47	138.47	0.57
16,935.00	89.54	180.88	8,277.34	9,208.70	-9,208.44	135.46	0.20
17,026.00	89.94	181.43	8,277.76	9,299.67	-9,299.42	133.62	0.75
17,215.00	90.21	183.90	8,277.51	9,488.43	-9,488.20	124.83	1.31
17,310.00	90.26	181.59	8,277.12	9,583.31	-9,583.08	120.29	2.43
17,405.00	90.61	181.82	8,276.40	9,678.26	-9,678.04	117.46	0.44
17,500.00	90.57	179.95	8,275.42	9,773.23	-9,773.02	115.99	1.97
17,693.00	89.96	181.11	8,274.53	9,966.22	-9,966.00	114.21	0.68
17,788.00	90.75	184.25	8,273.94	10,061.09	-10,060.89	109.77	3.41
17,976.00	90.60	183.30	8,271.72	10,248.64	-10,248.46	97.39	0.51
18,070.00	91.03	180.11	8,270.39	10,342.57	-10,342.40	94.59	3.42
18,259.00	91.40	181.17	8,266.38	10,531.51	-10,531.34	92.48	0.59
18,353.00	91.52	181.35	8,263.98	10,625.45	-10,625.29	90.42	0.23
18,448.00	91.35	181.64	8,261.61	10,720.38	-10,720.23	87.94	0.35
18,542.00	91.53	182.16	8,259.24	10,814.29	-10,814.14	84.82	0.59
18,636.00	91.98	184.98	8,256.36	10,908.05	-10,907.91	78.97	3.04

18,731.00	92.23	183.74	8,252.87	11,002.69	-11,002.57	71.76	1.33
18,825.00	92.42	180.98	8,249.06	11,096.52	-11,096.40	67.89	2.94
18,919.00	92.23	179.80	8,245.25	11,190.43	-11,190.32	67.25	1.27
19,014.00	92.39	180.14	8,241.42	11,285.36	-11,285.24	67.30	0.40
19,108.00	92.39	179.99	8,237.50	11,379.27	-11,379.16	67.19	0.16
19,202.00	92.62	182.19	8,233.39	11,473.16	-11,473.05	65.41	2.35
19,297.00	92.76	183.81	8,228.93	11,567.91	-11,567.81	60.44	1.71
19,391.00	92.91	183.20	8,224.28	11,661.61	-11,661.52	54.70	0.67
19,580.00	93.23	177.80	8,214.15	11,850.25	-11,850.17	53.05	2.86
19,675.00	93.32	179.32	8,208.72	11,945.07	-11,944.98	55.44	1.60
19,769.00	93.41	180.63	8,203.21	12,038.91	-12,038.82	55.48	1.39
19,863.00	93.90	182.58	8,197.21	12,132.67	-12,132.58	52.85	2.13
20,052.00	94.63	174.62	8,183.13	12,320.94	-12,320.85	57.44	4.22
20,146.00	95.12	181.61	8,175.14	12,414.50	-12,414.40	60.53	7.43
20,335.00	96.32	181.49	8,156.30	12,602.47	-12,602.39	55.44	0.64
20,430.00	96.74	182.20	8,145.50	12,696.80	-12,696.72	52.40	0.86
20,619.00	97.23	181.60	8,122.51	12,884.28	-12,884.21	46.18	0.41
Formations							
Formation Name	Prog Top Override (TVD SS) (ft(elv))		Prog Top MD (ftKB)	Prog Top (TVD) (ftKB)	Final Top MD (ftKB)	Final Top (TVD) (ftKB)	
270_0_WFMP_A1	-5,426.0			8,128.0	8,210.1	8,101.8	
271_0_WFMP_A2	-5,524.0			8,226.0	8,409.3	8,204.7	
TOT	-5,561.0			8,263.0	8,549.7	8,240.2	
ILP	-5,575.0			8,277.0			
PBHL/TD	-5,528.0			8,230.0			
Daily Contacts							
Job Contact			Title	Office	Mobile	Email	
RICHARDSON, KEN, AREA DRILLING SUPERINTENDENT			AREA DRILLING SUPERINTENDENT	432-571-2557	432-557-8128	KEN.RICHARDSON@PXD.COM	
COX, BRYAN, ENGINEER			ENGINEER	972-969-5717	361-318-4212	BRYAN.COX@PXD.COM	
GARZA, JOHN, ENGINEER			ENGINEER		469-286-7746	JOHN.GARZA@PXD.COM	
BROWN, KEITH, SUPERINTENDENT			SUPERINTENDENT	972-313-9798	469-516-3137	KEITH.BROWN@PXD.COM	
DOYLE, ANTHONY, SUPERINTENDENT			SUPERINTENDENT		318-452-0523	ANTHONY.DOYLE@PXD.COM	
YOUNG, JC, WELLSITE SUPERVISOR			WELLSITE SUPERVISOR		662-633-1897	JC.YOUNG@PXD.COM	
GALLAGHER, JEFFERY, WELLSITE SUPERVISOR			WELLSITE SUPERVISOR		318-282-4788	JEFFERY.GALLAGHER@PXD.COM	
CLIFTON, JOHN, MUD ENGINEER			MUD ENGINEER		405-243-6436	JOHN.CLIFTON@PXD.COM	
RIG-H&P 604, RIG PHONE			RIG PHONE	432-200-0290	432-888-5155	DL-HP604@PXD.COM	
Personnel Log							
Company							Count
PIONEER NATURAL RESOURCES USA INC							3
HELMERICH & PAYNE INTERNATIONAL DRILLING CO							13
SCHLUMBERGER TECHNOLOGY CORPORATION							1

H & P 604	
Accept:	5/2/2024
Release:	
Days Since LTI:	895.00
Days Since RI:	198.00

Daily Drilling Report

PERMIAN - JV SOUTHERN WOLFCAMP	
Job:	ODR
Report Date:	05/11/2024
Report #:	12
DFS:	10
AFE #:	9034369
Total AFE + Sup:	\$3,384,818.20
Daily Field Est. (Cost):	\$92,101.01

API/UWI 42-461-42560-0000		Well Profile HORIZONTAL		Open Formation WOLFCAMP A2 (WFMP A2)		Field Name SPRABERRY (TREND AREA)				
SSN ID00020209	Property Sub	KB-Grd (ft) 26.00	Orig KB Elevation (ft) 2,702.00		Ground Elevation (ft) 2,676.00		Spud Date 3/19/2024	TD Date 5/10/2024		
Jobs										
Responsible Grp 2		Responsible Grp 3		Job Type	Start Date		End Date	Job Status		
DRL ENG - JOHN GARZA		AREA TEAM 4		ODR	3/19/2024 19:30			IN PROGRESS		
Job Dates (ex. Estimated Pad Release, TXRRC Calls)										
Type	Subtype		Date	Note						
MILESTONE	ESTIMATED PAD RELEASE		7/20/2024	Updated 5/9/24, drilling 2nd well, production interval on 6 well pad, sequential drilling						
TXRRC CALL	CEMENT PROD		5/10/2024 22:15	Nicey Op# 130 / Job #38870						
Daily Operations										
Footage/Meterage (ft) 554.00		Drilling Hours 13.19	% Rotating Time 100.00	End Depth (ftKB) 21,491.0	Target Depth (ftKB) 21,529.0	Daily Field Est Total \$92,101.01		Cum Field Est To Date \$2,054,108.26		
24 HR ROP (ft/hr) 42.0	Circulating Hours 0.42	% Sliding Time 0.00	End Depth (TVD) (ftKB) 7,997.4	Target Depth Depth (TVD) (ftKB) 8,229.2	Daily Mud Field Est Total \$7,098.61		Cum Mud Field Est \$54,843.06	Total AFE + Sup \$3,384,818.20		
Daily Goal Description DRILLED FEET			Daily Goal - Last 24 400.0		Daily Goal - Next 24 0.0		Goal Comments Goal met.			
Backbuild Yes	Lateral Inclination Toe Up	Last Casing String INTERMEDIATE 2, 7,708.0ftKB				Next Casing String PRODUCTION, 21,481.0ftKB				
Avg Connection Gas 1,556.00		Avg Trip Gas 0.00	Avg Background Gas 655.00		Max Connection Gas 2,470.00		Max Trip Gas 0.00	Max Drill Gas 2,275.00		
Operations Summary										
Drill lateral 20,937' to 21,194' Perform K&M from 21,194' to 21,491'. CBU x2. TOO H T/7,701' MD: 21,491', INC:98.76 °, AZM: 183.11°, Above 3.99', Right 2.59'										
Operations Next Report Period										
Finish TOO H. L/D BHA. Pull WB. R/U and RIH with 5.5" production casing.										
Operations At Report Time										
TOOH @ 7,701'										
Remarks										
NPT: Cum: 6.0 hrs; Dly: 0.0 hrs Surf: 100% Int.: 100% Int 2.: 100% Prod. Curve: 100% Prod. Lateral: 100% No Incident No Spills Reported Reserve Pit Level 5.5 below mark @ 18:00 5/10/24 Reserve Pit Level 5.5' below mark @ 05:30 5/11/24										
Time Log										
Start Time	Dur (hr)	End Time	Phase	Operation	Ops Category	Com	Start Depth (ftKB)	End Depth (ftKB)	Prob Hrs	Prob Ref #
06:00	1.25	07:15	PROD, DRL LAT	DRL	NORMAL	Drill 6 3/4" lateral F/20,937' T/ 21,194', (257' @ 205.6 FPH) WOB 39, GPM 350, RPM 80-130, Diff 1075, PP 6000	20,937.0	21,194.0		
07:15	13.5	20:45	PROD, POST DRL	DRL_K&M	NORMAL	K&M drill lateral from 21,194' to 21,373' @ 30 FPH, drill from 21,373' to 21,491' @ 20 FPH.	21,194.0	21,491.0		
20:45	2.25	23:00	PROD, POST DRL	K&M_CLEANUP	NORMAL	Circulat 1.5 bottoms up	21,491.0	21,491.0		
23:00	0.5	23:30	PROD, POST DRL	TOOH_ELEV	NORMAL	TOOH from 21,491 to 20,739', no excess drag, hole taking proper fill	21,491.0	21,491.0		
23:30	0.25	23:45	PROD, POST DRL	FLOW_CHK	NORMAL	Check flow-well static, pump slug	21,491.0	21,491.0		
23:45	6.25	06:00	PROD, POST DRL	TOOH_ELEV	NORMAL	TOOH from 20,739' to 7,701', Monitor proper fill on trip tank	21,491.0	21,491.0		
Drill Strings										
BHA #4 , PRODUCTION - CURVE/LATERAL										
Bit Run 4		Drill Bit 6 3/4, SDi613, 6681				Bit Type PDC		Make SMITH		
Nozzles (1/32") 9/9/9/9/9/9		Bit Total Fluid Area (nozzles) (in²) 0.37		IADC Bit Dull -----		Hours Drilled By Bit (hr) 77.93		Depth Drilled By Bit (ft) 13,783.00		
BHA Drilling Time (hr)		BHA Depth Drilled (ft)		BHA ROP (ft/hr)		Depth In (ftKB)		Depth Out (ftKB)		

77.93		13,783.00		176.9		7,708.0		21,491.0													
Drill String Components																					
Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)	Wt (lbf)	Cum Wt (1000lbf)	Make													
126	DRILL PIPE	5	4.28	3,949.95	21,491.00	77,024.0	368	RIG													
1	SUB - XO	6 5/8	3.00	4.53	17,541.05		291	QUAIL													
479	DRILL PIPE	4 1/2	3.83	17,309.76	17,536.52	287,342.0	291	QUAIL													
3	HWDP	4 1/2	3.25	92.75	226.76	3,431.7	3	RIG													
1	SUB - XO	4.298	3.83	3.60	134.01		0	DRILLING TOOLS INTERNATIONAL													
1	SUB - FLOAT	4.298	3.83	4.19	130.41		0	DRILLING TOOLS INTERNATIONAL													
1	MOTOR - SLICK SLEEVE	5 1/4	2.25	32.37	126.22		0	MPACT													
1	ANTI-STALL TOOL	5	3.75	21.82	93.85		0	TOMAX													
1	SUB - XO	5 1/4	2.25	3.58	72.03		0	DRILLING TOOLS INTERNATIONAL													
1	SUB - FILTER	5 1/16	2.25	4.51	68.45		0	DRILLING TOOLS INTERNATIONAL													
1	SUB (OTHER)	4 3/4	2.69	5.08	63.94		0	SCHLUMBERGER													
1	STABILIZER	4 15/16	2.69	4.56	58.86		0	DRILLING TOOLS INTERNATIONAL													
1	MWD TOOL - NON-RETRIEVABLE	4 15/16	2.69	29.48	54.30		0	DRILLING TOOLS INTERNATIONAL													
1	DRILL COLLAR - NON MAG, FLEX	5 1/16	2.69	9.45	24.82		0	DRILLING TOOLS INTERNATIONAL													
1	RSS TOOL	5	3.64	14.92	15.37		0	SCHLUMBERGER													
Mud Motors																					
SN		Bend Angle		Bearing Type		Lobe Config		# Stages		Lwr Defln Type		Bit To Bend									
500-154LE		0		NOT SEALED		7:8		7				0									
Sensors																					
Sensor Type				Sensor-Bit (ft)				Note													
NEAR BIT INCLINOMETER				8.34																	
GAMMA				30.33																	
Drilling Parameters																					
Start Time	End Time	Start Depth (ftKB)	Int Depth (ft)	Int ROP (ft/hr)	WOB (1000lbf)	RPM	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	ROP Average (ft/hr)	Drill Str Wt (1000lbf)	PU Str Wt (1000lbf)	SO Str Wt (1000lbf)	Off-Btm Str Wt (1000lbf)	Drill Tq	Off Btm Tq	TFO (°)				
06:02	09:11	20,937.0	314.00	99.7	27	105	495.0	351	5,678.0	172.0	130	130	130	130	20.0	20.0					
09:22	10:28	21,251.0	32.00	29.1	14	120	88.0	351	5,268.0	29.0	143	143	143	143	16.0	16.0					
10:33	10:46	21,283.0	0.00		7	60	0.0	352	5,035.0	0.0	151	151	151	151	0.0	0.0					
10:48	11:48	21,283.0	30.00	30.0	15	120	88.0	351	5,267.0	30.0	142	142	142	142	16.0	16.0					
11:53	12:05	21,313.0	0.00		10	60	0.0	352	5,023.0	0.0	148	148	148	148	0.0	0.0					
12:08	15:56	21,313.0	93.00	24.5	9	118	0.0	351	5,114.0	27.0	147	147	147	147	14.0	14.0					
16:11	19:33	21,406.0	69.00	20.5	7	119	0.0	351	4,951.0	25.0	151	151	151	151	14.0	14.0					
19:51	20:37	21,475.0	16.00	20.8	8	120	112.0	352	5,038.0	20.0	148	148	148	148	15.0	15.0					
Hydraulic Calculations																					
Dens Mud (lb/gal)		ECD End (lb/gal)		Bit Hydraulic Power (hp)		HP/Area (hp/in²)		Jet Vel (ft/s)		Bit dP (psi)		Min Open Hole AV (ft/min)		Max Open Hole AV (ft/min)		Vol DrillString (bbl)		Vol Bit to Shoe (bbl)		Vol Shoe to Top (bbl)	
10.00		11.29		170.7		4.8		303.0		831.5		9.9		479.3		319.08		338.27		327.87	
Mud Checks																					
Time			Mud Company				Type		Depth (ftKB)		Density (lb/gal)		Funnel Viscosity (s/qt)			T Flowline (° F)					
5/10/2024 18:00			PIONEER DRILLING FLUIDS				OIL BASE		21,443.0		10.00		59			112.0					
pV (cP)		YP (lbf/100ft²)		Vis 3rpm		Vis 6rpm		Filtrate (mL/30min)		HTHP Filtrate (mL/30min)		HTHP Temperature (° F)			HTHP Pressure (psi)						
24.0		10.000		5		6				13.2		250.0			500.0						
Solids (%)			Low Gravity Solids (%)				Sand (%)		MBT (lb/bbl)			Pm (mL/mL)			Pf (mL/mL)						
14.5			9.1				0.0														
Chlorides (mg/L)			Calcium (mg/L)			CaCl (ppm)			Oil Water Ratio			Electric Stab (V)			Lime (lb/bbl)		pH				
24,000			10,800.000			0.140855205257672			79.5/20.5			567.0			2.9						
Gel 10 sec (lbf/100ft²)					Gel 10 min (lbf/100ft²)					Gel 30 min (lbf/100ft²)											
6.000					10.000					11.000											
Comment																					
Mud Checks																					
Time			Mud Company				Type		Depth (ftKB)		Density (lb/gal)		Funnel Viscosity (s/qt)			T Flowline (° F)					
5/10/2024 07:00			PIONEER DRILLING FLUIDS				OIL BASE		21,123.0		10.10		63			113.0					
pV (cP)		YP (lbf/100ft²)		Vis 3rpm		Vis 6rpm		Filtrate (mL/30min)		HTHP Filtrate (mL/30min)		HTHP Temperature (° F)			HTHP Pressure (psi)						
24.0		9.000		5		6				13.2		250.0			500.0						
Solids (%)			Low Gravity Solids (%)				Sand (%)		MBT (lb/bbl)			Pm (mL/mL)			Pf (mL/mL)						
15.0			9.3				0.0														
Chlorides (mg/L)			Calcium (mg/L)			CaCl (ppm)			Oil Water Ratio			Electric Stab (V)			Lime (lb/bbl)		pH				
25,000			11,200.000			0.148445456179237			80/20			571.0			3.0						
Gel 10 sec (lbf/100ft²)					Gel 10 min (lbf/100ft²)					Gel 30 min (lbf/100ft²)											
6.000					10.000					11.000											
Comment																					
Maintain MW 9.8 - 10.2 ppg. Add Diesel @ 3 sec./qt. (7.1 bbls./hr.). Added Water @ 10 sec./qt. (2.1 bbls. / hr.) Add Calcium Chloride @ 4 ppb. Add Gilsonite @ 1 ppb. Add Lime @ 3-4 ppb. Additions of OBM Primary and OBM Secondary for ES @ 500-800. Rheology Modifier for low end rheology.																					
Last BOP Test																					
Date			Test Type		Item Tested					Next Test Date				Com							
5/6/2024 22:45			BOP		BOP'S, 5/2/2024 09:30					5/27/2024 22:45											
Leak Off and Formation Integrity Tests																					
Test Type					Depth (ftKB)					Dens Fluid (lb/gal)											

FORMATION INTEGRITY				1,203.0		12.50			
FORMATION INTEGRITY				7,708.0		11.51			
Casing Pressure Test									
Test Type	Test Subtype	Date		Item Tested		Failed?	Time (min)	P (psi)	
CASING	STANDARD	3/23/2024 11:00		SURFACE, 1,203.3ftKB		No	30.00	1,000.0	
CASING	STANDARD	5/5/2024 09:00		INTERMEDIATE, 5,012.0ftKB		No	30.00	2,500.0	
CASING	STANDARD	5/7/2024 08:00		INTERMEDIATE 2, 7,708.0ftKB		No	30.00	2,500.0	
Kick Offs & Key Depths									
Date		Type		Top Depth (ftKB)		Depth Top (TVD) (ftKB)			
5/5/2024 18:45		KICK OFF		7,485.0		7,464.0			
5/8/2024 00:00		HEEL		8,665.0		8,254.3			
5/10/2024 20:45		TOE		21,491.0		7,997.4			
Casing Strings									
Description	Set Depth (ftKB)		Set Depth (TVD) (ftKB)		OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
CONDUCTOR	106.0		106.0		20	H40	78.67		
SURFACE	1,203.3		1,203.1		13 3/8	J55	54.50	BTC	781.1
INTERMEDIATE	5,012.0		4,991.7		9 5/8	L80-IC	40.00	BTC	
INTERMEDIATE 2	7,708.0		7,684.2		7 5/8	P110-ICY	29.70	WEDGE 441	4,596.9
Gas Emissions - Flare									
Type		Method		Dur (Min)		Amount		Units	Com
No Data									
Job Supply Amounts									
Supply Item Des	Type	Unit Label	Received	Consumed	Returned	Note	Cum On Loc	Cum Consumed	
DIESEL	MUD	GAL	7450			Flint 94424	19,126	14842	
DIESEL	MUD	GAL		8290		Mud	10,836	23132	
DIESEL	FUEL	GAL		2459		Rig	8,109	18911	
Mud Additive Amounts									
Des		Type			Units	Rec	Consumed	On Loc	Cum Cons
SOLIDS CONTROL EQUIPMENT		SOLIDS CONTROL EQUIPMENT			EA	1	1	0.0	9
MUD RENTAL EQUIPMENT		MUD RENTAL EQUIPMENT			EA	1	1	0.0	9
BLOWER FOR BULK BINS		MISCELLANEOUS			PER RIG	1	1	0.0	8
BCI OBM RHEO MODIFIER		LOW END MODIFIER			GAL		1	4.0	6
BCI OBM WETTING AGENT		WETTING AGENT			GAL		1	8.0	2
BCI OBM PRIMARY		EMULSIFIER			GAL		2	6.0	7
BENTONE 910		ORGANOPHILLIC CLAY			LB		3	72.0	21
BENTONE 990		ORGANOPHILLIC CLAY			LB		3	72.0	21
GILSOCOL GP		SPECIALTY			LB		17	96.0	54
VERSA TROL M		FILTRATE CONTROL			LB		20	81.0	69
LIME		ALKALINITY CONTROL			LB		34	206.0	304
CALCIUM CHLORIDE		CALCIUM CHLORIDE			LB		65	75.0	231
DIESEL - FOR MUD					GAL	7450	8290	11,886.0	23,006
Pump Operations									
Pump #	Make		Model		Liner Size (in)	Stroke (in)	Vol/Stk (bbl/stk)		P Max (psi)
1	GARDNER-DENVER		PZ-11-1600		5 1/4	11.00	0.074		6,900.0
2	GARDNER-DENVER		PZ-11-1600		5 1/4	11.00	0.074		6,900.0
3	GARDNER-DENVER		PZ-11-1600		5 1/4	11.00	0.074		6,900.0
Pump Checks									
Pump #	Depth (ftKB)		Time	P (psi)	Strokes (spm)		Q Flow (gpm)		Eff (%)
No Data									
Deviation Surveys									
Date		Description			Job				
3/20/2024 06:00		AS DRILL SURVEY			ODR, 3/19/2024 19:30				
Survey Data - All surveys for 24 hr reporting period									
MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)		NS (ft)	EW (ft)	DLS (°/100ft)	
20,996.00	98.42	180.92	8,069.17	13,257.22		-13,257.18	33.64	0.29	
21,185.00	97.95	178.64	8,042.26	13,444.28		-13,444.24	34.36	1.22	
21,373.00	98.58	182.82	8,015.23	13,630.26		-13,630.23	32.00	2.23	
21,455.00	98.76	183.11	8,002.86	13,711.21		-13,711.18	27.81	0.41	
Formations									
Formation Name	Prog Top Override (TVD SS) (ft(elv))		Prog Top MD (ftKB)		Prog Top (TVD) (ftKB)		Final Top MD (ftKB)		Final Top (TVD) (ftKB)
270_0_WFMP_A1	-5,426.0				8,128.0		8,210.1		8,101.8
271_0_WFMP_A2	-5,524.0				8,226.0		8,409.3		8,204.7
TOT	-5,561.0				8,263.0		8,549.7		8,240.2
ILP	-5,575.0				8,277.0				
PBHL/TD	-5,528.0				8,230.0				
Daily Contacts									
Job Contact			Title		Office	Mobile	Email		
RICHARDSON, KEN, AREA DRILLING SUPERINTENDENT			AREA DRILLING SUPERINTENDENT		432-571-2557	432-557-8128	KEN.RICHARDSON@PXD.COM		
COX, BRYAN, ENGINEER			ENGINEER		972-969-5717	361-318-4212	BRYAN.COX@PXD.COM		
GARZA, JOHN, ENGINEER			ENGINEER			469-286-7746	JOHN.GARZA@PXD.COM		

BROWN, KEITH, SUPERINTENDENT	SUPERINTENDENT	972-313-9798	469-516-3137	KEITH.BROWN@PXD.COM
DOYLE, ANTHONY, SUPERINTENDENT	SUPERINTENDENT		318-452-0523	ANTHONY.DOYLE@PXD.COM
YOUNG, JC, WELLSITE SUPERVISOR	WELLSITE SUPERVISOR		662-633-1897	JC.YOUNG@PXD.COM
GALLAGHER, JEFFERY, WELLSITE SUPERVISOR	WELLSITE SUPERVISOR		318-282-4788	JEFFERY.GALLAGHER@PXD.COM
CLIFTON, JOHN, MUD ENGINEER	MUD ENGINEER		405-243-6436	JOHN.CLIFTON@PXD.COM
RIG-H&P 604, RIG PHONE	RIG PHONE	432-200-0290	432-888-5155	DL-HP604@PXD.COM
Personnel Log				
Company				Count
PIONEER NATURAL RESOURCES USA INC				3
HELMERICH & PAYNE INTERNATIONAL DRILLING CO				13
SCHLUMBERGER TECHNOLOGY CORPORATION				1

H & P 604

Accept: 5/2/2024

Release:

Days Since LTI: 896.00

Days Since RI: 199.00

Daily Drilling Report

PERMIAN - JV SOUTHERN WOLFCAMP

Job: ODR

Report Date: 05/12/2024

Report #: 13

DFS: 11

AFE #: 9034369

Total AFE + Sup: \$3,384,818.20

Daily Field Est. (Cost): \$635,663.01

API/UWI 42-461-42560-0000			Well Profile HORIZONTAL		Open Formation WOLFCAMP A2 (WFMP A2)			Field Name SPRABERRY (TREND AREA)			
SSN ID00020209		Property Sub	KB-Grd (ft) 26.00		Orig KB Elevation (ft) 2,702.00		Ground Elevation (ft) 2,676.00		Spud Date 3/19/2024	TD Date 5/10/2024	
Jobs											
Responsible Grp 2			Responsible Grp 3		Job Type	Start Date		End Date	Job Status		
DRL ENG - JOHN GARZA			AREA TEAM 4		ODR	3/19/2024 19:30			IN PROGRESS		
Job Dates (ex. Estimated Pad Release, TXRRC Calls)											
Type	Subtype		Date	Note							
MILESTONE	ESTIMATED PAD RELEASE		7/20/2024	Updated 5/9/24, drilling 2nd well, production interval on 6 well pad, sequential drilling							
Daily Operations											
Footage/Meterage (ft) 0.00		Drilling Hours	% Rotating Time	End Depth (ftKB) 21,491.0		Target Depth (ftKB) 21,529.0		Daily Field Est Total \$635,663.01		Cum Field Est To Date \$2,689,771.28	
24 HR ROP (ft/hr)	Circulating Hours	% Sliding Time	End Depth (TVD) (ftKB) 7,997.4		Target Depth Depth (TVD) (ftKB) 8,229.2		Daily Mud Field Est Total \$2,909.82		Cum Mud Field Est \$57,752.88	Total AFE + Sup \$3,384,818.20	
Daily Goal Description DRILLED FEET			Daily Goal - Last 24 0.0			Daily Goal - Next 24 500.0		Goal Comments No prior footage goal			
Backbuild Yes	Lateral Inclination Toe Up	Last Casing String PRODUCTION, 21,481.0ftKB				Next Casing String PRODUCTION, 21,481.0ftKB					
Avg Connection Gas 0.00		Avg Trip Gas 0.00	Avg Background Gas 33.00		Max Connection Gas 0.00		Max Trip Gas 0.00		Max Drill Gas 110.00		
Operations Summary TOOH. L/D BHA. Pull WB. R/U and RIH with 5.5" production casing & land @ 21,491, R/D casing equipment, R/U circulating manifold. Burst airlock & burp casing											
Operations Next Report Period Continue circulating casing STS. Install packoff and BPV, N/D, Release rig & Skid to University 3-19 704H											
Operations At Report Time Circulating 5.5" casing STS											
Remarks NPT: Cum: 6.0 hrs; Dly: 0.0 hrs Surf: 100% Int.: 100% Int 2.: 100% Prod. Curve: 100% Prod. Lateral: 100% No Incident No Spills Reported Reserve Pit Level 5.5 below mark @ 18:00 5/11/24 Reserve Pit Level 5.5' below mark @ 05:30 5/12/24											
Time Log											
Start Time	Dur (hr)	End Time	Phase	Operation	Ops Category	Com		Start Depth (ftKB)	End Depth (ftKB)	Prob Hrs	Prob Ref #
06:00	2.25	08:15	PROD, POST DRL	TOOH_ELEV	NORMAL	TOOH from 7,701' to BHA', Monitor proper fill on trip tank		21,491.0	21,491.0		
08:15	0.25	08:30	PROD, POST DRL	SFTY	NORMAL	Safety meeting on laying down directional BHA.		21,491.0	21,491.0		
08:30	0.5	09:00	PROD, POST DRL	LD_DIR	NORMAL	L/D directional BHA.		21,491.0	21,491.0		
09:00	0.25	09:15	PROD, POST DRL	WRBSH	NORMAL	Pull wear bushing.		21,491.0	21,491.0		
09:15	0.25	09:30	PROD, CASING	SFTY	NORMAL	Safety meeting on rigging up and running 5.5" production casing.		21,491.0	21,491.0		
09:30	0.5	10:00	PROD, CASING	RIG_SVC	NORMAL	Rig service check crown saver.		21,491.0	21,491.0		
10:00	0.75	10:45	PROD, CASING	RU_CSG	NORMAL	R/U casing tools.		21,491.0	21,491.0		
10:45	0.25	11:00	PROD, CASING	MU_SHOE_TRK	NORMAL	P/U pre buck on float joint and test floats.		21,491.0	21,491.0		
11:00	17	04:00	PROD, CASING	CSG_W/O ROTATION	NORMAL	RIH with 5.5" 20# P-110 IC wedge 441 casing from 47' to 21,481' with proper displacement & land in well head with 87K		21,491.0	21,491.0		
04:00	0.5	04:30	PROD, CASING	RD_CSG	NORMAL	R/D casing equipment		21,491.0	21,491.0		
04:30	0.5	05:00	PROD, CASING	CIRC	NORMAL	R/U circulating manifold and lines		21,491.0	21,491.0		
05:00	1	06:00	PROD, CASING	CIRC	NORMAL	Fill pipe & rupture Baker air lock tool with 2635 psi, vent air out & fill casing with 311 bbls		21,491.0	21,491.0		
Drill Strings											

BHA #4 , PRODUCTION - CURVE/LATERAL																						
Bit Run		Drill Bit				Bit Type		Make														
4		6 3/4, SDi613, 6681				PDC		SMITH														
Nozzles (1/32")		Bit Total Fluid Area (nozzles) (in²)		IADC Bit Dull		Hours Drilled By Bit (hr)		Depth Drilled By Bit (ft)														
9/9/9/9/9/9		0.37		1-1-WT-A-X-0-NO-TD		77.93		13,783.00														
BHA Drilling Time (hr)		BHA Depth Drilled (ft)		BHA ROP (ft/hr)		Depth In (ftKB)		Depth Out (ftKB)														
77.93		13,783.00		176.9		7,708.0		21,491.0														
Drill String Components																						
Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)	Wt (lbf)	Cum Wt (1000lbf)	Make														
126	DRILL PIPE	5	4.28	3,949.95	21,491.00	77,024.0	368	RIG														
1	SUB - XO	6 5/8	3.00	4.53	17,541.05		291	QUAIL														
479	DRILL PIPE	4 1/2	3.83	17,309.76	17,536.52	287,342.0	291	QUAIL														
3	HWDP	4 1/2	3.25	92.75	226.76	3,431.7	3	RIG														
1	SUB - XO	4.298	3.83	3.60	134.01		0	DRILLING TOOLS INTERNATIONAL														
1	SUB - FLOAT	4.298	3.83	4.19	130.41		0	DRILLING TOOLS INTERNATIONAL														
1	MOTOR - SLICK SLEEVE	5 1/4	2.25	32.37	126.22		0	MPACT														
1	ANTI-STALL TOOL	5	3.75	21.82	93.85		0	TOMAX														
1	SUB - XO	5 1/4	2.25	3.58	72.03		0	DRILLING TOOLS INTERNATIONAL														
1	SUB - FILTER	5 1/16	2.25	4.51	68.45		0	DRILLING TOOLS INTERNATIONAL														
1	SUB (OTHER)	4 3/4	2.69	5.08	63.94		0	SCHLUMBERGER														
1	STABILIZER	4 15/16	2.69	4.56	58.86		0	DRILLING TOOLS INTERNATIONAL														
1	MWD TOOL - NON-RETRIEVABLE	4 15/16	2.69	29.48	54.30		0	DRILLING TOOLS INTERNATIONAL														
1	DRILL COLLAR - NON MAG, FLEX	5 1/16	2.69	9.45	24.82		0	DRILLING TOOLS INTERNATIONAL														
1	RSS TOOL	5	3.64	14.92	15.37		0	SCHLUMBERGER														
Mud Motors																						
SN		Bend Angle		Bearing Type		Lobe Config		# Stages		Lwr Defln Type		Bit To Bend										
500-154LE		0		NOT SEALED		7:8		7				0										
Sensors																						
Sensor Type			Sensor-Bit (ft)				Note															
NEAR BIT INCLINOMETER			8.34																			
GAMMA			30.33																			
Hydraulic Calculations																						
Dens Mud (lb/gal)		ECD End (lb/gal)		Bit Hydraulic Power (hp)		HP/Area (hp/in²)		Jet Vel (ft/s)		Bit dP (psi)		Min Open Hole AV (ft/min)		Max Open Hole AV (ft/min)		Vol DrillString (bbl)		Vol Bit to Shoe (bbl)		Vol Shoe to Top (bbl)		
Mud Checks																						
Time		Mud Company				Type		Depth (ftKB)		Density (lb/gal)		Funnel Viscosity (s/qt)				T Flowline (° F)						
5/11/2024 19:00		PIONEER DRILLING FLUIDS				OIL BASE		21,491.0		10.10		61				0.0						
pV (cP)		YP (lbf/100ft²)		Vis 3rpm		Vis 6rpm		Filtrate (mL/30min)		HTHP Filtrate (mL/30min)				HTHP Temperature (° F)				HTHP Pressure (psi)				
24.0		11.000		5		6				13.2				250.0				500.0				
Solids (%)			Low Gravity Solids (%)					Sand (%)			MBT (lb/bbl)			Pm (mL/mL)			Pf (mL/mL)					
15.0			9.3					0.0														
Chlorides (mg/L)			Calcium (mg/L)			CaCl (ppm)					Oil Water Ratio			Electric Stab (V)			Lime (lb/bbl)			pH		
24,000			10,800.000			0.144239996862605					80/20			547.0			2.6					
Gel 10 sec (lbf/100ft²)							Gel 10 min (lbf/100ft²)							Gel 30 min (lbf/100ft²)								
6.000							10.000							11.000								
Comment																						
Mud Checks																						
Time		Mud Company				Type		Depth (ftKB)		Density (lb/gal)		Funnel Viscosity (s/qt)				T Flowline (° F)						
5/11/2024 07:00		PIONEER DRILLING FLUIDS				OIL BASE		21,491.0		10.00		60				0.0						
pV (cP)		YP (lbf/100ft²)		Vis 3rpm		Vis 6rpm		Filtrate (mL/30min)		HTHP Filtrate (mL/30min)				HTHP Temperature (° F)				HTHP Pressure (psi)				
25.0		9.000		5		6				13.2				250.0				500.0				
Solids (%)			Low Gravity Solids (%)					Sand (%)			MBT (lb/bbl)			Pm (mL/mL)			Pf (mL/mL)					
14.5			9.1					0.0														
Chlorides (mg/L)			Calcium (mg/L)			CaCl (ppm)					Oil Water Ratio			Electric Stab (V)			Lime (lb/bbl)			pH		
24,000			10,800.000			0.140855205257672					79.5/20.5			563.0			2.7					
Gel 10 sec (lbf/100ft²)							Gel 10 min (lbf/100ft²)							Gel 30 min (lbf/100ft²)								
6.000							9.000							11.000								
Comment																						
No Treatment while tripping and running casing.																						
Last BOP Test																						
Date			Test Type			Item Tested						Next Test Date						Com				
5/6/2024 22:45			BOP			BOP'S, 5/2/2024 09:30						5/27/2024 22:45										
Leak Off and Formation Integrity Tests																						
Test Type								Depth (ftKB)								Dens Fluid (lb/gal)						
FORMATION INTEGRITY								1,203.0								12.50						
FORMATION INTEGRITY								7,708.0								11.51						
Casing Pressure Test																						
Test Type		Test Subtype		Date				Item Tested						Failed?		Time (min)		P (psi)				
CASING		STANDARD		3/23/2024 11:00				SURFACE, 1,203.3ftKB						No		30.00		1,000.0				
CASING		STANDARD		5/5/2024 09:00				INTERMEDIATE, 5,012.0ftKB						No		30.00		2,500.0				
CASING		STANDARD		5/7/2024 08:00				INTERMEDIATE 2, 7,708.0ftKB						No		30.00		2,500.0				
Kick Offs & Key Depths																						

Date		Type	Top Depth (ftKB)		Depth Top (TVD) (ftKB)			
5/5/2024 18:45		KICK OFF	7,485.0		7,464.0			
5/8/2024 00:00		HEEL	8,665.0		8,254.3			
5/10/2024 20:45		TOE	21,491.0		7,997.4			
Casing Strings								
Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)	
CONDUCTOR	106.0	106.0	20	H40	78.67			
SURFACE	1,203.3	1,203.1	13 3/8	J55	54.50	BTC	781.1	
INTERMEDIATE	5,012.0	4,991.7	9 5/8	L80-IC	40.00	BTC		
INTERMEDIATE 2	7,708.0	7,684.2	7 5/8	P110-ICY	29.70	WEDGE 441	4,596.9	
PRODUCTION	21,481.0	7,998.9	5 1/2	P110-IC	20.00	WEDGE 441		
Gas Emissions - Flare								
Type	Method	Dur (Min)		Amount		Units	Com	
No Data								
Mud Additive Amounts								
Des		Type		Units	Rec	Consumed	On Loc	Cum Cons
SOLIDS CONTROL EQUIPMENT		SOLIDS CONTROL EQUIPMENT		EA	1	1	0.0	10
MUD RENTAL EQUIPMENT		MUD RENTAL EQUIPMENT		EA	1	1	0.0	10
BLOWER FOR BULK BINS		MISCELLANEOUS		PER RIG	1	1	0.0	9
BARITE - BULK		WEIGHTING MATERIAL		TON		6	32.0	24
Pump Operations								
Pump #	Make	Model	Liner Size (in)	Stroke (in)	Vol/Stk (bbl/stk)		P Max (psi)	
1	GARDNER-DENVER	PZ-11-1600	5 1/4	11.00	0.074		6,900.0	
2	GARDNER-DENVER	PZ-11-1600	5 1/4	11.00	0.074		6,900.0	
3	GARDNER-DENVER	PZ-11-1600	5 1/4	11.00	0.074		6,900.0	
Pump Checks								
Pump #	Depth (ftKB)	Time	P (psi)	Strokes (spm)		Q Flow (gpm)		Eff (%)
No Data								
Deviation Surveys								
Date		Description		Job				
3/20/2024 06:00		AS DRILL SURVEY		ODR, 3/19/2024 19:30				
Formations								
Formation Name	Prog Top Override (TVD SS) (ft(elv))		Prog Top MD (ftKB)	Prog Top (TVD) (ftKB)	Final Top MD (ftKB)		Final Top (TVD) (ftKB)	
270_0_WFMP_A1	-5,426.0			8,128.0	8,210.1		8,101.8	
271_0_WFMP_A2	-5,524.0			8,226.0	8,409.3		8,204.7	
TOT	-5,561.0			8,263.0	8,549.7		8,240.2	
ILP	-5,575.0			8,277.0				
PBHL/TD	-5,528.0			8,230.0				
Daily Contacts								
Job Contact		Title		Office	Mobile	Email		
RICHARDSON, KEN, AREA DRILLING SUPERINTENDENT		AREA DRILLING SUPERINTENDENT		432-571-2557	432-557-8128	KEN.RICHARDSON@PXD.COM		
COX, BRYAN, ENGINEER		ENGINEER		972-969-5717	361-318-4212	BRYAN.COX@PXD.COM		
GARZA, JOHN, ENGINEER		ENGINEER			469-286-7746	JOHN.GARZA@PXD.COM		
BROWN, KEITH, SUPERINTENDENT		SUPERINTENDENT		972-313-9798	469-516-3137	KEITH.BROWN@PXD.COM		
DOYLE, ANTHONY, SUPERINTENDENT		SUPERINTENDENT			318-452-0523	ANTHONY.DOYLE@PXD.COM		
YOUNG, JC, WELLSITE SUPERVISOR		WELLSITE SUPERVISOR			662-633-1897	JC.YOUNG@PXD.COM		
GALLAGHER, JEFFERY, WELLSITE SUPERVISOR		WELLSITE SUPERVISOR			318-282-4788	JEFFERY.GALLAGHER@PXD.COM		
CLIFTON, JOHN, MUD ENGINEER		MUD ENGINEER			405-243-6436	JOHN.CLIFTON@PXD.COM		
RIG-H&P 604, RIG PHONE		RIG PHONE		432-200-0290	432-888-5155	DL-HP604@PXD.COM		
Personnel Log								
Company							Count	
PIONEER NATURAL RESOURCES USA INC							3	
HELMERICH & PAYNE INTERNATIONAL DRILLING CO							13	
SCHLUMBERGER TECHNOLOGY CORPORATION							1	

H & P 604

Accept:

5/2/2024

Release:

5/12/2024

Days Since LTI:

897.00

Days Since RI:

200.00

Daily Drilling Report

PERMIAN - JV SOUTHERN WOLFCAMP

Job:

ODR

Report Date:

05/12/2024

Report #:

14

DFS:

11

AFE #:

9034369

Total AFE + Sup:

\$3,384,818.20

Daily Field Est. (Cost):

\$57,265.43

API/UWI 42-461-42560-0000			Well Profile HORIZONTAL		Open Formation WOLFCAMP A2 (WFMP A2)			Field Name SPRABERRY (TREND AREA)			
SSN ID00020209		Property Sub	KB-Grd (ft) 26.00		Orig KB Elevation (ft) 2,702.00		Ground Elevation (ft) 2,676.00		Spud Date 3/19/2024	TD Date 5/10/2024	
Jobs											
Responsible Grp 2			Responsible Grp 3			Job Type	Start Date		End Date	Job Status	
DRL ENG - JOHN GARZA			AREA TEAM 4			ODR	3/19/2024 19:30			IN PROGRESS	
Job Dates (ex. Estimated Pad Release, TXRRC Calls)											
Type	Subtype		Date	Note							
MILESTONE	ESTIMATED PAD RELEASE		7/20/2024	Updated 5/9/24, drilling 2nd well, production interval on 6 well pad, sequential drilling							
Daily Operations											
Footage/Meterage (ft) 0.00		Drilling Hours	% Rotating Time		End Depth (ftKB) 21,491.0	Target Depth (ftKB) 21,529.0		Daily Field Est Total \$57,265.43		Cum Field Est To Date \$2,747,036.71	
24 HR ROP (ft/hr)	Circulating Hours	% Sliding Time	End Depth (TVD) (ftKB) 7,997.4		Target Depth Depth (TVD) (ftKB) 8,229.2		Daily Mud Field Est Total \$		Cum Mud Field Est \$57,752.88	Total AFE + Sup \$3,384,818.20	
Daily Goal Description DRILLED FEET			Daily Goal - Last 24 0.0			Daily Goal - Next 24 0.0			Goal Comments No footage goal		
Backbuild Yes	Lateral Inclination Toe Up	Last Casing String PRODUCTION, 21,481.0ftKB				Next Casing String PRODUCTION, 21,481.0ftKB					
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 Circulate casing STS. Wait on cementers. Cement production section. Install packoff, BPV and cap. Released to University 3-19 704H											
Operations Next Report Period Release rig to University 3-19 704H @ 19:30											
Operations At Report Time Relase rig to the University 3-19 704H											
Remarks NPT: Cum: 6.0 hrs; Dly: 0.0 hrs Surf: 100% Int.: 100% Int 2.: 100% Prod. Curve: 100% Prod. Lateral: 100% No Incident No Spills Reported Reserve Pit Level 5.5 below mark @ 18:00 5/11/24 Reserve Pit Level 5.5' below mark @ 05:30 5/12/24											
Time Log											
Start Time	Dur (hr)	End Time	Phase	Operation	Ops Category	Com		Start Depth (ftKB)	End Depth (ftKB)	Prob Hrs	Prob Ref #
06:00	2.5	08:30	PROD, CASE & CMT	CIRC	NORMAL	Circulate STS with full returns.		21,491.0	21,491.0		
08:30	4	12:30	PROD, CASE & CMT	WAIT	NORMAL	Wait on cementers due the cancellation of off line cement job.		21,491.0	21,491.0	4.00	9
12:30	0.25	12:45	PROD, CASE & CMT	SFTY	NORMAL	Safety meeting on R/U cement.		21,491.0	21,491.0		
12:45	0.75	13:30	PROD, CASE & CMT	RU_CMT	NORMAL	R/U cementers.		21,491.0	21,491.0		
13:30	4	17:30	PROD, CASE & CMT	CMT	NORMAL	Test cementing iron to 8500 psi, perform cement job as follows, 50 bbl spacer @ 11 ppg, 103 bbl Scavenger @ 11 ppg, 113 bbls lead cement @ 11.5 ppg,250 bbls tail cement @ 12.5 ppg, wash up lines to reserve pit, drop bottom plug & displace with 4 bbls retarder water, drop top plug & displace with 36 bbls retarder water followed with displacing 437 bbls of FW. Bumped 1st plug @ 2,400 psi, ruptured @ 3,066 psi, 2nd plug 2,480 psi, to 3,620 psi. Bled back 3.0 bbls. Floats held. Monitor well for 30 min, static. freshwater, Full returns.		21,491.0	21,491.0		
17:30	0.25	17:45	PROD, CASE &	FLOW_CHK	NORMAL	Check flow, Well static		21,491.0	21,491.0		

			CMT										
17:45	1.25	19:00	DEMOB, RIG DOWN	WH	NORMAL	Wash lines, & Well head,L/D landing joint, Set pack-of & test, Install BPV	21,491.0	21,491.0					
19:00	0.25	19:15	DEMOB, RIG DOWN	ND_BOPE	NORMAL	N/D BOP	21,491.0	21,491.0					
19:15	0.25	19:30	DEMOB, RIG DOWN	WH	NORMAL	Install TA cap & release rig to the University 3-19 704H @ !9:30	21,491.0	21,491.0					
Interval Problems													
ADMIN, 21,491.0ftKB, 5/12/2024 08:30													
Ref #	Dur (hr)	Exclude From Problem Time Calcs?		SubType	Problem Description	Est Cost OR (Cost)	Accountable Party		Comment				
9	4.00	No		PLAN	DECISION		PIONEER NATURAL RESOURCES USA INC		Wait on cementers due the cancellation of off line cement job by PNR.				
Hydraulic Calculations													
Dens Mud (lb/gal)		ECD End (lb/gal)		Bit Hydraulic Power (hp)		HP/Area (hp/in²)	Jet Vel (ft/s)	Bit dP (psi)	Min Open Hole AV (ft/min)	Max Open Hole AV (ft/min)	Vol DrillString (bbl)	Vol Bit to Shoe (bbl)	Vol Shoe to Top (bbl)
Mud Checks													
Time			Mud Company			Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)		T Flowline (° F)		
5/12/2024 17:00			PIONEER DRILLING FLUIDS			OIL BASE	21,491.0	10.10	61		0.0		
pV (cP)	YP (lb/100ft²)		Vis 3rpm	Vis 6rpm	Filtrate (mL/30min)	HTHP Filtrate (mL/30min)		HTHP Temperature (° F)		HTHP Pressure (psi)			
25.0	10.000		5	6		13.2		250.0		500.0			
Solids (%)		Low Gravity Solids (%)				Sand (%)		MBT (lb/bbl)		Pm (mL/mL)		Pf (mL/mL)	
15.0		9.3				0.0							
Chlorides (mg/L)		Calcium (mg/L)		CaCl (ppm)			Oil Water Ratio		Electric Stab (V)		Lime (lb/bbl)	pH	
24,000		10,800.000		0.144239996862605			80/20		537.0		2.3		
Gel 10 sec (lb/100ft²)					Gel 10 min (lb/100ft²)				Gel 30 min (lb/100ft²)				
6.000					10.000				11.000				
Comment													
Mud Checks													
Time			Mud Company			Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)		T Flowline (° F)		
5/12/2024 07:00			PIONEER DRILLING FLUIDS			OIL BASE	21,491.0	10.10	61		107.0		
pV (cP)	YP (lb/100ft²)		Vis 3rpm	Vis 6rpm	Filtrate (mL/30min)	HTHP Filtrate (mL/30min)		HTHP Temperature (° F)		HTHP Pressure (psi)			
25.0	10.000		5	6		13.2		250.0		500.0			
Solids (%)		Low Gravity Solids (%)				Sand (%)		MBT (lb/bbl)		Pm (mL/mL)		Pf (mL/mL)	
15.0		9.3				0.0							
Chlorides (mg/L)		Calcium (mg/L)		CaCl (ppm)			Oil Water Ratio		Electric Stab (V)		Lime (lb/bbl)	pH	
24,000		10,800.000		0.144239996862605			80/20		537.0		2.3		
Gel 10 sec (lb/100ft²)					Gel 10 min (lb/100ft²)				Gel 30 min (lb/100ft²)				
6.000					10.000				11.000				
Comment													
Last BOP Test													
Date				Test Type		Item Tested			Next Test Date			Com	
5/6/2024 22:45				BOP		BOP'S, 5/2/2024 09:30			5/27/2024 22:45				
Leak Off and Formation Integrity Tests													
Test Type						Depth (ftKB)			Dens Fluid (lb/gal)				
FORMATION INTEGRITY						1,203.0			12.50				
FORMATION INTEGRITY						7,708.0			11.51				
Casing Pressure Test													
Test Type		Test Subtype		Date		Item Tested			Failed?	Time (min)		P (psi)	
CASING		STANDARD		3/23/2024 11:00		SURFACE, 1,203.3ftKB			No	30.00		1,000.0	
CASING		STANDARD		5/5/2024 09:00		INTERMEDIATE, 5,012.0ftKB			No	30.00		2,500.0	
CASING		STANDARD		5/7/2024 08:00		INTERMEDIATE 2, 7,708.0ftKB			No	30.00		2,500.0	
Kick Offs & Key Depths													
Date				Type		Top Depth (ftKB)			Depth Top (TVD) (ftKB)				
5/5/2024 18:45				KICK OFF		7,485.0			7,464.0				
5/8/2024 00:00				HEEL		8,665.0			8,254.3				
5/10/2024 20:45				TOE		21,491.0			7,997.4				
Casing Strings													
Description		Set Depth (ftKB)		Set Depth (TVD) (ftKB)		OD (in)	Grade	Wt/Len (lb/ft)	Top Thread		P LeakOff (psi)		
CONDUCTOR		106.0		106.0		20	H40	78.67					
SURFACE		1,203.3		1,203.1		13 3/8	J55	54.50	BTC		781.1		
INTERMEDIATE		5,012.0		4,991.7		9 5/8	L80-IC	40.00	BTC				
INTERMEDIATE 2		7,708.0		7,684.2		7 5/8	P110-ICY	29.70	WEDGE 441		4,596.9		
PRODUCTION		21,481.0		7,998.9		5 1/2	P110-IC	20.00	WEDGE 441				
Cement													
Cement Fluids													
Fluid Type		Estimated Top (ftKB)			Estimated Bottom (ftKB)			Class	Yield (ft³/sack)		Density (lb/gal)		
MUDPUSH		0.0			1,077.5						11.00		
Fluid Type		Estimated Top (ftKB)			Estimated Bottom (ftKB)			Class	Yield (ft³/sack)		Density (lb/gal)		
SCAVENGER		1,077.5			19,733.0			CLASS H	3.20		11.00		
Fluid Type		Estimated Top (ftKB)			Estimated Bottom (ftKB)			Class	Yield (ft³/sack)		Density (lb/gal)		
LEAD CMT		3,304.0			7,195.0			CLASS D	2.25		11.50		

Fluid Type TAIL CMT	Estimated Top (ftKB) 7,195.0	Estimated Bottom (ftKB) 21,481.0	Class CLASS D	Yield (ft³/sack) 1.56	Density (lb/gal) 12.50				
Fluid Type DSPLMT	Estimated Top (ftKB) 0.0	Estimated Bottom (ftKB) 21,476.0	Class	Yield (ft³/sack)	Density (lb/gal) 8.33				
Cement Stages									
Description	Final Top Depth 3,304.0	Btm (ftKB) 21,481.0	Top Pl... Yes	Btm Pl... Yes					
Q Pump Init 5	Q Pump Final 3	Q Pump Avg 6	P Pump Final 1,800.0	P Plug Bump 2,600.0	Float No	Recip? No	Rotated? No		
PRODUCTION CASING CEMENT casing 5/12/2024 13:30									
Cmtg End Date 5/12/2024 17:45	Wellbore ORIGINAL	Technical Result	Comment Spacer vol. =50 bbls Scavanger.=103 bbl Lead.= 113 Tail vol.= 250 bbls Cement returns vol.= 0 bbls Tracking# = 32703						
Gas Emissions - Flare									
Type		Method		Dur (Min)		Amount		Units	Com
No Data									
Job Supply Amounts									
Supply Item Des		Type	Unit Label	Received	Consumed	Returned	Note	Cum On Loc	Cum Consumed
DIESEL		FUEL	GAL		582		Rig	7,527	19493
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 1/4	11.00	0.074		6,900.0
2	GARDNER-DENVER		PZ-11-1600		5 1/4	11.00	0.074		6,900.0
3	GARDNER-DENVER		PZ-11-1600		5 1/4	11.00	0.074		6,900.0
Pump Checks									
Pump #	Depth (ftKB)		Time	P (psi)	Strokes (spm)		Q Flow (gpm)		Eff (%)
No Data									
Deviation Surveys									
Date 3/20/2024 06:00			Description AS DRILL SURVEY			Job ODR, 3/19/2024 19:30			
Formations									
Formation Name	Prog Top Override (TVD SS) (ft(elv))			Prog Top MD (ftKB)	Prog Top (TVD) (ftKB)		Final Top MD (ftKB)		Final Top (TVD) (ftKB)
270_0_WFMP_A1	-5,426.0				8,128.0		8,210.1		8,101.8
271_0_WFMP_A2	-5,524.0				8,226.0		8,409.3		8,204.7
TOT	-5,561.0				8,263.0		8,549.7		8,240.2
ILP	-5,575.0				8,277.0				
PBHL/TD	-5,528.0				8,230.0				
Daily Contacts									
Job Contact				Title		Office	Mobile	Email	
RICHARDSON, KEN, AREA DRILLING SUPERINTENDENT				AREA DRILLING SUPERINTENDENT		432-571-2557	432-557-8128	KEN.RICHARDSON@PXD.COM	
COX, BRYAN, ENGINEER				ENGINEER		972-969-5717	361-318-4212	BRYAN.COX@PXD.COM	
GARZA, JOHN, ENGINEER				ENGINEER			469-286-7746	JOHN.GARZA@PXD.COM	
BROWN, KEITH, SUPERINTENDENT				SUPERINTENDENT		972-313-9798	469-516-3137	KEITH.BROWN@PXD.COM	
DOYLE, ANTHONY, SUPERINTENDENT				SUPERINTENDENT			318-452-0523	ANTHONY.DOYLE@PXD.COM	
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Personnel Log									
Company									Count
PIONEER NATURAL RESOURCES USA INC									3
HELMERICH & PAYNE INTERNATIONAL DRILLING CO									13
SCHLUMBERGER TECHNOLOGY CORPORATION									1