

ENSIGN 125

Accept:

12/10/2022

Release:

Days Since LTI:

872.00

Days Since RI:

872.00

PERMIAN ASSET TEAM

Job:

ODR

Report Date:

02/08/2023

Report #:

21

DFS:

19

AFE #:

9023599

Total AFE + Sup:

\$3,565,329.99

Daily Field Est. (Cost):

\$113,330.68

Daily Drilling Report

API/UWI 42-003-48667-0000			Well Profile HORIZONTAL		Open Formation LOWER SPRABERRY SHALE (SPBY L C1)			Field Name SPRABERRY (TREND AREA)							
SSN ID00003249		Property Sub		KB-Grd (ft) 25.00		Orig KB Elevation (ft) 2,993.00		Ground Elevation (ft) 2,968.00		Spud Date 11/14/2022		TD Date 2/6/2023			
Jobs															
Responsible Grp 2				Responsible Grp 3			Job Type		Start Date		End Date		Job Status		
DRL ENG - JOHN GARZA				AREA TEAM 1			ODR		11/14/2022 18:00				IN PROGRESS		
Job Dates (ex. Estimated Pad Release, TXRRC Calls)															
Type		Subtype				Date			Note						
MILESTONE		ESTIMATED PAD RELEASE				2/6/2023			5th Production of a 5 well pad						
TXRRC CALL		CEMENT PROD				2/7/2023 07:11			Sandy #5						
Daily Operations															
Footage/Meterage (ft) 0.00		Drilling Hours		% Rotating Time		End Depth (ftKB) 20,142.0		Target Depth (ftKB) 20,203.0		Daily Field Est Total \$113,330.68		Cum Field Est To Date \$2,984,832.02			
24 HR ROP (ft/hr)		Circulating Hours		% Sliding Time		End Depth (TVD) (ftKB) 9,560.9		Target Depth Depth (TVD) (ftKB) 9,613.0		Daily Mud Field Est Total \$1,766.25		Cum Mud Field Est \$134,214.21		Total AFE + Sup \$3,565,329.99	
Daily Goal Description DRILLED FEET				Daily Goal - Last 24 0.0				Daily Goal - Next 24 0.0				Goal Comments Goal Met			
Backbuild No		Lateral Inclin Toe Down		Last Casing String INTERMEDIATE, 6,852.0ftKB					Next Casing String PRODUCTION, 20,124.0ftKB						
Avg Connection Gas 0.00		Avg Trip Gas 0.00		Avg Background Gas 375.00			Max Connection Gas 0.00			Max Trip Gas 0.00		Max Drill Gas 0.00			
Operations Summary															
Continue Backream F/14,935' out of the hole and Circulating B/U every 1500' T/ 10,500', Circulate 2x B/U, Backream out of hole T/ 6850', Spot Mud Cap, L/D 5" Drill Pipe															
Operations Next Report Period															
L/D 5" D.P. , Trip pipe out of derrick back in hole & L/D															
Operations At Report Time															
L/D drill @ 3510'															
Remarks															
No incidents reported, No spills recorded.															
Rig NPT - Well: 3.5 Total hrs 3rd Party NPT Well: 17.25 Total hrs Pioneer NPT Well: 12.25 Total hr Surf-100%, Int 1- 100%, Curve- 100%, Prod Lat- 100%															
Time Log															
Start Time	Dur (hr)	End Time	Phase	Operation	Ops Category	Com			Start Depth (ftKB)	End Depth (ftKB)	Prob Hrs	Prob Ref #			
06:00	1	07:00	PROD, POST DRL	CIRC	NORMAL	Circulate and work pipe @ 14,935', 570 GPMs, 60 RPMs, 8-9K torque ***On B/U 1% abnormal cuttings***			20,142.0	20,142.0	1.00	13			
07:00	2.25	09:15	PROD, POST DRL	TOOH_NONELEV	NORMAL	Backream out F/ 14,935' T/ 13,500'', 580 GPMs, 60 RPM, 9-15K torque			20,142.0	20,142.0	2.25	13			
09:15	1	10:15	PROD, POST DRL	CIRC	NORMAL	Circulate and work pipe @ 13,500', 570 GPMs, 60 RPMs, 8-9K torque ***On B/U seen 1% abnormal cuttings 1-2 CM in size***			20,142.0	20,142.0	1.00	13			
10:15	4.5	14:45	PROD, POST DRL	TOOH_NONELEV	NORMAL	Backream out F/ 13,500' T/ 10,370', 600 GPMs, 60 RPM, 9-15K torque Full Returns			20,142.0	20,142.0	4.50	13			
14:45	2	16:45	PROD, POST DRL	CIRC	NORMAL	Circulate 2x B/U & work pipe @ 10,370', 630 GPMs, 70 RPM, 5-7K torque, full returns ***Increase in cuttings to 2% abnormal cuttings seen 3.5 CM in size***			20,142.0	20,142.0	2.00	13			
16:45	8	00:45	PROD, POST DRL	TOOH_NONELEV	NORMAL	Backream out F/ 10,370' T/ 6850', 600 GPMs, 60 RPM, 5-9K torque Full Returns ****Torque got excessive from 8640' to 8400' indicating that our issue was possibly at the upper spraberry the whole time****			20,142.0	20,142.0	7.25	13			
00:45	0.25	01:00	PROD, POST DRL	FLOW_CHK	NORMAL	Flow check (Well was ballooning)			20,142.0	20,142.0					
01:00	0.5	01:30	PROD, POST DRL	TOOH_ELEV	NORMAL	Strip out of hole F/6850' T/6,600' filling pipe through kill line			20,142.0	20,142.0					

01:30	0.5	02:00	PROD, POST DRL	HDL_ROT HD	NORMAL	Change out rotating element	20,142.0	20,142.0			
02:00	1	03:00	PROD, POST DRL	TOOH_ELEV	NORMAL	Strip out of hole F/6,000' T/5500' ( Noticed orbit valve wasn't sealing off) ( Decided to pump mud cap with full returns.	20,142.0	20,142.0			
03:00	0.5	03:30	PROD, POST DRL	CIRC	NORMAL	Pump & Spot mud cap. With full returns	20,142.0	20,142.0			
03:30	0.25	03:45	PROD, POST DRL	FLOW_CHK	NORMAL	Check Flow, Well static	20,142.0	20,142.0			
03:45	0.75	04:30	PROD, POST DRL	TOOH_ELEV	NORMAL	TOOH F/ 5,550 T/4510' ( With proper fill)	20,142.0	20,142.0			
04:30	0.25	04:45	PROD, POST DRL	FLOW_CHK	NORMAL	Flow Check, Well Static	20,142.0	20,142.0			
04:45	0.25	05:00	PROD, POST DRL	CIRC	NORMAL	Pump Slug	20,142.0	20,142.0			
05:00	1	06:00	PROD, POST DRL	TOOH_ELEV	NORMAL	TOOH F/4510' T/3510', L/D drill pipe. Hole taking proper fill.	20,142.0	20,142.0			
Interval Problems											
DOWNHOLE CONDITIONS, 20,142.0ftKB, 2/6/2023 12:00											
Ref #	Dur (hr)	Exclude From Problem Time Calcs?	SubType	Problem Description	Est Cost OR (Cost)	Accountable Party	Comment				
13	36.00	No	WELLBORE	FORMATION INSTABILITY		PIONEER NATURAL RESOURCES USA INC	While performing K&M, noticed 1-2 CM rock coming across the shakers, circulated hole clean and started backreaming out of the hole to 19,110', hole started packing off, weight up to 9.2 ppg and circulated hole clean, at B/U noticed a increase in cuttings as well as more 1-2 CM rock				
Drill Strings											
BHA #7 , PRODUCTION - LATERAL											
Bit Run				Drill Bit			Bit Type		Make		
6				8 1/2, DD506TSX, 5338896			PDC		GE/BAKER HUGHES		
Nozzles (1/32")				Bit Total Fluid Area (nozzles) (in²)		IADC Bit Dull		Hours Drilled By Bit (hr)		Depth Drilled By Bit (ft)	
13/13/13/13/13/13				0.78		-----		61.25		7,735.00	
BHA Drilling Time (hr)				BHA Depth Drilled (ft)		BHA ROP (ft/hr)		Depth In (ftKB)		Depth Out (ftKB)	
61.25				7,735.00		126.3		12,407.0		20,142.0	
Drill String Components											
Jts	Item Des			OD (in)	ID (in)	Len (ft)	Cum Len (ft)	Wt (lbf)	Cum Wt (1000lbf)	Make	
444	DRILL PIPE			5	4.28	20,026.30	20,142.00		0	RIG	
1	SUB - FILTER			6 1/2	3.13	4.17	115.70		0	DRILLING TOOLS INTERNATIONAL	
1	MOTOR - STABILIZER SLEEVE			7 1/8	3.88	41.31	111.53		0	GE/BAKER HUGHES	
1	HYDRASHOCK			7	2.25	17.45	70.22		0	TOMAX	
1	DRILL COLLAR - NON MAG			6 5/8	2.75	9.98	52.77		0	DRILLING TOOLS INTERNATIONAL	
1	STABILIZER			6 11/16	2.75	4.84	42.79		0	DRILLING TOOLS INTERNATIONAL	
1	RSS TOOL			6 5/8	2.75	12.28	37.95		0	GE/BAKER HUGHES	
1	MWD TOOL - NON-RETRIEVABLE			6 7/8	2.75	15.63	25.67		0	GE/BAKER HUGHES	
1	RSS TOOL			6 15/16	2.75	9.39	10.04		0	GE/BAKER HUGHES	
Mud Motors											
SN		Bend Angle		Bearing Type		Lobe Config		# Stages	Lwr DefIn Type	Bit To Bend	
15918389		0		NOT SEALED		6:7		10.2		0	
Sensors											
Sensor Type				Sensor-Bit (ft)			Note				
GAMMA				12.24							
DIRECTIONAL				22.31							
Hydraulic Calculations											
Dens Mud (lb/gal)	ECD End (lb/gal)	Bit Hydraulic Power (hp)		HP/Area (hp/in²)	Jet Vel (ft/s)	Bit dP (psi)	Min Open Hole AV (ft/min)	Max Open Hole AV (ft/min)	Vol DrillString (bbl)	Vol Bit to Shoe (bbl)	Vol Shoe to Top (bbl)
Mud Checks											
Time		Mud Company			Type	Depth (ftKB)		Density (lb/gal)	Funnel Viscosity (s/qt)		T Flowline (° F)
2/7/2023 21:00		PIONEER DRILLING FLUIDS			OIL BASE	20,142.0		9.20	52		
pV (cP)	YP (lbF/100ft²)	Vis 3rpm	Vis 6rpm	Filtrate (mL/30min)		HTHP Filtrate (mL/30min)		HTHP Temperature (° F)		HTHP Pressure (psi)	
11.0	5.000	4	5	0.0		10.0		200.0		500.0	
Solids (%)		Low Gravity Solids (%)			Sand (%)		MBT (lb/bbl)		Pm (mL/mL)		Pf (mL/mL)
10.0		5.1			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
10,000		2,000.000		0		80/20		384.0		1.6	0.0
Gel 10 sec (lbF/100ft²)				Gel 10 min (lbF/100ft²)				Gel 30 min (lbF/100ft²)			
4.000				6.000				7.000			
Comment											
Recommended Fluid Treatment:Maintain 9.2 ppg MW. Barite used for slug and maintaining MW											
Drilling Fluids Activity Last 24 Hrs: Receive 1 load of procor material, 1 partial load of mud diesel, 400 BBLs OBM F/Ensign 142. Circulated 7x B/U											

while reaming out of hole w/400 BBLs losses incurred.

Rig Activity Last 24 Hours:Continue POOH/Reaming F/17,430' T/6,834' circulating B/U as needed for hole cleaning. Drilling parameters: ROP- 132', WOB-44K, Rotary- 80 RPM, Bit- 270 RPM, Tq- 16.1 KLB-Ft, Diff- 644 PSI. P/U 250k, S/O 170k, ROT 210K. Ftg drilled last 24hrs: 720'. Lithology @ 20,142' 100% SH.

Last BOP Test								
Date	Test Type	Item Tested	Next Test Date	Com				
2/2/2023 03:15	BOP	BOP'S, 12/10/2022 10:00	2/23/2023 03:15	Full BOP Test				
Leak Off and Formation Integrity Tests								
Test Type		Depth (ftKB)	Dens Fluid (lb/gal)					
FORMATION INTEGRITY		2,040.0	12.46					
FORMATION INTEGRITY		6,852.0	10.50					
Casing Pressure Test								
Test Type	Test Subtype	Date	Item Tested	Failed?	Time (min)	P (psi)		
CASING	STANDARD	11/17/2022 17:30	SURFACE, 2,010.6ftKB	No	30.00	1,000.0		
CASING	STANDARD	1/31/2023 01:00	INTERMEDIATE, 6,852.0ftKB	No	30.00	2,500.0		
Kick Offs & Key Depths								
Date	Type	Top Depth (ftKB)	Depth Top (TVD) (ftKB)					
2/1/2023 06:00	KICK OFF	8,940.0	8,933.3					
2/1/2023 23:00	HEEL	9,924.0	9,540.9					
2/6/2023 05:15	TOE	20,142.0	9,560.9					
Casing Strings								
Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)	
CONDUCTOR	105.0	105.0	20	H40	78.67			
SURFACE	2,010.6	2,009.7	13 3/8	J55	54.50	BTC	1,320.3	
INTERMEDIATE	6,852.0	6,845.3	9 5/8	L80-IC	40.00	BTC	3,734.6	
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	2700	1827			4,012	30884
DIESEL	MUD	GAL		3356			5,366	50446
Mud Additive Amounts								
Des	Type	Units	Rec	Consumed	On Loc	Cum Cons		
BARITE - BULK	WEIGHTING MATERIAL	TON		3	33.0	116		
BARITE - SACK	WEIGHTING MATERIAL	SACK		60	97.0	60		
Pump Operations								
Pump #	Make	Model	Liner Size (in)	Stroke (in)	Vol/Stk (bbl/stk)	P Max (psi)		
1	BOMCO	F1600	5 1/2	12.00	0.088	7,500.0		
2	BOMCO	F1600	5 1/2	12.00	0.088	7,500.0		
3	BOMCO	F1600	5 1/2	12.00	0.088	7,500.0		
Pump Checks								
Pump #	Depth (ftKB)	Time	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)		
No Data								
Deviation Surveys								
Date	Description	Job						
11/14/2022 21:30	AS DRILL SURVEY	ODR, 11/14/2022 18:00						
Formations								
Formation Name	Prog Top Override (TVD SS) (ft(elv))	Prog Top MD (ftKB)	Prog Top (TVD) (ftKB)	Final Top MD (ftKB)	Final Top (TVD) (ftKB)			
ILP	-6,570.0		9,563.0					
PBHL/TD	-6,620.0		9,613.0					
269_0_DEAN	-6,633.0		9,626.0					
270_0_WFMP_A1	-6,802.0		9,795.0					
275_0_WFMP_B1	-7,009.0		10,002.0					
276_0_WFMP_B2	-7,031.0		10,024.0					
278_0_WFMP_B3	-7,085.0		10,078.0					
280_0_WFMP_C1	-7,175.0		10,168.0					
282_0_WFMP_C2	-7,275.0		10,268.0					
292_0_WFMP_D	-7,701.0		10,694.0					
304_0_STRAWN	-8,065.0		11,058.0					
Daily Contacts								
Job Contact	Title	Office	Mobile	Email				
POLYA, JOE, AREA DRILLING SUPERINTENDENT	AREA DRILLING SUPERINTENDENT	432-413-6147	432-352-3155	JOE.POLYA@PXD.COM				
GARZA, JOHN, ENGINEER	ENGINEER		469-286-7746	JOHN.GARZA@PXD.COM				
VOGEL, WILLIS, SUPERINTENDENT	SUPERINTENDENT		432-301-6784	WILLIS.VOGEL@PXD.COM				
BROWN, KEITH, SUPERINTENDENT	SUPERINTENDENT	972-313-9798	469-516-3137	KEITH.BROWN@PXD.COM				
DOYLE, ANTHONY, WELLSITE SUPERVISOR	WELLSITE SUPERVISOR		318-452-0523	ANTHONY.DOYLE@PXD.COM				
GALLAGHER, JEFFERY, WELLSITE SUPERVISOR	WELLSITE SUPERVISOR		318-282-4788	JEFFERY.GALLAGHER@PXD.COM				
MUNGER CASEY, MUD ENGINEER	MUD ENGINEER		479-234-6620	CASEY.MUNGER@PXD.COM				
RIG-ENSIGN 125, RIG PHONE	RIG PHONE	432-848-5232	432-894-8995	DL-ENSIGN125@PXD.COM				

Personnel Log	
Company	Count
PIONEER NATURAL RESOURCES USA INC	2
ENSIGN UNITED STATES DRILLING S W INC	13
BAKER HUGHES OILFIELD OPERATIONS INC	2
GISLER BROTHERS LOGGING CO INC	2

ENSIGN 125

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Daily Drilling Report

API/UWI 42-003-48667-0000			Well Profile HORIZONTAL		Open Formation LOWER SPRABERRY SHALE (SPBY L C1)			Field Name SPRABERRY (TREND AREA)							
SSN ID00003249		Property Sub		KB-Grd (ft) 25.00		Orig KB Elevation (ft) 2,993.00		Ground Elevation (ft) 2,968.00		Spud Date 11/14/2022		TD Date 2/6/2023			
Jobs															
Responsible Grp 2				Responsible Grp 3			Job Type		Start Date			End Date		Job Status	
DRL ENG - JOHN GARZA				AREA TEAM 1			ODR		11/14/2022 18:00					IN PROGRESS	
Job Dates (ex. Estimated Pad Release, TXRRC Calls)															
Type		Subtype					Date		Note						
MILESTONE		ESTIMATED PAD RELEASE					2/6/2023		5th Production of a 5 well pad						
Daily Operations															
Footage/Meterage (ft) 0.00		Drilling Hours		% Rotating Time		End Depth (ftKB) 20,142.0		Target Depth (ftKB) 20,203.0		Daily Field Est Total \$50,967.39		Cum Field Est To Date \$2,963,368.31			
24 HR ROP (ft/hr)		Circulating Hours		% Sliding Time		End Depth (TVD) (ftKB) 9,560.8		Target Depth Depth (TVD) (ftKB) 9,613.0		Daily Mud Field Est Total \$		Cum Mud Field Est \$134,214.21		Total AFE + Sup \$3,565,329.99	
Daily Goal Description DRILLED FEET				Daily Goal - Last 24 0.0				Daily Goal - Next 24 0.0				Goal Comments Goal Met			
Backbuild No		Lateral Inclination Toe Down		Last Casing String INTERMEDIATE, 6,852.0ftKB					Next Casing String PRODUCTION, 20,124.0ftKB						
Avg Connection Gas 0.00		Avg Trip Gas 0.00		Avg Background Gas 5.00			Max Connection Gas 0.00			Max Trip Gas 0.00		Max Drill Gas 0.00			
Operations Summary Finished L/D 5"drill pipe F/ 3,510' T/116', L/D directional tools, Run 50 stands of 5" DP out of derrick at a time in hole and L/D til all 5"pipe was L/D. R/U casing crew and run 5.5" production casing T/2,000'															
Operations Next Report Period Finish running production casing F/2,000' T/20,124', Circulate 1.5 casing capacity, R/U Halliburton cementers and cement production casing,R/D cementers, L/D landing jt and install pack-off & test															
Operations At Report Time Running 5.5" production casing @ 2,000'															
Remarks No incidents reported, No spills recorded.  Rig NPT - Well: 3.5 Total hrs 3rd Party NPT Well: 17.25 Total hrs Pioneer NPT Well: 12.25 Total hr Surf-100%, Int 1- 100%, Curve- 100%, Prod Lat- 100%															
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	PROD, POST DRL	TOOH_ELEV	NORMAL	TOOH L/D 5" drill pipe F/3510' T/1900' with hole taking proper fill			20,142.0	20,142.0					
06:45	0.5	07:15	PROD, POST DRL	HDL_ROT HD	NORMAL	Pull rotating head, install trip nipple			20,142.0	20,142.0					
07:15	1.75	09:00	PROD, POST DRL	TOOH_ELEV	NORMAL	TOOH L/D 5" drill pipe F/1900' T/116' with hole taking proper fill			20,142.0	20,142.0					
09:00	0.25	09:15	PROD, POST DRL	SFTY	NORMAL	PJSM on L/D directional BHA			20,142.0	20,142.0					
09:15	0.75	10:00	PROD, POST DRL	LD_DIR	NORMAL	L/D directional RSS BHA			20,142.0	20,142.0					
10:00	0.5	10:30	PROD, POST DRL	HDL_BHA	NORMAL	M/U Bit Sub & Bit			20,142.0	20,142.0					
10:30	1.5	12:00	PROD, POST DRL	TIH_ELEV	NORMAL	TIH T/ 4514' with proper displacement			20,142.0	20,142.0					
12:00	3	15:00	PROD, POST DRL	TOOH_ELEV	NORMAL	TOOH L/D 5" drill pipe F/4514' T/45' with hole taking proper fill			20,142.0	20,142.0					
15:00	1.5	16:30	PROD, POST DRL	TIH_ELEV	NORMAL	TIH F/ 45' T/ 4559' with proper displacement			20,142.0	20,142.0					
16:30	3.25	19:45	PROD, POST DRL	TOOH_ELEV	NORMAL	TOOH L/D 5" drill pipe F/4559' T/45' with hole taking proper fill			20,142.0	20,142.0					
19:45	1.75	21:30	PROD, POST DRL	TIH_ELEV	NORMAL	TIH F/ 45' T/ 5360' with proper displacement			20,142.0	20,142.0					

21:30	3.75	01:15	PROD, POST DRL	TOOH_ELEV	NORMAL	TOOH L/D 5" drill pipe F/5360' T/Bit sub & bit' with hole taking proper fill. Having to use tongs on some of the tight connections.	20,142.0	20,142.0		
01:15	0.25	01:30	PROD, POST DRL	WRBSH	NORMAL	Pull wearbushing	20,142.0	20,142.0		
01:30	0.5	02:00	PROD, POST DRL	RIG_SVC	NORMAL	Rig service/ Clean floor up	20,142.0	20,142.0		
02:00	0.25	02:15	PROD, POST DRL	SFTY	NORMAL	PJSM on R/U casing crew	20,142.0	20,142.0		
02:15	1	03:15	PROD, CASE & CMT	RU_CSG	NORMAL	R/U casing euipment & CRT	20,142.0	20,142.0		
03:15	0.25	03:30	PROD, CASE & CMT	MU_SHOE_TRK	NORMAL	M/U shoe track joint, test float collar	20,142.0	20,142.0		
03:30	2.5	06:00	PROD, CASE & CMT	CSG_W/O ROTATION	NORMAL	Run 5" production T/2000' with proper displacement.	20,142.0	20,142.0		

Drill Strings

BHA #7 , PRODUCTION - LATERAL

Bit Run	Drill Bit	Bit Type	Make
6	8 1/2, DD506TSX, 5338896	PDC	GE/BAKER HUGHES
Nozzles (1/32")	Bit Total Fluid Area (nozzles) (in²)	IADC Bit Dull	Hours Drilled By Bit (hr)
13/13/13/13/13	0.78	3-2-BT-A-X-0-LT-TD	61.25
Depth Drilled By Bit (ft)			7,735.00
BHA Drilling Time (hr)	BHA Depth Drilled (ft)	BHA ROP (ft/hr)	Depth In (ftKB)
61.25	7,735.00	126.3	12,407.0
			Depth Out (ftKB)
			20,142.0

Drill String Components

Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)	Wt (lbf)	Cum Wt (1000lbf)	Make
444	DRILL PIPE	5	4.28	20,026.30	20,142.00		0	RIG
1	SUB - FILTER	6 1/2	3.13	4.17	115.70		0	DRILLING TOOLS INTERNATIONAL
1	MOTOR - STABILIZER SLEEVE	7 1/8	3.88	41.31	111.53		0	GE/BAKER HUGHES
1	HYDRASHOCK	7	2.25	17.45	70.22		0	TOMAX
1	DRILL COLLAR - NON MAG	6 5/8	2.75	9.98	52.77		0	DRILLING TOOLS INTERNATIONAL
1	STABILIZER	6 11/16	2.75	4.84	42.79		0	DRILLING TOOLS INTERNATIONAL
1	RSS TOOL	6 5/8	2.75	12.28	37.95		0	GE/BAKER HUGHES
1	MWD TOOL - NON-RETRIEVABLE	6 7/8	2.75	15.63	25.67		0	GE/BAKER HUGHES
1	RSS TOOL	6 15/16	2.75	9.39	10.04		0	GE/BAKER HUGHES

Mud Motors

SN	Bend Angle	Bearing Type	Lobe Config	# Stages	Lwr Defin Type	Bit To Bend
15918389	0	NOT SEALED	6:7	10.2		0

Sensors

Sensor Type	Sensor-Bit (ft)	Note
GAMMA	12.24	
DIRECTIONAL	22.31	

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)
2/8/2023 21:00		PIONEER DRILLING FLUIDS			OIL BASE	20,142.0	9.20	54		
pV (cP)	YP (lbF/100ft²)	Vis 3rpm	Vis 6rpm	Filtrate (mL/30min)	HTHP Filtrate (mL/30min)		HTHP Temperature (° F)		HTHP Pressure (psi)	
11.0	6.000	4	5	0.0	10.0		200.0		500.0	
Solids (%)		Low Gravity Solids (%)			Sand (%)		MBT (lb/bbl)		Pm (mL/mL)	Pf (mL/mL)
10.0		5.1			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
9,500		2,000.000		0	80/20		354.0		2.2	0.0
Gel 10 sec (lbF/100ft²)				Gel 10 min (lbF/100ft²)			Gel 30 min (lbF/100ft²)			
5.000				7.000			9.000			

Comment

Recommended Fluid Treatment:No treatment needed at this time. Mud in good shape to run csg.

Drilling Fluids Activity Last 24 Hrs:Back reamed t/ shoe. Needed 9.2 MW t/ get out the hole. At 6,850' flow checked well ballooning stripped out of hole t/ 5,500' spotted 30 bbl 12.2# mud cap well static. Monitoring well on trip while LDDP.

Rig Activity Last 24 Hours:Back reamed t/ shoe. At 6,850' flow checked well ballooning stripped out of hole t/ 5,500' spotted 30 bbl 12.2# mud cap well static. POOH L/D BHA, P/U sub/bit TIH t/ 4,559' coming out LDDP. Drilling parameters- ROP- 132', WOB-44K, Rotary- 80 RPM, Bit- 270 RPM, Tq- 16.1 KLB-Ft, Diff- 644 PSI. P/U 250k, S/O 170k, ROT 210K. Ftg drilled last 24hrs: 0'. Lithology @ 20,142' 100% SH. Currently LDDP at time of report.

Last BOP Test

Date	Test Type	Item Tested	Next Test Date	Com
2/2/2023 03:15	BOP	BOP'S, 12/10/2022 10:00	2/23/2023 03:15	Full BOP Test



Leak Off and Formation Integrity Tests								
Test Type			Depth (ftKB)		Dens Fluid (lb/gal)			
FORMATION INTEGRITY			2,040.0		12.46			
FORMATION INTEGRITY			6,852.0		10.50			
Casing Pressure Test								
Test Type	Test Subtype	Date	Item Tested		Failed?	Time (min)	P (psi)	
CASING	STANDARD	11/17/2022 17:30	SURFACE, 2,010.6ftKB		No	30.00	1,000.0	
CASING	STANDARD	1/31/2023 01:00	INTERMEDIATE, 6,852.0ftKB		No	30.00	2,500.0	
Kick Offs & Key Depths								
Date		Type	Top Depth (ftKB)		Depth Top (TVD) (ftKB)			
2/1/2023 06:00		KICK OFF	8,940.0		8,933.2			
2/1/2023 23:00		HEEL	9,924.0		9,540.8			
2/6/2023 05:15		TOE	20,142.0		9,560.8			
Casing Strings								
Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)	
CONDUCTOR	105.0	105.0	20	H40	78.67			
SURFACE	2,010.6	2,009.8	13 3/8	J55	54.50	BTC	1,320.3	
INTERMEDIATE	6,852.0	6,845.2	9 5/8	L80-IC	40.00	BTC	3,734.6	
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		249			5,117	50695
DIESEL	FUEL	GAL		1014			2,998	31898
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	BOMCO	F1600	5 1/2	12.00	0.088		7,500.0	
2	BOMCO	F1600	5 1/2	12.00	0.088		7,500.0	
3	BOMCO	F1600	5 1/2	12.00	0.088		7,500.0	
Pump Checks								
Pump #	Depth (ftKB)	Time	P (psi)	Strokes (spm)	Q Flow (gpm)		Eff (%)	
No Data								
Deviation Surveys								
Date		Description			Job			
11/14/2022 21:30		AS DRILL SURVEY			ODR, 11/14/2022 18:00			
Date		Description			Job			
2/6/2023 07:00		FINAL SURVEY			,			
Formations								
Formation Name	Prog Top Override (TVD SS) (ft(elv))		Prog Top MD (ftKB)	Prog Top (TVD) (ftKB)	Final Top MD (ftKB)	Final Top (TVD) (ftKB)		
ILP	-6,570.0			9,563.0				
PBHL/TD	-6,620.0			9,613.0				
269_0_DEAN	-6,633.0			9,626.0				
270_0_WFMP_A1	-6,802.0			9,795.0				
275_0_WFMP_B1	-7,009.0			10,002.0				
276_0_WFMP_B2	-7,031.0			10,024.0				
278_0_WFMP_B3	-7,085.0			10,078.0				
280_0_WFMP_C1	-7,175.0			10,168.0				
282_0_WFMP_C2	-7,275.0			10,268.0				
292_0_WFMP_D	-7,701.0			10,694.0				
304_0_STRAWN	-8,065.0			11,058.0				
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		
GARZA, JOHN, ENGINEER			ENGINEER		469-286-7746	JOHN.GARZA@PXD.COM		
VOGEL, WILLIS, SUPERINTENDENT			SUPERINTENDENT		432-301-6784	WILLIS.VOGEL@PXD.COM		
BROWN, KEITH, SUPERINTENDENT			SUPERINTENDENT	972-313-9798	469-516-3137	KEITH.BROWN@PXD.COM		
PRESLEY, MAHLON, WELLSITE SUPERVISOR			WELLSITE SUPERVISOR		361-212-4890	MAHLON.PRESLEY@PXD.COM		
GALLAGHER, JEFFERY, WELLSITE SUPERVISOR			WELLSITE SUPERVISOR		318-282-4788	JEFFERY.GALLAGHER@PXD.COM		
LIGHTSEY, WADE, MUD ENGINEER			MUD ENGINEER		210-834-7068	WADE.LIGHTSEY@PXD.COM		
RIG-ENSIGN 125, RIG PHONE			RIG PHONE	432-848-5232	432-894-8995	DL-ENSIGN125@PXD.COM		
Personnel Log								
Company							Count	
PIONEER NATURAL RESOURCES USA INC							2	
ENSIGN UNITED STATES DRILLING S W INC							13	
BAKER HUGHES OILFIELD OPERATIONS INC							2	
GISLER BROTHERS LOGGING CO INC								

ENSIGN 125

Accept:

12/10/2022

Release:

2/10/2023

Days Since LTI:

875.00

Days Since RI:

875.00

Daily Drilling Report

PERMIAN ASSET TEAM

Job:

ODR

Report Date:

02/10/2023

Report #:

24

DFS:

21

AFE #:

9023599

Total AFE + Sup:

\$3,565,329.99

Daily Field Est. (Cost):

\$210,229.32

API/UWI 42-003-48667-0000		Well Profile HORIZONTAL		Open Formation LOWER SPRABERRY SHALE (SPBY L C1)			Field Name SPRABERRY (TREND AREA)			
SSN ID00003249		Property Sub	KB-Grd (ft) 25.00	Orig KB Elevation (ft) 2,993.00		Ground Elevation (ft) 2,968.00		Spud Date 11/14/2022	TD Date 2/6/2023	
Jobs										
Responsible Grp 2			Responsible Grp 3		Job Type	Start Date		End Date		Job Status
DRL ENG - JOHN GARZA			AREA TEAM 1		ODR	11/14/2022 18:00		2/10/2023 12:30		COMPLETE
Job Dates (ex. Estimated Pad Release, TXRRC Calls)										
Type		Subtype			Date		Note			
MILESTONE		ESTIMATED PAD RELEASE			2/10/2023		5th Production of a 5 well pad			
Daily Operations										
Footage/Meterage (ft) 0.00		Drilling Hours	% Rotating Time	End Depth (ftKB) 20,142.0	Target Depth (ftKB) 20,203.0		Daily Field Est Total \$210,229.32		Cum Field Est To Date \$3,264,018.74	
24 HR ROP (ft/hr)	Circulating Hours	% Sliding Time	End Depth (TVD) (ftKB) 9,560.8	Target Depth Depth (TVD) (ftKB) 9,613.0		Daily Mud Field Est Total \$		Cum Mud Field Est \$134,335.71	Total AFE + Sup \$3,565,329.99	
Daily Goal Description DRILLED FEET			Daily Goal - Last 24 0.0		Daily Goal - Next 24 0.0			Goal Comments Goal Met		
Backbuild No	Lateral Inclination Toe Down	Last Casing String PRODUCTION, 20,124.0ftKB				Next Casing String ftKB				
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 Finish cementing, L/D landing joint, Install Pack-off, N/D, Install TA cap, Clean Pits,Release Rig to the Dove Scharbauer E10F 106H on 2-10-2023 @ 12:30, Rig Down rig										
Operations Next Report Period Release Rig to the Dove Scharbauer E10F 106H										
Operations At Report Time Release rig to Dove-Scharbauer e 10F 106H on 2/10/2023 @ 12:30										
Remarks No incidents reported, No spills recorded.  Rig NPT - Well: 3.5 Total hrs 3rd Party NPT Well: 17.25 Total hrs Pioneer NPT Well: 12.25 Total hr Surf-100%, Int 1- 100%, Curve- 100%, Prod Lat- 100%										
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	10:00	PROD, CASE & CMT	CMT	NORMAL	Continue cement job: Pressure test lines T/7,500 psi. Pump 50 bbls of 9# Spacer, 221 bbls of 9.3 # Lead, 560 bbls of 12.5# Tail. Shut down and drop bottom plug, pump 4 bbls fresh water treated with MMCR, drop top plug and displace with 445 bbls of fresh water. Plug bumped on time @ 3 bpm w/ 3,200 psi but did not witness bottom plug disc rupture. Brought pressure up to 6,000 psi and plug disc did not rupture. Called Drilling Engineer and he was good with bleeding it off there. Returned 8.5 bbl water back to truck & Floats held.	20,142.0	20,142.0		
10:00	0.25	10:15	PROD, CASE & CMT	FLOW_CHK	NORMAL	Flow check well. Well static	20,142.0	20,142.0		
10:15	0.5	10:45	DEMOB, RIG DOWN	RD_CMT	NORMAL	Rig down cement equipment	20,142.0	20,142.0		
10:45	0.75	11:30	DEMOB, RIG DOWN	WH	NORMAL	Flush surface lines, install and test pack-off, install BPV	20,142.0	20,142.0		
11:30	0.5	12:00	DEMOB, RIG DOWN	ND_BOPE	NORMAL	N/D BOP	20,142.0	20,142.0		
12:00	0.5	12:30	DEMOB, RIG DOWN	WH	NORMAL	Install TA cap and release rig to the Dove - Scharbauer E10F 106H	20,142.0	20,142.0		
Hydraulic Calculations										
Dens Mud	ECD End	Bit Hydraulic Power	HP/Area	Jet Vel	Bit dP	Min Open Hole AV	Max Open Hole AV	Vol DrillString	Vol Bit to Shoe	Vol Shoe to Top



(lb/gal)	(lb/gal)	(hp)	(hp/in²)	(ft/s)	(psi)	(ft/min)	(ft/min)	(bbl)	(bbl)	(bbl)
Mud Checks										
Time		Mud Company			Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)		T Flowline (° F)
2/10/2023 12:30		PIONEER DRILLING FLUIDS			OIL BASE	20,142.0	9.20	52		
pV (cP)	YP (lbf/100ft²)	Vis 3rpm	Vis 6rpm	Filtrate (mL/30min)		HTHP Filtrate (mL/30min)		HTHP Temperature (° F)		HTHP Pressure (psi)
11.0	5.000	4	5	0.0		10.0		200.0		500.0
Solids (%)		Low Gravity Solids (%)			Sand (%)	MBT (lb/bbl)		Pm (mL/mL)		Pf (mL/mL)
9.5		5.9			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)
9,000		2,000.000		0		80/20		324.0		1.6
Gel 10 sec (lbf/100ft²)				Gel 10 min (lbf/100ft²)				Gel 30 min (lbf/100ft²)		
4.000				6.000				8.000		
Comment										
Recommended Fluid Treatment:No treatment needed at this time										
Drilling Fluids Activity Last 24 Hrs:Monitoring well on trip tank while running csg. Proper displacement being observed. Minor seepage seen while washing csg down through sprayberry.										
Rig Activity Last 24 Hours:Finished LDDP, R/U csg crew, M/U shoe track & run 5.5" prod csg. Washed csg down f/ 8,480' t/ 8,709'										
circ b/u. Drilling parameters: ROP- 132', WOB-44K, Rotary- 80 RPM, Bit- 270 RPM, Tq- 16.1 KLB-Ft, Diff;644 PSI. P/U 250k, S/O 170k, ROT 210K. Ftg drilled last 24hrs: 0'.										
Lithology @ 20,142' 100% SH.										
Currently running csg at time of report.										
Last BOP Test										
Date		Test Type		Item Tested			Next Test Date		Com	
2/2/2023 03:15		BOP		BOP'S, 12/10/2022 10:00			2/23/2023 03:15		Full BOP Test	
Leak Off and Formation Integrity Tests										
Test Type					Depth (ftKB)			Dens Fluid (lb/gal)		
FORMATION INTEGRITY					2,040.0			12.46		
FORMATION INTEGRITY					6,852.0			10.50		
Casing Pressure Test										
Test Type	Test Subtype	Date		Item Tested			Failed?	Time (min)		P (psi)
CASING	STANDARD	11/17/2022 17:30		SURFACE, 2,010.6ftKB			No	30.00		1,000.0
CASING	STANDARD	1/31/2023 01:00		INTERMEDIATE, 6,852.0ftKB			No	30.00		2,500.0
Kick Offs & Key Depths										
Date		Type		Top Depth (ftKB)			Depth Top (TVD) (ftKB)			
2/1/2023 06:00		KICK OFF		8,940.0			8,933.2			
2/1/2023 23:00		HEEL		9,924.0			9,540.8			
2/6/2023 05:15		TOE		20,142.0			9,560.8			
Casing Strings										
Description	Set Depth (ftKB)		Set Depth (TVD) (ftKB)		OD (in)	Grade	Wt/Len (lb/ft)		Top Thread	P LeakOff (psi)
CONDUCTOR	105.0		105.0		20	H40	78.67			
SURFACE	2,010.6		2,009.8		13 3/8	J55	54.50		BTC	1,320.3
INTERMEDIATE	6,852.0		6,845.2		9 5/8	L80-IC	40.00		BTC	3,734.6
PRODUCTION	20,124.0		9,560.8		5 1/2	P110-IC	20.00		WEDGE 441	
Cement										
Cement Fluids										
Fluid Type	Estimated Top (ftKB)		Estimated Bottom (ftKB)		Class		Yield (ft³/sack)		Density (lb/gal)	
SPACER	3,000.0		4,195.0				8.32		9.00	
Fluid Type	Estimated Top (ftKB)		Estimated Bottom (ftKB)		Class		Yield (ft³/sack)		Density (lb/gal)	
LEAD CMT	4,195.0		8,803.0		CLASS C		3.11		9.30	
Fluid Type	Estimated Top (ftKB)		Estimated Bottom (ftKB)		Class		Yield (ft³/sack)		Density (lb/gal)	
TAIL CMT	8,803.0		20,124.0		CLASS C		1.71		12.50	
Fluid Type	Estimated Top (ftKB)		Estimated Bottom (ftKB)		Class		Yield (ft³/sack)		Density (lb/gal)	
DSPLMT	28.0		20,120.0		FRESH WATER				8.33	
Cement Stages										
Description		Final Top Depth		Btm (ftKB)	Top Pl...		Btm Pl...			
Production Casing Cement		4,195.0		20,124.0	No		No			
Q Pump Init		Q Pump Final		Q Pump Avg	P Pump Final		P Plug Bump		Float	Recip?
4		7		6	5,907.0		1,200.0		No	No
PRODUCTION CASING CEMENT casing 2/10/2023 04:32										
Cmtg End Date	Wellbore	Technical Result	Comment							
2/10/2023 09:30	ORIGINAL	SUCCESS	Continue cement job: Pressure test lines T/7,500 psi. Pump 50 bbls of 9# Spacer, 221 bbls of 9.3 # Lead, 560 bbls of 12.5# Tail. Shut down and drop bottom plug, pump 4 bbls fresh water treated with MMCR, drop top plug and displace with 445 bbls of fresh water. Plug bumped on time @ 3 bpm w/ 3,200 psi but did not witness bottom plug disc rupture. Brought pressure up to 6,000 psi and plug disc did not rupture. Called Drilling Engineer and he was good with bleeding it off there. Returned 8.5 bbl water back to truck & Floats held.							
Gas Emissions - Flare										
Type		Method		Dur (Min)		Amount		Units		Com
No Data										
Job Supply Amounts										
Supply Item Des	Type	Unit Label	Received	Consumed	Returned	Note			Cum On Loc	Cum Consumed
DIESEL	FUEL	GAL			0	Transferred to 'DOVE-SCHARBAUER E10F 106H'			2,318	32578

DIESEL	FUEL	GAL			0	Transferred to 'DOVE-SCHARBAUER E10F 106H'	0	16756		
WATER	FRESH	BBL			0	Transferred to 'DOVE-SCHARBAUER E10F 106H'	0	7417		
DIESEL	MUD	GAL			0	Transferred to 'DOVE-SCHARBAUER E10F 106H'	2,095	53717		
DIESEL	MUD	GAL		2095			0	55812		
DIESEL	FUEL	GAL		2318			0	34896		
Mud Additive Amounts										
Des			Type			Units	Rec	Consumed	On Loc	Cum Cons
TRANSPORTATION			MISCELLANEOUS			EA	3	3	0.0	4
Pump Operations										
Pump #	Make	Model	Liner Size (in)		Stroke (in)		Vol/Stk (bbl/stk)		P Max (psi)	
1	BOMCO	F1600	5 1/2		12.00		0.088		7,500.0	
2	BOMCO	F1600	5 1/2		12.00		0.088		7,500.0	
3	BOMCO	F1600	5 1/2		12.00		0.088		7,500.0	
Pump Checks										
Pump #	Depth (ftKB)		Time	P (psi)	Strokes (spm)		Q Flow (gpm)		Eff (%)	
No Data										
Deviation Surveys										
Date			Description			Job				
11/14/2022 21:30			AS DRILL SURVEY			ODR, 11/14/2022 18:00				
Date			Description			Job				
2/6/2023 07:00			FINAL SURVEY			ODR, 11/14/2022 18:00				
Formations										
Formation Name	Prog Top Override (TVD SS) (ft(elv))			Prog Top MD (ftKB)		Prog Top (TVD) (ftKB)		Final Top MD (ftKB)		Final Top (TVD) (ftKB)
ILP	-6,570.0					9,563.0				
PBHL/TD	-6,620.0					9,613.0				
269_0_DEAN	-6,633.0					9,626.0				
270_0_WFMP_A1	-6,802.0					9,795.0				
275_0_WFMP_B1	-7,009.0					10,002.0				
276_0_WFMP_B2	-7,031.0					10,024.0				
278_0_WFMP_B3	-7,085.0					10,078.0				
280_0_WFMP_C1	-7,175.0					10,168.0				
282_0_WFMP_C2	-7,275.0					10,268.0				
292_0_WFMP_D	-7,701.0					10,694.0				
304_0_STRAWN	-8,065.0					11,058.0				
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		
GARZA, JOHN, ENGINEER				ENGINEER			469-286-7746	JOHN.GARZA@PXD.COM		
VOGEL, WILLIS, SUPERINTENDENT				SUPERINTENDENT			432-301-6784	WILLIS.VOGEL@PXD.COM		
BROWN, KEITH, SUPERINTENDENT				SUPERINTENDENT		972-313-9798	469-516-3137	KEITH.BROWN@PXD.COM		
PRESLEY, MAHLON, WELLSITE SUPERVISOR				WELLSITE SUPERVISOR			361-212-4890	MAHLON.PRESLEY@PXD.COM		
GALLAGHER, JEFFERY, WELLSITE SUPERVISOR				WELLSITE SUPERVISOR			318-282-4788	JEFFERY.GALLAGHER@PXD.COM		
LIGHTSEY, WADE, MUD ENGINEER				MUD ENGINEER			210-834-7068	WADE.LIGHTSEY@PXD.COM		
RIG-ENSIGN 125, RIG PHONE				RIG PHONE		432-848-5232	432-894-8995	DL-ENSIGN125@PXD.COM		
Personnel Log										
Company										Count
PIONEER NATURAL RESOURCES USA INC										2
ENSIGN UNITED STATES DRILLING S W INC										13
BAKER HUGHES OILFIELD OPERATIONS INC										2
GISLER BROTHERS LOGGING CO INC										2