

Daily Drilling Report

H & P #429	
Accept: 12/27/2019	Release:
Days Since LTI: 627.00	Days Since RI: 627.00

Job:	ODR
Report Date:	12/31/2019
Report #:	7
DFS:	5
AFE #:	9007539
Total AFE + Sup:	\$2,980,212.12
Daily Field Est. (Cost):	\$71,544.58

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PERMIAN ASSET TEAM

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Drill Strings																	
BHA #2 , INTERMEDIATE																	
Bit Run 2			Drill Bit 12 1/4in, CF716, 50937						Bit Type PDC			Make ULTERRA					
Nozzles (1/32") 12/12/12/12/12/12			Bit Total Fluid Area (nozzles) (in²) 0.77			IADC Bit Dull -----			Hours Drilled By Bit (hr) 25.25			Depth Drilled By Bit (ft) 3,509.50					
BHA Drilling Time (hr) 25.25			BHA Depth Drilled (ft) 3,509.50			BHA ROP (ft/hr) 139.0			Depth In (ftKB) 1,960.5			Depth Out (ftKB) 5,470.0					
Drill String Components																	
Jts	Item Des		OD (in)	ID (in)	Len (ft)	Cum Len (ft)	Wt (lbf)	Cum Wt (1000lbf)	Make								
140	DRILL PIPE		5	4.27	4,348.68	5,470.00	84,799.3	115									
15	HWDP - SPIRALED		5	3.00	457.99	1,121.32	22,578.9	30	OTHER (PROVIDE DESCRIPTION)								
1	DRILLING JARS - MECHANICAL		6 3/4	3.00	31.30	663.33		8	SMITH								
5	HWDP - SPIRALED		5	3.00	152.67	632.03	7,526.6	8	OTHER (PROVIDE DESCRIPTION)								
1	SUB - XO		7	2.75	2.71	479.36		0	OTHER (PROVIDE DESCRIPTION)								
9	DRILL COLLAR - NON MAG, SPIRALED		5	3.00	270.99	476.65		0	OTHER (PROVIDE DESCRIPTION)								
1	REAMER		8	2.88	4.50	205.66		0	NOV								
3	DRILL COLLAR - SPIRALED		8 1/4	2.88	90.33	201.16		0	OTHER (PROVIDE DESCRIPTION)								
1	SUB - XO		7 15/16	3.00	1.98	110.83		0	OTHER (PROVIDE DESCRIPTION)								
1	DRILL COLLAR - NON MAG		8 1/16	3.31	30.32	108.85		0	QES								
1	DRILL COLLAR - NON MAG		8	3.31	28.32	78.53		0	QES								
1	SUB - UBHO		8	3.06	2.57	50.21		0	QES								
1	STABILIZER		8	2.88	7.82	47.64		0	QES								
1	MOTOR - STABILIZER SLEEVE		7 15/16	2.25	38.32	39.82		0	QES								
Mud Motors																	
SN		Bend Angle		Bearing Type		Lobe Config		# Stages		Lwr Defln Type			Bit To Bend				
963-330		1.75		NOT SEALED		7:8		5.9					6.39				
Sensors																	
Sensor Type			Sensor-Bit (ft)					Note									
GAMMA			57.00														
D&I (INC/AZI)			70.00														
Drilling Parameters																	
Start Time	End Time	Start Depth (ftKB)	Int Depth (ft)	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	ROP Average (ft/hr)	Drill Str Wt (1000lbf)	PU Str Wt (1000lbf)	SO Str Wt (1000lbf)	Off-Btm Str Wt (1000lbf)	Drill Tq	Off Btm Tq	TFO (°)
06:00	06:15	2,264.0	187.00	748.0	45	70	1,000.0	900	3,600.0	350.0	150	145	140	148	20,000.0	11,000.0	0
06:15	06:30	2,451.0	20.00	80.0	45	0	700.0	900	3,250.0	200.0	150	145	140	148	0.0	0.0	49
06:30	07:00	2,471.0	75.00	150.0	45	70	1,000.0	900	3,600.0	350.0	150	145	140	148	20,000.0	11,000.0	0
07:00	07:15	2,546.0	20.00	80.0	45	0	700.0	900	3,250.0	200.0	150	145	140	148	0.0	0.0	49
07:15	07:30	2,566.0	74.00	296.0	45	70	1,000.0	900	3,600.0	350.0	150	145	140	148	20,000.0	11,000.0	0
07:30	07:45	2,640.0	25.00	100.0	45	0	700.0	900	3,250.0	200.0	150	145	140	148	0.0	0.0	90
07:45	08:15	2,665.0	80.00	160.0	45	70	1,000.0	900	3,600.0	350.0	150	145	140	148	20,000.0	11,000.0	0
08:15	08:30	2,745.0	20.00	80.0	45	0	700.0	900	3,600.0	200.0	150	145	140	148	0.0	0.0	90
08:30	08:45	2,765.0	74.00	296.0	45	70	1,000.0	900	3,600.0	350.0	150	145	140	148	20,000.0	11,000.0	0
08:45	09:00	2,839.0	20.00	80.0	45	0	700.0	900	3,250.0	200.0	150	145	140	148	0.0	0.0	60
09:00	09:45	2,859.0	169.00	225.3	45	70	1,000.0	900	3,600.0	350.0	150	145	140	148	20,000.0	11,000.0	0
09:45	10:00	3,028.0	20.00	80.0	45	0	700.0	900	3,250.0	200.0	150	145	140	148	0.0	0.0	120
10:00	11:15	3,048.0	264.00	211.2	45	70	1,000.0	900	3,600.0	350.0	150	145	140	148	20,000.0	11,000.0	0
11:15	11:30	3,312.0	25.00	100.0	45	0	700.0	900	3,250.0	200.0	150	145	140	148	0.0	0.0	120
11:30	13:15	3,337.0	431.00	246.3	45	70	1,000.0	900	3,600.0	350.0	150	145	140	148	20,000.0	11,000.0	0
13:15	13:45	3,768.0	0.00		0	0	0.0	900	2,800.0	0.0	150	145	140	148	0.0	0.0	0
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Daily Drilling Report

Drilling Parameters																					
Start Time	End Time	Start Depth (ftKB)	Int Depth (ft)	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	ROP Average (ft/hr)	Drill Str Wt (1000lbf)	PU Str Wt (1000lbf)	SO Str Wt (1000lbf)	Off-Btm Str Wt (1000lbf)	Drill Tq	Off Btm Tq	TFO (°)				
13:45	16:00	3,768.0	395.00	175.6	45	70	1,000.0	900	3,600.0	350.0	150	145	140	148	20,000.0	11,000.0	0				
16:00	16:15	4,163.0	19.00	76.0	45	0	700.0	900	3,250.0	200.0	150	145	140	148	0.0	0.0	140				
16:15	17:15	4,182.0	154.00	154.0	45	70	1,000.0	900	3,600.0	350.0	150	145	140	148	20,000.0	11,000.0	0				
17:15	17:30	4,336.0	25.00	100.0	45	0	700.0	900	3,250.0	200.0	150	145	140	148	0.0	0.0	140				
17:30	18:00	4,361.0	69.00	138.0	45	70	1,000.0	900	3,600.0	350.0	150	145	140	148	20,000.0	11,000.0	0				
18:00	18:15	4,430.0	25.00	100.0	45	0	700.0	900	3,250.0	200.0	150	145	140	148	0.0	0.0	140				
18:15	18:45	4,455.0	70.00	140.0	45	70	600.0	900	3,600.0	350.0	150	145	140	148	20,000.0	11,000.0	0				
18:45	19:30	4,525.0	25.00	33.3	45	0	700.0	900	3,250.0	200.0	150	145	140	148	0.0	0.0	180				
19:30	00:00	4,550.0	506.00	112.4	45	70	600.0	900	3,600.0	350.0	150	145	140	148	20,000.0	11,000.0	0				
00:00	00:30	5,056.0	36.00	72.0	45	65	100.0	900	3,600.0	350.0	150	145	140	148	20,000.0	11,000.0	0				
00:30	01:45	5,092.0	0.00		0	0	0.0	900	2,800.0	0.0	150	145	140	148	0.0	0.0	0				
01:45	02:30	5,092.0	94.00	125.3	45	65	600.0	900	3,600.0	350.0	150	145	140	148	20,000.0	11,000.0	0				
02:30	03:15	5,186.0	15.00	20.0	0	0	400.0	900	2,800.0	0.0	150	145	140	148	0.0	0.0	45				
03:15	03:45	5,201.0	80.00	160.0	45	65	450.0	900	3,600.0	350.0	150	145	140	148	20,000.0	11,000.0	0				
04:00	04:30	5,281.0	25.00	50.0	0	0	400.0	900	2,800.0	0.0	150	145	140	148	0.0	0.0	45				
04:30	06:00	5,306.0	164.00	109.3	45	65	450.0	900	3,600.0	350.0	150	145	140	148	20,000.0	11,000.0	0				
Hydraulic Calculations																					
Dens Mud (lb/gal)		ECD End (lb/gal)		Bit Hydraulic Power (hp)		HP/Area (hp/in²)		Jet Vel (ft/s)		Bit dP (psi)		Min Open Hole AV (ft/min)		Max Open Hole AV (ft/min)		Vol DrillString (bbl)		Vol Bit to Shoe (bbl)		Vol Shoe to Top (bbl)	
10.60		10.65		703.2		6.0		373.5		1,339.4		25.2		269.0		86.70		423.07		250.06	
Mud Checks																					
Time 21:15			Mud Company PIONEER DRILLING FLUIDS					Type DIRECT EMULSION		Depth (ftKB) 4,727.0		Density (lb/gal) 10.60		Funnel Viscosity (s/qt) 36		T Flowline (°F) 107.0					
PV (cP) 8.0		YP (lb/100ft²) 8.000		Vis 3rpm 4		Vis 6rpm 4		Filtrate (mL/30min) 16.8		HTHP Filtrate (mL/30min)			HTHP Temperature (°F)			HTHP Pressure (psi)					
Solids (%) 18.0				Low Gravity Solids (%) 9.0			Sand (%)			MBT (lb/bbl) 7.5			Pm (mL/mL) 0.900			Pf (mL/mL)					
Chlorides (ppm) 176,000,000.000				Calcium (ppm) 2,400.000			CaCl (ppm)		Oil Water Ratio 17.7/82.3			Electric Stab (V)			Lime (lb/bbl) 0.2			pH 9.4			
Gel 10 sec (lb/100ft²) 6.000							Gel 10 min (lb/100ft²) 8.000					Gel 30 min (lb/100ft²) 10.000									
Comment DRILLING FLUIDS ACTIVITY LAST 24 HRS Received load of bulk barite and mud chemicals. Changed 6 API 170's due to wear. Received 3 loads of brine.																					
RECOMMENDED FLUIDS TREATMENT MW – 10.4-10.5 In the Active Soda Ash – 2 Sx / hr Lime – None Caustic Soda – 1 sx/hr Xanthum Gum – None Pac HV – 1 sx /hr BCI Primary – None																					
VOLUME In Slug Add 50 bbls brine Add 2 sxs soda ash Add 1 sx xan Add ¼ Drum Primary Add 1 sx Pac Add 10 bbls Diesel																					
Sweeps 60 bbls from Active Add 2 sacks soda ash Add 1 sack xanthum gum																					
Pump 10-15 bbls every other connection																					
RIG ACTIVITY LAST 24 HOURS Perform FIT. Drilled f/1941' t/5088' at report time.																					
Daily Drilling Report																					

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Last BOP Test								
Date	Test Type	Item Tested	Next Test Date	Com				
12/29/2019	BOP	BOP'S, 12/27/2019 06:00, <class>	1/19/2020	Full BOP test w/ 5" DP: VBRs, Blinds, kill line valves, HCR / manual choke line valve, 4" stand pipe valve , 4" mud pump valves, TIW and IBOP, and all associated valves on choke manifold to 250 psi low and 5000 psi high. Test Annular 250 psi low and 3500 psi high. Test mudline back to MPs to 6325 psi.				
Leak Off and Formation Integrity Tests								
Test Type		Depth (ftKB)		Dens Fluid (lb/gal)				
FORMATION INTEGRITY		1,940.0		13.27				
Casing Pressure Test								
Test Type	Test Subtype	Date	Item Tested	Failed?	Time (min)	P (psi)		
CASING	STANDARD	12/10/2019	SURFACE, 1,939.8ftKB	No	30.00	1,000.0		
Kick Offs & Key Depths								
Date		Type			Top Depth (ftKB)			
Casing Strings								
Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)	
CONDUCTOR	106.5	106.5	20	H40	78.67			
SURFACE	1,939.8	1,939.0	13 3/8	J55	54.50	BTC	1,336.7	
Job Supply Amounts								
Supply Item Des	Type	Unit Label	Received	Consumed	Returned	Note	Cum On Loc	Cum Consumed
DIESEL	FUEL	GAL	0	3,666			5,023	4,409.0
DIESEL	MUD	GAL	0	2,696			4,637	2,696.0
WATER	FRESH	BBL	0	0		Water Meter Reading: 26,345	0	0.0
Mud Additive Amounts								
Des	Type	Units	Rec	Consumed	On Loc	Cum Cons		
BARITE - BULK	WEIGHTING MATERIAL	TON	22	0	43.0	0		
BARITE - SACK	WEIGHTING MATERIAL	LB	120	0	280.0	0		
BCI OBM PRIMARY	OIL MUD ADDITIVE	DRUM		3	13.0	3		
DRISPAC	FLUID LOSS ADDITIVES	LB		8	92.0	8		
LIME	ALKALINITY CONTROL	LB		20	380.0	20		
PALLETS	MISCELLANEOUS	EA	12	12	0.0	52		
SHRINK WRAP SIL DEFOAMER	DEFOAMER	EA	11	11	0.0	45		
SODA ASH	ALKALINITY CONTROL	LB		20	480.0	20		
SODIUM BICARB	ALKALINITY CONTROL	LB		8	90.0	8		
XANTHAN GUM	VISCOSIFIER	LB		10	150.0	10		
Pump Operations								
Pump #	Make	Model	Liner Size (in)	Stroke (in)	Vol/Stk (bbl/stk)	P Max (psi)		
1	GARDNER-DENVER	PZ-11-1600	5 1/2	11.00	0.081	6,341.0		
2	GARDNER-DENVER	PZ-11-1600	5 1/2	11.00	0.081	6,341.0		
3	GARDNER-DENVER	PZ-11-1600	5 1/2	11.00	0.081	6,341.0		
Pump Checks								
Pump #	Depth (ftKB)	Time	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)		
1	5,371.0	05:12	120.0	30	97	95		
1	5,371.0	05:13	160.0	40	129	95		
1	5,371.0	05:14	200.0	50	161	95		
2	5,371.0	05:15	100.0	30	97	95		
2	5,371.0	05:16	140.0	40	129	95		
2	5,371.0	05:17	200.0	50	161	95		
3	5,371.0	05:18	100.0	30	97	95		
3	5,371.0	05:19	140.0	40	129	95		
3	5,371.0	05:20	190.0	50	161	95		
Deviation Surveys								
Date	Description					Job		
	FINAL SURVEY							
Date	Description					Job		
12/9/2019	AS DRILL SURVEY					ODR, 12/8/2019 18:00		
Survey Data - All surveys for 24 hr reporting period								
MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	
2,281.00	7.91	44.64	2,278.67	75.09	50.02	56.02	0.66	
2,376.00	7.74	45.87	2,372.79	88.00	59.12	65.20	0.25	
2,471.00	7.78	40.95	2,466.92	100.75	68.43	74.01	0.70	
2,566.00	9.36	33.56	2,560.86	114.56	79.73	82.50	2.02	
2,660.00	10.95	35.85	2,653.39	130.62	93.34	91.95	1.74	
2,755.00	12.26	41.30	2,746.44	149.40	108.23	103.89	1.80	
2,849.00	13.98	41.12	2,837.99	170.54	124.28	117.95	1.83	
2,944.00	14.86	39.19	2,929.99	193.91	142.37	133.19	1.06	
3,038.00	15.30	41.82	3,020.76	218.09	160.95	149.08	0.87	
3,133.00	15.38	44.11	3,112.37	243.08	179.34	166.21	0.64	
3,227.00	15.16	42.97	3,203.06	267.72	197.28	183.26	0.40	
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Days Since RI: 627.00

PERMIAN ASSET TEAM

Job:

ODR

Report Date:

12/31/2019

Report #:

7

DFS

5

AFE #:

9007539

Total AFE + Sup:

\$2,980,212.12

Daily Field Est. (Cost):

\$71,544.58

Formations

Daily Contacts									
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Personnel Log									
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Daily Drilling Report

UNIVERSITY 7-8H 8H				PERMIAN ASSET TEAM			
H & P #429				Job:	ODR		
Accept: 12/27/2019				Report Date:	1/1/2020		
Days Since LTI: 628.00				Report #:	8		
Release:				DFS:	6		
Days Since RI: 628.00				AFE #:	9007539		
				Total AFE + Sup:	\$2,980,212.12		
				Daily Field Est. (Cost):	\$55,873.07		

P/UWI 42-003-48187-0000		Well Profile HORIZONTAL		Open Formation MIDDLE SPRABERRY (SPBY M A1)		Field Name SPRABERRY (TREND AREA)									
SSN ID00036582		Property Sub		KB-Grd (ft) 26.50	Orig KB Elev (ft) 3,000.50	Ground Elevation (ft) 2,974.00	Spud Date 12/8/2019	TD Date							
Safety Checks															
Time	Type	Des		Tour	Com										
06:00	MEETING	PRE-TOUR		DAY	R2LB #2 By Passing Safety Critical Equipment Core Value #2 Ethics and Honesty. Discussed drilling ahead and house keeping.										
06:01	PROACTIVE MEASURES	WEEKLY TRENDS REVIEWED		DAY	Description: While removing an O ring from the gun sub, contractor received a laceration on his hand. Laceration was bandaged, and contractor was taken to Xstreme MD to be evaluated. Steri-strips was used to bandage the laceration. Contractor was released to full duty.										
18:00	MEETING	PRE-TOUR		NIGHT	R2LB #2 By Passing Safety Critical Equipment Core Value #2 Ethics and Honesty. Discussed plan for TOO H, LD BHA, and running csg.										
18:01	PROACTIVE MEASURES	WEEKLY TRENDS REVIEWED		NIGHT	Description: While removing an O ring from the gun sub, contractor received a laceration on his hand. Laceration was bandaged, and contractor was taken to Xstreme MD to be evaluated. Steri-strips was used to bandage the laceration. Contractor was released to full duty.										
22:30	PROACTIVE MEASURES	STOP CARD - PNR		NIGHT	When going to mix chemical, RTM was observed putting on all necessary EXTRA ppe that was specific to the chemicals being used. He was thanked for his effort to keep himself and everyone safe.										
Jobs															
Responsible Grp 2		Responsible Grp 3		Job Type	Start Date		End Date		Job Status						
DRL ENG - JOHN GARZA		AREA TEAM 1		ODR	12/8/2019 18:00				IN PROGRESS						
Job Dates (ex. Estimated Pad Release, TXRRC Calls)															
Type				Subtype		Date		Note							
MILESTONE				ESTIMATED PAD RELEASE		2/20/2020		Updated 12/29/19							
Daily Operations															
Footage/Meterage (ft) 784.00		Drilling Hours (hr) 9.00		% Rotating Time (%) 91.67		End Depth (ftKB) 6,254.0		Target Depth (ftKB) 19,398.0		Daily Field Est Total (Cost) 55,873.07		Cum Field Est To Date (Cost) 654,535.84			
24 HR ROP (ft/hr) 87.1		Circulating Hours (hr) 3.25		% Sliding Time (%) 8.33		End Depth (TVD) (ftKB) 6,139.8		Target Depth (TVD) (ftKB) 8,915.0		Daily Mud Field Est (Cost) 9,633.48		Cum Mud Field Est (Cost) 14,132.76		Total AFE + Sup (Cost) 2,980,212.12	
Daily Goal Description DRILLED FEET				Daily Goal - Last 24 750.0				Daily Goal - Next 24 0.0				Goal Comments Goal Met - TD			
Backbuild Yes		Lateral Inclination Toe Flat		Last Casing String SURFACE, 1,939.8ftKB						Next Casing String INTERMEDIATE, 6,244.0ftKB					
Avg Connection Gas 70.00		Avg Trip Gas 186.00		Avg Background Gas 59.00		Max Connection Gas 172.00		Max Trip Gas 186.00		Max Drill Gas 188.00					
Operations Summary Drill Intermediate f/ 5,470' t/ 6,254' (8.33% sliding, 11.4° tanget, 20' Behind, 30' Left), circulate hole clean, Short trip, CBU, TOO H, and LD BHA.															
Operations Next Report Period Run 9-5/8" Csg, Circ STS, RU Cmt Equipment and cement, Set and test packoff, N/d BOP, Release Rig to the University 7-8G 7H.															
Operations at Report Time LD Intermediate Directional BHA															
Remarks No incidents or spills reported. NPT today 6 hrs, hrs total for well - 6.75 Hrs Surface 100%, Inter 100%, Curve 0% Lateral 0%															
Time Log															
Start Time	Dur (hr)	End Time	Phase	Operation	Ops Category	Com		Start Depth (ftKB)	End Depth (ftKB)	Prob Hrs (hr)	Prob Ref #				
06:00	9	15:00	INT, DRL	DRL	NORMAL	Drill Inter f/ 5,470' t/ 6,254' (784' @ 87 fph), WOB, 48-54k Tq 20-24k, 50-76 RPM, 850 GPM, 600-800 diff. No mud losses or gains Note: Litholgy at TD 6,254' : 40% SH, 30% SD, 30% LS		5,470.0	6,254.0						
15:00	2.25	17:15	INT, POST DRL	CIRC	NORMAL	Circ. 2x' Btms up at 750-800 gpm pumping 2 sweeps around Note: Sweeps showed 2% OH washout		6,254.0	6,254.0						
17:15	0.25	17:30	INT, POST DRL	FLOW_CHK	NORMAL	Flow check, well static		6,254.0	6,254.0						
17:30	5	22:30	INT, POST DRL	WPR_TRIP	HOLE CONDITIO N	While TOO H, had to back ream f/ 5500' t/ 5,000'. Short trip t/ 4,000' and back to bttm.		6,254.0	6,254.0	5.00	3				
22:30	1	23:30	INT, POST DRL	CIRC	HOLE CONDITIO N	Pump 30 bbl hi vis sweep and circulate surface to surface @ 800 gpm. Full returns		6,254.0	6,254.0	1.00	3				
23:30	0.25	23:45	INT, POST DRL	FLOW_CHK	NORMAL	Flow check, well static.		6,254.0	6,254.0						
23:45	3.5	03:15	INT, POST DRL	TOOH_ELEV	NORMAL	TOOH t/ BHA. No overpull, hole taking calculated displacement.		6,254.0	6,254.0						
03:15	0.25	03:30	INT, POST DRL	HDL_ROT HD	NORMAL	Pull rot head, install trip nipple.		6,254.0	6,254.0						
03:30	1.5	05:00	INT, POST DRL	HDL_BHA	NORMAL	Rack back 8" DCs.		6,254.0	6,254.0						
05:00	1	06:00	INT, POST DRL	LD_DIR	NORMAL	LD MM, bit, and stabilizer.		6,254.0	6,254.0						
Daily Drilling Report												Page 1/4		Printed: Wednesday, January 1, 2020	

Daily Drilling Report

H & P #429

Accept: 12/27/2019	Release:
Days Since LTI: 628.00	Days Since RI: 628.00

Job:	ODR
Report Date:	1/1/2020
Report #:	8
DFS:	6
AFE #:	9007539
Total AFE + Sup:	\$2,980,212.12
Daily Field Est. (Cost):	\$55,873.07

Daily Drilling Report Page 2/4 Printed: Wednesday, January 1, 2020

Daily Drilling Report

UNIVERSITY 7-8H 8H				PERMIAN ASSET TEAM			
H & P #429				Job:	ODR		
Accept: 12/27/2019				Report Date:	1/1/2020		
Days Since LTI: 628.00				Report #:	8		
Release:				DFS:	6		
Days Since RI: 628.00				AFE #:	9007539		
				Total AFE + Sup:	\$2,980,212.12		
				Daily Field Est. (Cost):	\$55,873.07		

Mud Checks

Time 23:55		Mud Company PIONEER DRILLING FLUIDS			Type DIRECT EMULSION	Depth (ftKB) 6,254.0	Density (lb/gal) 10.60	Funnel Viscosity (s/qt) 42	T Flowline (°F) 110.0
PV (cP) 13.0	YP (lb/100ft²) 9.000	Vis 3rpm 6	Vis 6rpm 7	Filtrate (mL/30min) 18.4	HTHP Filtrate (mL/30min)		HTHP Temperature (°F)		HTHP Pressure (psi)
Solids (%) 20.0		Low Gravity Solids (%) 11.3		Sand (%)	MBT (lb/bbl) 7.5		Pm (mL/mL) 0.700		Pf (mL/mL)
Chlorides (ppm) 170,000,000.000		Calcium (ppm) 2,520.000		CaCl (ppm)	Oil Water Ratio 17.5/82.5	Electric Stab (V)		Lime (lb/bbl) 0.1	pH 8.0
Gel 10 sec (lb/100ft²) 11.000				Gel 10 min (lb/100ft²) 19.000			Gel 30 min (lb/100ft²) 20.000		

Comment

DRILLING FLUIDS ACTIVITY LAST 24 HRS
Received load of mud diesel. Received (2) loads of bulk barite. Received (7) loads of 10# brine. Transferred brine to slug tank as needed to build and maintain volume. Increased MW to 10.6ppg while circulating B/U at TD.

RECOMMENDED FLUIDS TREATMENT

Diesel - 8 sec/qt
Water – None
Weigh mud in and out every 30 min. and check the viscosity every hour.
Add freshwater as needed to maintain volume and MW.
Put on PASON and update Mud Dens. every 30 mins NO EXCEPTIONS
MW – 10.4-10.5
In the Active
Soda Ash – 2 Sx / hr
Lime – 1 sack / 2 hrs
Caustic Soda – Add 4 sacks
Xanthum Gum – None
Pac HV – 1 sx /hr Slowly
BCI Primary – None

VOLUME

In Slug
Add 50 bbls brine from frac 4
Add 2 sxs soda ash
Add 1 sx xan
Add ¼ Drum Primary
Add 2 sx Pac
Add 10 bbls Diesel

Sweeps

60 bbls from Active
Add 2 sacks soda ash
Add 1 sack xanthum gum

Pump 10-15 bbls every other connection
Use mud from Frac #2 for volume

RIG ACTIVITY LAST 24 HOURS

Drilled from 5,088' to 6,254' (TD). Circulated B?U and pumped 2 x 30 bbl high-vis sweeps to clean the hole. Perform flow check - well static. Perform wiper trip to 4,000'. Trip back to bottom and pump 35 bbl high-vis sweep. Perform flow check - well static. Pump slug and POOH. POOH at time of report.

Last BOP Test

Date	Test Type	Item Tested	Next Test Date	Com
12/29/2019	BOP	BOP'S, 12/27/2019 06:00, <class>	1/19/2020	Full BOP test w/ 5" DP: VBRs, Blinds, kill line valves, HCR / manual choke line valve, 4" stand pipe valve , 4" mud pump valves, TIW and IBOP, and all associated valves on choke manifold to 250 psi low and 5000 psi high. Test Annular 250 psi low and 3500 psi high. Test mudline back to MPs to 6325 psi.

Leak Off and Formation Integrity Tests

Test Type	Depth (ftKB)	Dens Fluid (lb/gal)
FORMATION INTEGRITY	1,940.0	13.27

Casing Pressure Test

Test Type	Test Subtype	Date	Item Tested	Failed?	Time (min)	P (psi)
CASING	STANDARD	12/10/2019	SURFACE, 1,939.8ftKB	No	30.00	1,000.0

Kick Offs & Key Depths

Date	Type	Top Depth (ftKB)

Casing Strings

Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)
CONDUCTOR	106.5	106.5	20	H40	78.67		
SURFACE	1,939.8	1,939.0	13 3/8	J55	54.50	BTC	1,336.7

Job Supply Amounts

Supply Item Des	Type	Unit Label	Received	Consumed	Returned	Note	Cum On Loc	Cum Consumed
DIESEL	FUEL	GAL	0	1,977			3,046	6,386.0
DIESEL	MUD	GAL	0	3,000			1,637	5,696.0
WATER	FRESH	BBL	0	0			0	0.0

Mud Additive Amounts

Des	Type	Units	Rec	Consumed	On Loc	Cum Cons
BARITE - BULK	WEIGHTING MATERIAL	TON	41	39	45.03	39
BARITE - SACK	WEIGHTING MATERIAL	LB	0	20	260.0	20
CAUSTIC SODA	ALKALINITY CONTROL	LB		4	106.0	4
DRISPAC	FLUID LOSS ADDITIVES	LB		6	86.0	14

Daily Drilling Report

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Printed: Wednesday, January 1, 2020

Daily Drilling Report

H & P #429

Accept: 12/27/2019	Release:
Days Since LTI: 628.00	Days Since RI: 628.00

Job:	ODR
Report Date:	1/1/2020
Report #:	8
DFS:	6
AFE #:	9007539
Total AFE + Sup:	\$2,980,212.12
Daily Field Est. (Cost):	\$55,873.07

Daily Drilling Report

Daily Drilling Report

UNIVERSITY 7-8H 8H						PERMIAN ASSET TEAM	
H & P #429						Job:	ODR
Accept: 12/27/2019						Report Date:	1/2/2020
Release:						Report #:	9
Days Since LTI: 629.00						DFS:	7
Days Since RI: 629.00						AFE #:	9007539
						Total AFE + Sup:	\$2,980,212.12
						Daily Field Est. (Cost):	\$334,887.27

PPI/UWI 42-003-48187-0000		Well Profile HORIZONTAL		Open Formation MIDDLE SPRABERRY (SPBY M A1)		Field Name SPRABERRY (TREND AREA)								
SSN ID00036582		Property Sub	KB-Grd (ft) 26.50	Orig KB Elev (ft) 3,000.50	Ground Elevation (ft) 2,974.00	Spud Date 12/8/2019		TD Date						
Safety Checks														
Time	Type	Des	Tour		Com									
06:00	MEETING	PRE-TOUR	DAY		R2LB #3 Confined Space Entry Core Value #3 Safety. Discussed RU and run csg.									
06:01	PROACTIVE MEASURES	WEEKLY TRENDS REVIEWED	DAY		RTM raised PDS in to closed V door gate. Reminded all RTMs about this danger.									
18:00	MEETING	PRE-TOUR	NIGHT		R2LB #3 Confined Space Entry Core Value #3 Safety. Discussed cmt, ND, and skid.									
18:01	PROACTIVE MEASURES	WEEKLY TRENDS REVIEWED	NIGHT		RTM raised PDS in to closed V door gate. Reminded all RTMs about this danger.									
22:30	PROACTIVE MEASURES	STOP CARD - NON PNR	NIGHT		After climbing ladder to RU cmt head, it was noticed that work would have to be done at an unsafe ht. Job was stopped and cementer put on harness and boseman chair. Tools that could be tethered were gathered to use and the risks of working at heights (and undenreath) were covered. Job was then completed safely.									
Jobs														
Responsible Grp 2		Responsible Grp 3		Job Type	Start Date		End Date	Job Status						
DRL ENG - JOHN GARZA		AREA TEAM 1		ODR	12/8/2019 18:00			IN PROGRESS						
Job Dates (ex. Estimated Pad Release, TXRRC Calls)														
Type			Subtype		Date		Note							
MILESTONE			ESTIMATED PAD RELEASE		2/20/2020		Updated 12/29/19							
Type TXRRC CALL			Subtype CEMENT INT		Date 1/1/2020		Note Ashlynn operator #4							
Daily Operations														
Footage/Meterage (ft) 0.00		Drilling Hours (hr)		% Rotating Time (%)		End Depth (ftKB) 6,254.0	Target Depth (ftKB) 19,398.0	Daily Field Est Total (Cost) 334,887.27	Cum Field Est To Date (Cost) 1,010,523.11					
24 HR ROP (ft/hr)		Circulating Hours (hr) 0.25		% Sliding Time (%)		End Depth (TVD) (ftKB) 6,139.8	Target Depth (TVD) (ftKB) 8,915.0	Daily Mud Field Est (Cost) 3,941.54	Cum Mud Field Est (Cost) 18,074.30	Total AFE + Sup (Cost) 2,980,212.12				
Daily Goal Description DRILLED FEET				Daily Goal - Last 24 0.0			Daily Goal - Next 24 0.0		Goal Comments Goal Met					
Backbuild Yes	Lateral Inclination Toe Flat	Last Casing String INTERMEDIATE, 6,236.0ftKB					Next Casing String PROPOSED PRODUCTION, 19,324.0ftKB							
Avg Connection Gas 0.00		Avg Trip Gas 28.00		Avg Background Gas 16.00		Max Connection Gas 0.00		Max Trip Gas 28.00		Max Drill Gas 0.00				
Operations Summary LD BHA, RU Csg Equipment, Run 9-5/8" Csg, Circulate, Cement Intermediate, WOC, Lift stack and set emergency slips.														
Operations Next Report Period Release Rig to the University 7-8G 7H.														
Operations at Report Time Setting emergency slips on intermediate casing.														
Remarks No incidents or spills reported. NPT today 4 hrs, hrs total for well - 10.75 Hrs Surface 100%, Inter 100%, Curve 0% Lateral 0%														
Time Log														
Start Time	Dur (hr)	End Time	Phase	Operation	Ops Category	Com		Start Depth (ftKB)	End Depth (ftKB)	Prob Hrs (hr)	Prob Ref #			
06:00	0.5	06:30	INT, POST DRL	LD_DIR	NORMAL	L/d down Mtr and stb		6,254.0	6,254.0					
06:30	0.5	07:00	INT, POST DRL	WRBSH	NORMAL	Retrieve WB & pull M/hole		6,254.0	6,254.0					
07:00	0.25	07:15	INT, CASE & CMT	SFTY	NORMAL	PJSM/JSA on R/up and run Csg		6,254.0	6,254.0					
07:15	1.25	08:30	INT, CASE & CMT	RU_CSG	NORMAL	R/up Weatherford Csg Equipment		6,254.0	6,254.0					
08:30	0.25	08:45	INT, CASE & CMT	MU_SHOE_TR K	NORMAL	Make up 2 jt ST and test floats		6,254.0	6,254.0					
08:45	8.75	17:30	INT, CASE & CMT	CSG_W/O ROTATION	NORMAL	Run and land Csg f/ 126' - 6236' with calculated pipe disp. Fill on fly and break circ every 40 jts.		6,254.0	6,254.0					
17:30	1.25	18:45	INT, CASE & CMT	CSG_W/WASH	HOLE CONDITIO N	PU landing jt and tag up 10' high. Begin washing fill and made 2 ft in 1.5 hrs. Decision was made to cmt in place.		6,254.0	6,254.0	1.25	4			
18:45	1.25	20:00	INT, CASE & CMT	CIRC	NORMAL	Finish circulating 1.5 csg volumes @ 8 bpm.		6,254.0	6,254.0					
20:00	0.25	20:15	INT, CASE & CMT	RD_CSG	NORMAL	RD CRT.		6,254.0	6,254.0					
20:15	0.25	20:30	INT, CASE & CMT	SFTY	NORMAL	PJSM on cmt job w/ PNR, HP, SLB, and SAT.		6,254.0	6,254.0					
20:30	1	21:30	INT, CASE & CMT	RU_CMT	NORMAL	RU swedge, cmt head, and iron.		6,254.0	6,254.0					
Daily Drilling Report											Page 1/4		Printed: Thursday, January 2, 2020	

Daily Drilling Report

Time Log																	
Start Time	Dur (hr)	End Time	Phase	Operation	Ops Category	Com						Start Depth (ftKB)	End Depth (ftKB)	Prob Hrs (hr)	Prob Ref #		
21:30	3.25	00:45	INT, CASE & CMT	CMT	NORMAL	Pump cmt as follows: Pump 20 bbls fresh water to flush through lines. Pressure tested lines. Pump 50 bbls Mud Push Express at 10.8 ppg, Followed by 425 bbls of 11.0 ppg class H lead cement, 55 bbls of 11.5 ppg Middle, and 41 bbl's of 14.8 ppg class H tail cement. Dropped plug and displaced with 467 bbls 8.3 ppg fresh water. Bumped plug with 1800 psi, 600 psi over final circulation pressure of 1170 psi. Had full returns through out job and got 237 bbls CMT back.						6,254.0	6,254.0				
00:45	4	04:45	INT, CASE & CMT	WAIT	NORMAL	Wait on cmt to set up per lab test results. Prepare stack for ND and lifting. Prepare rig for skid.						6,254.0	6,254.0	4.00	5		
04:45	0.25	05:00	INT, CASE & CMT	SFTY	NORMAL	PJSM on ND, lift stack, and set emergency slips / packoff.						6,254.0	6,254.0				
05:00	0.5	05:30	INT, CASE & CMT	ND_BOPE	NORMAL	ND quick connect and lift stack.						6,254.0	6,254.0				
05:30	0.5	06:00	INT, CASE & CMT	WH	NORMAL	Set emergency casing slips.						6,254.0	6,254.0				
Interval Problems																	
DOWNHOLE CONDITIONS, 6,254.0ftKB, 1/1/2020 17:30																	
Ref #	Dur (N...)	Ex...	Subtype	Problem Descript...	Est Cost OR (Cost)	Accountable Party			Comment								
4	1.25	No	STUCK	CASING		PIONEER NATURAL RESOURCES USA INC			PU landing jt and tag up 10' high. Begin washing fill and made 2 ft in 1.5 hrs. Decision was made to cmt in place and set emergency slips.								
3RD PARTY, 6,254.0ftKB, 1/2/2020 00:45																	
Ref #	Dur (N...)	Ex...	Subtype	Problem Descript...	Est Cost OR (Cost)	Accountable Party			Comment								
5	4.00	No	CEMENT	WAIT ON CEMENT		PIONEER NATURAL RESOURCES USA INC			Wait on cmt to set up (per lab results) before ND BOPs to set emergency slips.								
Drill Strings																	
BHA #2 , INTERMEDIATE																	
Bit Run				Drill Bit						Bit Type				Make			
2				12 1/4in, CF716, 50937						PDC				ULTERRA			
Nozzles (1/32")				Bit Total Fluid Area (nozzles) (in²)			IADC Bit Dull			Hours Drilled By Bit (hr)			Depth Drilled By Bit (ft)				
12/12/12/12/12/12/12				0.77			1-2-CT-G-X-0-NO-TD			34.25			4,293.50				
BHA Drilling Time (hr)				BHA Depth Drilled (ft)			BHA ROP (ft/hr)			Depth In (ftKB)			Depth Out (ftKB)				
34.25				4,293.50			125.4			1,960.5			6,254.0				
Drill String Components																	
Jts	Item Des				OD (in)	ID (in)	Len (ft)	Cum Len (ft)	Wt (lbf)	Cum Wt (1000lbf)	Make						
140	DRILL PIPE				5	4.27	5,132.68	6,254.00	100,087.3	130							
15	HWDP - SPIRALED				5	3.00	457.99	1,121.32	22,578.9	30	OTHER (PROVIDE DESCRIPTION)						
1	DRILLING JARS - MECHANICAL				6 3/4	3.00	31.30	663.33		8	SMITH						
5	HWDP - SPIRALED				5	3.00	152.67	632.03	7,526.6	8	OTHER (PROVIDE DESCRIPTION)						
1	SUB - XO				7	2.75	2.71	479.36		0	OTHER (PROVIDE DESCRIPTION)						
9	DRILL COLLAR - NON MAG, SPIRALED				5	3.00	270.99	476.65		0	OTHER (PROVIDE DESCRIPTION)						
1	REAMER				8	2.88	4.50	205.66		0	NOV						
3	DRILL COLLAR - SPIRALED				8 1/4	2.88	90.33	201.16		0	OTHER (PROVIDE DESCRIPTION)						
1	SUB - XO				7 15/16	3.00	1.98	110.83		0	OTHER (PROVIDE DESCRIPTION)						
1	DRILL COLLAR - NON MAG				8 1/16	3.31	30.32	108.85		0	QES						
1	DRILL COLLAR - NON MAG				8	3.31	28.32	78.53		0	QES						
1	SUB - UBHO				8	3.06	2.57	50.21		0	QES						
1	STABILIZER				8	2.88	7.82	47.64		0	QES						
1	MOTOR - STABILIZER SLEEVE				7 15/16	2.25	38.32	39.82		0	QES						
Mud Motors																	
SN			Bend Angle		Bearing Type		Lobe Config		# Stages		Lwr Defin Type		Bit To Bend				
963-330			1.75		NOT SEALED		7:8		5.9				6.39				
Sensors																	
Sensor Type				Sensor-Bit (ft)				Note									
GAMMA				57.00													
D&I (INC/AZI)				70.00													
Drilling Parameters																	
Start Time	End Time	Start Depth (ftKB)	Int Depth (ft)	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	ROP Average (ft/hr)	Drill Str Wt (1000lbf)	PU Str Wt (1000lbf)	SO Str Wt (1000lbf)	Off-Btm Str Wt (1000lbf)	Drill Tq	Off Btm Tq	TFO (°)
06:00	06:15	6,254.0	0.00		0	70	0.0	800	3,000.0	0.0	150	145	140	148	0.0	9.0	0
Daily Drilling Report																	
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Daily Drilling Report

UNIVERSITY 7-8H 8H						PERMIAN ASSET TEAM					
H & P #429						Job:	ODR				
Accept: 12/27/2019						Report Date:	1/2/2020				
Days Since LTI: 629.00						Report #:	9				
Release:						DFS:	7				
Days Since RI: 629.00						AFE #:	9007539				
						Total AFE + Sup:	\$2,980,212.12				
						Daily Field Est. (Cost):	\$334,887.27				

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)		
10.70	10.83	498.5	4.2	332.0	1,068.2	22.4	239.1	100.59	518.32	250.06		
Mud Checks												
Time 06:00		Mud Company PIONEER DRILLING FLUIDS			Type DIRECT EMULSION		Depth (ftKB) 6,254.0		Density (lb/gal) 10.70		Funnel Viscosity (s/qt) 46	T Flowline (°F) 88.0
PV (cP) 12.0	YP (lb/100ft²) 9.000	Vis 3rpm 6	Vis 6rpm 7	Filtrate (mL/30min) 17.0		HTHP Filtrate (mL/30min)		HTHP Temperature (°F)		HTHP Pressure (psi)		
Solids (%) 31.0		Low Gravity Solids (%) 16.0		Sand (%)		MBT (lb/bbl) 7.5		Pm (mL/mL) 1.200		Pf (mL/mL)		
Chlorides (ppm) 171,000,000.000		Calcium (ppm) 1,400.000		CaCl (ppm)	Oil Water Ratio 19.6/80.4		Electric Stab (V)		Lime (lb/bbl) 0.2		pH 10.5	
Gel 10 sec (lb/100ft²) 10.000				Gel 10 min (lb/100ft²) 18.000				Gel 30 min (lb/100ft²) 19.000				
Comment DRILLING FLUIDS ACTIVITY LAST 24 HRS Transferred 6300 gal diesel into the mineral oil section on the report so it will calculate correctly as Diesel in the Daily Volume Additions section of the report. Received 7,400 gal of mud diesel from O'Rourke Petroleum. Received WBM chemicals from Buckeye. Checked reserve pit MW and Chlorides: 8.9ppg/ 50,000 mg/L. Received 300bbl brine for volume.												
RECOMMENDED FLUIDS TREATMENT Finish partial pallet of Soda Ash and add to the active pits while running casing in the hole. Add 10 sacks - Caustic Soda. Maintain MW at 10.6ppg while running casing.												
RIG ACTIVITY LAST 24 HOURS Finished POOH. R/U casing tools and run 9.625" intermediate casing to 6,236'. R/D casing tools and R/U cementing euipment. Circulating casing volume at time of report.												
Last BOP Test												
Date	Test Type			Item Tested		Next Test Date		Com				
12/29/2019	BOP			BOP'S, 12/27/2019 06:00, <class>		1/19/2020		Full BOP test w/ 5" DP: VBRs, Blinds, kill line valves, HCR / manual choke line valve, 4" stand pipe valve , 4" mud pump valves, TIW and IBOP, and all associated valves on choke manifold to 250 psi low and 5000 psi high. Test Annular 250 psi low and 3500 psi high. Test mudline back to MPs to 6325 psi.				
Leak Off and Formation Integrity Tests												
Test Type				Depth (ftKB)				Dens Fluid (lb/gal)				
FORMATION INTEGRITY				1,940.0				13.27				
Casing Pressure Test												
Test Type		Test Subtype			Date		Item Tested		Failed?	Time (min)	P (psi)	
CASING		STANDARD			12/10/2019		SURFACE, 1,939.8ftKB		No	30.00	1,000.0	
Kick Offs & Key Depths												
Date				Type				Top Depth (ftKB)				
Casing Strings												
Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)		Grade	Wt/Len (lb/ft)		Top Thread	P LeakOff (psi)			
CONDUCTOR	106.5	106.5	20		H40	78.67						
SURFACE	1,939.8	1,939.0	13 3/8		J55	54.50		BTC	1,336.7			
INTERMEDIATE	6,236.0	6,122.2	9 5/8		L80-IC	40.00		BTC				
Cement												
INTERMEDIATE CASING CEMENT, Casing, 1/1/2020 21:30												
Cementing End Date 1/2/2020 00:38	Wellbore ORIGINAL	Technical Result SUCCESS	Comment Pump cmt as follows: Pump 20 bbls fresh water to flush through lines. Pressure tested lines. Pump 50 bbls Mud Push Express at 10.8 ppg, Followed by 425 bbls of 11.0 ppg class H lead cement, 55 bbls of 11.5 ppg Middle, and 41 bbl's of 14.8 ppg class H tail cement. Dropped plug and displaced with 467 bbls 8.3 ppg fresh water. Bumped plug with 1800 psi, 600 psi over final circulation pressure of 1170 psi. Had full returns through out job and got 237 bbls CMT back.									
Cement Stages												
Description INTERMEDIATE CASING CEMENT Stg 1	Final Top De...	Btm (ftKB)	Top Pl...	Btm Pl...	Q Pump Init (...)	Q Pump Fina...	Q Pump Avg...	P Pump Final...	P Plug Bump...	Float...	Recip?	Rotated?
	30.5	6,236.0	Yes	No	8	4	8	1,170.0	1,805.0	No	No	No
Cement Fluids												
Fluid Type SPACER			Estimated Top (ftKB)	Est Btm (ftKB)	Class CLASS C			Yield (ft³/sack)	Density (lb/gal)			
			30.5	30.5				0.00	10.50			
Fluid Type LEAD CMT			Estimated Top (ftKB)	Est Btm (ftKB)	Class CLASS C POZ			Yield (ft³/sack)	Density (lb/gal)			
			30.5	4,991.0				2.76	11.00			
Fluid Type LEAD CMT			Estimated Top (ftKB)	Est Btm (ftKB)	Class CLASS C			Yield (ft³/sack)	Density (lb/gal)			
			4,991.0	5,772.0				2.33	11.50			
Fluid Type TAIL CMT			Estimated Top (ftKB)	Est Btm (ftKB)	Class CLASS C			Yield (ft³/sack)	Density (lb/gal)			
			5,772.0	6,236.0				1.33	14.80			
Fluid Type DSPLMT			Estimated Top (ftKB)	Est Btm (ftKB)	Class FRESH WATER			Yield (ft³/sack)	Density (lb/gal)			
			30.5	6,146.0					8.30			
Job Supply Amounts												
Supply Item Des		Type	Unit Label	Received	Consumed	Returned	Note			Cum On Loc	Cum Consumed	
DIESEL		FUEL	GAL	0	1,957					8,496	8,343.0	
DIESEL		MUD	GAL	7,400	3,686					10,014	12,116.0	
WATER		FRESH	BBL	0	0					0	0.0	
Mud Additive Amounts												
Des		Type	Units		Rec	Consumed		On Loc	Cum Cons			
BARITE - SACK		WEIGHTING MATERIAL	LB			75		185.0	95			
BCI OBM PRIMARY		OIL MUD ADDITIVE	DRUM			1		12.0	4			
CAUSTIC SODA		ALKALINITY CONTROL	LB			13		93.0	17			
Daily Drilling Report												

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Printed: Thursday, January 2, 2020

Daily Drilling Report

H & P #429

Accept: 12/27/2019

Days Since LTI: 629.00

Release:

Days Since RI: 629.00

PERMIAN ASSET TEAM**Job:**

ODR

Report Date:

1/2/2020

Report #:

9

DFS

7

AFE #:

9007539

Total AFE + Sup:

\$2,980,212.12

Daily Field Est. (Cost):

\$334,887.27

Pump Operations						
Pump #	Make	Model	Liner Size (in)	Stroke (in)	Vol/Stk (bbl/stk)	P Max (psi)
1	GARDNER-DENVER	PZ-11-1600	5 1/2	11.00	0.081	6,341.0
2	GARDNER-DENVER	PZ-11-1600	5 1/2	11.00	0.081	6,341.0
3	GARDNER-DENVER	PZ-11-1600	5 1/2	11.00	0.081	6,341.0

Deviation Surveys		
Date	Description FINAL SURVEY	Job
Date 12/9/2019	Description AS DRILL SURVEY	Job ODR, 12/8/2019 18:00

Daily Contacts				
Job Contact	Title	Office	Mobile	Email
HARDIN, JOE, AREA DRILLING SUPERINTENDENT	AREA DRILLING SUPERINTENDENT	361-452-2118	361-318-8762	JOE.HARDIN@PXD.COM
DAFFRON, MIKE, SUPERINTENDENT	SUPERINTENDENT	432-360-4057	318-243-5902	MIKE.DAFFRON@PXD.COM
GARZA, JOHN, ENGINEER	ENGINEER		469-286-7746	JOHN.GARZA@PXD.COM
BERRY, DERRICK, WELLSITE SUPERVISOR	WELLSITE SUPERVISOR	325-884-2719	806-300-7110	DERRICK.BERRY@PXD.COM
LAZURE, DAVE, WELLSITE SUPERVISOR	WELLSITE SUPERVISOR		281-734-3470	DAVE.LAZURE@PXD.COM
JACOBS, TUCKER, ENGINEER	ENGINEER	972-444-9001	361-318-6782	TUCKER.JACOBS@PXD.COM
GARCIA, PAUL, MUD ENGINEER	MUD ENGINEER		361-726-8262	PAUL.GARCIA@PXD.COM
RIG-H&P 429, RIG PHONE	RIG PHONE	432-355-3032	432-653-9482	

This image shows a completely blank white rectangular area, which appears to be a scanned piece of paper. It is surrounded by a thin black border, likely from the scanner or the frame. There are no markings, text, or illustrations on the surface.

Daily Drilling Report

Accept: 12/27/2019	Release: 1/2/2020
Days Since LTI: 630.00	Days Since RI: 630.00

Job:	ODR
Report Date:	1/2/2020
Report #:	10
DFS:	8
AFE #:	9007539
Total AFE + Sup:	\$2,980,212.12
Daily Field Est. (Cost):	\$44,954.50

Printed: Friday, January 3, 2020

Daily Drilling Report

Last BOP Test								
Date	Test Type	Item Tested	Next Test Date	Com				
12/29/2019	BOP	BOP'S, 12/27/2019 06:00, <class>	1/19/2020	Full BOP test w/ 5" DP: VBRs, Blinds, kill line valves, HCR / manual choke line valve, 4" stand pipe valve , 4" mud pump valves, TIW and IBOP, and all associated valves on choke manifold to 250 psi low and 5000 psi high. Test Annular 250 psi low and 3500 psi high. Test mudline back to MPs to 6325 psi.				
Leak Off and Formation Integrity Tests								
Test Type		Depth (ftKB)		Dens Fluid (lb/gal)				
FORMATION INTEGRITY		1,940.0		13.27				
Casing Pressure Test								
Test Type	Test Subtype	Date	Item Tested	Failed?	Time (min)	P (psi)		
CASING	STANDARD	12/10/2019	SURFACE, 1,939.8ftKB	No	30.00	1,000.0		
Kick Offs & Key Depths								
Date		Type			Top Depth (ftKB)			
Casing Strings								
Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)	
CONDUCTOR	106.5	106.5	20	H40	78.67			
SURFACE	1,939.8	1,939.0	13 3/8	J55	54.50	BTC	1,336.7	
INTERMEDIATE	6,236.0	6,122.2	9 5/8	L80-IC	40.00	BTC		
Job Supply Amounts								
Supply Item Des	Type	Unit Label	Received	Consumed	Returned	Note	Cum On Loc	Cum Consumed
DIESEL	FUEL	GAL			8,496	Transferred to 'UNIVERSITY 7-8G 7H'	0	8,343.0
DIESEL	MUD	GAL			10,014	Transferred to 'UNIVERSITY 7-8G 7H'	0	12,116.0
Mud Additive Amounts								
Des	Type	Units	Rec	Consumed	On Loc	Cum Cons		
Pump Operations								
Pump #	Make	Model	Liner Size (in)	Stroke (in)	Vol/Stk (bbl/stk)	P Max (psi)		
1	GARDNER-DENVER	PZ-11-1600	5 1/2	11.00	0.081	6,341.0		
2	GARDNER-DENVER	PZ-11-1600	5 1/2	11.00	0.081	6,341.0		
3	GARDNER-DENVER	PZ-11-1600	5 1/2	11.00	0.081	6,341.0		
Pump Checks								
Pump #	Depth (ftKB)	Time	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)		
Deviation Surveys								
Date	Description	Job						
	FINAL SURVEY							
Date	Description	Job						
12/9/2019	AS DRILL SURVEY	ODR, 12/8/2019 18:00						
Formations								
Formation Name	Prog Top (TVD SS) Override (ft(elv))	Prog Top MD (ftKB)	Prog Top (TVD) (ftKB)	Final Top MD (ftKB)	Final Top (TVD) (ftKB)			
RECOMMENDED ICP1	-3,141.0		6,141.5					
264_0_Top_Brushy_Canyon	-3,380.0		6,380.5					
264_5_Mid_Brushy_Canyon	-3,669.0		6,669.5					
265_0_CLEARFORK/POP	-3,834.0		6,834.5					
267_0_SPBY_U_A1/UPPER SPRABERRY	-5,450.0		8,450.5					
267_5_SPBY_M_A1	-5,775.0		8,775.5					
FIRST TAKE POINT (FTP)	-5,953.0		8,953.5					
TARGET #1	-5,996.0		8,996.5					
PBHL/TD =	-5,915.0		8,915.5					
Daily Contacts								
Job Contact	Title	Office	Mobile	Email				
HARDIN, JOE, AREA DRILLING SUPERINTENDENT	AREA DRILLING SUPERINTENDENT	361-452-2118	361-318-8762	JOE.HARDIN@PXD.COM				
DAFFRON, MIKE, SUPERINTENDENT	SUPERINTENDENT	432-360-4057	318-243-5902	MIKE.DAFFRON@PXD.COM				
GARZA, JOHN, ENGINEER	ENGINEER		469-286-7746	JOHN.GARZA@PXD.COM				
BERRY, DERRICK, WELLSITE SUPERVISOR	WELLSITE SUPERVISOR	325-884-2719	806-300-7110	DERRICK.BERRY@PXD.COM				
LAZURE, DAVE, WELLSITE SUPERVISOR	WELLSITE SUPERVISOR		281-734-3470	DAVE.LAZURE@PXD.COM				
JACOBS, TUCKER, ENGINEER	ENGINEER	972-444-9001	361-318-6782	TUCKER.JACOBS@PXD.COM				
GARCIA, PAUL, MUD ENGINEER	MUD ENGINEER		361-726-8262	PAUL.GARCIA@PXD.COM				
RIG-H&P 429, RIG PHONE	RIG PHONE	432-355-3032	432-653-9482					
Personnel Log								
Company						Count		
PIONEER NATURAL RESOURCES USA INC						3		
HELMERICH & PAYNE INTERNATIONAL DRILLING CO						13		
QES DIRECTIONAL DRILLING LLC						4		
DWM CONSULTING						1		
GISLER BROTHERS LOGGING CO INC						1		
Daily Drilling Report				Page 2/2		Printed: Friday, January 3, 2020		