

Daily Drilling Report

UNIVERSITY 10-11C 3H

ENSIGN - 133

Accept: 12/5/2020Release:Days Since LTI: 186.00Days Since RI: 186.00

PERMIAN - JV SOUTHERN WOLFCAMP

Job: ODRReport Date: 12/16/2020Report #: 13DFS: 12AFE #: 9009120Total AFE + Sup: \$2,683,002.54Daily Field Est. (Cost): \$94,693.90

API/UWI 42-383-40858-0000		Well Profile HORIZONTAL		Open Formation WOLFCAMP A2 (WFMP A2)		Field Name SPRABERRY (TREND AREA)					
SSN ID00017688	Property Sub	KB-Grd (ft) 25.00	Orig KB Elev (ft) 2,668.00	Ground Elevation (ft) 2,643.00	Spud Date 11/11/2020		TD Date				
Safety Checks											
Time	Type	Des	Tour	Com							
Jobs											
Responsible Grp 2		Responsible Grp 3		Job Type	Start Date		End Date		Job Status		
DRL ENG - JACKIE LUTHER		AREA TEAM 4		ODR	11/11/2020 17:30				IN PROGRESS		
Job Dates (ex. Estimated Pad Release, TXRRC Calls)											
Type			Subtype		Date		Note				
MILESTONE			ESTIMATED PAD RELEASE		1/17/2021		Drilling production lateral on well 1 of 3, sequentially.				
Daily Operations											
Footage/Meterage (ft) 3,516.00		Drilling Hours (hr) 23.00		% Rotating Time (%) 72.83	End Depth (ftKB) 17,997.0		Target Depth (ftKB) 20,511.0	Daily Field Est Total (Cost) 94,693.90		Cum Field Est To Date (Cost) 1,457,751.58	
24 HR ROP (ft/hr) 152.9		Circulating Hours (hr) 1.00		% Sliding Time (%) 27.17	End Depth (TVD) (ftKB) 7,624.9		Target Depth (TVD) (ftKB) 7,643.0	Daily Mud Field Est (Cost) 7,289.08	Cum Mud Field Est (Cost) 63,393.73	Total AFE + Sup (Cost) 2,683,002.54	
Daily Goal Description DRILLED FEET			Daily Goal - Last 24 3,000.0			Daily Goal - Next 24 2,457.0			Goal Comments Exceeded goal 17% Limiter sliding formation push		
Backbuild Yes	Lateral Inclination Toe Flat	Last Casing String INTERMEDIATE, 6,972.0ftKB					Next Casing String PRODUCTION, 20,498.0ftKB				
Avg Connection Gas 855.00		Avg Trip Gas 0.00		Avg Background Gas 742.00		Max Connection Gas 1,204.00		Max Trip Gas 0.00		Max Drill Gas 1,306.00	
Operations Summary Drilled production lateral as per Directional Plan #2 F/ 14,481' T/ 17,997' (27.17% sliding, 1.41 avg DLS, 2' above and OTL L/R of the line). w/ no HSE incidents.											
Operations Next Report Period Drill production lateral to TD 20,457' as per Directional Plan #2, target line #5 w/ no HSE incidents.											
Operations at Report Time Drilling production lateral at 17,997'											
Remarks Surface - 100% Intermediate - 100% Production Curve - 100% Production Lateral - 80%											
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	8.75	14:45	PROD, DRL LAT	DRL	NORMAL	Drill F/ 14,481' T/ 16,082' (4,277' @ 183 fph)		14,481.0	16,082.0		
14:45	0.5	15:15	PROD, DRL LAT	RIG_SVC	NORMAL	Rig Service		16,082.0	16,082.0		
15:15	13	04:15	PROD, DRL LAT	DRL	NORMAL	Drill F/ 16,082' T/ 17,719' (1,637' @ 125.9 fph)		16,082.0	17,719.0		
04:15	0.5	04:45	PROD, DRL LAT	RIG_SVC	NORMAL	Serviced rig		17,719.0	17,719.0		
04:45	1.25	06:00	PROD, DRL LAT	DRL	NORMAL	Drill F/ 17,719' T/ 17,997' (278 @ 185.33 fph)		17,719.0	17,997.0		
Drill Strings											
BHA #4 , PRODUCTION - LATERAL											
Bit Run 4			Drill Bit 8 1/2in, *ADD MODEL TO PICK LIST – TYPE MODEL TO BE ADDED IN COMMENT FIELD, 5314184				Bit Type PDC		Make GE/BAKER HUGHES		
Nozzles (1/32") 16/16/16/11/11			Bit Total Fluid Area (nozzles) (in²) 0.77		IADC Bit Dull -----		Hours Drilled By Bit (hr) 53.25		Depth Drilled By Bit (ft) 9,160.00		
BHA Drilling Time (hr) 53.25			BHA Depth Drilled (ft) 9,160.00		BHA ROP (ft/hr) 172.0		Depth In (ftKB) 8,837.0		Depth Out (ftKB) 17,997.0		
Drill String Components											
Jts	Item Des			OD (in)	ID (in)	Len (ft)	Cum Len (ft)	Wt (lbf)	Cum Wt (1000lbf)	Make	
3	DRILL PIPE			6 3/4	4.28	111.98	14,451.00	2,183.6	311	RIG	
33	HWDP			6 3/4	3.00	1,057.15	14,339.02	52,328.9	309	RIG	
156	DRILL PIPE			6 3/4	4.28	10,065.43	13,281.87	196,275.9	257	RIG	
1	AGITATOR			6 3/4	2.63	23.45	3,216.44		60	NOV	
68	DRILL PIPE			5	4.28	3,090.47	3,192.99	60,264.2	60	RIG	
1	DRILL COLLAR - NON MAG			6 3/4	3.25	30.44	102.52		0	GORDON	
1	DRILL COLLAR - NON MAG			6 3/4	3.25	30.87	72.08		0	GORDON	
1	SUB - UBHO			6 1/2	2.63	2.71	41.21		0	GORDON	
1	STABILIZER			6.8	2.88	5.32	38.50		0	DRILLING TOOLS INTERNATIONAL	
1	MOTOR - SLICK SLEEVE			6 3/4	2.50	32.18	33.18		0	PHOENIX	
Mud Motors											
SN	Bend Angle		Bearing Type	Lobe Config		# Stages		Lwr Defin Type		Bit To Bend	
24X165-55-PTS	1.75		SEALED	7:8		5.7				5	
Sensors											
Sensor Type			Sensor-Bit (ft)				Note				
GAMMA			49.09								
DIRECTIONAL			61.00								
Daily Drilling Report											

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<b>PERMIAN - JV SOUTHERN WOLFCAMP</b>	
<b>Job:</b>	<b>ODR</b>
<b>Report Date:</b>	<b>12/16/2020</b>
<b>Report #:</b>	<b>13</b>
<b>DFS:</b>	<b>12</b>
<b>AFE #:</b>	<b>9009120</b>
<b>Total AFE + Sup:</b>	<b>\$2,683,002.54</b>
<b>Daily Field Est. (Cost):</b>	<b>\$94,693.90</b>

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Daily Drilling Report

Mud Checks											
Time 23:00		Mud Company PIONEER DRILLING FLUIDS			Type OIL BASE		Depth (ftKB) 16,935.0		Density (lb/gal) 9.50	Funnel Viscosity (s/qt) 66	T Flowline (°F) 120.0
PV (cP) 18.0	YP (lb/100ft²) 12.000	Vis 3rpm 8	Vis 6rpm 9	Filtrate (mL/30min)		HTHP Filtrate (mL/30min) 12.5		HTHP Temperature (°F) 250.0		HTHP Pressure (psi) 500.0	
Solids (%) 11.5		Low Gravity Solids (%) 5.8		Sand (%)		MBT (lb/bbl)		Pm (mL/mL)		Pf (mL/mL)	
Chlorides (ppm) 37,000,000.000		Calcium (ppm)		CaCl (ppm)	Oil Water Ratio 72.9/27.1		Electric Stab (V) 691.0		Lime (lb/bbl) 4.1		pH
Gel 10 sec (lb/100ft²) 11.000				Gel 10 min (lb/100ft²) 16.000				Gel 30 min (lb/100ft²) 21.000			
Comment WELL MATERIALS COST DAILY COST \$ \$9,314.08 TOTAL WELL COST \$ \$93,952.08 RECOMMENDED FLUIDS TREATMENT DRILLING FLUIDS ACTIVITY LAST 24 HRS MW 9.5 - 10.0 ppg, Diesel - 2 sec/qt - 10.7 BPH, Water 5 sec/qt - 4.3 BPH Additions- Lime - 3.125 ppb, CACL - 3.125 ppb, Soltex - 1 ppb, Bentone 990 - 1 ppb, Bentone 910 - 1 ppb, Gilsonite 1 ppb, 1 Drum of BCI Wetting Agent - .2 ppb, 1 Drum of BCI Primary - .2 ppb Maintain mud weight at 9.5 - 9.6 ppg. Dusting up as needed to keep weight up. Continue to build volume with diesel and water additions. Treatments to mud are done in the slug pit. Change shaker screens as needed for solids control. Still not using cnetrifuge as we are adding diesel and water for volume.  WELL VOLUMES RECAP Daily Diesel Used 11,672 GAL Cumulative Diesel Used 37,804 GAL Daily OBM Surface Losses 155 BBL Daily OBM Downhole Losses BBL Cumulative OBM Surface Losses874 BBL Cumulative OBM Downhole Losses BBL OBM Volume Accounting2,566 BBL Total OBM Received BBL Total OBM on Location 2,566 BBL Daily Water Used 110 BBL Cumulative Water Used 509 BBL RIG ACTIVITY LAST 24 HOURS Drilling ahead f/ 13,281 t/ 19,635. Drilling ahead lateral. Maintain pit volume, weight and properties of mud system. ROP 362, WOB 45.7, RPM 59, Torque 25244, Diff 672, P/U 220 S/O 145 Conn Gas, 207, BG Gas 336, Max Gas 1306. Lithology 16,750 100% Shale, Tr Pyrite.											
Last BOP Test											
Date	Test Type			Item Tested			Next Test Date		Com		
12/7/2020	BOP			BOP'S, 12/5/2020 06:00, U			12/28/2020		Tested BOP 250 low 5000 high		
Leak Off and Formation Integrity Tests											
Test Type			Depth (ftKB)				Dens Fluid (lb/gal)				
FORMATION INTEGRITY			1,027.0				12.51				
FORMATION INTEGRITY			6,972.0				11.00				
Casing Pressure Test											
Test Type		Test Subtype			Date		Item Tested		Failed?	Time (min)	P (psi)
CASING		STANDARD			11/22/2020		SURFACE, 1,027.7ftKB		No	30.00	1,000.0
CASING		STANDARD			12/12/2020		INTERMEDIATE, 6,972.0ftKB		No	30.00	2,500.0
Kick Offs & Key Depths											
Date			Type			Top Depth (ftKB)		Depth Top (TVD) (ftKB)			
12/12/2020 06:30			KICK OFF			7,066.0		7,000.0			
12/13/2020 02:15			HEEL			8,066.0		7,603.8			
Casing Strings											
Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)				
CONDUCTOR	125.0		20	H40	78.67						
SURFACE	1,027.7	1,027.1	13 3/8	K55	54.50	BTC	667.2				
INTERMEDIATE	6,972.0	6,906.0	9 5/8	L80-IC	40.00	BTC	3,946.4				
Job Supply Amounts											
Supply Item Des		Type	Unit Label	Received	Consumed	Returned	Note	Cum On Loc	Cum Consumed		
DIESEL		MUD	GAL	14,612	11,672			13,860	37,806.0		
DIESEL		FUEL	GAL		2,771	0	Rig Fuel	4,768	20,090.0		
WATER		FRESH	BBL	66	66		Water Meter Reading 76706	0	6,391.0		
Mud Additive Amounts											
Des		Type	Units	Rec	Consumed	On Loc	Cum Cons				
BARITE - BULK		WEIGHTING MATERIAL	CWT		11	44.0	22				
BCI OBM PRIMARY		OIL MUD ADDITIVE	GAL		1	9.0	4				
BCI OBM WETTING AGENT		OIL MUD ADDITIVE	GAL	8	1	16.0	4				
BENTONE 910		OIL MUD ADDITIVE	GAL	40	11	125.0	93				
BENTONE 990		OIL MUD ADDITIVE	LB	40	13	132.0	68				
CALCIUM CHLORIDE		SALT	LB	342	42	300.0	137				
GILSONITE		FLUID LOSS ADDITIVES	LB		10	165.0	85				
LIME		ALKALINITY CONTROL	LB		50	210.0	245				
PALLETS		MISCELLANEOUS	EA	14	14	0.0	86				
Daily Drilling Report											

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Mud Additive Amounts							
Des	Type	Units	Rec	Consumed	On Loc	Cum Cons	
SHRINK WRAP	SERVICE	EA	10	10	0.0	73	
SOLTEX	FLUID LOSS ADDITIVES	LB	80	10	150.0	90	
Pump Operations							
Pump #	Make	Model	Liner Size (in)	Stroke (in)	Vol/Stk (bbl/stk)	P Max (psi)	
1	H&H	1600	5 1/2	12.00	0.088	6,000.0	
2	H&H	1600	5 1/2	12.00	0.088	6,000.0	
3	H&H	1600	5 1/2	12.00	0.088	6,000.0	
Pump Checks							
Pump #	Depth (ftKB)	Time	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)	
1	17,720.0	04:00	850.0	40	141	95	
1	17,720.0	04:00	750.0	30	106	95	
1	17,720.0	04:00	1,050.0	50	176	95	
2	17,720.0	04:00	850.0	40	141	95	
2	17,720.0	04:00	1,000.0	50	176	95	
2	17,720.0	04:00	750.0	30	106	95	
Deviation Surveys							
Date	Description				Job		
	FINAL SURVEY						
Date	Description				Job		
11/11/2020	AS DRILL SURVEY				ODR, 11/11/2020 17:30		
Survey Data - All surveys for 24 hr reporting period							
MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	NS (ft)	EW (ft)	DLS (°/100ft)
14,509.00	89.48	0.71	7,613.63	6,667.94	6,654.72	720.22	1.73
14,598.00	90.04	0.33	7,614.00	6,756.93	6,743.71	721.03	0.76
14,686.00	89.98	359.06	7,613.99	6,844.90	6,831.71	720.56	1.44
14,775.00	89.42	0.11	7,614.45	6,933.86	6,920.71	719.92	1.34
14,864.00	89.64	0.66	7,615.18	7,022.85	7,009.70	720.52	0.67
14,954.00	90.23	1.42	7,615.28	7,112.85	7,099.69	722.15	1.07
15,043.00	89.14	0.59	7,615.77	7,201.85	7,188.67	723.71	1.54
15,132.00	90.26	1.19	7,616.24	7,290.84	7,277.65	725.09	1.43
15,221.00	89.67	0.15	7,616.29	7,379.84	7,366.65	726.13	1.34
15,310.00	90.29	0.30	7,616.32	7,468.82	7,455.65	726.48	0.72
15,399.00	89.70	0.84	7,616.33	7,557.82	7,544.64	727.37	0.90
15,487.00	90.40	1.64	7,616.26	7,645.82	7,632.62	729.27	1.21
15,578.00	89.95	0.40	7,615.98	7,736.82	7,723.60	730.89	1.45
15,669.00	89.50	359.45	7,616.41	7,827.79	7,814.60	730.77	1.16
15,757.00	89.50	1.43	7,617.18	7,915.78	7,902.59	731.45	2.25
15,846.00	90.37	2.91	7,617.28	8,004.76	7,991.52	734.82	1.93
15,935.00	89.87	2.96	7,617.10	8,093.72	8,080.40	739.38	0.56
16,026.00	89.64	1.40	7,617.49	8,184.70	8,171.33	742.84	1.73
16,116.00	89.64	0.07	7,618.05	8,274.69	8,261.32	743.99	1.48
16,207.00	89.62	1.35	7,618.64	8,365.69	8,352.31	745.12	1.41
16,298.00	89.98	1.31	7,618.96	8,456.68	8,443.29	747.23	0.40
16,389.00	90.12	0.06	7,618.88	8,547.68	8,534.28	748.32	1.38
16,479.00	90.06	358.36	7,618.74	8,637.62	8,624.27	747.08	1.89
16,570.00	89.34	0.81	7,619.21	8,728.58	8,715.26	746.42	2.81
16,661.00	89.76	0.16	7,619.93	8,819.57	8,806.25	747.19	0.85
16,752.00	90.04	2.40	7,620.09	8,910.56	8,897.22	749.22	2.48
16,843.00	90.32	1.20	7,619.80	9,001.56	8,988.17	752.08	1.35
16,934.00	89.95	2.13	7,619.59	9,092.55	9,079.13	754.72	1.10
17,024.00	90.15	1.33	7,619.51	9,182.55	9,169.09	757.44	0.92
17,115.00	90.18	3.42	7,619.25	9,273.52	9,260.01	761.21	2.30
17,206.00	90.01	3.22	7,619.09	9,364.46	9,350.86	766.48	0.29
17,296.00	89.78	1.08	7,619.26	9,454.44	9,440.79	769.86	2.39
17,387.00	89.81	2.57	7,619.58	9,545.43	9,531.74	772.76	1.64
17,479.00	90.37	3.33	7,619.44	9,637.38	9,623.61	777.49	1.03
17,570.00	89.62	3.52	7,619.45	9,728.31	9,714.45	782.93	0.85
17,661.00	89.22	3.29	7,620.37	9,819.24	9,805.29	788.33	0.51
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)
PBHL/TD			-4,975.0		7,643.0		
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		
LUTHER, JACKIE, ENGINEER		ENGINEER	972-969-5626	303-512-3803	JACKIE.LUTHER@PXD.COM		
BROWN, KEITH, SUPERINTENDENT		SUPERINTENDENT	972-313-9798	469-516-3137	KEITH.BROWN@PXD.COM		
VILLESCAS, BERNIE, SUPERINTENDENT		SUPERINTENDENT	432-571-2950	432-312-2088	BERNIE.VILLESCAS@PXD.COM		
JACOBS, TUCKER, ENGINEER		ENGINEER	972-444-9001	361-318-6782	TUCKER.JACOBS@PXD.COM		
COX, JASON, WELLSITE SUPERVISOR		WELLSITE SUPERVISOR		281-733-1241	JASON.COX@PXD.COM		
RIG-ENSIGN 133, RIG PHONE		RIG PHONE	432-355-3047	432-530-1214			
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<b>Job:</b>	<b>ODR</b>
<b>Report Date:</b>	<b>12/16/2020</b>
<b>Report #:</b>	<b>13</b>
<b>DFS:</b>	<b>12</b>
<b>AFE #:</b>	<b>9009120</b>
<b>Total AFE + Sup:</b>	<b>\$2,683,002.54</b>
<b>Daily Field Est. (Cost):</b>	<b>\$94,693.90</b>

Personnel Log	
Company	Count
PIONEER NATURAL RESOURCES USA INC	4
ENSIGN ENERGY SERVICES	13
PHOENIX TECHNOLOGY SERVICES USA INC	2
GORDON TECHNOLOGIES LLC	1
STRATAGRAPH INC	1
SAFETY AUTOMATION TECHNOLOGY LLC	1
HALLIBURTON ENERGY SERVICES INC	1

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UNIVERSITY 10-11C 3H

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Job: ODR  
Report Date: 12/17/2020  
Report #: 14  
DFS: 13  
AFE #: 9009120  
Total AFE + Sup: \$2,683,002.54  
Daily Field Est. (Cost): \$87,886.61

API/UWI 42-383-40858-0000		Well Profile HORIZONTAL		Open Formation WOLFCAMP A2 (WFMP A2)		Field Name SPRABERRY (TREND AREA)						
SSN ID00017688	Property Sub	KB-Grd (ft) 25.00	Orig KB Elev (ft) 2,668.00	Ground Elevation (ft) 2,643.00	Spud Date 11/11/2020	TD Date						
Safety Checks												
Time	Type	Des	Tour	Com								
Jobs												
Responsible Grp 2		Responsible Grp 3		Job Type	Start Date		End Date		Job Status			
DRL ENG - JACKIE LUTHER		AREA TEAM 4		ODR	11/11/2020 17:30				IN PROGRESS			
Job Dates (ex. Estimated Pad Release, TXRRC Calls)												
Type			Subtype		Date		Note					
MILESTONE			ESTIMATED PAD RELEASE		1/17/2021		Drilling production lateral on well 1 of 3, sequentially.					
Type TXRRC CALL			Subtype CEMENT PROD		Date 12/17/2020		Note Op #14 Jani					
Daily Operations												
Footage/Meterage (ft) 2,460.00		Drilling Hours (hr) 17.75		% Rotating Time (%) 74.65		End Depth (ftKB) 20,457.0		Target Depth (ftKB) 20,511.0		Daily Field Est Total (Cost) 87,886.61	Cum Field Est To Date (Cost) 1,544,718.37	
24 HR ROP (ft/hr) 138.6		Circulating Hours (hr) 0.50		% Sliding Time (%) 25.35		End Depth (TVD) (ftKB) 7,652.8		Target Depth (TVD) (ftKB) 7,643.0		Daily Mud Field Est (Cost) 8,889.32	Cum Mud Field Est (Cost) 72,283.05	Total AFE + Sup (Cost) 2,683,002.54
Daily Goal Description DRILLED FEET				Daily Goal - Last 24 2,457.0				Daily Goal - Next 24 0.0		Goal Comments Met Goal		
Backbuild Yes		Lateral Inclination Toe Flat		Last Casing String INTERMEDIATE, 6,972.0ftKB				Next Casing String PRODUCTION, 20,442.0ftKB				
Avg Connection Gas 992.00		Avg Trip Gas 0.00		Avg Background Gas 842.00		Max Connection Gas 1,396.00		Max Trip Gas 0.00		Max Drill Gas 1,334.00		
Operations Summary Drilled production lateral as per Directional Plan #2 F/ 17,997' T/ 20,457' (25.35% sliding, 1.5 avg DLS,11' below and 5 right of the line). w/ no HSE incidents.												
Operations Next Report Period TOOH wet, L/D BHA, R/U Franks, run production casing,												
Operations at Report Time Tripping out of the hole at 18,000'												
Remarks Surface - 100% Intermediate - 100% Production Curve - 100% Production Lateral - 100%												
Time Log												
Start Time	Dur (hr)	End Time	Phase	Operation	Ops Category	Com		Start Depth (ftKB)	End Depth (ftKB)	Prob Hrs (hr)	Prob Ref #	
06:00	4.25	10:15	PROD, DRL LAT	DRL	NORMAL	Drill F/ 17,997' T/ 18,731' (734 @ 172.7 fph)		17,997.0	18,731.0			
10:15	0.5	10:45	PROD, DRL LAT	RIG_SVC	NORMAL	Serviced rig.		18,731.0	18,731.0			
10:45	11	21:45	PROD, DRL LAT	DRL	NORMAL	Drill F/ 18,731' T/ 20101' (1370 @ 124.5 fph)		18,731.0	20,101.0			
21:45	0.75	22:30	PROD, DRL LAT	3RD_PTY	NORMAL	Recycle MWD with various flow rates to get survey. Was able to get survey on the seventh try.		20,101.0	20,101.0	0.75	5	
22:30	2.5	01:00	PROD, DRL LAT	DRL	NORMAL	Drill F/ 20,101' T/ 20,457' (356' @ 142.4 fph)		20,101.0	20,457.0			
01:00	0.5	01:30	PROD, POST DRL	RIG_SVC	NORMAL	Serviced rig		20,457.0	20,457.0			
01:30	2.25	03:45	PROD, POST DRL	CIRC	NORMAL	Perform K&M clean up cycle. After 2.2 bottoms up standpipe pressured up to 5700 psi. bled off standpipe and worked pipe, pipe was free. Coming out of the pulling wet pipe due to motor failure.		20,457.0	20,457.0			
03:45	0.25	04:00	PROD, POST DRL	FLOW_CHK	NORMAL	Flow check, well static.		20,457.0	20,457.0			
04:00	2	06:00	PROD, POST DRL	TOOH_ELEV	NORMAL	TOOH F/ 20,368' T/ 18,000' monitor hole with trip tank, hole taking proper fill. Pulling opt of the hole wet.		20,457.0	20,457.0			
Interval Problems												
DIRECTIONAL, 20,101.0ftKB, 12/16/2020 21:45												
Ref # 5	Dur (N...) 0.75	Ex... No	Subtype MWD / LWD	Problem Descript... TROUBLESHOOTING - DOWNHOLE EQUIPMENT	Est Cost OR (Cost)	Accountable Party PHOENIX TECHNOLOGY SERVICES USA INC	Comment Re-cycle to get survey 7 times with various flow rates.					
Drill Strings												
BHA #4 , PRODUCTION - LATERAL												
Bit Run 4			Drill Bit 8 1/2in, *ADD MODEL TO PICK LIST – TYPE MODEL TO BE ADDED IN COMMENT FIELD, 5314184				Bit Type PDC		Make GE/BAKER HUGHES			
Nozzles (1/32") 16/16/16/11/11			Bit Total Fluid Area (nozzles) (in²) 0.77			IADC Bit Dull -----		Hours Drilled By Bit (hr) 71.00		Depth Drilled By Bit (ft) 11,620.00		
BHA Drilling Time (hr) 71.00			BHA Depth Drilled (ft) 11,620.00			BHA ROP (ft/hr) 163.7		Depth In (ftKB) 8,837.0		Depth Out (ftKB) 20,457.0		
Drill String Components												
Jts	Item Des			OD (in)	ID (in)	Len (ft)	Cum Len (ft)	Wt (lbf)	Cum Wt (1000lbf)	Make		
3	DRILL PIPE			6 3/4	4.28	6,117.98	20,457.00	119,300.6	428	RIG		
33	HWDP			6 3/4	3.00	1,057.15	14,339.02	52,328.9	309	RIG		
Daily Drilling Report												

# Daily Drilling Report

**ENSIGN - 133**

Accept: 12/5/2020	Release:
Days Since LTI: 187.00	Days Since RI: 187.00

<b>PERMIAN - JV SOUTHERN WOLFCAMP</b>	
<b>Job:</b>	<b>ODR</b>
<b>Report Date:</b>	<b>12/17/2020</b>
<b>Report #:</b>	<b>14</b>
<b>DFS:</b>	<b>13</b>
<b>AFE #:</b>	<b>9009120</b>
<b>Total AFE + Sup:</b>	<b>\$2,683,002.54</b>
<b>Daily Field Est. (Cost):</b>	<b>\$87,886.61</b>

Drill String Components								
Jts	Item Des	OD (in)	ID (in)	Len (ft)	Cum Len (ft)	Wt (lbf)	Cum Wt (1000lbf)	Make
156	DRILL PIPE	6 3/4	4.28	10,065.43	13,281.87	196,275.9	257	RIG
1	AGITATOR	6 3/4	2.63	23.45	3,216.44		60	NOV
68	DRILL PIPE	5	4.28	3,090.47	3,192.99	60,264.2	60	RIG
1	DRILL COLLAR - NON MAG	6 3/4	3.25	30.44	102.52		0	GORDON
1	DRILL COLLAR - NON MAG	6 3/4	3.25	30.87	72.08		0	GORDON
1	SUB - UBHO	6 1/2	2.63	2.71	41.21		0	GORDON
1	STABILIZER	6.8	2.88	5.32	38.50		0	DRILLING TOOLS INTERNATIONAL
1	MOTOR - SLICK SLEEVE	6 3/4	2.50	32.18	33.18		0	PHOENIX

## Mud Motors

SN	Bend Angle	Bearing Type	Lobe Config	# Stages	Lwr Defin Type	Bit To Bend
24X165-55-PTS	1.75	SEALED	7:8	5.7		5

## Sensors

Sensor Type	Sensor-Bit (ft)	Note
GAMMA	49.09	
DIRECTIONAL	61.00	

### Drilling Parameters

Start Time	End Time	Start Depth (ftKB)	Int Depth (ft)	Int ROP (ft/hr)	WOB (1000lbf)	RPM (rpm)	dP (SPP) (psi)	Q Flow (gpm)	SPP (psi)	ROP Average (ft/hr)	Drill Str Wt (1000lbf)	PU Str Wt (1000lbf)	SO Str Wt (1000lbf)	Off-Btm Str Wt (1000lbf)	Drill Tq	Off Btm Tq	TFO (°)
06:00	07:15	17,997.0	276.00	220.8	40	70	575.0	585	4,500.0	275.0	200	300	60	200	24,000.0	12,000.0	0
07:15	08:00	18,273.0	30.00	40.0	45	0	200.0	585	4,500.0	50.0	200	300	60	200	0.0	0.0	90
08:00	10:15	18,303.0	68.00	30.2	40	70	575.0	585	4,500.0	275.0	200	300	60	200	24,000.0	12,000.0	0
10:15	10:45	18,371.0	0.00		0	0	0.0	585	4,500.0	0.0	200	300	60	200	0.0	0.0	0
10:45	12:15	18,371.0	636.00	424.0	40	70	575.0	585	4,500.0	275.0	200	300	60	200	24,000.0	12,000.0	0
12:15	13:00	19,007.0	25.00	33.3	45	0	200.0	585	4,500.0	50.0	200	300	60	200	0.0	0.0	90
13:00	14:15	19,032.0	247.00	197.6	40	70	575.0	585	4,500.0	275.0	200	300	60	200	24,000.0	12,000.0	0
14:15	15:00	19,279.0	30.00	40.0	45	0	200.0	585	4,500.0	50.0	200	300	60	200	0.0	0.0	80
15:00	16:45	19,309.0	243.00	138.9	40	70	575.0	585	4,575.0	275.0	200	300	60	200	24,000.0	12,000.0	0
16:45	17:15	19,552.0	20.00	40.0	45	0	200.0	585	4,575.0	50.0	200	300	60	200	0.0	0.0	40
17:15	18:15	19,572.0	162.00	162.0	42	60	575.0	585	4,575.0	275.0	205	300	0	205	24,000.0	12,000.0	0
18:15	19:00	19,734.0	10.00	13.3	45	0	200.0	585	4,575.0	40.0	200	300	60	200	0.0	0.0	250
19:00	20:00	19,744.0	174.00	174.0	42	60	575.0	585	4,575.0	275.0	205	300	0	205	24,000.0	12,000.0	0
20:00	21:00	19,918.0	25.00	25.0	45	0	200.0	585	4,575.0	40.0	200	300	60	200	0.0	0.0	225
21:00	21:45	19,943.0	158.00	210.7	42	60	575.0	585	4,575.0	275.0	205	300	0	205	24,000.0	12,000.0	0
22:30	01:00	20,101.0	356.00	142.4	42	60	575.0	585	4,575.0	275.0	205	300	0	205	24,000.0	12,000.0	0

## Hydraulic Calculations

Dens Mud (lb/gal)	ECD End (lb/gal)	Bit Hydraulic Power (hp)	HP/Area (hp/in <sup>2</sup> )	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)
9.50		172.4	3.0	242.3	505.2	16.8	551.3	353.16	412.06	220.32

UNIVERSITY 10-11C 3H

ENSIGN - 133

Accept: 12/5/2020      Release:

Days Since LTI: 187.00      Days Since RI: 187.00

PERMIAN - JV SOUTHERN WOLFCAMP

Job: ODR

Report Date: 12/17/2020

Report #: 14

DFS: 13

AFE #: 9009120

Total AFE + Sup: \$2,683,002.54

Daily Field Est. (Cost): \$87,886.61

Mud Checks									
Time 23:00		Mud Company PIONEER DRILLING FLUIDS			Type OIL BASE	Depth (ftKB) 20,180.0	Density (lb/gal) 9.55	Funnel Viscosity (s/qt) 57	T Flowline (°F) 125.0
PV (cP) 20.0	YP (lb/100ft²) 10.000	Vis 3rpm 7	Vis 6rpm 8	Filtrate (mL/30min)		HTHP Filtrate (mL/30min) 14.0	HTHP Temperature (°F) 250.0		HTHP Pressure (psi) 500.0
Solids (%) 12.5		Low Gravity Solids (%) 7.6		Sand (%)		MBT (lb/bbl)	Pm (mL/mL)		Pf (mL/mL)
Chlorides (ppm) 38,000,000.000		Calcium (ppm)		CaCl (ppm)	Oil Water Ratio 70.9/29.1	Electric Stab (V) 734.0		Lime (lb/bbl) 4.3	pH
Gel 10 sec (lb/100ft²) 10.000				Gel 10 min (lb/100ft²) 14.000			Gel 30 min (lb/100ft²) 19.000		
Comment WELL MATERIALS COST DAILY COST \$ \$10,490.48 TOTAL WELL COST \$ \$104,442.56 RECOMMENDED FLUIDS TREATMENT DRILLING FLUIDS ACTIVITY LAST 24 HRS MW 9.5 - 10.0 ppg, Diesel - 2 sec/qt - 10.7 BPH, Water 5 sec/qt - 4.3 BPH Additions- Lime - 3.125 ppb, CACL - 3.125 ppb, Soltex - 1 ppb, Bentone 990 - 1 ppb, Bentone 910 - 1 ppb, Gilsonite 1 ppb, 1 Drum of BCI Wetting Agent - .2 ppb, 1 Drum of BCI Primary - .2 ppb, 1 Drum BCI Secondary - .2 ppb Maintain mud weight at 9.5 - 9.6 ppg. Dusting up as needed to keep weight up. Continue to build volume with diesel and water additions.  WELL VOLUMES RECAP Daily Diesel Used 10,080 GAL Cumulative Diesel Used 47,884 GAL Daily OBM Surface Losses 147 BBL Daily OBM Downhole Losses BBL Cumulative OBM Surface Losses 1,021 BBL Cumulative OBM Downhole Losses BBL OBM Volume Accounting 2,788 BBL Total OBM Received BBL Total OBM on Location 2,788 BBL Daily Water Used 90 BBL Cumulative Water Used 599 BBL RIG ACTIVITY LAST 24 HOURS Drilling ahead f/ 19,635, t/ 20,180. Drilling ahead lateral. Maintain pit volume, weight and properties of mud system. ROP 197, WOB 41.4, RPM 68, Torque 26021, Diff 586, P/U 300 S/O 100 Conn Gas, 288, BG Gas 313, Max Gas 1334. Lithology 20110 95% Shale, 5% Limestone.									
Last BOP Test									
Date	Test Type			Item Tested		Next Test Date	Com		
12/7/2020	BOP			BOP'S, 12/5/2020 06:00, U		12/28/2020	Tested BOP 250 low 5000 high		
Leak Off and Formation Integrity Tests									
Test Type				Depth (ftKB)		Dens Fluid (lb/gal)			
FORMATION INTEGRITY				1,027.0		12.51			
FORMATION INTEGRITY				6,972.0		11.00			
Casing Pressure Test									
Test Type		Test Subtype			Date	Item Tested	Failed?	Time (min)	P (psi)
CASING		STANDARD			11/22/2020	SURFACE, 1,027.7ftKB	No	30.00	1,000.0
CASING		STANDARD			12/12/2020	INTERMEDIATE, 6,972.0ftKB	No	30.00	2,500.0
Kick Offs & Key Depths									
Date			Type			Top Depth (ftKB)	Depth Top (TVD) (ftKB)		
12/12/2020 06:30			KICK OFF			7,066.0	7,000.0		
12/13/2020 02:15			HEEL			8,066.0	7,603.8		
Casing Strings									
Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)		
CONDUCTOR	125.0		20	H40	78.67				
SURFACE	1,027.7	1,027.1	13 3/8	K55	54.50	BTC	667.2		
INTERMEDIATE	6,972.0	6,906.0	9 5/8	L80-IC	40.00	BTC	3,946.4		
Job Supply Amounts									
Supply Item Des	Type	Unit Label	Received	Consumed	Returned	Note	Cum On Loc	Cum Consumed	
DIESEL	MUD	GAL		1,080			12,780	38,886.0	
DIESEL	FUEL	GAL	7,208	3,280	0	Rig Fuel	8,696	23,370.0	
WATER	FRESH	BBL		0		Water Meter Reading 76706	0	6,391.0	
Mud Additive Amounts									
Des	Type	Units	Rec	Consumed	On Loc	Cum Cons			
BARITE - BULK	WEIGHTING MATERIAL	CWT		15	29.0	37			
BCI OBM PRIMARY	OIL MUD ADDITIVE	GAL		2	7.0	6			
BCI OBM SECONDARY	OIL MUD ADDITIVE	GAL		1	15.0	6			
BCI OBM WETTING AGENT	OIL MUD ADDITIVE	GAL		2	14.0	6			
BENTONE 910	OIL MUD ADDITIVE	GAL		10	115.0	103			
BENTONE 990	OIL MUD ADDITIVE	LB		4	128.0	72			
CALCIUM CHLORIDE	SALT	LB		48	252.0	185			
GILSONITE	FLUID LOSS ADDITIVES	LB		15	150.0	100			
LIME	ALKALINITY CONTROL	LB		45	165.0	290			
Daily Drilling Report									

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Printed: Thursday, December 17, 2020

# Daily Drilling Report

**ENSIGN - 133****Release:**

Days Since RI: 187.00

<b>PERMIAN - JV SOUTHERN WOLFCAMP</b>	
<b>Job:</b>	<b>ODR</b>
<b>Report Date:</b>	<b>12/17/2020</b>
<b>Report #:</b>	<b>14</b>
<b>DFS:</b>	<b>13</b>
<b>AFE #:</b>	<b>9009120</b>
<b>Total AFE + Sup:</b>	<b>\$2,683,002.54</b>
<b>Daily Field Est. (Cost):</b>	<b>\$87,886.61</b>

## Daily Drilling Report

Daily Drilling Report

API/UWI 42-383-40858-0000		Well Profile HORIZONTAL		Open Formation WOLFCAMP A2 (WFMP A2)		Field Name SPRABERRY (TREND AREA)						
SSN ID00017688	Property Sub	KB-Grd (ft) 25.00	Orig KB Elev (ft) 2,668.00	Ground Elevation (ft) 2,643.00	Spud Date 11/11/2020	TD Date 12/17/2020						
Safety Checks												
Time	Type	Des	Tour	Com								
Jobs												
Responsible Grp 2		Responsible Grp 3		Job Type	Start Date		End Date		Job Status			
DRL ENG - JACKIE LUTHER		AREA TEAM 4		ODR	11/11/2020 17:30				IN PROGRESS			
Job Dates (ex. Estimated Pad Release, TXRRC Calls)												
Type			Subtype		Date		Note					
MILESTONE			ESTIMATED PAD RELEASE		1/17/2021		Drilling production lateral on well 1 of 3, sequentially.					
Daily Operations												
Footage/Meterage (ft) 0.00		Drilling Hours (hr)		% Rotating Time (%)		End Depth (ftKB) 20,457.0		Target Depth (ftKB) 20,511.0		Daily Field Est Total (Cost) 50,060.73	Cum Field Est To Date (Cost) 1,594,744.10	
24 HR ROP (ft/hr)		Circulating Hours (hr)		% Sliding Time (%)		End Depth (TVD) (ftKB) 7,652.8		Target Depth (TVD) (ftKB) 7,643.0		Daily Mud Field Est (Cost)	Cum Mud Field Est (Cost) 72,283.05	Total AFE + Sup (Cost) 2,683,002.54
Daily Goal Description DRILLED FEET				Daily Goal - Last 24 0.0				Daily Goal - Next 24 0.0		Goal Comments Met Goal		
Backbuild Yes		Lateral Inclination Toe Flat		Last Casing String INTERMEDIATE, 6,972.0ftKB					Next Casing String PRODUCTION, 20,442.0ftKB			
Avg Connection Gas 621.00		Avg Trip Gas 0.00		Avg Background Gas 550.00		Max Connection Gas 743.00		Max Trip Gas 0.00		Max Drill Gas 866.00		
Operations Summary TOOH wet, L/D BHA, R/U Franks, run production casing,												
Operations Next Report Period Finish Running Production Casing, Circulate STS, R/D casing, R/U and Pump Production Cement												
Operations at Report Time Running 5.5" Production Casing @ 8,000'												
Remarks Surface - 100% Intermediate - 100% Production Curve - 100% Production Lateral - 100%												
Time Log												
Start Time	Dur (hr)	End Time	Phase	Operation	Ops Category	Com	Start Depth (ftKB)	End Depth (ftKB)	Prob Hrs (hr)	Prob Ref #		
06:00	9.25	15:15	PROD, POST DRL	TOOH_ELEV	NORMAL	TOOH wet due to suspected motor failure F/18000' T/3392' with no issues. Hole taking proper fill.	20,457.0	20,457.0				
15:15	0.25	15:30	PROD, POST DRL	HDL_AGITATOR	NORMAL	L/D agitator.	20,457.0	20,457.0				
15:30	2.25	17:45	PROD, POST DRL	TOOH_ELEV	NORMAL	TOOH wet F/3392' T/347' with no issues. Hole taking proper fill from trip tanks.	20,457.0	20,457.0				
17:45	0.25	18:00	PROD, POST DRL	HDL_ROT HD	NORMAL	Pull rotating head.	20,457.0	20,457.0				
18:00	0.25	18:15	PROD, POST DRL	TRIP_NON_ST 80	NORMAL	TOOH wet F/347' T/101' with no issues. Hole taking proper fill from trip tanks.	20,457.0	20,457.0				
18:15	0.5	18:45	PROD, POST DRL	SFTY	NORMAL	Clean rig floor, R/D mud bucket	20,457.0	20,457.0				
18:45	0.25	19:00	PROD, POST DRL	SFTY	NORMAL	PJSM on laying down directional tools.	20,457.0	20,457.0				
19:00	0.75	19:45	PROD, POST DRL	LD_DIR	NORMAL	L/D all directional tools.  Note: Motor shaft was broken and was caught in the rotor catch when on surface. Also, the slick sleeve on the nose of the motor had become unscrewed and was loose.	20,457.0	20,457.0				
19:45	0.25	20:00	PROD, POST DRL	WRBSH	NORMAL	Pull wearbushing and clean rig floor	20,457.0	20,457.0				
20:00	0.5	20:30	PROD, POST DRL	RIG_SVC	NORMAL	Serviced rig.	20,457.0	20,457.0				
20:30	0.25	20:45	PROD, POST DRL	SFTY	NORMAL	PJSM w/ Ensign, Frank's Csg Crew & Torque Turn, Tenaris, and PNR Rep on RU casing tools.	20,457.0	20,457.0				
20:45	1.25	22:00	PROD, CASE & CMT	RU_CSG	NORMAL	RU Frank's casing crew	20,457.0	20,457.0				
22:00	0.25	22:15	PROD, CASE & CMT	MU_SHOE_TRACK	NORMAL	PU pre-bucked shoe track. Test floats, good test.	20,457.0	20,457.0				
22:15	7.75	06:00	PROD, CASE & CMT	CSG_W/O ROTATION	NORMAL	Run 5.5" 20# TXP-BTC P-110 IC casing T/6,000' with proper displacement at trip tanks.	20,457.0	20,457.0				
Daily Drilling Report												
Page 1/3				Printed: Friday, December 18, 2020								

Interval Problems											
DIRECTIONAL, 20,457.0ftKB, 12/17/2020 04:00											
Ref #	Dur (N...)	Ex...	Subtype	Problem Descript...	Est Cost OR (Cost)	Accountable Party	Comment				
6	14.25	Yes	MOTOR	DOWNHOLE EQUIPMENT		PHOENIX TECHNOLOGY SERVICES USA INC	Perform K&M clean up cycle. After 2.2 bottoms up standpipe pressured up to 5700 psi. bled off standpipe and worked pipe, pipe was free. Coming out of the pulling wet pipe due to motor failure.				
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)
23:00		PIONEER DRILLING FLUIDS			OIL BASE		20,457.0		9.60		61
PV (cP)		YP (lb/100ft²)	Vis 3rpm	Vis 6rpm	Filtrate (mL/30min)		HTHP Filtrate (mL/30min)		HTHP Temperature (°F)		HTHP Pressure (psi)
20.0		13.000	7	8			15.0		250.0		500.0
Solids (%)			Low Gravity Solids (%)		Sand (%)		MBT (lb/bbl)		Pm (mL/mL)		Pf (mL/mL)
11.5			4.8								
Chlorides (ppm)		Calcium (ppm)		CaCl (ppm)	Oil Water Ratio		Electric Stab (V)		Lime (lb/bbl)		pH
39,000,000.000					71.8/28.2		774.0		4.1		
Gel 10 sec (lb/100ft²)					Gel 10 min (lb/100ft²)				Gel 30 min (lb/100ft²)		
10.000					15.000				20.000		
Comment											
WELL MATERIALS COST											
DAILY COST \$ \$1,350.00											
TOTAL WELL COST \$ \$105,792.56											
RECOMMENDED FLUIDS TREATMENT DRILLING FLUIDS ACTIVITY LAST 24 HRS											
No Treatment at this time. Maintain volume and weight while tripping pipe. Maintain 9.5 - 9.6 ppg. Plan was to stop Diesel and water additions after first bottoms up in K & M Clean up. This would allow mud weight to climb slightly for the trip. Mud went up from 9.5 to 9.6 ppg before bit/motor plugged and we had to POOH wet.											
WELL VOLUMES RECAP											
Daily Diesel Used 3,780 GAL											
Cumulative Diesel Used 51,664 GAL											
Daily OBM Surface Losses 244 BBL											
Daily OBM Downhole Losses BBL											
Cumulative OBM Surface Losses 1,265 BBL											
Cumulative OBM Downhole Losses BBL											
OBM Volume Accounting 2,654 BBL											
Total OBM Received BBL											
Total OBM on Location 2,654 BBL											
Daily Water Used 20 BBL											
Cumulative Water Used 619 BBL											
RIG ACTIVITY LAST 24 HOURS											
Drilling ahead f/ 20,180, t/ 20,457. Drilling ahead lateral to TD 20,457'. Begin K & M Clean up. Bit/motor plugged off after 2.5 bottoms up. Flow check, well static, POOH wet, lay down BHA. Rig up and begin RIH with 5.5 Production casing. ROP 208, WOB 40.9, RPM 68, Torque 26928, Diff 590, P/U 285 S/O 135 Conn Gas, 349, BG Gas 461, Max Gas 795, Ftg Last 24 - 277'. Lithology 20457 85% Shale, 15% Limestone.											
Last BOP Test											
Date		Test Type			Item Tested		Next Test Date		Com		
12/7/2020		BOP			BOP'S, 12/5/2020 06:00, U		12/28/2020		Tested BOP 250 low 5000 high		
Leak Off and Formation Integrity Tests											
Test Type				Depth (ftKB)				Dens Fluid (lb/gal)			
FORMATION INTEGRITY				1,027.0				12.51			
FORMATION INTEGRITY				6,972.0				11.00			
Casing Pressure Test											
Test Type		Test Subtype			Date		Item Tested		Failed?	Time (min)	P (psi)
CASING		STANDARD			11/22/2020		SURFACE, 1,027.7ftKB		No	30.00	1,000.0
CASING		STANDARD			12/12/2020		INTERMEDIATE, 6,972.0ftKB		No	30.00	2,500.0
Kick Offs & Key Depths											
Date				Type			Top Depth (ftKB)		Depth Top (TVD) (ftKB)		
12/12/2020 06:30				KICK OFF			7,066.0		7,000.0		
12/13/2020 02:15				HEEL			8,066.0		7,603.9		
12/17/2020 01:00				TOE			20,457.0		7,652.8		
Casing Strings											
Description		Set Depth (ftKB)		Set Depth (TVD) (ftKB)		OD (in)	Grade	Wt/Len (lb/ft)		Top Thread	P LeakOff (psi)
CONDUCTOR		125.0		125.0		20	H40	78.67			
SURFACE		1,027.7		1,027.1		13 3/8	K55	54.50		BTC	667.2
INTERMEDIATE		6,972.0		6,906.1		9 5/8	L80-IC	40.00		BTC	3,946.4
Job Supply Amounts											
Supply Item Des		Type	Unit Label	Received	Consumed	Returned	Note		Cum On Loc	Cum Consumed	
DIESEL		MUD	GAL		3,780				9,000	42,666.0	
DIESEL		FUEL	GAL		1,099	0	Rig Fuel		7,597	24,469.0	
WATER		FRESH	BBL		0		Water Meter Reading 76706		0	6,391.0	
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	H&H			1600		5 1/2		12.00	0.088		6,000.0
2	H&H			1600		5 1/2		12.00	0.088		6,000.0
Daily Drilling Report											

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Printed: Friday, December 18, 2020

# Daily Drilling Report

**ENSIGN - 133**

Accept: 12/5/2020	Release:
Days Since LTI: 188.00	Days Since RI: 188.00

PERMIAN - JV SOUTHERN WOLFCAMP	
Job:	ODR
Report Date:	12/18/2020
Report #:	15
DFS:	14
AFE #:	9009120
Total AFE + Sup:	\$2,683,002.54
Daily Field Est. (Cost):	\$50,060.73

Pump Operations						
Pump #	Make	Model	Liner Size (in)	Stroke (in)	Vol/Stk (bbl/stk)	P Max (psi)
3	H&H	1600	5 1/2	12.00	0.088	6,000.0
Pump Checks						
Pump #	Depth (ftKB)	Time	P (psi)	Strokes (spm)	Q Flow (gpm)	Eff (%)
Deviation Surveys						
Date 11/11/2020	Description AS DRILL SURVEY				Job ODR, 11/11/2020 17:30	
Date 12/17/2020	Description FINAL SURVEY				Job	
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		
LUTHER, JACKIE, ENGINEER	ENGINEER	972-969-5626	303-512-3803	JACKIE.LUTHER@PXD.COM		
PARSELL, VIC, SUPERINTENDENT	SUPERINTENDENT		432-301-2539	VIC.PARSELL@PXD.COM		
VILLESICAS, BERNIE, SUPERINTENDENT	SUPERINTENDENT	432-571-2950	432-312-2088	BERNIE.VILLESICAS@PXD.COM		
CARROLL, GRAYSON, FIELD ENGINEER	FIELD ENGINEER		432-215-8655	GRAYSON.CARROLL@PXD.COM		
COX, JASON, WELLSITE SUPERVISOR	WELLSITE SUPERVISOR		281-733-1241	JASON.COX@PXD.COM		
SENTZ, RON, MUD ENGINEER	MUD ENGINEER		469-585-7376	RON.SENTZ@PXD.COM		
RIG-ENSIGN 133, RIG PHONE	RIG PHONE	432-355-3047	432-530-1214			
Personnel Log						
Company					Count	
PIONEER NATURAL RESOURCES USA INC					3	
ENSIGN ENERGY SERVICES					13	
PHOENIX TECHNOLOGY SERVICES USA INC					2	
GORDON TECHNOLOGIES LLC					1	
STRATAGRAPH INC					1	
SAFETY AUTOMATION TECHNOLOGY LLC					1	
HALLIBURTON ENERGY SERVICES INC					1	

Daily Drilling Report

UNIVERSITY 10-11C 3H		PERMIAN - JV SOUTHERN WOLFCAMP	
ENSIGN - 133		Job: ODR	
Accept: 12/5/2020	Release:	Report Date: 12/19/2020	
Days Since LTI: 189.00	Days Since RI: 189.00	Report #: 16	
		DFS: 15	
		AFE #: 9009120	
		Total AFE + Sup: \$2,683,002.54	
		Daily Field Est. (Cost): \$434,661.60	

API/UWI 42-383-40858-0000			Well Profile HORIZONTAL			Open Formation WOLFCAMP A2 (WFMP A2)			Field Name SPRABERRY (TREND AREA)						
SSN ID00017688		Property Sub		KB-Grd (ft) 25.00		Orig KB Elev (ft) 2,668.00		Ground Elevation (ft) 2,643.00		Spud Date 11/11/2020		TD Date 12/17/2020			
Safety Checks															
Time		Type		Des		Tour		Com							
Jobs															
Responsible Grp 2			Responsible Grp 3			Job Type		Start Date			End Date		Job Status		
DRL ENG - JACKIE LUTHER			AREA TEAM 4			ODR		11/11/2020 17:30					IN PROGRESS		
Job Dates (ex. Estimated Pad Release, TXRRC Calls)															
Type				Subtype				Date			Note				
MILESTONE				ESTIMATED PAD RELEASE				1/17/2021			Drilling production lateral on well 1 of 3, sequentially.				
Daily Operations															
Footage/Meterage (ft) 0.00		Drilling Hours (hr)		% Rotating Time (%)		End Depth (ftKB) 20,457.0		Target Depth (ftKB) 20,511.0		Daily Field Est Total (Cost) 434,661.60		Cum Field Est To Date (Cost) 2,029,878.85			
24 HR ROP (ft/hr)		Circulating Hours (hr)		% Sliding Time (%)		End Depth (TVD) (ftKB) 7,652.8		Target Depth (TVD) (ftKB) 7,643.0		Daily Mud Field Est (Cost) 1,818.70		Cum Mud Field Est (Cost) 74,131.40		Total AFE + Sup (Cost) 2,683,002.54	
Daily Goal Description DRILLED FEET				Daily Goal - Last 24 0.0				Daily Goal - Next 24 0.0				Goal Comments Met Goal			
Backbuild Yes		Lateral Inclination Toe Flat		Last Casing String INTERMEDIATE, 6,972.0ftKB						Next Casing String					
Avg Connection Gas 0.00		Avg Trip Gas 215.00		Avg Background Gas 215.00		Max Connection Gas 0.00		Max Trip Gas 507.00		Max Drill Gas 0.00					
Operations Summary Run production casing setting shoe at 20,442', Rupture air lock and burped casing, circulated surface to surface, perform production cement job, L/D landing joint and Install and test pack off,															
Operations Next Report Period Finish Running Production Casing, Circulate STS, R/D casing, R/U and Pump Production Cement															
Operations at Report Time Installing and testing pack off															
Remarks Surface - 100% Intermediate - 100% Production Curve - 100% Production Lateral - 100%															
Time Log															
Start Time	Dur (hr)	End Time	Phase	Operation	Ops Category	Com				Start Depth (ftKB)	End Depth (ftKB)	Prob Hrs (hr)	Prob Ref #		
06:00	12	18:00	PROD, CASE & CMT	CSG_W/O ROTATION	NORMAL	Run 5.5" 20# TXP-BTC P-110 IC casing F/8,000' T/20,442 with proper displacement at trip tanks.				20,457.0	20,457.0				
18:00	0.75	18:45	PROD, CASE & CMT	RD_CSG	NORMAL	Rig down Franks casing equipment.				20,457.0	20,457.0				
18:45	0.5	19:15	PROD, CASE & CMT	RU_CMT	NORMAL	Rig up cement head, high pressure lines to standpipe.				20,457.0	20,457.0				
19:15	1.25	20:30	PROD, CASE & CMT	CIRC	NORMAL	Rupture air lock with 1942 psi, burp and fill casing.				20,457.0	20,457.0				
20:30	2.75	23:15	PROD, CASE & CMT	CIRC	NORMAL	Circulate STS at 8 BPM with xx psi. 9.6 ppg MW In/Out with full returns and RD csg tools.				20,457.0	20,457.0				
23:15	0.25	23:30	PROD, CASE & CMT	SFTY	NORMAL	PJSM on cementing operations.				20,457.0	20,457.0				
23:30	0.25	23:45	PROD, CASE & CMT	RU_CMT	NORMAL	Rig up cement head to cement truck stand pipe.				20,457.0	20,457.0				
23:45	4.25	04:00	PROD, CASE & CMT	CMT	NORMAL	Pump 20 bbls FW to clear lines to reserve pit, pressure test to 6,500 psi. Pump 50 bbls Mudpush at 10 ppg, 199 bbls 11.5 ppg lead cement, 660 bbls 12.5 ppg tail. Drop 1000 psi rupture plug, pump 4 bbls retarded water, drop 3000 psi rupture plug and displace with 453 bbls of fresh water with full returns. Final lift psi @ 3.5 bpm, 1842 psi Bumped plug @ 04:00 with 3,350 psi held it for 5 minutes, floats held and bled back 5.5 bbls. Returned all spacer and 10 bbls of cment to surface.				20,457.0	20,457.0				
04:00	0.5	04:30	DEMOB, RIG DOWN	FLOW_CHK	NORMAL	Watch for backflow and verified floats holding 30 min.				20,457.0	20,457.0				
04:30	0.5	05:00	DEMOB, RIG DOWN	RD_CMT	NORMAL	RD cmt crew. Flush through surface lines				20,457.0	20,457.0				
05:00	1	06:00	DEMOB, RIG DOWN	WH	NORMAL	Lay out landing jt. Install packoff, pressure test void between seals to 5k, pull test to 40k, and pressure test again to 5,000 psi. Good tests. Set back pressure valve.				20,457.0	20,457.0				
Hydraulic Calculations															
Dens Mud (lb/gal)	ECD End (lb/gal)	Bit Hydraulic Power (hp)	HP/Area (hp/in²)	Jet Vel (ft/s)	Bit dP (psi)	Min Open Hole AV (ft/min)	Max Open Hole AV (ft/min)	Vol DrillString (bbl)	Vol Bit to Shoe (bbl)	Vol Shoe to Top (bbl)					
Daily Drilling Report															

Daily Drilling Report

UNIVERSITY 10-11C 3H

ENSIGN - 133

Accept: 12/5/2020Release:Days Since LTI: 189.00Days Since RI: 189.00

PERMIAN - JV SOUTHERN WOLFCAMP

Job: ODRReport Date: 12/19/2020Report #: 16DFS: 15AFE #: 9009120Total AFE + Sup: \$2,683,002.54Daily Field Est. (Cost): \$434,661.60

Mud Checks													
Time 23:00		Mud Company PIONEER DRILLING FLUIDS			Type OIL BASE		Depth (ftKB) 20,457.0		Density (lb/gal) 9.70		Funnel Viscosity (s/qt) 78		T Flowline (°F) 80.0
PV (cP) 20.0	YP (lb/100ft²) 15.000	Vis 3rpm 7	Vis 6rpm 8	Filtrate (mL/30min)			HTHP Filtrate (mL/30min) 15.0		HTHP Temperature (°F) 250.0		HTHP Pressure (psi) 500.0		
Solids (%) 12.0		Low Gravity Solids (%) 5.1			Sand (%)			MBT (lb/bbl)		Pm (mL/mL)		Pf (mL/mL)	
Chlorides (ppm) 38,000,000.000		Calcium (ppm)		CaCl (ppm)		Oil Water Ratio 72.2/27.8		Electric Stab (V) 739.0		Lime (lb/bbl) 3.9		pH	
Gel 10 sec (lb/100ft²) 12.000				Gel 10 min (lb/100ft²) 16.000				Gel 30 min (lb/100ft²) 21.000					
Comment WELL MATERIALS COST DAILY COST \$ \$1,350.00 TOTAL WELL COST \$ \$107,142.56 RECOMMENDED FLUIDS TREATMENT DRILLING FLUIDS ACTIVITY LAST 24 HRS No treatment at this time. Maintain 9.6 ppg Maintain 9.6 ppg mud weight. Watch volume while running in hole with casing. Displaced mud moved to premix for holding until we burst airlock and need to move mud back to active for volume. Move all OBM to frac tanks for storage to be used on next well. Did see approx 10 bbls cement.  WELL VOLUMES RECAP Daily Diesel Used GAL Cumulative Diesel Used 51,664 GAL Daily OBM Surface Losses BBL Daily OBM Downhole Losses BBL Cumulative OBM Surface Losses 1,265 BBL Cumulative OBM Downhole Losses BBL OBM Volume Accounting1,926 BBL Total OBM Received BBL Total OBM on Location 1,926 BBL Daily Water Used BBL Cumulative Water Used 619 BBL RIG ACTIVITY LAST 24 HOURS TD well at 20,457'. Finish POOH wet, lay down BHA. Motor was caught on catch ring. Rig up and begin RIH with 5.5 Production casing. Tag bottom with casing. Burst airlock, circulate casing. Rig up cement and pump same. ROP 208, WOB 40.9, RPM 68, Torque 26928, Diff 590, P/U 285 S/O 135 Conn Gas, 349, BG Gas 461, Max Gas 507, Ftg Last 24 - 0'. Lithology 20457 85% Shale, 15% Limestone.													
Last BOP Test													
Date	Test Type			Item Tested			Next Test Date		Com				
12/7/2020	BOP			BOP'S, 12/5/2020 06:00, U			12/28/2020		Tested BOP 250 low 5000 high				
Leak Off and Formation Integrity Tests													
Test Type			Depth (ftKB)					Dens Fluid (lb/gal)					
FORMATION INTEGRITY			1,027.0					12.51					
FORMATION INTEGRITY			6,972.0					11.00					
Casing Pressure Test													
Test Type		Test Subtype			Date		Item Tested		Failed?	Time (min)	P (psi)		
CASING		STANDARD			11/22/2020		SURFACE, 1,027.7ftKB		No	30.00	1,000.0		
CASING		STANDARD			12/12/2020		INTERMEDIATE, 6,972.0ftKB		No	30.00	2,500.0		
Kick Offs & Key Depths													
Date			Type			Top Depth (ftKB)			Depth Top (TVD) (ftKB)				
12/12/2020 06:30			KICK OFF			7,066.0			7,000.0				
12/13/2020 02:15			HEEL			8,066.0			7,603.9				
12/17/2020 01:00			TOE			20,457.0			7,652.8				
Casing Strings													
Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread		P LeakOff (psi)					
CONDUCTOR	125.0	125.0	20	H40	78.67								
SURFACE	1,027.7	1,027.1	13 3/8	K55	54.50	BTC		667.2					
INTERMEDIATE	6,972.0	6,906.1	9 5/8	L80-IC	40.00	BTC		3,946.4					
Cement													
PRODUCTION CASING CEMENT, Casing, 12/18/2020 23:45													
Cementing End Date 12/19/2020 04:00	Wellbore ORIGINAL		Technical Result		Comment Several short delays due to slurry chief foaming out and cement delivery issue.								
Cement Stages													
Description		Final Top De...	Btm (ftKB)	Top Pl...	Btm Pl...	Q Pump Init (...)	Q Pump Fina...	Q Pump Avg...	P Pump Final...	P Plug Bump...	Float...	Recip?	Rotated?
		2,613.0	20,442.0	Yes	Yes	7	3	7	1,800.0	3,275.0	No	No	No
Cement Fluids													
Fluid Type MUDPUSH			Estimated Top (ftKB) 1,536.0		Est Btm (ftKB) 2,613.0		Class		Yield (ft³/sack)		Density (lb/gal) 10.50		
Fluid Type LEAD CMT			Estimated Top (ftKB) 2,613.0		Est Btm (ftKB) 6,918.0		Class TXI LITEWEIGHT		Yield (ft³/sack) 2.20		Density (lb/gal) 11.50		
Fluid Type TAIL CMT			Estimated Top (ftKB) 6,918.0		Est Btm (ftKB) 20,414.0		Class TXI LITEWEIGHT		Yield (ft³/sack) 1.61		Density (lb/gal) 12.50		
Fluid Type DSPLMT			Estimated Top (ftKB) 0.0		Est Btm (ftKB) 20,512.0		Class		Yield (ft³/sack)		Density (lb/gal) 8.30		
Job Supply Amounts													
Supply Item Des		Type	Unit Label	Received	Consumed	Returned	Note			Cum On Loc		Cum Consumed	
DIESEL		FUEL	GAL		951	0	Rig Fuel			6,646		25,420.0	
WATER		FRESH	BBL		0		Water Meter Reading 76706			0		6,391.0	
Mud Additive Amounts													
Des		Type		Units		Rec		Consumed		On Loc		Cum Cons	
CALCIUM CHLORIDE		SALT		LB				130		122.0		315	
Daily Drilling Report													

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Printed: Saturday, December 19, 2020

# Daily Drilling Report

**ENSIGN - 133**

<b>Accept: 12/5/2020</b>	<b>Release:</b>
<b>Days Since LTI: 189.00</b>	<b>Days Since RI: 189.00</b>

PERMIAN - JV SOUTHERN WOLFCAMP	
Job:	ODR
Report Date:	12/19/2020
Report #:	16
DFS:	15
AFE #:	9009120
Total AFE + Sup:	\$2,683,002.54
Daily Field Est. (Cost):	\$434,661.60

[illegible]

Daily Drilling Report

API/UWI 42-383-40858-0000		Well Profile HORIZONTAL		Open Formation WOLFCAMP A2 (WFMP A2)		Field Name SPRABERRY (TREND AREA)						
SSN ID00017688		Property Sub		KB-Grd (ft) 25.00	Orig KB Elev (ft) 2,668.00	Ground Elevation (ft) 2,643.00	Spud Date 11/11/2020		TD Date 12/17/2020			
Safety Checks												
Time	Type	Des		Tour		Com						
Jobs												
Responsible Grp 2		Responsible Grp 3		Job Type		Start Date		End Date		Job Status		
DRL ENG - JACKIE LUTHER		AREA TEAM 4		ODR		11/11/2020 17:30		12/19/2020 08:30		COMPLETE		
Job Dates (ex. Estimated Pad Release, TXRRC Calls)												
Type			Subtype		Date		Note					
MILESTONE			ESTIMATED PAD RELEASE		1/17/2021		Drilling production lateral on well 1 of 3, sequentially.					
Daily Operations												
Footage/Meterage (ft) 0.00		Drilling Hours (hr)		% Rotating Time (%)		End Depth (ftKB) 20,457.0		Target Depth (ftKB) 20,511.0		Daily Field Est Total (Cost) 28,695.93	Cum Field Est To Date (Cost) 2,055,614.78	
24 HR ROP (ft/hr)		Circulating Hours (hr)		% Sliding Time (%)		End Depth (TVD) (ftKB) 7,652.8		Target Depth (TVD) (ftKB) 7,643.0		Daily Mud Field Est (Cost)	Cum Mud Field Est (Cost) 74,131.40	Total AFE + Sup (Cost) 2,683,002.54
Daily Goal Description DRILLED FEET				Daily Goal - Last 24 0.0			Daily Goal - Next 24 0.0			Goal Comments Met Goal		
Backbuild Yes		Lateral Inclination Toe Flat		Last Casing String PRODUCTION, 20,442.0ftKB					Next Casing String			
Avg Connection Gas		Avg Trip Gas		Avg Background Gas		Max Connection Gas		Max Trip Gas		Max Drill Gas		
Operations Summary Finish Installing Packoff, N/D BOP, Install TA cap and Release Rig.												
Operations Next Report Period Rig Released to University 10-11B 2H												
Operations at Report Time Rig Released to University 10-11B 2H												
Remarks Surface - 100% Intermediate - 100% Production Curve - 100% Production Lateral - 100%												
Time Log												
Start Time	Dur (hr)	End Time	Phase	Operation	Ops Category	Com		Start Depth (ftKB)	End Depth (ftKB)	Prob Hrs (hr)	Prob Ref #	
06:00	0.25	06:15	DEMOB, RIG DOWN	WH	NORMAL	Install packoff, pressure test void between seals to 5k, pull test to 40k, and pressure test again to 5,000 psi. Good tests. Set back pressure valve.		20,457.0	20,457.0			
06:15	1.5	07:45	DEMOB, RIG DOWN	ND_BOPE	NORMAL	ND BOP, remove flowline and RD flow line manifold, RD mud lines and choke Line, PU mousehole.		20,457.0	20,457.0			
07:45	0.75	08:30	DEMOB, RIG DOWN	WH	NORMAL	Install TA cap and test to 5k with Cactus Tech. Rig Released to University 10-11B 2H @ 8:30 hrs 12/19/2020.		20,457.0	20,457.0			
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)		
Mud Checks												
Time	Mud Company			Type	Depth (ftKB)	Density (lb/gal)	Funnel Viscosity (s/qt)	T Flowline (°F)				
PV (cP)	YP (lb/100ft²)	Vis 3rpm	Vis 6rpm	Filtrate (mL/30min)	HTHP Filtrate (mL/30min)	HTHP Temperature (°F)		HTHP Pressure (psi)				
Solids (%)		Low Gravity Solids (%)		Sand (%)	MBT (lb/bbl)	Pm (mL/mL)		Pf (mL/mL)				
Chlorides (ppm)		Calcium (ppm)		CaCl (ppm)	Oil Water Ratio	Electric Stab (V)		Lime (lb/bbl)		pH		
Gel 10 sec (lb/100ft²)				Gel 10 min (lb/100ft²)			Gel 30 min (lb/100ft²)					
Comment												
Last BOP Test												
Date	Test Type			Item Tested	Next Test Date	Com						
12/7/2020	BOP			BOP'S, 12/5/2020 06:00, U	12/28/2020	Tested BOP 250 low 5000 high						
Leak Off and Formation Integrity Tests												
Test Type				Depth (ftKB)			Dens Fluid (lb/gal)					
FORMATION INTEGRITY				1,027.0			12.51					
FORMATION INTEGRITY				6,972.0			11.00					
Casing Pressure Test												
Test Type		Test Subtype			Date	Item Tested	Failed?	Time (min)	P (psi)			
CASING		STANDARD			11/22/2020	SURFACE, 1,027.7ftKB	No	30.00	1,000.0			
CASING		STANDARD			12/12/2020	INTERMEDIATE, 6,972.0ftKB	No	30.00	2,500.0			
Kick Offs & Key Depths												
Date				Type		Top Depth (ftKB)		Depth Top (TVD) (ftKB)				
12/12/2020 06:30				KICK OFF		7,066.0		7,000.0				
12/13/2020 02:15				HEEL		8,066.0		7,603.9				
12/17/2020 01:00				TOE		20,457.0		7,652.8				
Casing Strings												
Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread		P LeakOff (psi)				
CONDUCTOR	125.0	125.0	20	H40	78.67							
SURFACE	1,027.7	1,027.1	13 3/8	K55	54.50	BTC		667.2				
INTERMEDIATE	6,972.0	6,906.1	9 5/8	L80-IC	40.00	BTC		3,946.4				
Daily Drilling Report												

# Daily Drilling Report

**ENSIGN - 133**

Accept: 12/5/2020	Release: 12/19/2020
Days Since LTI: 190.00	Days Since RI: 190.00

<b>PERMIAN - JV SOUTHERN WOLFCAMP</b>	
<b>Job:</b>	<b>ODR</b>
<b>Report Date:</b>	<b>12/19/2020</b>
<b>Report #:</b>	<b>17</b>
<b>DFS:</b>	<b>15</b>
<b>AFE #:</b>	<b>9009120</b>
<b>Total AFE + Sup:</b>	<b>\$2,683,002.54</b>
<b>Daily Field Est. (Cost):</b>	<b>\$28,695.93</b>

Daily Drilling Report Page 2/2 Printed: Sunday, December 20, 2020