

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				
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 Intermediate on well 1 of 3, sequentially.					
Daily Operations													
Footage/Meterage (ft) 0.00		Drilling Hours (hr)		% Rotating Time (%)		End Depth (ftKB) 1,049.0		Target Depth (ftKB) 20,511.0		Daily Field Est Total (Cost) 39,769.77		Cum Field Est To Date (Cost) 329,718.81	
24 HR ROP (ft/hr)		Circulating Hours (hr)		% Sliding Time (%)		End Depth (TVD) (ftKB) 1,048.4		Target Depth (TVD) (ftKB) 7,643.0		Daily Mud Field Est (Cost)		Cum Mud Field Est (Cost) 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 Goal Met	
Backbuild		Lateral Inclination		Last Casing String SURFACE, 1,027.7ftKB						Next Casing String PROPOSED INTERMEDIATE, 6,973.0ftKB			
Avg Connection Gas 0.00		Avg Trip Gas 0.00		Avg Background Gas 0.00		Max Connection Gas 0.00		Max Trip Gas 0.00		Max Drill Gas 0.00			
Operations Summary													
Operations Next Report Period Release Rig to Pembroke Unit 320H.													
Operations at Report Time Release Rig to Pembroke Unit 320H.													
Remarks													
Time Log													
Start Time	Dur (hr)	End Time	Phase	Operation	Ops Category	Com			Start Depth (ftKB)	End Depth (ftKB)	Prob Hrs (hr)	Prob Ref #	
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			
Leak Off and Formation Integrity Tests													
Test Type				Depth (ftKB)				Dens Fluid (lb/gal)					
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	
Kick Offs & Key Depths													
Date				Type			Top Depth (ftKB)			Depth Top (TVD) (ftKB)			
Casing Strings													
Description		Set Depth (ftKB)		Set Depth (TVD) (ftKB)		OD (in)		Grade	Wt/Len (lb/ft)		Top Thread		P LeakOff (psi)
CONDUCTOR		125.0				20		H40	78.67				
SURFACE		1,027.7		1,027.1		13 3/8		K55	54.50		BTC		
Job Supply Amounts													
Supply Item Des		Type		Unit Label		Received	Consumed	Returned	Note		Cum On Loc	Cum Consumed	
DIESEL		MUD		GAL		0	0	0	Transferred from' UNIVERSITY 4-7B 2H'		0	0.0	
DIESEL		FUEL		GAL		2,854		0	Transferred from' UNIVERSITY 4-7B 2H'		2,854	0.0	
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)	
Pump Checks													
Pump #	Depth (ftKB)		Time	P (psi)		Strokes (spm)		Q Flow (gpm)		Eff (%)			
Daily Drilling Report													

Daily Drilling Report

ENSIGN - 133

Accept: 12/6/2020

Days Since LTI: 176.00

Release:

Days Since RI: 176.00

PERMIAN - JV SOUTHERN WOLFCAMP	
Job:	ODR
Report Date:	12/6/2020
Report #:	3
DFS:	1
AFE #:	9009120
Total AFE + Sup:	\$2,683,002.54
Daily Field Est. (Cost):	\$39,769.77

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Daily Drilling Report

PERMIAN - JV SOUTHERN WOLFCAMP	
Job:	ODR
Report Date:	12/6/2020
Report #:	3
DFS:	2
AFE #:	9009120
Total AFE + Sup:	\$2,683,002.54
Daily Field Est. (Cost):	\$42,044.77

Daily Drilling Report Page 1/3 Printed: Sunday, December 6, 2020

Daily Drilling Report

Mud Checks

Time

22:00

Mud Company

PIONEER DRILLING FLUIDS

Type

WATER BASE

Depth (ftKB)

1,027.0

Density (lb/gal)

8.30

Funnel Viscosity (s/qt)

28

T Flowline (°F)

PV (cP)

1.0

YP (lb/100ft²)

1.000

Vis 3rpm

0

Vis 6rpm

0

Filtrate (mL/30min)

0.0

HTHP Filtrate (mL/30min)

HTHP Temperature (°F)

HTHP Pressure (psi)

Solids (%)

0.0

Low Gravity Solids (%)

0.0

Sand (%)

0.0

MBT (lb/bbl)

0.0

Pm (mL/mL)

0.000

Pf (mL/mL)

Chlorides (ppm)

300,000.000

Calcium (ppm)

160,000.000

CaCl (ppm)

Oil Water Ratio

0/100

Electric Stab (V)

Lime (lb/bbl)

pH

7.0

Gel 10 sec (lb/100ft²)

0.000

Gel 10 min (lb/100ft²)

0.000

Gel 30 min (lb/100ft²)

0.000

Comment

DAILY COST \$ \$2,125.00
TOTAL WELL COST \$ \$2,125.00
RECOMMENDED FLUID TREATMENT DRILLING FLUID ACTIVITY LAST 24 HRS
No treatment at present time. Check is for water source on pad. Transferred all OBM from University 4-7B 2H. Pits, pumps, tank farm, bulk silos, centrifuge all set in place.

WELL VOLUMES RECAP
Daily Diesel Used GAL
Cumulative Diesel Used GAL
Daily WBM Surface Losses BBL
Daily WBM Downhole Losses BBL
Cumulative WBM Surface Losses BBL
Cumulative WBM Downhole Losses BBL
WBM Volume Accounting 159 BBL
Total WBM Received BBL
Total WBM on Location 159 BBL
Daily Water Used BBL
Cumulative Water Used BBL
RIG ACTIVITY LAST 24 HOURS
Moving rig from University 4-7B 2H to University 10-11C 3H

Last BOP Test

Date

Test Type

Item Tested

Next Test Date

Com

Leak Off and Formation Integrity Tests

Test Type

Depth (ftKB)

Dens Fluid (lb/gal)

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

Kick Offs & Key Depths

Date

Type

Top Depth (ftKB)

Depth Top (TVD) (ftKB)

Casing Strings

Description

Set Depth (ftKB)

Set Depth (TVD) (ftKB)

OD (in)

Grade

Wt/Len (lb/ft)

Top Thread

P LeakOff (psi)

CONDUCTOR

125.0

20

H40

78.67

SURFACE

1,027.7

1,027.1

13 3/8

K55

54.50

BTC

Job Supply Amounts

Supply Item Des

Type

Unit Label

Received

Consumed

Returned

Note

Cum On Loc

Cum Consumed

DIESEL

MUD

GAL

0

0

0

Transferred from' UNIVERSITY 4-7B 2H'

0

0.0

DIESEL

FUEL

GAL

2,854

200

0

Transferred from' UNIVERSITY 4-7B 2H'

2,654

200.0

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

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

Description

FINAL SURVEY

Job

Date

11/11/2020

Description

AS DRILL SURVEY

Job

ODR, 11/11/2020 17:30

Formations

Formation Name

Prog Top (TVD SS)
Override (ft(elv))

Prog Top MD (ftKB)

Prog Top (TVD) (ftKB)

Final Top MD (ftKB)

Final Top (TVD) (ftKB)

251_0_RSRL

1,600.0

1,068.0

251_0_SLDO

1,550.0

1,118.0

255_0_TNSL_TOP_DOL

980.0

1,688.0

256_0_YATES

930.0

1,738.0

257_0_SEVEN RIVERS

630.0

2,038.0

258_0_QUEEN

166.0

2,502.0

259_0_GRAYBURG

-311.0

2,979.0

261_0_SAN ANDRES

-505.0

3,173.0

263_0_SAN ANDRES SHALE

-1,398.0

4,066.0

265_0_CLEARFORK/POP

-2,288.0

4,956.0

267_0_SPBY_U_A1/267_0_SPBY

-3,172.0

5,840.0

268_7_SPBY_L_C1/LOWER SPRABERRY SHALE

-4,083.0

6,751.0

Daily Drilling Report

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Printed: Sunday, December 6, 2020

Daily Drilling Report

ENSIGN - 133

Accept: 12/5/2020	Release:
Days Since LTI: 176.00	Days Since RI: 176.00

PERMIAN - JV SOUTHERN WOLFCAMP	
Job:	ODR
Report Date:	12/6/2020
Report #:	3
DFS:	2
AFE #:	9009120
Total AFE + Sup:	\$2,683,002.54
Daily Field Est. (Cost):	\$42,044.77

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)
269_0_DEAN	-4,578.0		7,246.0		
270_0_WFMP_A1	-4,743.0		7,411.0		
272_0_WFMP_A2	-4,849.0		7,517.0		
INTENDED LANDING POINT (ILP)	-4,945.0		7,613.0		
TARGET #1	-4,950.0		7,618.0		
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	
BROWN, DAN, SUPERINTENDENT	SUPERINTENDENT		469-203-9731	DAN.BROWN@PXD.COM	
JACOBS, TUCKER, ENGINEER	ENGINEER	972-444-9001	361-318-6782	TUCKER.JACOBS@PXD.COM	
PEARCE, JIMMY, WELLSITE SUPERVISOR	WELLSITE SUPERVISOR		661-667-7023	JIMMY.PEARCE@PXD.COM	
COX, JASON, WELLSITE SUPERVISOR	WELLSITE SUPERVISOR		281-733-1241	JASON.COX@PXD.COM	
YATES, STEVE, MUD ENGINEER	MUD ENGINEER		979-212-1948	STEVE.YATES@PXD.COM	
RIG-ENSIGN 133, RIG PHONE	RIG PHONE	432-355-3047	432-530-1214		
Personnel Log					
Company				Count	
PIONEER NATURAL RESOURCES USA INC				4	
ENSIGN ENERGY SERVICES				26	
PHOENIX TECHNOLOGY SERVICES USA INC				0	
GORDON TECHNOLOGIES LLC				0	
STRATAGRAPH INC				0	
SAFETY AUTOMATION TECHNOLOGY LLC				1	
HALLIBURTON ENERGY SERVICES INC				0	
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Daily Drilling Report					
Page 3/3					
Printed: Sunday, December 6, 2020					

Daily Drilling Report

ENSIGN - 133

Accept: 12/5/2020	Release:
Days Since LTI: 177.00	Days Since RI: 177.00

PERMIAN - JV SOUTHERN WOLFCAMP	
Job:	ODR
Report Date:	12/7/2020
Report #:	4
DFS:	3
AFE #:	9009120
Total AFE + Sup:	\$2,683,002.54
Daily Field Est. (Cost):	\$46,587.50

[illegible]

PIONEER

NATURAL RESOURCES

Daily Drilling Report

UNIVERSITY 10-11C 3H

ENSIGN - 133

Accept: 12/5/2020 Release:

Days Since LTI: 177.00 Days Since RI: 177.00

PERMIAN - JV SOUTHERN WOLFCAMP

Job: ODR

Report Date: 12/7/2020

Report #: 4

DFS: 3

AFE #: 9009120

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

Daily Field Est. (Cost): \$46,587.50

Mud Checks

Time 22:00		Mud Company PIONEER DRILLING FLUIDS		Type WATER BASE	Depth (ftKB) 1,027.0	Density (lb/gal) 8.30	Funnel Viscosity (s/qt) 28	T Flowline (°F)
PV (cP) 1.0	YP (lb/100ft²) 1.000	Vis 3rpm 0	Vis 6rpm 0	Filtrate (mL/30min) 0.0	HTHP Filtrate (mL/30min)	HTHP Temperature (°F)		HTHP Pressure (psi)
Solids (%) 0.0		Low Gravity Solids (%) 0.0		Sand (%) 0.0	MBT (lb/bbl) 0.0	Pm (mL/mL) 0.000		Pf (mL/mL)
Chlorides (ppm) 300,000.000		Calcium (ppm) 160,000.000		CaCl (ppm)	Oil Water Ratio 0/100	Electric Stab (V)		Lime (lb/bbl) pH 7.0
Gel 10 sec (lb/100ft²) 0.000				Gel 10 min (lb/100ft²) 0.000		Gel 30 min (lb/100ft²) 0.000		
Comment DAILY COST \$ \$2,125.00 TOTAL WELL COST \$ \$4,250.00 RECOMMENDED FLUID TREATMENT DRILLING FLUID ACTIVITY LAST 24 HRS No treatment at present time. Check is for water source on pad. No fluid in pits. Rig up lines from tank farm to mud pits. WELL VOLUMES RECAP Daily Diesel Used GAL Cumulative Diesel Used GAL Daily WBM Surface Losses BBL Daily WBM Downhole Losses BBL Cumulative WBM Surface Losses BBL Cumulative WBM Downhole Losses BBL WBM Volume Accounting 1,822 BBL Total WBM Received BBL Total WBM on Location 1,822 BBL Daily Water Used BBL Cumulative Water Used BBL RIG ACTIVITY LAST 24 HOURS Rig 100% moved from University 10-11C 3H, continued rigging up.								
Last BOP Test								
Date		Test Type		Item Tested	Next Test Date	Com		
Leak Off and Formation Integrity Tests								
Test Type		Depth (ftKB)			Dens Fluid (lb/gal)			
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
Kick Offs & Key Depths								
Date		Type			Top Depth (ftKB)		Depth Top (TVD) (ftKB)	
Casing Strings								
Description	Set Depth (ftKB)	Set Depth (TVD) (ftKB)	OD (in)	Grade	Wt/Len (lb/ft)	Top Thread	P LeakOff (psi)	
CONDUCTOR	125.0		20	H40	78.67			
SURFACE	1,027.7	1,027.1	13 3/8	K55	54.50	BTC		
Job Supply Amounts								
Supply Item Des	Type	Unit Label	Received	Consumed	Returned	Note	Cum On Loc	Cum Consumed
DIESEL	FUEL	GAL	0	453	0	Rig Fuel	2,201	653.0
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		
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	Description FINAL SURVEY					Job		
Date 11/11/2020	Description AS DRILL SURVEY					Job ODR, 11/11/2020 17:30		
Formations								
Formation Name	Prog Top (TVD SS) Override (ft(elv))	Prog Top MD (ftKB)	Prog Top (TVD) (ftKB)	Final Top MD (ftKB)	Final Top (TVD) (ftKB)			
251_0_RSRL	1,600.0		1,068.0					
251_0_SLDO	1,550.0		1,118.0					
255_0_TNSL_TOP_DOL	980.0		1,688.0					
256_0_YATES	930.0		1,738.0					
257_0_SEVEN RIVERS	630.0		2,038.0					
258_0_QUEEN	166.0		2,502.0					
259_0_GRAYBURG	-311.0		2,979.0					
261_0_SAN ANDRES	-505.0		3,173.0					
263_0_SAN ANDRES SHALE	-1,398.0		4,066.0					
265_0_CLEARFORK/POP	-2,288.0		4,956.0					
267_0_SPBY_U_A1/267_0_SPBY	-3,172.0		5,840.0					
268_7_SPBY_L_C1/LOWER SPRABERRY SHALE	-4,083.0		6,751.0					
269_0_DEAN	-4,578.0		7,246.0					
270_0_WFMP_A1	-4,743.0		7,411.0					
272_0_WFMP_A2	-4,849.0		7,517.0					
Daily Drilling Report								

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Printed: Monday, December 7, 2020

Daily Drilling Report

ENSIGN - 133

Accept: 12/5/2020	Release:
Days Since LTI: 177.00	Days Since RI: 177.00

PERMIAN - JV SOUTHERN WOLFCAMP	
Job:	ODR
Report Date:	12/7/2020
Report #:	4
DFS:	3
AFE #:	9009120
Total AFE + Sup:	\$2,683,002.54
Daily Field Est. (Cost):	\$46,587.50

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)
INTENDED LANDING POINT (ILP)	-4,945.0		7,613.0		
TARGET #1	-4,950.0		7,618.0		
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	
BROWN, DAN, SUPERINTENDENT	SUPERINTENDENT		469-203-9731	DAN.BROWN@PXD.COM	
JACOBS, TUCKER, ENGINEER	ENGINEER	972-444-9001	361-318-6782	TUCKER.JACOBS@PXD.COM	
PEARCE, JIMMY, WELLSITE SUPERVISOR	WELLSITE SUPERVISOR		661-667-7023	JIMMY.PEARCE@PXD.COM	
COX, JASON, WELLSITE SUPERVISOR	WELLSITE SUPERVISOR		281-733-1241	JASON.COX@PXD.COM	
YATES, STEVE, MUD ENGINEER	MUD ENGINEER		979-212-1948	STEVE.YATES@PXD.COM	
RIG-ENSIGN 133, RIG PHONE	RIG PHONE	432-355-3047	432-530-1214		
Personnel Log					
Company				Count	
PIONEER NATURAL RESOURCES USA INC				4	
ENSIGN ENERGY SERVICES				26	
PHOENIX TECHNOLOGY SERVICES USA INC				0	
GORDON TECHNOLOGIES LLC				0	
STRATAGRAPH INC				0	
SAFETY AUTOMATION TECHNOLOGY LLC				1	
HALLIBURTON ENERGY SERVICES INC				0	
Daily Drilling Report					
Page 3/3					
Printed: Monday, December 7, 2020					

Daily Drilling Report

UNIVERSITY 10-11C 3H				PERMIAN - JV SOUTHERN WOLFCAMP	
ENSIGN - 133				Job:	ODR
Accept: 12/5/2020		Release:		Report Date:	12/8/2020
Days Since LTI: 178.00		Days Since RI: 178.00		Report #:	5
				DFS:	4
				AFE #:	9009120
				Total AFE + Sup:	\$2,683,002.54
				Daily Field Est. (Cost):	\$74,483.08

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 Intermediate on well 1 of 3, sequentially.					
Daily Operations												
Footage/Meterage (ft) 0.00		Drilling Hours (hr)		% Rotating Time (%)		End Depth (ftKB) 1,049.0		Target Depth (ftKB) 20,511.0		Daily Field Est Total (Cost) 74,483.08	Cum Field Est To Date (Cost) 455,555.35	
24 HR ROP (ft/hr)		Circulating Hours (hr)		% Sliding Time (%)		End Depth (TVD) (ftKB) 1,048.4		Target Depth (TVD) (ftKB) 7,643.0		Daily Mud Field Est (Cost)	Cum Mud Field Est (Cost)	Total AFE + Sup (Cost) 2,683,002.54
Daily Goal Description DRILLED FEET				Daily Goal - Last 24 0.0			Daily Goal - Next 24 3,000.0			Goal Comments Goal Met		
Backbuild		Lateral Inclination		Last Casing String SURFACE, 1,027.7ftKB				Next Casing String PROPOSED INTERMEDIATE, 6,973.0ftKB				
Avg Connection Gas 0.00		Avg Trip Gas 0.00			Avg Background Gas 0.00		Max Connection Gas 0.00		Max Trip Gas 0.00		Max Drill Gas 0.00	
Operations Summary MIRU on University 10-11C 3H. PU Top Drive Track, PU Top Drive & Connect Service Loops, NU BOP's, Dress Out Top Drive, fill pits with fluid, Test BOPE. Install wear bushing, Pick up BHA												
Operations Next Report Period Finish picking up BHA, pick up pipe going in the hole to Float collar (985'), Drill shoe track plus 10', perform FIT. Drill 12 1/4 intermediate												
Operations at Report Time Picking up BHA												
Remarks Surface - 100% Intermediate - 0% Production Curve - 0% Production Lateral - 0%												
Time Log												
Start Time	Dur (hr)	End Time	Phase	Operation	Ops Category	Com		Start Depth (ftKB)	End Depth (ftKB)	Prob Hrs (hr)	Prob Ref #	
06:00	2	08:00	MOB, RIG UP	RU MIRU	NORMAL	Inststall Top Drive track, picked up Top Drive and lugged up same. Changed out swivel packing.		1,049.0	1,049.0			
08:00	1	09:00	MOB, RIG UP	NU_BOPE	NORMAL	Remove TA cap, Set BOP stack.		1,049.0	1,049.0			
09:00	3	12:00	MOB, RIG UP	RU MIRU	NORMAL	Pick up Top Drive and pin. Installed kelly hose, add oil to Top Drive.		1,049.0	1,049.0			
12:00	3	15:00	MOB, RIG UP	RU MIRU	NORMAL	Dress out rig floor with tongs, hang off blocks, Slip off drill line.		1,049.0	1,049.0			
15:00	3	18:00	MOB, RIG UP	RIG_RPR	NORMAL	Trouble shoot Drill line spool, fixed bracket on hydraulic roller, Trouble shoot Top Drive electrical, blower motors would kick on and off.		1,049.0	1,049.0	3.00	1	
18:00	2	20:00	MOB, RIG UP	RU MIRU	NORMAL	Install weight indicators, function test catwalk, pick up sub rack, Install Moushole.		1,049.0	1,049.0			
20:00	3.5	23:30	MOB, RIG UP	TEST_BOPE	NORMAL	Install test plug, fill stack, test floor valves and choke manifold offline to 250 psi low/5000 psi high, perform full BOP test on 5" DP. Test back to the pumps 250 psi low/5300 psi high for 5 min, test rams to 250 psi low/5000 psi high for 5 min, test annular to 250 psi low/3500 psi high for 5 min.		1,049.0	1,049.0			
23:30	0.5	00:00	INT, PRE DRL	WH	NORMAL	Install wear bushing		1,049.0	1,049.0			
00:00	0.25	00:15	INT, PRE DRL	SFTY	NORMAL	PJSM on picking up BHA.		1,049.0	1,049.0			
00:15	2	02:15	INT, PRE DRL	PU_DIR	NORMAL	P/U 9" 7/8 7.0 stg 0.18 rpg mud motor with Baker D507WX. Scribe and install MWD.		1,049.0	1,049.0			
02:15	0.25	02:30	INT, PRE DRL	SFTY	NORMAL	PJSM on picking up 8" collars and HWDP		1,049.0	1,049.0			
02:30	3.5	06:00	INT, PRE DRL	PU_BHA	NORMAL	Pick up Cougar Thruster and 8" drill collars.		1,049.0	1,049.0			
Interval Problems												
RIG, 1,049.0ftKB, 12/7/2020 15:00												
Ref #	Dur (N...	Ex...	Subtype	Problem Descript...	Est Cost OR (Cost)	Accountable Party		Comment				
1	3.00	No	ROTARY SYSTEM	TOP DRIVE		ENSIGN ENERGY SERVICES		Troubleshoot Top Driver blower motors. Blower motors were kicking on and shutting down intermittently. Found fluid in connections.				
Drill Strings												
BHA #2 , Intermediate												
Bit Run 2			Drill Bit 12 1/4in, D507WX, 5306034				Bit Type PDC		Make GE/BAKER HUGHES			
Nozzles (1/32") 12/12/12/12/12/12/12			Bit Total Fluid Area (nozzles) (in²) 0.77			IADC Bit Dull -----		Hours Drilled By Bit (hr)		Depth Drilled By Bit (ft)		
BHA Drilling Time (hr)			BHA Depth Drilled (ft)			BHA ROP (ft/hr)		Depth In (ftKB) 1,049.0		Depth Out (ftKB) 1,049.0		
Drill String Components												
Jts	Item Des				OD (in)	ID (in)	Len (ft)	Cum Len (ft)	Wt (lbf)	Cum Wt (1000lbf)	Make	
5	HWDP - INTERNALLY COATED				5	3.13	153.60	1,053.77	7,219.2	24	RIG	
Daily Drilling Report												

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Printed: Tuesday, December 8, 2020

Daily Drilling Report

PERMIAN - JV SOUTHERN WOLFCAMP	
Job:	ODR
Report Date:	12/8/2020
Report #:	5
DFS:	4
AFE #:	9009120
Total AFE + Sup:	\$2,683,002.54
Daily Field Est. (Cost):	\$74,483.08

Daily Drilling Report Page 2/3 Printed: Tuesday, December 8, 2020

Daily Drilling Report

ENSIGN - 133	
Accept: 12/5/2020	Release:
Days Since LTI: 178.00	Days Since RI: 178.00

PERMIAN - JV SOUTHERN WOLFCAMP	
Job:	ODR
Report Date:	12/8/2020
Report #:	5
DFS:	4
AFE #:	9009120
Total AFE + Sup:	\$2,683,002.54
Daily Field Est. (Cost):	\$74,483.08

Daily Drilling Report Page 3/3 Printed: Tuesday, December 8, 2020