



# UL Bighorn 21-30-19 J 4210H

Lat: 31° 41' 40.992 N Long: 103° 15' 28.943 W

AFE5382

Well ID: 18554

Report Date: 05/11/2019

## Daily Drilling Partner Report

DFS: 4 EST DAYS:

BHA NO.		3		BHA					MUD ADDITIVES										
ITEM		ITEM DESCRIPTION			JTS	OD (in)	ID (in)	LENGTH (ft)	ITEM	USED	INVENTORY								
								DEFOAMER		18 PAIL									
								ENERLOCK		50 sacks									
								ENERPAC LV		17 sacks									
								ENERPLUS		72 PAIL									
								ENERZAN		133 sacks									
								FLR		0 SK									
								GXM		0 SXS									
								GEL		0 BULK									
								GEL BULK 100		77 SXS									
								MF-55		0 pail-5 gal									
								LIME		287 sacks									
								MULTI FIBER		100 SXS									
								NUT PLUG		20 SK									
								OIL SORB		0 SXS									
								PERMASEAL		0 sacks									
								SALT GEL		202 SK									
								SILVERSEAL		0 sacks									
								SODA ASH 100		147 SXS									
								SODA ASH		2 sacks									
								WGS 25WC		330 GAL									
								WHITE STARCH		86 sacks									
								SAPP STICK		88 EA									
								SOAP STICK		83 EA									
								DESCO		420 SXS									
								KCL 50		0 SXS									
								MAGNESIUM OXIDE 55		0 SXS									
								MUD ENGINEER		0 each									
								TRUCKING											
								TRUCKING BULK											
								SHRINKWRAP		0 EA.									
								LIQ MUD HANDLINE		0 EA									
								MUD RENTAL		0 EA									
								PALLET		0 EA									
								ENG TRAVEL DAY		0 EA									
								RESTOCKING		-113 EA									
								MISC											
								DRILLING PAPER		0 SXS									
								ENERMOD		0 PAIL									
								LUBRA-GLIDE COARSE		0 SXS									
								BULK GEL RENTAL											
								BLOWER USAGE											
								BULK TANK RIG UP											
								FORK LIFT											
								WGS 546											
								GEL		70 SKS									
PLASTIC TOTE		1 GAL																	
PLASTIC TOTE		11 GAL																	
TORQUE ON BTM (ft-lbf)		TORQUE OFF BTM (ft-lbf)						TOTAL LENGTH (ft)											
								1,272.59											
STRING WEIGHT (kip)		STRING WEIGHT UP (kip)			STRING WEIGHT DWN (kip)														
Density (ppg)		9.20		Bgas (gas u		TGas (gas u		/		MUD CHECK		MUD LOST (bbl)							
FV (s/qt)	WL HTHP (cc/30min)	PV/YP (cp)/(lbf/100ft²)		GELS (lbf/100ft²)		ES	FC(32nd") /Cl(ppm)		Salt(%)	CORR(%)		CA(ppm)	OIL/WAT	ECD(ppg)	LGS/HGS (%)	ASG (sg)	LIME (lbm/bbl)		
29.00	--	--/--		--/--		--	--/186,000		--	--		1760	--/--	--	1.00/--	--	--		
LAST CEMENT JOB																			
Finished cementing the		SURFACE CASING		from	33.0'		to	5,045.0'		on		04/27/2019 23:30							
FLUID NAME		DESCRIPTION		DENSITY(ppg)		VOLUME(bbl)		SACKS USED		FLUID NAME		DESCRIPTION		DENSITY(ppg)		VOLUME(bbl)		SACKS USED	
SPACER		SPACEER		8.40						LEAD SLURRY		NEAT		12.90		800.33		2,365	
TAIL SLURRY		NEAT		13.70		115.72		390		DISPLACEMENT		BRINE		8.60					
NOTES: CEMENT SURFACE CASING																			

**Lat: 31° 41' 40.992 N   Long: 103° 15' 28.943 W**

Well ID: 18554

Report Date: 05/13/2019

## Daily Drilling Partner Report

DFS: 6 EST DAYS: 30

<b>RPT NO.</b> 08	<b>OPERATOR</b> OASIS PETROLEUM PERMIAN LLC	<b>FIELD NAME</b> ORBISON	<b>RIG NAME/NO</b> NABORS X50	<b>TMD</b> 9,249.0 usft	<b>TVD</b> 9,224.6 usft	<b>FOOTAGE</b> 1,137.0 usft	<b>ROP(Last)</b> 8.0 ft/hr	<b>AVG ROP</b> 73.4 ft/hr
<b>API</b> 4249534305		<b>STATE</b> TEXAS	<b>COUNTY</b> Winkler	<b>LOCATION</b>				<b>SIDETRACK NO</b> OH
<b>PREVIOUS WELL RIG RELEASE</b> 04/24/2019 06:00		<b>SPUD DATE</b> 04/24/2019 16:30		<b>DATE TD REACHED</b>		<b>RIG RELEASE</b> 4/28/2019 11:59:00PM		<b>REPORT DESCRIPTION</b> VERTICAL
<b>CURRENT STATUS</b> CIRC SURF TO SURF				<b>TARGET FORMATION</b> WOLFCAMP A			<b>KB ELEV</b> 2,806.0 usft	
<b>24 HR FORECAST</b> CIRC OUT GAS, CONDITION HOLE, TOH, CHANGE BHA, TIH, DRILL 8 3/4" HOLE				<b>SAFETY MEETING TOPIC</b> HANDLING SLIPS & ELVATORS			<b>ACC LST 24 HRS?</b> No	
<b>24 HR OPERATIONS SUMMARY</b> ROTARY & SLIDE DRILL TO 9,249', CIRC, TOH TO ABOVE SHOE FORCE FILLING W/ 12.0 PPG MUD, WELL FLOWING, BULLHEADED TO KILL, WELL CONT TO FLOW, DECISION TO TIH & CIRC GAS OUT, TIH								
<b>RIG DIRECTIONS</b> See Remarks for Driving Directions								
<b>LAST CASING</b> 9.625 in @ 5,045.0 usft		<b>NEXT CASING</b> 7.625 in @ 11,800.0 usft		<b>LAST BOP TEST</b>		<b>AUTH TMD</b> 11,997.0 usft		<b>SUPERVISOR / ENGINEER</b> Dave Logan / TY TSCHACHER

## BITS/BIT OPERATIONS

BIT NO	SIZE (in)	MANUF	MODEL	SERIAL #	JETS / TFA (32nd")	WOB (Min/Max) (kip)	RPM (Min/Max) (rpm)	DEPTH IN/OUT (usft)	FTG (Last/Cum) (usft)	HRS (Last/Cum) (hr)	ROP (Last/Cum) (ft/hr)	I-O-B-G-R
3	8.750	NATIONAL OILWELL VARCO	TKC76	A260967	7 / 13 / 0.907	40.0/48.0	50/70	5,045.0 9,249.0	1,137.0 4,204.0	15.50 37.00	73.4 113.6	3-6-X- I-PR

## OPERATION DETAILS

HOURS	DURATION (hr)	PHASE	CODE	SUBCODE	DESCRIPTION
06:00 - 10:00	4.00	1INTD	DRILLING	NEW HOLE ROTARY	ROTARY DRILL F/ 8,112' TO 8,496' ( 384'@96 FT/HR ) WOB 45K, RPM 65, GPM 730@ 3310 PSI, DIFF 502 PSI, TQ 12K, PU 250 KLBS, S/O 190 KLBS, ROT 220 KLBS MW 9.3+ PPG
10:00 - 14:00	4.00	1INTD	DRILLING	NEW HOLE ROTARY	ROTARY DRILL F/ 8,496' TO 8,826' ( 330'@82 FT/HR ) WOB 45K, RPM 65, GPM 730@ 3310 PSI, DIFF 502 PSI, TQ 12K, PU 255 KLBS, S/O 200 KLBS, ROT 225 KLBS MW 9.3 PPG
14:00 - 17:00	3.00	1INTD	DRILLING	NEW HOLE ROTARY	ROTARY DRILL F/ 8,826' TO 9,051' ( 225'@75 FT/HR ) WOB 48K, RPM 65, GPM 730@ 3102 PSI, DIFF 400 PSI, TQ 12K, PU 255 KLBS, S/O 200 KLBS, ROT 225 KLBS MW 9.3 PPG
17:00 - 17:30	0.50	1INTD	RIG SERVICE ALOTTED	RIG SERVICE	GREASE CROWN, TOP DRIVE & SWIVEL PACKING
17:30 - 18:00	0.50	1INTD	DRILLING	NEW HOLE ROTARY	ROTARY DRILL F/ 9,051' TO 9,096' ( 45'@45 FT/HR ) WOB 48K, RPM 65, GPM 730@ 3102 PSI, DIFF 400 PSI, TQ 12K, PU 255 KLBS, S/O 200 KLBS, ROT 225 KLBS MW 9.3 PPG
18:00 - 18:30	0.50	1INTD	DRILLING	NEW HOLE ROTARY	ROTARY DRILL F/ 9,096' TO 9,141' ( 45'@90 FT/HR ) WOB 48K, RPM 65, GPM 730@ 3102 PSI, DIFF 400 PSI, TQ 12K, PU 280 KLBS, S/O 210 KLBS, ROT 235 KLBS MW 9.3 PPG
18:30 - 20:00	1.50	1INTD	DRILLING	NEW HOLE SLIDING	SLIDE DRILL F/ 9,141' TO 9,180' ( 39'@ 26 FT/HR ) WOB 35K, GPM 730 @ 3200 PSI, DIFF 300 PSI, TF 235° M
20:00 - 22:00	2.00	1INTD	DRILLING	NEW HOLE ROTARY	ROTARY DRILL F/ 9,180' TO 9,249' ( 69'@34 FT/HR ) WOB 48K, RPM 50-65, GPM 730@ 3420 PSI, DIFF 350 PSI, TQ 12K, PU 280 KLBS, S/O 210 KLBS, ROT 240 KLBS MW 9.4 PPG ROP DROPPED TO LESS THAN 10 FPH FOR THE LAST HR
22:00 - 23:00	1.00	1INTD	CIRCULATING	HOLE CONDITIONING	CIRC HOLE CLEAN. FILLED TRIP TANK WITH 12.0 PPG MUD. PREPARED AND PUMPED SLUG.
23:00 - 00:30	1.50	1INTD	TRIP IN / TRIP OUT	TRIP IN / TRIP OUT	POOH TO 4,934'. FORCE FILLING ANNULUS WITH 12.0 PPG MUD.
00:30 - 01:00	0.50	1INTD	TRIP IN / TRIP OUT	SAFETY	FLOW CHECKED WELL FLOWING. WHILE MONITORING THE WELL FOUND THAT ORBIT VAVLE WAS LEAKING.
01:00 - 03:30	2.50	1INTD	TRIP IN / TRIP OUT	SAFETY	CLOSE ANNULAR BULLHEADED 40 BBLS 12.0 PPG MUD DOWN ANNULUS AT 2 BPM 250 PSI, SHUT DOWN OPENED WELL OBSERVED FLOWING AT 1.5 BPM, SHUT IN AND BULLHEADED AN ADDITIONAL 20 BBLS 12.0 PPG MUD AT 2 BPM 150 PSI, OPENED WELL OBSERVED FLOWING AT .2BPM ( 12 BPH), SHUT IN WELL BULLHEADED ADDITIONAL 20 BBLS 12.0 PPG MUD AT 4 BPM 200 PSI, OPENED WELL FLOW CHECKED WELL FLOWING .
03:30 - 05:30	2.00	1INTD	TRIP IN / TRIP OUT	TRIP IN / TRIP OUT	TRIP BACK TO BTM @ 9,249' - NO RETURNS
05:30 - 06:00	0.50	1INTD	CIRCULATING	HOLE CONDITIONING	CIRCULATE SURFACE TO SURFACE

COMMENT: RIG OFF LOCATION: 9-1-19 EST. BOTH CREWS FULL

SURVEY DATA												LAST SURVEY@9,072.0 N/S		-340.5	E/W	-294.6
MD (usft)	INCL (°)	AZI (°)	TVD (usft)	VS (usft)	DLS (°/100ft)	N/S	E/W	MD (usft)	INCL (°)	AZI (°)	TVD (usft)	VS (usft)	DLS (°/100ft)	N/S	E/W	
7,105.0	3.81	218.50	7,082.5	-193.4	0.36	-285.4	-256.6	8,178.0	2.76	222.45	8,153.9	-225.2	0.14	-330.4	-292.8	
7,283.0	3.66	216.96	7,260.1	-200.0	0.10	-294.6	-263.7	8,357.0	1.58	223.05	8,332.8	-228.5	0.66	-335.4	-297.4	
7,462.0	3.05	215.00	7,438.8	-206.1	0.35	-303.1	-269.9	8,535.0	1.44	216.14	8,510.7	-231.0	0.13	-339.0	-300.4	
7,641.0	2.60	216.97	7,617.6	-211.4	0.26	-310.2	-275.0	8,714.0	0.57	69.22	8,689.7	-232.3	1.09	-340.5	-300.9	
7,820.0	2.92	221.03	7,796.4	-216.1	0.21	-316.9	-280.5	8,893.0	1.18	87.50	8,868.7	-232.7	0.37	-340.1	-298.2	
7,999.0	3.01	222.90	7,975.2	-220.7	0.07	-323.8	-286.7	9,072.0	1.19	106.69	9,047.7	-234.3	0.22	-340.5	-294.6	

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Lat: 31° 41' 40.992 N Long: 103° 15' 28.943 W

AFE5382

Well ID: 18554

Report Date: 05/13/2019

## Daily Drilling Partner Report

DFS: 6 EST DAYS: 30

BHA NO.	3	BHA					MUD ADDITIVES													
ITEM		ITEM DESCRIPTION	JTS	OD (in)	ID (in)	LENGTH (ft)	ITEM	USED	INVENTORY											
Heavy Weight Drill Pipe		21-4.75"	27	4.750	2.750	858.84	AES MUL X		650 GAL											
Cross Over		XO		6.500	2.875	3.61	AES VIS III		0 SK											
Spiral Drill Collar		9-6.5"	9	6.500	2.875	279.00	AES VIS LS		0 SK											
Shock Sub		SHOCK		6.500	2.250	11.38	AES WA II		550 GAL											
Cross Over		XO		6.750	2.000	4.00	AES WASH		375 GAL											
Non-Mag Drill Collar		NMDC		7.500	3.500	31.05	AGRI PLUG		60 SXS											
Hang-Off Sub		PULSER		6.750	3.500	6.30	BARITE		800 BULK											
MWD Tool		TC		7.000	3.500	31.08	BARITE	56.00 sacks	40 sacks											
Integral Blade Stabilizer		NORTRACK		8.000	2.125	4.83	BLUE MAX		30 PAIL											
Steerable Motor		SDI 1700111 / 6/7 7.1 @ 1.5 ADJ/ NBS 8" FBH. RPG 0.23		7.000	1.000	41.50	CACL2		239 SK											
Polycrystalline Diamond Bit		REED 8.75" TKC76 S/N A260967 7 X 13		8.750	1.000	1.00	CASUSIC SODA		0 SK											
							CEDAR FIBER		60 SXS											
							DEFOAMER	3.00 PAIL	22 PAIL											
							ENERLOCK		50 sacks											
							ENERPAC LV		17 sacks											
							ENERPLUS		72 PAIL											
							ENERZAN	5.00 sacks	107 sacks											
							FLR		0 SK											
							GXM		0 SXS											
							GEL		0 BULK											
							GEL BULK 100		77 SXS											
							MF-55		0 pail-5 gal											
							LIME	65.00 sacks	235 sacks											
							MULTI FIBER		100 SXS											
							NUT PLUG		20 SK											
							OIL SORB		0 SXS											
							PERMASEAL		0 sacks											
							SALT GEL		202 SK											
							SILVERSEAL		0 sacks											
							SODA ASH 100	21.00 SXS	85 SXS											
							SODA ASH		2 sacks											
							WGS 25WC		330 GAL											
							WHITE STARCH		86 sacks											
							SAPP STICK		88 EA											
							SOAP STICK		83 EA											
							DESCO		420 SXS											
							KCL 50		0 SXS											
							MAGNESIUM OXIDE 55		0 SXS											
							MUD ENGINEER	1.00 each	0 each											
							TRUCKING													
							TRUCKING BULK	302.00												
							SHRINKWRAP		0 EA.											
							LIQ MUD HANDLINE		0 EA											
							MUD RENTAL		0 EA											
							PALLET		0 EA											
							ENG TRAVEL DAY		0 EA											
							RESTOCKING		-113 EA											
							MISC													
							DRILLING PAPER		0 SXS											
							ENERMOD		0 PAIL											
							LUBRA-GLIDE COARSE		0 SXS											
							BULK GEL RENTAL													
							BLOWER USAGE													
							BULK TANK RIG UP													
							FORK LIFT													
							WGS 546													
							GEL	8.00 SKS	58 SKS											
							PLASTIC TOTE		1 GAL											
							PLASTIC TOTE		11 GAL											
							TORQUE ON BTM (ft-lbf)		TORQUE OFF BTM (ft-lbf)				TOTAL LENGTH (ft)							
							10,000.0						1,272.59							
							STRING WEIGHT (kip)		STRING WEIGHT UP (kip)		STRING WEIGHT DWN (kip)									
							240.0		280.0		210.0									
							Density (ppg)		9.40		Bgas (gas u)		TGas (gas u) /		MUD CHECK		MUD LOST (bbl)			
							FV (s/qt)	WL HTHP (cc/30min)	PV/YP (cp)/(lb/100ft²)		GELS (lb/100ft²)		ES	FC(32nd") /Cl(ppm)		Salt(%)	CORR(%)		CA(ppm)	OIL/WAT
30.00	--	1.00/1.000		1.000/1.000		--	1.0/73,000		--	--		1600	--/--	--	3.00/--	--	2.00			
LAST CEMENT JOB																				
Finished cementing the		SURFACE CASING		from	33.0'	to	5,045.0'	on 04/27/2019 23:30												
FLUID NAME		DESCRIPTION		DENSITY(ppg)		VOLUME(bbl)		SACKS USED		FLUID NAME		DESCRIPTION		DENSITY(ppg)		VOLUME(bbl)		SACKS USED		
SPACER		SPACEER		8.40						LEAD SLURRY		NEAT		12.90		800.33		2,365		
TAIL SLURRY		NEAT		13.70		115.72		390		DISPLACEMENT		BRINE		8.60						
NOTES: CEMENT SURFACE CASING																				

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**AFE5382**

Well ID: 18554

DFS: 7 EST DAYS: 30

Page 2 of 3

UL Bighorn 21-30-19 J 4210H

Lat: 31° 41' 40.992 N Long: 103° 15' 28.943 W

AFE5382

Well ID: 18554

Report Date: 05/14/2019

Daily Drilling Partner Report

DFS: 7 EST DAYS: 30

LAST CEMENT JOB

Finished cementing the

SURFACE CASING

from

33.0'

to

5,045.0'

on

04/27/2019 23:30

FLUID NAME	DESCRIPTION	DENSITY(ppg)	VOLUME(bbl)	SACKS USED	FLUID NAME	DESCRIPTION	DENSITY(ppg)	VOLUME(bbl)	SACKS USED
SPACER	SPACEER	8.40			LEAD SLURRY	NEAT	12.90	800.33	2,365
TAIL SLURRY	NEAT	13.70	115.72	390	DISPLACEMENT	BRINE	8.60		

NOTES: CEMENT SURFACE CASING



# UL Bighorn 21-30-19 J 4210H

Lat: 31° 41' 40.992 N Long: 103° 15' 28.943 W

AFE5382

Well ID: 18554

Report Date: 05/15/2019

## Daily Drilling Partner Report

DFS: 9 EST DAYS: 30

BHA NO.	4	BHA					MUD ADDITIVES							
ITEM		ITEM DESCRIPTION	JTS	OD (in)	ID (in)	LENGTH (ft)	ITEM	USED	INVENTORY					
MWD Tool		TC		7.000	3.500	31.08	BARITE		280 sacks					
Integral Blade Stabilizer		NORTRACK		8.000	2.125	4.83	BLUE MAX		30 PAIL					
Steerable Motor		SDI 1700026 / 6/7 7.1 @ 1.5 FIXED/ NBS 8" FBH. RPG 0.23		7.000	1.000	41.50	CACL2		239 SK					
Polycrystalline Diamond Bit		HALLIBURTON 8.75" GT75DK S/N 13123512 7 X 12		8.750	1.000	1.00	CASUSIC SODA		0 SK					
							CEDAR FIBER		60 SXS					
							DEFOAMER		22 PAIL					
							ENERLOCK		50 sacks					
							ENERPAC LV		17 sacks					
							ENERPLUS		72 PAIL					
							ENERZAN		107 sacks					
							FLR		0 SK					
							GXM		0 SXS					
							GEL		0 BULK					
							GEL BULK 100	40.00 SXS	260 SXS					
							MF-55		0 pail-5 gal					
							LIME	30.00 sacks	205 sacks					
							MULTI FIBER		100 SXS					
							NUT PLUG		20 SK					
							OIL SORB		0 SXS					
							PERMASEAL		0 sacks					
							SALT GEL		202 SK					
							SILVERSEAL		0 sacks					
							SODAASH 100	6.00 SXS	79 SXS					
							SODAASH		2 sacks					
							WGS 25WC		330 GAL					
							WHITE STARCH		86 sacks					
							SAPP STICK		88 EA					
							SOAP STICK		83 EA					
							DESCO		420 SXS					
							KCL 50		0 SXS					
							MAGNESIUM OXIDE 55		0 SXS					
							MUD ENGINEER	1.00 each	0 each					
							TRUCKING							
							TRUCKING BULK							
							SHRINKWRAP		0 EA.					
							LIQ MUD HANDLINE		0 EA					
							MUD RENTAL		0 EA					
							PALLET		0 EA					
							ENG TRAVEL DAY		0 EA					
							RESTOCKING		-113 EA					
							MISC							
							DRILLING PAPER		0 SXS					
							ENERMOD		0 PAIL					
							LUBRA-GLIDE COARSE		0 SXS					
							BULK GEL RENTAL							
							BLOWER USAGE							
							BULK TANK RIG UP							
							FORK LIFT							
							WGS 546							
GEL		58 SKS												
PLASTIC TOTE		1 GAL												
PLASTIC TOTE		11 GAL												
TORQUE ON BTM (ft-lbf)		TORQUE OFF BTM (ft-lbf)				TOTAL LENGTH (ft)								
11,000.0		8,500.0				1,272.59								
STRING WEIGHT (kip)		STRING WEIGHT UP (kip)	STRING WEIGHT DWN (kip)											
255.0		300.0	215.0											
Density (ppg)	9.50	Bgas (gas u)	TGas (gas u)	/		MUD CHECK	MUD LOST (bbl)							
FV (s/qt)	WL HTHP (cc/30min)	PV/YP (cp)/(lbf/100ft²)	GELS (lbf/100ft²)	ES	FC(32nd") /Cl(ppm)	Salt(%)	CORR(%)	CA(ppm)	OIL/WAT	ECD(ppg)	LGS/HGS (%)	ASG (sg)	LIME (lbm/bbl)	
30.00	--	1.00/1.000	1.000/1.000	--	1.0/95,000	--	--	5600	--/--	--	2.60/--	--	0.20	
LAST CEMENT JOB														
Finished cementing the		SURFACE CASING		from	33.0'	to	5,045.0'	on 04/27/2019 23:30						
FLUID NAME		DESCRIPTION		DENSITY(ppg)	VOLUME(bbl)	SACKS USED		FLUID NAME		DESCRIPTION		DENSITY(ppg)	VOLUME(bbl)	SACKS USED
SPACER		SPACEER		8.40				LEAD SLURRY		NEAT		12.90	800.33	2,365
TAIL SLURRY		NEAT		13.70	115.72	390		DISPLACEMENT		BRINE		8.60		
NOTES: CEMENT SURFACE CASING														

UL Bighorn 21-30-19 J 4210H												AFE5382									
Lat: 31° 41' 40.992 N Long: 103° 15' 28.943 W												Well ID: 18554									
Report Date: 05/16/2019												Daily Drilling Partner Report			DFS: 10 EST DAYS: 30						
RPT NO: 11		OPERATOR: OASIS PETROLEUM PERMIAN LLC			FIELD NAME: ORBISON			RIG NAME/NO: NABORS X50			TMD: 11,085.0 usft		TVD: 11,058.7 usft		FOOTAGE: 935.0 usft		ROP(Last): 70.0 ft/hr		AVG ROP: 42.5 ft/hr		
API: 4249534305				STATE: TEXAS			COUNTY: Winkler			LOCATION:						SIDETRACK NO: OH					
PREVIOUS WELL RIG RELEASE: 04/24/2019 06:00				SPUD DATE: 04/24/2019 16:30			DATE TD REACHED:			RIG RELEASE: 4/28/2019 11:59:00PM			REPORT DESCRIPTION: VERTICAL								
CURRENT STATUS: DRILLING AT 11,085'								TARGET FORMATION: WOLFCAMP A						KB ELEV: 2,806.0 usft							
24 HR FORECAST: DRILL TO KOP, CIRC, TOH, PU CURVE BHA, TIH, DRLG 8 3/4" CURVE SECTION TO CS								SAFETY MEETING TOPIC: HAND & BODY PLACEMENT				ACC LST 24 HRS?: No									
24 HR OPERATIONS SUMMARY:																					
-																					
RIG DIRECTIONS: See Remarks for Driving Directions																					
LAST CASING: 9.625 in @ 5,045.0 usft				NEXT CASING: 7.625 in @ 11,800.0 usft				LAST BOP TEST: 5/3/2019		AUTH TMD: 11,997.0 usft				SUPERVISOR / ENGINEER: Dee Allen Woodward / TY TSCHACHER							
BITS/BIT OPERATIONS																					
BIT NO		SIZE (in)	MANUF	MODEL	SERIAL #	JETS / TFA (32nd")		WOB (Min/Max) (kip)	RPM (Min/Max) (rpm)	DEPTH IN/OUT (usft)		FTG (Last/Cum) (usft)	HRS (Last/Cum) (hr)	ROP (Last/Cum) (ft/hr)	I-O-B-G-R						
4		8.750	HALLIBURTON ENERGY SERVICES INC	GT75DK	13123512	7 / 12 / 0.773		40.0/50.0	55/65	9,249.0 11,249.0		935.0 1,836.0	22.00 49.00	42.5 37.5	3-3-X- I-TD						
OPERATION DETAILS												Total Hours		24.00							
HOURS		DURATION (hr)		PHASE		CODE		SUBCODE		DESCRIPTION											
06:00 - 11:00		5.00		1INTD		DRILLING		NEW HOLE ROTARY		ROTARY DRILL F/ 10,150' TO 10,393' (243'@49 FT/HR) WOB 48K, RPM 60, GPM 730@ 3750 PSI, DIFF 800 PSI, TQ 12K, PU 310 KLBS, S/O 220 KLBS, ROT 255 KLBS - MW 9.5 PPG											
11:00 - 11:30		0.50		1INTD		CIRCULATING		HOLE CONDITIONING		CIRCULATE OUT 4000 UNITS GAS PRIOR TO MAKING CONNECTION.											
11:30 - 15:00		3.50		1INTD		DRILLING		NEW HOLE ROTARY		ROTARY DRILL F/ 10,393' TO 10,572' (179'@51 FT/HR) WOB 48K, RPM 60, GPM 730@ 4000 PSI, DIFF 800 PSI, TQ 12K, PU 310 KLBS, S/O 220 KLBS, ROT 250 KLBS - MW 9.5 PPG											
15:00 - 16:00		1.00		1INTD		CIRCULATING		HOLE CONDITIONING		CIRCULATE OUT 5000 UNITS GAS PRIOR TO MAKING CONNECTION.											
16:00 - 16:30		0.50		1INTD		DRILLING		NEW HOLE ROTARY		ROTARY DRILL F/ 10,572' TO 10,588' (16'@32 FT/HR) WOB 48K, RPM 60, GPM 730@ 4000 PSI, DIFF 800 PSI, TQ 12K, PU 310 KLBS, S/O 220 KLBS, ROT 250 KLBS - MW 9.5 PPG											
16:30 - 18:30		2.00		1INTD		DRILLING		NEW HOLE SLIDING		SLIDE DRILL F/ 10,588' TO 10,620' (32'@ 16 FT/HR) WOB 50K, GPM 696 @ 3700 PSI, DIFF 200 PSI, TF 90R MUD WT 9.5+ PPG											
18:30 - 21:00		2.50		1INTD		DRILLING		NEW HOLE ROTARY		ROTARY DRILL F/ 10,620' TO 10,753' (133'@53 FT/HR) WOB 48K, RPM 60, GPM 730@ 3800 PSI, DIFF 400 PSI, TQ 14K, PU 320 KLBS, S/O 220 KLBS, ROT 250 KLBS - MW 9.5+ PPG											
21:00 - 22:30		1.50		1INTD		DRILLING		NEW HOLE SLIDING		SLIDE DRILL F/ 10,753' TO 10,793' (40'@ 27 FT/HR) WOB 50K, GPM 696 @ 3700 PSI, DIFF 200 PSI, TF 60°M MUD WT 9.5+ PPG											
22:30 - 01:30		3.00		1INTD		DRILLING		NEW HOLE ROTARY		ROTARY DRILL F/ 10,793' TO 10,929' (136'@45 FT/HR) WOB 48K, RPM 60, GPM 730@ 3800 PSI, DIFF 400 PSI, TQ 14K, PU 320 KLBS, S/O 220 KLBS, ROT 250 KLBS - MW 9.5+ PPG											
01:30 - 02:00		0.50		1INTD		RIG SERVICE ALOTTED		RIG SERVICE		GREASED SWIVEL, BLOCKS, BUW, TIGHTENED BOLTS IN IBOP, GREASED IBOP, FILLED BRAKE W/ OIL.											
02:00 - 04:00		2.00		1INTD		DRILLING		NEW HOLE SLIDING		SLIDE DRILL F/ 10,929' TO 10,985' (56'@ 28 FT/HR) WOB 50K, GPM 696 @ 3580 PSI, DIFF 225 PSI, TF 60°M MUD WT 9.5+ PPG											
04:00 - 06:00		2.00		1INTD		DRILLING		NEW HOLE ROTARY		ROTARY DRILL F/ 10,985' TO 11,085' (100'@50 FT/HR) WOB 48K, RPM 60, GPM 730@ 3800 PSI, DIFF 400 PSI, TQ 14K, PU 320 KLBS, S/O 220 KLBS, ROT 250 KLBS - MW 9.5+ PPG											
COMMENT: RIG OFF LOCATION: 9-1-19 EST. DAY CREW SHORT 1 MAN																					
SURVEY DATA												LAST SURVEY@10,860.0 N/S				-383.8		E/W		-339.5	
MD (usft)		INCL (°)	AZI (°)	TVD (usft)	VS (usft)	DLS (°/100ft)	N/S	E/W	MD (usft)		INCL (°)	AZI (°)	TVD (usft)	VS (usft)	DLS (°/100ft)	N/S	E/W				
8,893.0		1.18	87.50	8,868.7	-232.7	0.37	-340.1	-298.2	9,966.0		2.50	221.20	9,940.5	-266.0	0.58	-378.0	-307.4				
9,072.0		1.19	106.69	9,047.7	-234.3	0.22	-340.5	-294.6	10,145.0		1.26	253.63	10,119.4	-268.0	0.89						

Lat: 31° 41' 40.992 N Long: 103° 15' 28.943 W

Well ID: 18554

Report Date: 05/16/2019

## Daily Drilling Partner Report

DFS: 10 EST DAYS: 30

BHA NO.		4	BHA				MUD ADDITIVES												
ITEM		ITEM DESCRIPTION		JTS	OD (in)	ID (in)	LENGTH (ft)	ITEM	USED	INVENTORY									
Non-Mag Drill Collar		NMDC			7.500	3.500	31.05	AGRI PLUG		60 SXS									
Hang-Off Sub		PULSER			6.750	3.500	6.30	BARITE		917 BULK									
MWD Tool		TC			7.000	3.500	31.08	BARITE		280 sacks									
Integral Blade Stabilizer		NORTRACK			8.000	2.125	4.83	BLUE MAX		30 PAIL									
Steerable Motor		SDI 1700026 / 6/7 7.1 @ 1.5 FIXED/ NBS 8" FBH. RPG 0.23			7.000	1.000	41.50	CACL2		239 SK									
Polycrystalline Diamond Bit		HALLIBURTON 8.75" GT75DK S/N 13123512 7 X 12			8.750	1.000	1.00	CASUSIC SODA		0 SK									
								CEDAR FIBER		60 SXS									
								DEFOAMER		22 PAIL									
								ENERLOCK	10.00 sacks	40 sacks									
								ENERPAC LV		17 sacks									
								ENERPLUS		72 PAIL									
								ENERZAN	4.00 sacks	103 sacks									
								FLR		0 SK									
								GXM		0 SXS									
								GEL		0 BULK									
								GEL BULK 100	60.00 SXS	200 SXS									
								MF-55		0 pail-5 gal									
								LIME	15.00 sacks	190 sacks									
								MULTI FIBER	10.00 SXS	90 SXS									
								NUT PLUG		20 SK									
								OIL SORB		0 SXS									
								PERMASEAL		0 sacks									
								SALT GEL		202 SK									
								SILVERSEAL		0 sacks									
								SODA ASH 100	5.00 SXS	74 SXS									
								SODA ASH		2 sacks									
								WGS 25WC		330 GAL									
								WHITE STARCH		86 sacks									
								SAPP STICK		88 EA									
								SOAP STICK		83 EA									
								DESCO		420 SXS									
								KCL 50		0 SXS									
								MAGNESIUM OXIDE 55		0 SXS									
								MUD ENGINEER	1.00 each	0 each									
								TRUCKING											
								TRUCKING BULK											
								SHRINKWRAP		0 EA.									
								LIQ MUD HANDLINE		0 EA									
								MUD RENTAL		0 EA									
								PALLET		0 EA									
								ENG TRAVEL DAY		0 EA									
								RESTOCKING		-113 EA									
								MISC											
								DRILLING PAPER		0 SXS									
								ENERMOD		0 PAIL									
								LUBRA-GLIDE COARSE		0 SXS									
BULK GEL RENTAL																			
BLOWER USAGE																			
BULK TANK RIG UP																			
FORK LIFT																			
WGS 546																			
GEL		58 SKS																	
PLASTIC TOTE		1 GAL																	
PLASTIC TOTE		11 GAL																	
TORQUE ON BTM (ft-lbf)		TORQUE OFF BTM (ft-lbf)				TOTAL LENGTH (ft)													
12,000.0		9,500.0				1,272.59													
STRING WEIGHT (kip)		STRING WEIGHT UP (kip)		STRING WEIGHT DWN (kip)															
260.0		320.0		220.0															
Density (ppg)		9.50		Bgas (gas u)		TGas (gas u) /		MUD CHECK		MUD LOST (bbl)									
FV (s/qt)	WL HTHP (cc/30min)	PV/YP (cp)/(lbf/100ft²)		GELS (lbf/100ft²)		ES	FC(32nd") /Cl(ppm)	Salt(%)	CORR(%)	CA(ppm)	OIL/WAT	ECD(ppg)	LGS/HGS (%)	ASG (sg)	LIME (lbm/bbl)				
30.00	--	1.00/1.000		1.000/1.000		--	1.0/100,000	--	--	5600	--/--	--	2.40/--	--	0.20				
LAST CEMENT JOB																			
Finished cementing the		SURFACE CASING		from	33.0'	to	5,045.0'	on		04/27/2019 23:30									
FLUID NAME		DESCRIPTION		DENSITY(ppg)		VOLUME(bbl)		SACKS USED		FLUID NAME		DESCRIPTION		DENSITY(ppg)		VOLUME(bbl)		SACKS USED	
SPACER		SPACEER		8.40						LEAD SLURRY		NEAT		12.90		800.33		2,365	
TAIL SLURRY		NEAT		13.70		115.72		390		DISPLACEMENT		BRINE		8.60					
NOTES: CEMENT SURFACE CASING																			



# UL Bighorn 21-30-19 J 4210H

Lat: 31° 41' 40.992 N Long: 103° 15' 28.943 W

AFE5382

Well ID: 18554

Report Date: 05/17/2019

## Daily Drilling Partner Report

DFS: 11 EST DAYS: 30

BHA NO.	4	BHA					MUD ADDITIVES												
ITEM		ITEM DESCRIPTION	JTS	OD (in)	ID (in)	LENGTH (ft)	ITEM	USED	INVENTORY										
Spiral Drill Collar		9-6.5"	9	6.500	2.875	279.00	AES VIS LS		0 SK										
Shock Sub		SHOCK		6.500	2.250	11.38	AES WA II		550 GAL										
Cross Over		XO		6.750	2.000	4.00	AES WASH		375 GAL										
Non-Mag Drill Collar		NMDC		7.500	3.500	31.05	AGRI PLUG		60 SXS										
Hang-Off Sub		PULSER		6.750	3.500	6.30	BARITE	335.00 BULK	582 BULK										
MWD Tool		TC		7.000	3.500	31.08	BARITE		280 sacks										
Integral Blade Stabilizer		NORTRACK		8.000	2.125	4.83	BLUE MAX		30 PAIL										
Steerable Motor		SDI 1700026 / 6/7 7.1 @ 1.5 FIXED/ NBS 8" FBH. RPG 0.23		7.000	1.000	41.50	CACL2		239 SK										
Polycrystalline Diamond Bit		HALLIBURTON 8.75" GT75DK S/N 13123512 7 X 12		8.750	1.000	1.00	CASUSIC SODA		0 SK										
							CEDAR FIBER		60 SXS										
							DEFOAMER		22 PAIL										
							ENERLOCK	8.00 sacks	32 sacks										
							ENERPAC LV		17 sacks										
							ENERPLUS		72 PAIL										
							ENERZAN		103 sacks										
							FLR		0 SK										
							GXM		0 SXS										
							GEL	65.00 BULK	-65 BULK										
							GEL BULK 100		200 SXS										
							MF-55		0 pail-5 gal										
							LIME	15.00 sacks	175 sacks										
							MULTI FIBER	7.00 SXS	83 SXS										
							NUT PLUG		20 SK										
							OIL SORB		0 SXS										
							PERMASEAL		0 sacks										
							SALT GEL		202 SK										
							SILVERSEAL		0 sacks										
							SODA ASH 100	3.00 SXS	71 SXS										
							SODA ASH		2 sacks										
							WGS 25WC		330 GAL										
							WHITE STARCH		86 sacks										
							SAPP STICK		88 EA										
							SOAP STICK		83 EA										
							DESCO		420 SXS										
							KCL 50		0 SXS										
							MAGNESIUM OXIDE 55		0 SXS										
							MUD ENGINEER	1.00 each	-1 each										
							TRUCKING												
							TRUCKING BULK												
							SHRINKWRAP		0 EA.										
							LIQ MUD HANDLINE		0 EA										
							MUD RENTAL		0 EA										
							PALLET		0 EA										
							ENG TRAVEL DAY		0 EA										
							RESTOCKING		-113 EA										
							MISC												
							DRILLING PAPER		0 SXS										
							ENERMOD		0 PAIL										
							LUBRA-GLIDE COARSE		0 SXS										
							BULK GEL RENTAL												
							BLOWER USAGE												
							BULK TANK RIG UP												
							FORK LIFT												
							WGS 546												
GEL		58 SKS																	
PLASTIC TOTE		1 GAL																	
PLASTIC TOTE		11 GAL																	
TORQUE ON BTM (ft-lbf)		TORQUE OFF BTM (ft-lbf)			TOTAL LENGTH (ft)														
12.0		16.0				1,272.59													
STRING WEIGHT (kip)		STRING WEIGHT UP (kip)		STRING WEIGHT DWN (kip)															
270.0		330.0		230.0															
Density (ppg)		9.60		Bgas (gas u)		TGas (gas u) /		MUD CHECK		MUD LOST (bbl)									
FV (s/qt)	WL HTHP (cc/30min)	PV/YP (cp)/(lbf/100ft²)		GELS (lbf/100ft²)		ES	FC(32nd") /Cl(ppm)		Salt(%)	CORR(%)		CA(ppm)	OIL/WAT	ECD(ppg)	LGS/HGS (%)	ASG (sg)	LIME (lbm/bbl)		
30.00	--	1.00/1.000		1.000/1.000		--	1.0/100,000		--	--		5600	--/--	--	2.40/--	--	0.20		
LAST CEMENT JOB																			
Finished cementing the		SURFACE CASING		from	33.0'	to	5,045.0'	on 04/27/2019 23:30											
FLUID NAME		DESCRIPTION		DENSITY(ppg)		VOLUME(bbl)		SACKS USED		FLUID NAME		DESCRIPTION		DENSITY(ppg)		VOLUME(bbl)		SACKS USED	
SPACER		SPACEER		8.40						LEAD SLURRY		NEAT		12.90		800.33		2,365	
TAIL SLURRY		NEAT		13.70		115.72		390		DISPLACEMENT		BRINE		8.60					
NOTES: CEMENT SURFACE CASING																			



# UL Bighorn 21-30-19 J 4210H

Lat: 31° 41' 40.992 N Long: 103° 15' 28.943 W

AFE5382

Well ID: 18554

Report Date: 05/18/2019

## Daily Drilling Partner Report

DFS: 12 EST DAYS: 30

BHA NO.	5	BHA					MUD ADDITIVES							
ITEM		ITEM DESCRIPTION		JTS	OD (in)	ID (in)	LENGTH (ft)	ITEM	USED	INVENTORY				
Float Sub		FLOAT			7.250	3.125	3.54	BARITE		280 sacks				
Steerable Motor		SDI TITTAN22 / SDI65368 / 4/5 7.0 @ 2.12° FIXED .56 REVS			6.500	1.000	30.08	BLUE MAX		30 PAIL				
Polycrystalline Diamond Bit		HALLIBURTON / PDC 8.75" / GTD64DC / S/N13176624/ 6 X 13			9.875	1.000	1.00	CACL2		239 SK				
								CASUSIC SODA		0 SK				
								CEDAR FIBER		60 SXS				
								DEFOAMER		22 PAIL				
								ENERLOCK		32 sacks				
								ENERPAC LV		17 sacks				
								ENERPLUS		72 PAIL				
								ENERZAN		103 sacks				
								FLR		0 SK				
								GXM		0 SXS				
								GEL		-65 BULK				
								GEL BULK 100		200 SXS				
								MF-55		0 pail-5 gal				
								LIME	25.00 sacks	150 sacks				
								MULTI FIBER		83 SXS				
								NUT PLUG		20 SK				
								OIL SORB		0 SXS				
								PERMASEAL		0 sacks				
								SALT GEL		202 SK				
								SILVERSEAL		0 sacks				
								SODA ASH 100	6.00 SXS	65 SXS				
								SODA ASH	9.00 sacks	198 sacks				
								WGS 25WC		330 GAL				
								WHITE STARCH		86 sacks				
								SAPP STICK		88 EA				
								SOAP STICK		83 EA				
								DESCO		420 SXS				
								KCL 50		0 SXS				
								MAGNESIUM OXIDE 55		0 SXS				
								MUD ENGINEER	1.00 each	0 each				
								TRUCKING						
								TRUCKING BULK						
								SHRINKWRAP		0 EA.				
								LIQ MUD HANDLINE		0 EA				
								MUD RENTAL		0 EA				
								PALLET		0 EA				
								ENG TRAVEL DAY		0 EA				
								RESTOCKING		-113 EA				
								MISC						
								DRILLING PAPER		0 SXS				
								ENERMOD		0 PAIL				
								LUBRA-GLIDE COARSE		0 SXS				
								BULK GEL RENTAL						
								BLOWER USAGE						
								BULK TANK RIG UP						
								FORK LIFT						
								WGS 546						
								GEL		58 SKS				
								PLASTIC TOTE		1 GAL				
								PLASTIC TOTE		11 GAL				
TORQUE ON BTM (ft-lbf)		TORQUE OFF BTM (ft-lbf)				TOTAL LENGTH (ft)								
						2,041.44								
STRING WEIGHT (kip)		STRING WEIGHT UP (kip)		STRING WEIGHT DWN (kip)										
		330.0		2,340.0										
Density (ppg)		9.50		Bgas (gas u)		TGas (gas u) /		MUD CHECK		MUD LOST (bbl)				
FV (s/qt)	WL HTHP (cc/30min)	PV/YP (cp)/(lbf/100ft²)	GELS (lbf/100ft²)	ES	FC(32nd") /Cl(ppm)	Salt(%)	CORR(%)	CA(ppm)	OIL/WAT	ECD(ppg)	LGS/HGS (%)	ASG (sg)	LIME (lbm/bbl)	
29.00	--	1.00/1.000	1.000/1.000	--	1.0/101,000	--	--	7200	--/--	--	1.90/--	--	0.10	
LAST CEMENT JOB														
Finished cementing the		SURFACE CASING		from	33.0'	to	5,045.0'	on		04/27/2019 23:30				
FLUID NAME		DESCRIPTION		DENSITY(ppg)	VOLUME(bbl)	SACKS USED		FLUID NAME		DESCRIPTION		DENSITY(ppg)	VOLUME(bbl)	SACKS USED
SPACER		SPACEER		8.40				LEAD SLURRY		NEAT		12.90	800.33	2,365
TAIL SLURRY		NEAT		13.70	115.72	390		DISPLACEMENT		BRINE		8.60		
NOTES: CEMENT SURFACE CASING														

UL Bighorn 21-30-19 J 4210H

Lat: 31° 41' 40.992 N Long: 103° 15' 28.943 W

AFE5382

Well ID: 18554

Report Date: 05/19/2019

Daily Drilling Partner Report

DFS: 13 EST DAYS: 30

RPT NO. 14	OPERATOR OASIS PETROLEUM PERMIAN LLC	FIELD NAME ORBISON	RIG NAME/NO NABORS X50	TMD 11,865.0 usft	TVD 11,726.6 usft	FOOTAGE 115.0 usft	ROP(Last) --	AVG ROP 57.5 ft/hr
API 4249534305	STATE TEXAS	COUNTY Winkler	LOCATION	SIDETRACK NO OH				
PREVIOUS WELL RIG RELEASE 04/24/2019 06:00	SPUD DATE 04/24/2019 16:30	DATE TO REACHED	RIG RELEASE 4/28/2019 11:59:00PM	REPORT DESCRIPTION				
CURRENT STATUS RUNNING CASING 2389'.			TARGET FORMATION WOLFCAMP A			KB ELEV 2,806.0 usft		
24 HR FORECAST RUN CSG TO 11,850'. CIRC, CMT 7 5/8" CSG, SET PACKOFF, ND BOP, PREP TO SKID.			SAFETY MEETING TOPIC RU & RUN CSG, STAY HYDRATED			ACC LST 24 HRS? No		
24 HR OPERATIONS SUMMARY SLIDE DRILLED TO CSG PT. 11,865, CIRC HOLE CLEAN, TOH TO SHOE, FLOW CHECK, BULLHEADED 60 BBLs 12.0 PPG MUD, TOH TO BHA, LAY DOWN BHA, BULLHEAD 40 BBLs 12.0 PPG MUD, PULL WB, RIG UP CSG EQUIPMENT, RUN 7 5/8" CSG TO								
RIG DIRECTIONS See Remarks for Driving Directions								
LAST CASING 9.625 in @ 5,045.0 usft		NEXT CASING 7.625 in @ 11,800.0 usft		LAST BOP TEST 5/3/2019		AUTH TMD 11,997.0 usft		SUPERVISOR / ENGINEER Dee Allen Woodward / TY TSCHACHER

BITS/BIT OPERATIONS												
BIT NO	SIZE (in)	MANUF	MODEL	SERIAL #	JETS / TFA (32nd")	WOB (Min/Max) (kip)	RPM (Min/Max) (rpm)	DEPTH IN/OUT (usft)	FTG (Last/Cum) (usft)	HRS (Last/Cum) (hr)	ROP (Last/Cum) (ft/hr)	I-O-B-G-R
5	8.750	Halliburton Energy Services Inc	GTD64DC	13176624	6 / 13 / 0.521	--/--	--/--	11,249.0 11,865.0	-- --	-- --	-- --	1-2-X- I-TD

OPERATION DETAILS							Total Hours	24.00
HOURS	DURATION (hr)	PHASE	CODE	SUBCODE	DESCRIPTION			
06:00 - 08:00	2.00	CURDR	DRILLING	NEW HOLE SLIDING	SLIDE DRILL F/ 11,750' TO 11,865' (115'@ 58 FT/HR) WOB 25-35K, GPM 546 @ 3300 PSI, DIFF 400 PSI, TF 30L MUD WT 9.5+ PPG			
08:00 - 11:00	3.00	1INTC	CIRCULATING	HOLE CONDITIONING	CIRC. 2 HIGH VIS SWEEPS			
11:00 - 11:30	0.50	1INTC	CIRCULATING	HOLE CONDITIONING	PUMP SLUG THEN 20 BBLs 12 PPG DOWN BACKSIDE, CHECK FLOW WELL STATIC			
11:30 - 13:00	1.50	1INTC	TRIP IN / TRIP OUT	TRIP IN / TRIP OUT	POOH 11,865' TO 9,943', WELL QUIT TAKING PROPER FILL			
13:00 - 13:30	0.50	1INTC	TRIP IN / TRIP OUT	TRIP IN / TRIP OUT	TRANSFER 50 BBLs 12 PPG TO TRIP TANKS TO FORCE FILL, THEN 9.5 PPG AFTER PUMPING 12 PPG AWAY			
13:30 - 17:00	3.50	1INTC	TRIP IN / TRIP OUT	TRIP IN / TRIP OUT	POOH 9,943' TO 4,993'			
17:00 - 17:30	0.50	1INTC	TRIP IN / TRIP OUT	TRIP IN / TRIP OUT	FLOW CHECK AT SHOE, WELL FLOWING 3 BBLs/MIN, BULL HEAD 50 BBLs 12 PPG DOWN BACKSIDE, FLOW CHECK, WELL TAKING FLUID.			
17:30 - 20:00	2.50	1INTC	TRIP IN / TRIP OUT	TRIP IN / TRIP OUT	TOH TO 2042'. FILLING ANNULUS WITH 9.5 PPG MUD WITH TRIP TANK.			
20:00 - 20:30	0.50	1INTC	TRIP IN / TRIP OUT	SAFETY	FLOW CHECK WELL, WELL TAKING 3.5 BPM LOSSES.			
20:30 - 21:00	0.50	1INTC	TRIP IN / TRIP OUT	TRIP IN / TRIP OUT	PULL ROTATING HEAD ASSEMBLY, INSTALL TRIP NIPPLE			
21:00 - 22:00	1.00	1INTC	TRIP IN / TRIP OUT	TRIP IN / TRIP OUT	POH TO BHA 110'. MONITOR ANNULUS WITH TRIP TANK. LOSSES SLOWED TO PIPE DISPLACEMENT ONLY.			
22:00 - 23:00	1.00	1INTC	TRIP IN / TRIP OUT	PU / LD TOOLS / BHA	LAI DOW N BIT, MOTOR, MWD & CARRIER COLLAR, MONEL COLLAR. MONITOR ANNULUS ON TRIP TANK. HOLE NOT TAKING CORRECT DISPL.			
23:00 - 00:00	1.00	1INTC	TRIP IN / TRIP OUT	SAFETY	FLOW CHECKED WELL, WELL FLOWING AT 1.3 BPM. BULLHEADED 40 BBLs 12.0 PPG MUD, WELL TAKING FLUID.			
00:00 - 00:30	0.50	1INTC	TRIP IN / TRIP OUT	TRIP IN / TRIP OUT	RIH AND RETRIEVE WEAR BUSHING.			
00:30 - 02:00	1.50	1INTC	RUN CSG AND CEMENT	RIG UP / RIG DOWN	RIG UP CSG HANDLING EQUIPMENT AND CRT.			
02:00 - 03:00	1.00	1INTC	RUN CSG AND CEMENT	SAFETY	HELD PJSM WITH ALL HANDS ON RUNNING CSG.			
03:00 - 06:00	3.00	1INTC	RUN CSG AND CEMENT	RUN CASING	PICKED UP SHOE, 2 JTS 7 5/8" CSG, FC & JT 7 5/8" CSG, CONFIRM FLOAT OKAY. RUN 59 JTS 7 5/8" CSG TO 2389'. FILLING PIPE ON THE FLY AND TOPPING OFF EVERY 2000'. TOP FILLED ANNULUS WITH 9.5 PPG 1.5 BPM LOSSES, AT 1761' LOSSES REDUCED TO ONLY PIPE DISPLACEMENT.			

COMMENT: RIG OFF LOCATION: 9-1-19 EST. DAY CREW SHORT 1 MAN

SURVEY DATA										LAST SURVEY@11,808.0 N/S		-147.7	E/W	-363.7	
MD (usft)	INCL (°)	AZI (°)	TVD (usft)	VS (usft)	DLS (°/100ft)	N/S	E/W	MD (usft)	INCL (°)	AZI (°)	TVD (usft)	VS (usft)	DLS (°/100ft)	N/S	E/W
10,503.0	2.86	265.23	10,477.2	-264.0	0.73	-381.0	-323.6	11,373.0	11.32	1.56	11,345.9	-259.6	10.78	-383.6	-346.1
10,681.0	2.91	266.52	10,655.0	-261.8	0.05	-381.7	-332.5	11,463.0	19.22	359.15	11,432.7	-237.0	8.80	-359.9	-346.0
10,860.0	1.98	233.22	10,833.8	-261.7	0.93	-383.8	-339.5	11,552.0	29.93	358.42	11,513.5	-201.6	12.04	-323.0	-346.9
11,039.0	2.24	190.67	11,012.7	-265.8	0.87	-389.1	-342.7	11,642.0	40.36	357.85	11,587.0	-151.8	11.59	-271.3	-348.6
11,180.0	1.81	198.85	11,153.6	-270.0	0.37	-393.9	-343.9	11,731.0	49.68	353.51	11,649.8	-90.7	11.02	-208.6	-353.5
11,284.0	2.14	328.57	11,257.6	-269.5	3.44	-393.8	-345.4	11,808.0	57.20	347.75	11,695.7	-29.5	11.46	-147.7	-363.7

BHA NO.	5	BHA						MUD ADDITIVES		
ITEM	ITEM DESCRIPTION	JTS	OD (in)	ID (in)	LENGTH (ft)	ITEM	USED	INVENTORY		
Heavy Weight Drill Pipe	27-4.75"	27	4.750	2.875	858.84	AES MUL X		650 GAL		
Drill Pipe	24-PUSH PIPE	24	4.750	4.080	1,073.32	AES VIS III		0 SK		
Cross Over	XO		6.500	2.875	3.61	AES VIS LS		0 SK		
Cross Over	XO		6.750	2.000	4.00	AES WA II		550 GAL		

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# UL Bighorn 21-30-19 J 4210H

Lat: 31° 41' 40.992 N Long: 103° 15' 28.943 W

AFE5382

Well ID: 18554

Report Date: 05/19/2019

## Daily Drilling Partner Report

DFS: 13 EST DAYS: 30

BHA NO.		BHA					MUD ADDITIVES							
ITEM		ITEM DESCRIPTION	JTS	OD (in)	ID (in)	LENGTH (ft)	ITEM	USED	INVENTORY					
Non-Mag Drill Collar		NMDC		6.125	3.250	30.05	AES WASH		375 GAL					
Muleshoe Sub		PULSER		6.625	3.188	5.92	AGRI PLUG		60 SXS					
MWD Tool		TC		7.000	3.500	31.08	BARITE	421.00 BULK	795 BULK					
Float Sub		FLOAT		7.250	3.125	3.54	BARITE		280 sacks					
Steerable Motor		SDI TITTAN22 / SDI65368 / 4/5 7.0 @ 2.12" FIXED .56 REVS		6.500	1.000	30.08	BLUE MAX		30 PAIL					
Polycrystalline Diamond Bit		HALLIBURTON / PDC 8.75" / GTD64DC / S/N13176624/ 6 X 13		9.875	1.000	1.00	CACL2		239 SK					
							CASUSIC SODA		0 SK					
							CEDAR FIBER		60 SXS					
							DEFOAMER		22 PAIL					
							ENERLOCK	9.00 sacks	23 sacks					
							ENERPAC LV		17 sacks					
							ENERPLUS		72 PAIL					
							ENERZAN	3.00 sacks	100 sacks					
							FLR		0 SK					
							GXM		0 SXS					
							GEL		-65 BULK					
							GEL BULK 100	65.00 SXS	70 SXS					
							MF-55		0 pail-5 gal					
							LIME		150 sacks					
							MULTI FIBER		83 SXS					
							NUT PLUG		20 SK					
							OIL SORB		0 SXS					
							PERMASEAL	5.00 sacks	62 sacks					
							SALT GEL		202 SK					
							SILVERSEAL		0 sacks					
							SODAASH 100		65 SXS					
							SODA ASH	10.00 sacks	188 sacks					
							WGS 25WC		330 GAL					
							WHITE STARCH		86 sacks					
							SAPP STICK		88 EA					
							SOAP STICK		83 EA					
							DESCO		420 SXS					
							KCL 50		0 SXS					
							MAGNESIUM OXIDE 55		0 SXS					
							MUD ENGINEER	1.00 each	0 each					
							TRUCKING							
							TRUCKING BULK							
							SHRINKWRAP		0 EA.					
							LIQ MUD HANDLINE		0 EA					
							MUD RENTAL		0 EA					
							PALLET		0 EA					
							ENG TRAVEL DAY		0 EA					
							RESTOCKING		-113 EA					
							MISC							
							DRILLING PAPER		0 SXS					
							ENERMOD		0 PAIL					
							LUBRA-GLIDE COARSE		0 SXS					
							BULK GEL RENTAL							
							BLOWER USAGE							
							BULK TANK RIG UP							
							FORK LIFT							
WGS 546														
GEL		58 SKS												
PLASTIC TOTE		1 GAL												
PLASTIC TOTE		11 GAL												
TORQUE ON BTM (ft-lbf)		TORQUE OFF BTM (ft-lbf)				TOTAL LENGTH (ft)								
						2,041.44								
STRING WEIGHT (kip)		STRING WEIGHT UP (kip)	STRING WEIGHT DWN (kip)											
Density (ppg)		9.50	Bgas (gas u	TGas (gas u	/	MUD CHECK		MUD LOST (bbl)						
FV (s/qt)	WL HTHP (cc/30min)	PV/YP (cp)/(lbf/100ft²)	GELS (lbf/100ft²)	ES	FC(32nd") /Cl(ppm)	Salt(%)	CORR(%)	CA(ppm)	OIL/WAT	ECD(ppg)	LGS/HGS (%)	ASG (sg)	LIME (lbm/bbl)	
30.00	--	1.00/1.000	1.000/1.000	--	1.0/102,000	--	--	6400	--/--	--	1.80/--	--	0.20	
LAST CEMENT JOB														
Finished cementing the		SURFACE CASING		from	33.0'	to	5,045.0'	on 04/27/2019 23:30						
FLUID NAME		DESCRIPTION		DENSITY(ppg)	VOLUME(bbl)	SACKS USED		FLUID NAME		DESCRIPTION		DENSITY(ppg)	VOLUME(bbl)	SACKS USED
SPACER		SPACEER		8.40				LEAD SLURRY		NEAT		12.90	800.33	2,365
TAIL SLURRY		NEAT		13.70	115.72	390		DISPLACEMENT		BRINE		8.60		
NOTES: CEMENT SURFACE CASING														





