

10/09/21

110 Old Market St.
St Martinville, LA 70582

Report #1

TEL: (337) 394-1078

OUTSOURCE FLUID SOLUTIONS LLC.

0.0°

0' TVD

Operator MAGNOLIA OIL & GAS							Contractor PATTERSON			County / Parish / Block WASHINGTON			Engineer Start Date 10/08/21		24 hr fig. 3,019 ft		Drilled Depth 3,020 ft																							
Well Name and No. BIGHORN PASS H06 BH							Rig Name and No. 248			State TEXAS			Spud Date 10/08/21		Current ROP 0 ft/hr		Activity Run Casing																							
Report for Kevin Burt/Chris Mayeux							Report for Tool Pusher			Field / OCS-G # GIDDINGS			Fluid Type WBM		Circulating Rate 0 gpm		Circulating Pressure psi																							
MUD PROPERTY SPECIFICATIONS							MUD VOLUME (BBL)			PUMP #1			PUMP #2			RISER BOOSTER																								
Weight 8.4-9.6		PV 0-10		YP 0-10		GELS <5 <10		pH 8.4-9		API fl <25		% Solids 2-10		In Pits 643 bbl		Liner Size 5.75		Liner Size 5.75		Liner Size																				
								10/8/21						In Hole 568 bbl		Stroke 12		Stroke 12		Stroke																				
														Active 643 bbl		bbl/stk 0.0915		bbl/stk 0.0915		bbl/stk 0.0000																				
														Storage <u>2140 bbl</u>		stk/min		stk/min		stk/min																				
														Tot. on Location 3351 bbl		gal/min 0		gal/min 0		gal/min 0																				
Flowline Temperature °F							92 °F						PHHP = 0 CIRCULATION DATA n = 0.737 K = 15.441																											
Depth (ft)							2,370'						Bit Depth = '			Washout = 5%			Pump Efficiency = 95%																					
Mud Weight (ppg)							9.0						Drill String Disp.		Volume to Bit 0.0 bbl		Strokes To Bit			Time To Bit																				
Funnel Vis (sec/qt) @ 86 °F							28								Bottoms Up Vol. 0.0 bbl		BottomsUp Stks			BottomsUp Time																				
600 rpm							5						0.0 bbl		Riser Ann. Vol. 0.0 bbl		Riser Strokes			Riser Circ. Time																				
300 rpm							3						DRILLING ASSEMBLY DATA						SOLIDS CONTROL																					
200 rpm							2						Tubulars		OD (in.)		ID (in.)		Length		Top		Unit		Screens		Hours													
100 rpm							1						Drill Pipe						0'		0'		Shaker 1		140		10.0													
6 rpm							1						Hevi Wt						0'		0'		Shaker 2		140		10.0													
3 rpm							1						Dir. BHA						0'		0'		Shaker 3		140		10.0													
Plastic Viscosity (cp) @ 120 °F							2												0'		0'		Desander																	
Yield Point (lb/100 ft²) T0 = 1							1						CASING & HOLE DATA						Desilter																					
Gel Strength (lb/100 ft²) 10 sec/10 min							1/1						Casing		OD (in.)		ID (in.)		Depth		Top		Centrifuge 1				10.0													
Gel Strength (lb/100 ft²) 30 min							1						Riser		20				108'				VOLUME ACCOUNTING (bbbls)																	
API Filtrate / Cake Thickness							12.8/1						Surface		10 3/4		9.950				108'		Prev. Total on Location				0.0													
HTHP Filtrate / Cake Thickness @ 0 °F													Int. Csg.						108'				Transferred In(+)/Out(-)				2140.0													
Retort Solids Content							4.9%						Washout 1										Oil Added (+)				0.0													
Retort Oil Content													Washout 2										Barite Added (+)				0.0													
Retort Water Content							95.1%						Open Hole Size		14.175		3,020'						Other Product Usage (+)				3.5													
Sand Content							0.4%						ANNULAR GEOMETRY & RHEOLOGY										Water Added (+)				1797.1													
M.B.T. (Methylene Blue Capacity) (ppb)							5.0						annular section		meas. depth		velocity ft/min		flow reg		ECD lb/gal		Left on Cuttings (-)				-589.3													
pH							7.0																		Sand Trap Discharge															
Alkalinity, Mud Pm							0.1																		Est. Total on Location				3351.4											
Alkalinities, Filtrate Pf/Mf							0.1/0.2																		Est. Losses/Gains (-)/(+)				0.0											
Chlorides (mg/L)							800																		BIT HYDRAULICS DATA															
Calcium (ppm)							220																		Bit H.S.I.		Bit ΔP		Nozzles (32nds)											
Excess Lime (lb/bbl)																									0.00		psi		14 14 14											
Average Specific Gravity of Solids							2.60		2.60		2.60														Bit Impact Force		Nozzle Velocity (ft/sec)		14 14 14											
Percent Low Gravity Solids							4.8%																				14 14 14													
Percent Drill Solids							4.8%																																	
PPA Spurt / Total (ml) @ @ 0 °F													BIT DATA			Manuf./Type			Ulterra / PDC			0 lbs		0																
Estimated Total LCM in System ppb													Size		Depth In		Hours		Footage		ROP ft/hr		Motor/MWD		Calc. Circ. Pressure															
Sample Taken By							N. Dilly						13 1/2		1 ft		8.0		3,020 ft		377.5																			
Remarks/Recommendations: OBM RECEIVED: 2,140 bbbls transferred from HO4 Pretreated Active w/10sx of SAPP & 50gal of Detergent. Sweeps: 2sx SAPP & 10gal Detergent per 100bbbls.										Rig Activity: Skid rig to Bighorn Pass HO6 BH and service. Pick up BHA. Drill from 108' to 3,020'TD. Pumped 30bbbls soap/sapp sweeps every connection, and pumped 100bbbls soap/sapp sweeps every 1000'. Dumped sand trap and diluted active system with freshwater as needed to control MW. Stopped adding SAPP at 2,600' and let weight creep up to 9.1-9.2ppg by TD. Pumped 2 tandem hi-vis sweeps at TD and circulated clean. POOH T/surface, racking back HWDP. R/U casing crew, M/U shoe track and test. Begin running 10.75" surface casing at report time.																														
Eng. 1: Patrick Blair Phone: 936-465-0952							Eng. 2: Nick Dilly Phone: 337-207-8848							WH 1: MIDLAND Phone: 432-686-7361							WH 2: WH #2 Phone: -							Rig Phone:							Daily Total			Cumulative Cost		
W P Y g G p A S C 1 1 1 1 1 0 1 1 0							Any opinion and or recommendation, expressed orally or written herein, has been prepared carefully and may be used if the user so elects, however, no representation is made as to the validity of this information, and this is a recommendation only.																					\$4,288.98			\$4,288.98									
										INCLUDING 3RD PARTY CHARGES																					\$4,288.98			\$4,288.98						

THIRD PARTY COST SHEET

[illegible]

OUTSOURCE FLUID SOLUTIONS LLC.

FLUID VOLUME ACCOUNTING

Operator:	MAGNOLIA OIL & GAS
Rig Name:	248
Well Name:	BIGHORN PASS H06 BH

		WEEK 1							WEEK 2							WEEK 3							
		Date	10/9/21	10/10/21	10/11/21	10/12/21	10/13/21	10/14/21	10/15/21	10/16/21	10/17/21	10/18/21	10/19/21	10/20/21	10/21/21	10/22/21	10/23/21	10/24/21	10/25/21	10/26/21	10/27/21	10/28/21	10/29/21
		Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	
Grand Totals	Starting Depth																						
	Ending Depth																						
-	Footage Drilled	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	New Hole Vol.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Starting System Volume		2,140	2,140	2,140	2,140	2,140	2,140	2,140	2,140	2,140	2,140	2,140	2,140	2,140	2,140	2,140	2,140	2,140	2,140	2,140	2,140	
-	Chemical Additions																						
-	Base Fluid Added																						
-	Barite Increase																						
2,140	Weighted Mud Added	2,140																					
-	Slurry Added																						
-	Water Added																						
-	Added for Washout																						
2,140	Total Additions	2,140	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	Surface Losses																						
-	Formation Loss																						
-	Mud Loss to Cuttings																						
-	Unrecoverable Volume																						
-	Centrifuge Losses																						
-	Total Losses	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	Mud Transferred Out																						
2,140	Ending System Volume	2,140	2,140	2,140	2,140	2,140	2,140	2,140	2,140	2,140	2,140	2,140	2,140	2,140	2,140	2,140	2,140	2,140	2,140	2,140	2,140	2,140	
-	Mud Recovered																						
2,140	Comments:								Comments:							Comments:							
	10/9/21 Transfer 2,140bls OBM from the HO4 to HO6.								10/16/21							10/23/21							
	10/10/21								10/17/21							10/24/21							
	10/11/21								10/18/21							10/25/21							
	10/12/21								10/19/21							10/26/21							
	10/13/21								10/20/21							10/27/21							
	10/14/21								10/21/21							10/28/21							
10/15/21								10/22/21							10/29/21								

10/10/21

110 Old Market St.
St Martinville, LA 70582

Report #2

TEL: (337) 394-1078

OUTSOURCE FLUID SOLUTIONS LLC.

0.0°

0' TVD

Operator MAGNOLIA OIL & GAS								Contractor PATTERSON				County / Parish / Block WASHINGTON				Engineer Start Date 10/08/21				24 hr fig. 0 ft				Drilled Depth 3,020 ft									
Well Name and No. BIGHORN PASS H06 BH								Rig Name and No. 248				State TEXAS				Spud Date 10/08/21				Current ROP 0 ft/hr				Activity TIH / BHA									
Report for Kevin Burt/Chris Mayeux								Report for Tool Pusher				Field / OCS-G # GIDDINGS				Fluid Type OBM				Circulating Rate 0 gpm				Circulating Pressure psi									
MUD PROPERTY SPECIFICATIONS												MUD VOLUME (BBL)				PUMP #1				PUMP #2				RISER BOOSTER									
Weight 15-17		PV 20-40		YP 8-20		E.S. >500		CaCl2 ±275K		GELS <10 <15		HTHP <6		In Pits 486 bbl		In Hole 280 bbl		Active 486 bbl		Storage <u>1821 bbl</u>		Tot. on Location 2587 bbl		Liner Size 5.25		Stroke 12		bb/stk 0.0763		bb/stk 0.0763		bb/stk 0.0000	
								10/10/21																									
Time Sample Taken								0:30																									
Sample Location								pit																									
Flowline Temperature °F														PHHP = 0 CIRCULATION DATA n = 0.678 K = 111.470																			
Depth (ft)								3,020'						Bit Depth = '				Washout = 5%				Pump Efficiency = 95%											
Mud Weight (ppg)								9.0						Drill String Disp.		Volume to Bit 0.0 bbl		Strokes To Bit		Time To Bit													
Funnel Vis (sec/qt) @ 82 °F								41								Bottoms Up Vol. 0.0 bbl		BottomsUp Stks		BottomsUp Time													
600 rpm								24						0.0 bbl		Riser Ann. Vol. 0.0 bbl		Riser Strokes		Riser Circ. Time													
300 rpm								15						DRILLING ASSEMBLY DATA								SOLIDS CONTROL											
200 rpm								12						Tubulars		OD (in.)		ID (in.)		Length		Top		Unit		Screens		Hours					
100 rpm								8						Drill Pipe		5.000		4.276		0'		0'		Shaker 1		140							
6 rpm								4						Hevi Wt		5.000		3.000		0'		0'		Shaker 2		140							
3 rpm								3						Collars		8.000		3.250		0'		0'		Shaker 3		140							
Plastic Viscosity (cp) @ 150 °F								9						Collars		6.500		3.250		0'		0'		Desander									
Yield Point (lb/100 ft²) T0 = 2								6						CASING & HOLE DATA								Desilter											
Gel Strength (lb/100 ft²) 10 sec/10 min								3/6						Casing		OD (in.)		ID (in.)		Depth		Top		Centrifuge 1									
Gel Strength (lb/100 ft²) 30 min								8						Riser		20				108'				VOLUME ACCOUNTING (bbls)									
HTHP Filtrate (cm/30 min) @ 300 °F								10.8						Surface		10 3/4		9.950		3,007'		108'		Prev. Total on Location		3351.4							
HTHP Cake Thickness (32nds)								2.0						Int. Csg.						108'				Transferred In(+)/Out(-)		447.0							
Retort Solids Content								9%						Washout 1										Oil Added (+)		0.0							
Corrected Solids (vol%)								7.4%						Washout 2										Barite Added (+)		0.0							
Retort Oil Content								69.7%						Open Hole Size		10.369		3,020'						Other Product Usage (+)		0.8							
Retort Water Content								21.3%						ANNULAR GEOMETRY & RHEOLOGY																			
O/W Ratio								77:23						annular section		meas. depth		velocity ft/min		flow reg		ECD lb/gal											
Whole Mud Chlorides (mg/L)								40,000																									
Water Phase Salinity (ppm)								227,487																									
Whole Mud Alkalinity, Pom								0.8																									
Excess Lime (lb/bbl)								1 ppb																									
Electrical Stability (volts)								353 v																									
Average Specific Gravity of Solids								2.94																									
Percent Low Gravity Solids								4.9%																									
ppb Low Gravity Solids								41 ppb																									
Percent Barite								2.5%																									
ppb Barite								36 ppb						BIT DATA				Manuf./Type				Ulterra / PDC											
Estimated Total LCM in System ppb														Size		Depth In		Hours		Footage		ROP ft/hr		Motor/MWD		Calc. Circ. Pressure							
Sample Taken By								N. Dilly		0		0		9 7/8		3,020 ft																	
Remarks/Recommendations: TOTAL OBM RECEIVED: 2,587bbls Received 447bls 8.6ppg from mud plant. Pretreating Acitve system with Lime, CaCl, WA, Mul, Opti G, & Bentone 910/990.												Rig Activity: Finished running 10 3/4" casing to 3,007'. Circulate 1.5 times casing capacity. R/U cement crew and pump same bumping plug with 9.0 ppg OBM. Cement returns were diverted to open top for disposal. R/D cement crew, flush lines, and clean pits while hauling all WBM to disposal. Nipped up and tested BOPs. Inspected and dressed rig shakers with 140s and dryer shakers with 170s. Loaded pits with 9.0ppg OBM and began pretreating system to offset incorporated water in casing and pit cleaning operations. Picking up BHA at report time.																					
Eng. 1: Patrick Blair				Eng. 2: Nick Dilly				WH 1: MIDLAND				WH 2: WH #2				Rig Phone:				Daily Total				Cumulative Cost									
Phone: 936-465-0952				Phone: 337-207-8848				Phone: 432-686-7361				Phone: -																					
W P Y E C g G H O								Any opinion and or recommendation, expressed orally or written herein, has been prepared carefully and may be used if the user so elects, however, no representation is made as to the validity of this information, and this is a recommendation only.																		\$2,411.53				\$6,700.51			
0 0 0 0 0 1 1 2 1								INCLUDING 3RD PARTY CHARGES																		\$2,411.53				\$6,700.51			

THIRD PARTY COST SHEET

[illegible]

OUTSOURCE FLUID SOLUTIONS LLC.

FLUID VOLUME ACCOUNTING

Operator:	MAGNOLIA OIL & GAS
Rig Name:	248
Well Name:	BIGHORN PASS H06 BH

		WEEK 1								WEEK 2								WEEK 3							
		Date	10/9/21	10/10/21	10/11/21	10/12/21	10/13/21	10/14/21	10/15/21	10/16/21	10/17/21	10/18/21	10/19/21	10/20/21	10/21/21	10/22/21	10/23/21	10/24/21	10/25/21	10/26/21	10/27/21	10/28/21	10/29/21		
		Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri			
Grand Totals	Bit Size	13 1/2	13 1/2																						
	Starting Depth	-	3,020	3,020																					
	Ending Depth	3,020	3,020																						
3,020	Footage Drilled	3,020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
539	New Hole Vol.	539	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
	Starting System Volume		2,140	2,587	2,587	2,587	2,587	2,587	2,587	2,587	2,587	2,587	2,587	2,587	2,587	2,587	2,587	2,587	2,587	2,587	2,587	2,587			
-	Chemical Additions																								
-	Base Fluid Added																								
-	Barite Increase																								
2,587	Weighted Mud Added	2,140	447																						
-	Slurry Added																								
-	Water Added																								
-	Added for Washout																								
2,587	Total Additions	2,140	447	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
-	Surface Losses																								
-	Formation Loss																								
-	Mud Loss to Cuttings																								
-	Unrecoverable Volume																								
-	Centrifuge Losses																								
-	Total Losses	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
-	Mud Transferred Out																								
2,587	Ending System Volume	2,140	2,587	2,587	2,587	2,587	2,587	2,587	2,587	2,587	2,587	2,587	2,587	2,587	2,587	2,587	2,587	2,587	2,587	2,587	2,587	2,587			
-	Mud Recovered																								
2,587	Comments:								Comments:								Comments:								
	10/9/21 Transfer 2,140bls OBM from the HO4 to HO6.								10/16/21								10/23/21								
	10/10/21 Received 447bls of 8.6ppg OBM from mud plant.								10/17/21								10/24/21								
	10/11/21								10/18/21								10/25/21								
	10/12/21								10/19/21								10/26/21								
	10/13/21								10/20/21								10/27/21								
	10/14/21								10/21/21								10/28/21								
10/15/21								10/22/21								10/29/21									

10/11/21

110 Old Market St.
St Martinville, LA 70582

Report #3

TEL: (337) 394-1078

OUTSOURCE FLUID SOLUTIONS LLC.

3.6° 5,889' TVD

Operator				Contractor			County / Parish / Block			Engineer Start Date		24 hr fig.		Drilled Depth					
MAGNOLIA OIL & GAS				PATTERSON			WASHINGTON			10/08/21		2,926 ft		5,946 ft					
Well Name and No.				Rig Name and No.			State			Spud Date		Current ROP		Activity					
BIGHORN PASS H06 BH				248			TEXAS			10/08/21		370 ft/hr		Drilling					
Report for				Report for			Field / OCS-G #			Fluid Type		Circulating Rate		Circulating Pressure					
Kevin Burt/Chris Mayeux				Tool Pusher			GIDDINGS			OBM		904 gpm		4,800 psi					
MUD PROPERTY SPECIFICATIONS							MUD VOLUME (BBL)			PUMP #1		PUMP #2		RISER BOOSTER					
Weight	PV	YP	E.S.	CaCl2	GELS	HTHP	In Pits	618 bbl	Liner Size	5.25	Liner Size	5.25	Liner Size						
8.8-12	8-25	6-20	>300	±250K	<4 <10	<10	In Hole	532 bbl	Stroke	12	Stroke	12	Stroke						
				10/11/21		10/10/21	Active	1150 bbl	bbl/stk	0.0763	bbl/stk	0.0763	bbl/stk	0.0000					
Time Sample Taken				0:30		12:30	Storage	1424 bbl	stk/min	141	stk/min	141	stk/min						
Sample Location				pit		PIT	Tot. on Location	2574 bbl	gal/min	452	gal/min	452	gal/min 0						
Flowline Temperature °F				137 °F		115 °F	PHHP = 2531 CIRCULATION DATA n = 0.606 K = 268.380												
Depth (ft)				5,779'		3,180'	Bit Depth = 5,946 '			Washout = 5%		Pump Efficiency = 95%							
Mud Weight (ppg)				9.1		9.0	Drill String Disp.	Volume to Bit	102.3 bbl	Strokes To Bit		1,340	Time To Bit 5 min						
Funnel Vis (sec/qt) @ 128 °F				51	45	Bottoms Up Vol.		429.7 bbl	BottomsUp Stks		5,631	BottomsUp Time 20 min							
600 rpm				35	25	53.8 bbl		Riser Ann. Vol.	-2.6 bbl	Riser Strokes		-34	Riser Circ. Time 0 min						
300 rpm				23		16	DRILLING ASSEMBLY DATA					SOLIDS CONTROL							
200 rpm				18		12	Tubulars	OD (in.)	ID (in.)	Length	Top	Unit		Screens	Hours				
100 rpm				12		8	Drill Pipe	5.000	4.276	5,363'	0'	Shaker 1		140	15.0				
6 rpm				5		4	Hevi Wt	5.000	3.800	274'	5,363'	Shaker 2		140	15.0				
3 rpm				4		3	Collars	8.000	3.250	309'	5,637'	Shaker 3		140	15.0				
Plastic Viscosity (cp) @ 150 °F				12		9	Collars		5,946'										
Yield Point (lb/100 ft²) T0 = 3				11		7	CASING & HOLE DATA					Desilter							
Gel Strength (lb/100 ft²) 10 sec/10 min				6/7		4/7	Casing	OD (in.)	ID (in.)	Depth	Top	Centrifuge 1		3.0					
Gel Strength (lb/100 ft²) 30 min				8		10	Riser	20	108'			VOLUME ACCOUNTING (bbbls)							
HTHP Filtrate (cm/30 min) @ 300 °F				5.2		10.0	Surface	10 3/4	9.950	3,007'	108'	Prev. Total on Location 2587.2							
HTHP Cake Thickness (32nds)				2.0		2.0	Int. Csg.				108'	Transferred In(+)/Out(-)							
Retort Solids Content				9.6%		8.6%	Washout 1			Oil Added (+) 204.4									
Corrected Solids (vol%)				7.2%		6.3%	Washout 2			Barite Added (+) 0.0									
Retort Oil Content				64.5%		65%	Open Hole Size			10.369	5,946'	Other Product Usage (+) 27.1							
Retort Water Content				25.9%		26.4%	ANNULAR GEOMETRY & RHEOLOGY					Water Added (+)							
O/W Ratio				71:29		71:29	annular section	meas. depth	velocity ft/min	flow reg	ECD lb/gal	Left on Cuttings (-)		-229.2					
Whole Mud Chlorides (mg/L)				60,000		58,000						Non-Recoverable Vol. (-)							
Water Phase Salinity (ppm)				266,466		256,231	0x5	108'	-886.1			9.40	Centrifuge -15.6						
Whole Mud Alkalinity, Pom				2.6		1.8	9.95x5	3,007'	299.3	turb	9.65	Est. Total on Location 2573.9							
Excess Lime (lb/bbl)				3.4 ppb		2.3 ppb	10.369x5	5,363'	268.5	lam	9.80	Est. Losses/Gains (-)/(+) 0.0							
Electrical Stability (volts)				377 v		360 v	10.369x5	5,637'	268.5	lam	10.08	BIT HYDRAULICS DATA							
Average Specific Gravity of Solids				2.74		2.83	10.369x8	5,946'	509.1	turb	10.42	Bit H.S.I.	Bit ΔP	Nozzles (32nds)					
Percent Low Gravity Solids				5.6%		4.6%						2.12	308 psi	14	14	14			
ppb Low Gravity Solids				46 ppb		38 ppb						Bit Impact Force	Nozzle Velocity (ft/sec)	14	14	14			
Percent Barite				1.6%		1.7%							16	16	16				
ppb Barite				23 ppb		25 ppb	BIT DATA		Manuf./Type		Ulterra / PDC		829 lbs	194					
Estimated Total LCM in System ppb							Size	Depth In	Hours	Footage	ROP ft/hr	Motor/MWD		Calc. Circ. Pressure					
Sample Taken By				N. Dilly	0	P. Blair	9 7/8	3,020 ft	15.0	2,759 ft	183.9	3,128 psi		4,800 psi					
Remarks/Recommendations:							Rig Activity:												
TOTAL OBM RECEIVED: 2,587bbbls																			
Received 2 loads of bulk barite to top off tanks.							Finish P/U BHA and TIH T/2,920' to tag cement. Drill shoe track plus 10' formation to 3,030' and perform FIT to 11.6ppg EMW. Rot/Sld Drill F/3,030' to 5,779' while maintaining 8.8-9.1ppg MW. Will continue to maintain 8.8-9.1ppg down to 6,400' then began staging up MW to desired 9.8ppg by TD of interval. Driling ahead at report time. ROP 370'/hr. MWD Temp 174 F.												
Treating Acitve system with maintenance amounts of Lime, CaCl, WA, Mul, Opti G, & Bentone 910/990.																			
Plan Forward: Stage up mud weight to 9.8ppg by TD (+/-9800').																			
Increased water phase due to incidental incorporation from surface cement job and BOP testing procedures.																			
Eng. 1: Patrick Blair		Eng. 2: Nick Dilly		WH 1: MIDLAND		WH 2: WH #2		Rig Phone:		Daily Total			Cumulative Cost						
Phone: 936-465-0952		Phone: 337-207-8848		Phone: 432-686-7361		Phone: -					\$15,377.11			\$22,077.62					
W	P	Y	E	C	g	G	H	O	Any opinion and or recommendation, expressed orally or written herein, has been prepared carefully and may be used if the user so elects, however, no representation is made as to the validity of this information, and this is a recommendation only.										
1	1	1	1	2	2	1	1	1	INCLUDING 3RD PARTY CHARGES							\$36,365.74		\$43,066.25	

THIRD PARTY COST SHEET

[illegible]

OUTSOURCE FLUID SOLUTIONS LLC.

FLUID VOLUME ACCOUNTING

Operator:	MAGNOLIA OIL & GAS
Rig Name:	248
Well Name:	BIGHORN PASS H06 BH

		WEEK 1							WEEK 2							WEEK 3							
		Date	10/9/21	10/10/21	10/11/21	10/12/21	10/13/21	10/14/21	10/15/21	10/16/21	10/17/21	10/18/21	10/19/21	10/20/21	10/21/21	10/22/21	10/23/21	10/24/21	10/25/21	10/26/21	10/27/21	10/28/21	10/29/21
		Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	
Grand Totals	Bit Size	13 1/2	13 1/2	9 7/8																			
	Starting Depth	-	3,020	3,020	5,946																		
	Ending Depth	3,020	3,020	5,946																			
5,946	Footage Drilled	3,020	-	2,926	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
816	New Hole Vol.	539	-	277	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Starting System Volume		2,140	2,587	2,574	2,574	2,574	2,574	2,574	2,574	2,574	2,574	2,574	2,574	2,574	2,574	2,574	2,574	2,574	2,574	2,574	2,574	
27	Chemical Additions			27																			
205	Base Fluid Added			205																			
-	Barite Increase																						
2,587	Weighted Mud Added	2,140	447																				
-	Slurry Added																						
-	Water Added																						
-	Added for Washout																						
2,819	Total Additions	2,140	447	232	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	Surface Losses																						
-	Formation Loss																						
229	Mud Loss to Cuttings			229																			
-	Unrecoverable Volume																						
16	Centrifuge Losses			16																			
245	Total Losses	-	-	245	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	Mud Transferred Out																						
2,574	Ending System Volume	2,140	2,587	2,574	2,574	2,574	2,574	2,574	2,574	2,574	2,574	2,574	2,574	2,574	2,574	2,574	2,574	2,574	2,574	2,574	2,574	2,574	
-	Mud Recovered																						
2,587	Comments:							Comments:							Comments:								
	10/9/21 Transfer 2,140bls OBM from the HO4 to HO6.							10/16/21							10/23/21								
	10/10/21 Received 447bls of 8.6ppg OBM from mud plant.							10/17/21							10/24/21								
	10/11/21 Lost 229bls to mud on cuttings and 16bls to centrifuge running on active system for 3 hours.							10/18/21							10/25/21								
	10/12/21							10/19/21							10/26/21								
	10/13/21							10/20/21							10/27/21								
	10/14/21							10/21/21							10/28/21								
	10/15/21							10/22/21							10/29/21								

THIRD PARTY COST SHEET

[illegible]

OUTSOURCE FLUID SOLUTIONS LLC.

FLUID VOLUME ACCOUNTING

Operator:	MAGNOLIA OIL & GAS
Rig Name:	248
Well Name:	BIGHORN PASS H06 BH

		WEEK 1							WEEK 2							WEEK 3							
		Date	10/9/21	10/10/21	10/11/21	10/12/21	10/13/21	10/14/21	10/15/21	10/16/21	10/17/21	10/18/21	10/19/21	10/20/21	10/21/21	10/22/21	10/23/21	10/24/21	10/25/21	10/26/21	10/27/21	10/28/21	10/29/21
		Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	
Grand Totals	Starting Depth	-	3,020	3,020	5,946	9,790																	
	Ending Depth	3,020	3,020	5,946	9,790																		
9,790	Footage Drilled	3,020	-	2,926	3,844	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1,180	New Hole Vol.	539	-	277	364	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Starting System Volume		2,140	2,587	2,574	2,377	2,377	2,377	2,377	2,377	2,377	2,377	2,377	2,377	2,377	2,377	2,377	2,377	2,377	2,377	2,377	2,377	
39	Chemical Additions			27	12																		
333	Base Fluid Added			205	128																		
-	Barite Increase																						
2,587	Weighted Mud Added	2,140	447																				
-	Slurry Added																						
65	Water Added				65																		
-	Added for Washout																						
3,024	Total Additions	2,140	447	232	205	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	Surface Losses																						
-	Formation Loss																						
631	Mud Loss to Cuttings			229	402																		
-	Unrecoverable Volume																						
16	Centrifuge Losses			16																			
647	Total Losses	-	-	245	402	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	Mud Transferred Out																						
2,377	Ending System Volume	2,140	2,587	2,574	2,377	2,377	2,377	2,377	2,377	2,377	2,377	2,377	2,377	2,377	2,377	2,377	2,377	2,377	2,377	2,377	2,377	2,377	
-	Mud Recovered																						
2,587	Comments:								Comments:							Comments:							
	10/9/21 Transfer 2,140bls OBM from the HO4 to HO6.								10/16/21							10/23/21							
	10/10/21 Received 447bls of 8.6ppg OBM from mud plant.								10/17/21							10/24/21							
	10/11/21 Lost 229bls to mud on cuttings and 16bls to centrifuge running on active system for 3 hours.								10/18/21							10/25/21							
	10/12/21 Lost 402bls to mud on cuttings.								10/19/21							10/26/21							
	10/13/21								10/20/21							10/27/21							
	10/14/21								10/21/21							10/28/21							
	10/15/21								10/22/21							10/29/21							

10/13/21

110 Old Market St.
St Martinville, LA 70582

Report #5

TEL: (337) 394-1078

OUTSOURCE FLUID SOLUTIONS LLC.

25.4° 9,592' TVD

Operator MAGNOLIA OIL & GAS				Contractor PATTERSON			County / Parish / Block WASHINGTON		Engineer Start Date 10/08/21		24 hr fig. 0 ft		Drilled Depth 9,790 ft			
Well Name and No. BIGHORN PASS H06 BH				Rig Name and No. 248			State TEXAS		Spud Date 10/08/21		Current ROP 0 ft/hr		Activity Run Casing			
Report for Kevin Burt/Chris Mayeux				Report for Tool Pusher			Field / OCS-G # GIDDINGS		Fluid Type OBM		Circulating Rate 0 gpm		Circulating Pressure psi			
MUD PROPERTY SPECIFICATIONS							MUD VOLUME (BBL)		PUMP #1		PUMP #2		RISER BOOSTER			
Weight 8.8-12		PV 8-25	YP 6-20	E.S. >300	CaCl2 ±270K	GELS <8 <11	HTHP <10	In Pits 637 bbl In Hole 884 bbl Active 1519 bbl Storage <u>1375 bbl</u> Tot. on Location 2896 bbl		Liner Size 5.25 Stroke 12 bbl/stk 0.0763 stk/min 0 gal/min 0		Liner Size 5.25 Stroke 12 bbl/stk 0.0763 stk/min 0 gal/min 0		Liner Size Stroke bbl/stk 0.0000 stk/min gal/min 0		
				10/13/21		10/12/21										
Time Sample Taken				0:30		13:00										
Sample Location				pit		pit										
Flowline Temperature °F							PHHP = 0 CIRCULATION DATA n = 0.671 K = 209.200									
Depth (ft)				9,790'		9,790'	Bit Depth = 9,774 '			Washout = 5%			Pump Efficiency = 95%			
Mud Weight (ppg)				9.8		9.8	Drill String Disp. 103.3 bbl	Volume to Bit 448.8 bbl Bottoms Up Vol. 433.6 bbl Riser Ann. Vol. -6.1 bbl	Strokes To Bit BottomsUp Stks Riser Strokes			Time To Bit BottomsUp Time Riser Circ. Time				
Funnel Vis (sec/qt) @ 118 °F				52		51										
600 rpm				43		44										
300 rpm				27		27	DRILLING ASSEMBLY DATA					SOLIDS CONTROL				
200 rpm				22		23	Tubulars	OD (in.)	ID (in.)	Length	Top	Unit	Screens	Hours		
100 rpm				16		16	Drill Pipe	7.625	6.875	9,774'	0'	Shaker 1	140	15.0		
6 rpm				8		7	Hevi Wt				9,774'	Shaker 2	140	15.0		
3 rpm				7		6	Collars				9,774'	Shaker 3	140	15.0		
Plastic Viscosity (cp) @ 150 °F				16		17	Collars				9,774'	Desander				
Yield Point (lb/100 ft²) T0 = 6				11		10	CASING & HOLE DATA					Desilter				
Gel Strength (lb/100 ft²) 10 sec/10 min				8/11		8/11	Casing	OD (in.)	ID (in.)	Depth	Top	Centrifuge 1		1.0		
Gel Strength (lb/100 ft²) 30 min				13		14	Riser	20		108'		VOLUME ACCOUNTING (bbls)				
HTHP Filtrate (cm/30 min) @ 300 °F				8.8		7.0	Surface	10 3/4	9.950	3,007'	108'	Prev. Total on Location		2377.3		
HTHP Cake Thickness (32nds)				2.0		2.0	Int. Csg.			108'		Transferred In(+)/Out(-)		502.0		
Retort Solids Content				13%		12%	Washout 1					Oil Added (+)		3.3		
Corrected Solids (vol%)				10.7%		9.6%	Washout 2					Barite Added (+)		20.3		
Retort Oil Content				62.1%		62.5%	Open Hole Size	10.369	9,790'			Other Product Usage (+)		3.0		
Retort Water Content				24.9%		25.5%	ANNULAR GEOMETRY & RHEOLOGY					Water Added (+)				
O/W Ratio				71:29		71:29	annular section	meas. depth	velocity ft/min	flow reg	ECD lb/gal	Left on Cuttings (-)		0.0		
Whole Mud Chlorides (mg/L)				58,000		60,000	0x7.625	108'	0.0		9.84	Non-Recoverable Vol. (-)				
Water Phase Salinity (ppm)				267,537		269,519	9.95x7.625	3,007'	0.0	lam	9.84	Centrifuge		-10.0		
Whole Mud Alkalinity, Pom				2.8		2.3	10.369x7.625	9,774'	0.0	lam	9.84	Est. Total on Location		2896.0		
Excess Lime (lb/bbl)				3.6 ppb		3 ppb						Est. Losses/Gains (-)/(+)		0.0		
Electrical Stability (volts)				474 v		567 v						BIT HYDRAULICS DATA				
Average Specific Gravity of Solids				2.99		3.14						Bit H.S.I.	Bit ΔP	Nozzles (32nds)		
Percent Low Gravity Solids				6.8%		5.3%										
ppb Low Gravity Solids				56 ppb		43 ppb										
Percent Barite				3.9%		4.3%										
ppb Barite				56 ppb		62 ppb	BIT DATA		Manuf./Type		Ulterra / PDC					
Estimated Total LCM in System ppb							Size	Depth In	Hours	Footage	ROP ft/hr	Motor/MWD	Calc. Circ. Pressure			
Sample Taken By				N. Dilly	0	P. Blair	9 7/8									
Remarks/Recommendations: TOTAL OBM RECEIVED: 3,089bbls Received 1 load of diesel. Treating Acitve system with Lime in preparation for gas entrained mud displaced from hole during cement job. Plan Forward: Cement casing and skid to Bighorn Peak HO4 BH.							Rig Activity: Finished circulating hole clean with 9.8ppg in/out. Flow check-no flow, pump slug. POOH F/9,790' T/3,030', flow check-no flow. Remove rotating head, install trip nipple. POOH F/3,030' T/BHA, flow check-no flow. Lay down BHA and rig up casing crew. M/U shoe track and run 7 5/8" casing to 9,774'LP. Circulating through casing at report time. BHTemp 225 F.									
Eng. 1: Patrick Blair Phone: 936-465-0952				Eng. 2: Nick Dilly Phone: 337-207-8848		WH 1: MIDLAND Phone: 432-686-7361		WH 2: WH #2 Phone: -		Rig Phone:		Daily Total		Cumulative Cost		
W 1 P 1 Y 1 E 1 C 1 g 2 G 2 H 1 O 1				Any opinion and or recommendation, expressed orally or written herein, has been prepared carefully and may be used if the user so elects, however, no representation is made as to the validity of this information, and this is a recommendation only.									\$4,911.47		\$37,257.97	
							INCLUDING 3RD PARTY CHARGES					\$5,279.67		\$71,680.64		

THIRD PARTY COST SHEET

[illegible]

OUTSOURCE FLUID SOLUTIONS LLC.

FLUID VOLUME ACCOUNTING

Operator:	MAGNOLIA OIL & GAS
Rig Name:	248
Well Name:	BIGHORN PASS H06 BH

		WEEK 1							WEEK 2							WEEK 3							
		Date	10/9/21	10/10/21	10/11/21	10/12/21	10/13/21	10/14/21	10/15/21	10/16/21	10/17/21	10/18/21	10/19/21	10/20/21	10/21/21	10/22/21	10/23/21	10/24/21	10/25/21	10/26/21	10/27/21	10/28/21	10/29/21
		Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	
Grand Totals	Bit Size	13 1/2	13 1/2	9 7/8	9 7/8	9 7/8																	
	Starting Depth	-	3,020	3,020	5,946	9,790	9,790																
	Ending Depth	3,020	3,020	5,946	9,790	9,790																	
9,790	Footage Drilled	3,020	-	2,926	3,844	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1,180	New Hole Vol.	539	-	277	364	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Starting System Volume		2,140	2,587	2,574	2,377	2,896	2,896	2,896	2,896	2,896	2,896	2,896	2,896	2,896	2,896	2,896	2,896	2,896	2,896	2,896	2,896	
42	Chemical Additions			27	12	3																	
337	Base Fluid Added			205	128	4																	
20	Barite Increase					20																	
3,089	Weighted Mud Added	2,140	447			502																	
-	Slurry Added																						
65	Water Added				65																		
-	Added for Washout																						
3,553	Total Additions	2,140	447	232	205	529	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	Surface Losses																						
-	Formation Loss																						
631	Mud Loss to Cuttings			229	402																		
-	Unrecoverable Volume																						
26	Centrifuge Losses			16		10																	
657	Total Losses	-	-	245	402	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	Mud Transferred Out																						
2,896	Ending System Volume	2,140	2,587	2,574	2,377	2,896	2,896	2,896	2,896	2,896	2,896	2,896	2,896	2,896	2,896	2,896	2,896	2,896	2,896	2,896	2,896	2,896	
-	Mud Recovered																						
3,089	Comments:							Comments:							Comments:								
	10/9/21	Transfer 2,140bls OBM from the HO4 to HO6.							10/16/21							10/23/21							
	10/10/21	Received 447bls of 8.6ppg OBM from mud plant.							10/17/21							10/24/21							
	10/11/21	Lost 229bls to mud on cuttings and 16bls to centrifuge running on active system for 3 hours.							10/18/21							10/25/21							
	10/12/21	Lost 402bls to mud on cuttings.							10/19/21							10/26/21							
	10/13/21	Lost 10bls to centrifuges processing on active system to maintain MW.							10/20/21							10/27/21							
	10/14/21								10/21/21							10/28/21							
	10/15/21								10/22/21							10/29/21							

10/14/21

110 Old Market St.
St Martinville, LA 70582

Report #6

TEL: (337) 394-1078

OUTSOURCE FLUID SOLUTIONS LLC.

0.0°

0' TVD

Operator MAGNOLIA OIL & GAS				Contractor PATTERSON			County / Parish / Block WASHINGTON		Engineer Start Date 10/08/21		24 hr fig. 0 ft		Drilled Depth 9,790 ft											
Well Name and No. BIGHORN PASS H06 BH				Rig Name and No. 248			State TEXAS		Spud Date 10/08/21		Current ROP 0 ft/hr		Activity SKID RIG											
Report for Brandon Parks				Report for Tool Pusher			Field / OCS-G # GIDDINGS		Fluid Type OBM		Circulating Rate 0 gpm		Circulating Pressure psi											
MUD PROPERTY SPECIFICATIONS							MUD VOLUME (BBL)		PUMP #1		PUMP #2		RISER BOOSTER											
Weight 8.8-12		PV 8-25	YP 6-20	E.S. >300	CaCl2 ±300K	GELS <8 <11	HTHP <10	In Pits In Hole 444 bbl Active 0 bbl Storage Tot. on Location 444 bbl		Liner Size 5.25 Stroke 12 bbl/stk 0.0763 stk/min 0 gal/min 0		Liner Size 5.25 Stroke 12 bbl/stk 0.0763 stk/min 0 gal/min 0		Liner Size Stroke bbl/stk 0.0000 stk/min gal/min 0										
				10/13/21																				
Time Sample Taken				0:30																				
Sample Location				pit																				
Flowline Temperature °F							PHHP = 0 CIRCULATION DATA n = 0.610 K = 215.795																	
Depth (ft)				9,790'			Bit Depth = '			Washout = 5%		Pump Efficiency = 95%												
Mud Weight (ppg)				8.8			Drill String Disp.	Volume to Bit 0.0 bbl		Strokes To Bit		Time To Bit												
Funnel Vis (sec/qt) @ 118 °F				51				Bottoms Up Vol. 0.0 bbl		BottomsUp Stks		BottomsUp Time												
600 rpm				29				0.0 bbl	Riser Ann. Vol. 0.0 bbl		Riser Strokes		Riser Circ. Time											
300 rpm				19			DRILLING ASSEMBLY DATA					SOLIDS CONTROL												
200 rpm				14			Tubulars	OD (in.)	ID (in.)	Length	Top	Unit	Screens	Hours										
100 rpm				11			Drill Pipe				0'	0'	Shaker 1	140										
6 rpm				5			Hevi Wt							Shaker 2	140									
3 rpm				4			Collars							Shaker 3	140									
Plastic Viscosity (cp) @ 150 °F				10			Collars							Desander										
Yield Point (lb/100 ft²) T0 = 3				9			CASING & HOLE DATA								Desilter									
Gel Strength (lb/100 ft²) 10 sec/10 min				4/8			Casing	OD (in.)	ID (in.)	Depth	Top	Centrifuge 1												
Gel Strength (lb/100 ft²) 30 min				12			Riser	20				108'		VOLUME ACCOUNTING (bbls)										
HTHP Filtrate (cm/30 min) @ 300 °F				10.0			Surface	10 3/4	9.950	3,007'	108'	Prev. Total on Location			2896.0									
HTHP Cake Thickness (32nds)				2.0			Int. Csg.	7 5/8	6.875	9,774'	108'	Transferred In(+)/Out(-)			-2362.0									
Retort Solids Content				9%			Washout 1						Oil Added (+)			0.0								
Corrected Solids (vol%)				6.5%			Washout 2						Barite Added (+)			0.0								
Retort Oil Content				65%			Open Hole Size 0.000 9,790'						Other Product Usage (+)			0.0								
Retort Water Content				26%			ANNULAR GEOMETRY & RHEOLOGY								Water Added (+)									
O/W Ratio				71:29			annular section	meas. depth	velocity ft/min	flow reg	ECD lb/gal	Left on Cuttings (-)			0.0									
Whole Mud Chlorides (mg/L)				62,000											Dumped (-)			-50.0						
Water Phase Salinity (ppm)				272,160											Centrifuge			-40.2						
Whole Mud Alkalinity, Pom				2.2											Est. Total on Location			443.8						
Excess Lime (lb/bbl)				2.9 ppb											Est. Losses/Gains (-)/(+)			0.0						
Electrical Stability (volts)				310 v											BIT HYDRAULICS DATA					Bit H.S.I.	Bit ΔP	Nozzles (32nds)		
Average Specific Gravity of Solids				2.59																				
Percent Low Gravity Solids				5.6%																				
ppb Low Gravity Solids				46 ppb																				
Percent Barite				0.9%																				
ppb Barite				13 ppb																				
Estimated Total LCM in System ppb							Size	Depth In	Hours	Footage	ROP ft/hr	Motor/MWD	Calc. Circ. Pressure											
Sample Taken By				M. Washburn	0	0																		
Remarks/Recommendations: TOTAL OBM RECEIVED: 3,089bbls Transferring 2,362bbls to the H04 leaving 444bbls OBM in casing on H06.							Rig Activity: Run 7-5/8" intermediate casing to 9774, circulate 1.5 X casing capacity with full returns. Rig up cementers, test lines, cement casing in place observe 50 bbls cement spacer interface at surface and divert to open top cuttings tank and transfer to disposal. Inspect shaker screens and replace torn panels. Process active surface volume and reduce mud wt from 9.8 to 8.8 with application of centrifuge and additions of diesel and slurry. Pretreat in preparation for drilling intermediate on the Bighorn H04 BH.																	
Eng. 1: Patrick Blair		Eng. 2: Nick Dilly		WH 1: MIDLAND		WH 2: WH #2		Rig Phone:		Daily Total		Cumulative Cost												
Phone: 936-465-0952		Phone: 337-207-8848		Phone: 432-686-7361		Phone: -																		
W 1		P 1		Y 1		E 1		C 0		g 1		G 1		H 2		O 1								
							INCLUDING 3RD PARTY CHARGES					\$0.00		\$71,680.64										

THIRD PARTY COST SHEET

[illegible]

FLUID VOLUME ACCOUNTING

Operator:	MAGNOLIA OIL & GAS
Rig Name:	248
Well Name:	BIGHORN PASS H06 BH

727

11/08/21

110 Old Market St.
St Martinville, LA 70582

Report #7

TEL: (337) 394-1078

OUTSOURCE FLUID SOLUTIONS LLC.

0.0°

0' TVD

Operator MAGNOLIA OIL & GAS				Contractor PATTERSON			County / Parish / Block WASHINGTON		Engineer Start Date 10/08/21		24 hr fig. 0 ft		Drilled Depth 9,790 ft						
Well Name and No. BIGHORN PASS H06 BH				Rig Name and No. 248			State TEXAS		Spud Date 10/08/21		Current ROP 0 ft/hr		Activity Test BOPs						
Report for Kevin Burt / Chris Mayeux				Report for Tool Pusher			Field / OCS-G # GIDDINGS		Fluid Type OBM		Circulating Rate 0 gpm		Circulating Pressure psi						
MUD PROPERTY SPECIFICATIONS							MUD VOLUME (BBL)		PUMP #1		PUMP #2		RISER BOOSTER						
Weight 8.8-12		PV 8-25	YP 6-20	E.S. >300	CaCl2 ±300K	GELS <8 <11	HTHP <10	In Pits 600 bbl In Hole 444 bbl Active 600 bbl Storage <u>1500 bbl</u> Tot. on Location 2544 bbl		Liner Size 4.75 Stroke 12 bbl/stk 0.0625 stk/min 0 gal/min 0		Liner Size 4.75 Stroke 12 bbl/stk 0.0625 stk/min 0 gal/min 0		Liner Size Stroke bbl/stk 0.0000 stk/min gal/min 0					
Time Sample Taken																			
Sample Location																			
Flowline Temperature °F																			
Depth (ft)																			
Mud Weight (ppg)																			
Funnel Vis (sec/qt) @ 118 °F																			
600 rpm																			
300 rpm																			
200 rpm																			
100 rpm																			
6 rpm																			
3 rpm																			
Plastic Viscosity (cp) @ 150 °F																			
Yield Point (lb/100 ft²) T0 =																			
Gel Strength (lb/100 ft²) 10 sec/10 min																			
Gel Strength (lb/100 ft²) 30 min																			
HTHP Filtrate (cm/30 min) @ 300 °F																			
HTHP Cake Thickness (32nds)																			
Retort Solids Content																			
Corrected Solids (vol%)																			
Retort Oil Content																			
Retort Water Content																			
O/W Ratio																			
Whole Mud Chlorides (mg/L)																			
Water Phase Salinity (ppm)																			
Whole Mud Alkalinity, Pom																			
Excess Lime (lb/bbl)																			
Electrical Stability (volts)																			
Average Specific Gravity of Solids																			
Percent Low Gravity Solids																			
ppb Low Gravity Solids																			
Percent Barite																			
ppb Barite																			
Estimated Total LCM in System ppb																			
Sample Taken By							N. Dilly		0		P. Blair								
Remarks/Recommendations: Received 1210bbls OBM from the HO4. Transfer all inventory from the HO4. Received 420bbls 8.4ppg and 470bbls of 9.0ppg OBM from mud plant.							Rig Activity: Skid rig from the Bighorn Peak HO4 BH. Nipple up. Transfer all mud from active pits to corresponding frac tanks. Currently testing BOPs and preparing to load pits with 9.0ppg OBM.												
Eng. 1: Patrick Blair Phone: 936-465-0952							Eng. 2: Nick Dilly Phone: 337-207-8848		WH 1: MIDLAND Phone: 432-686-7361		WH 2: WH #2 Phone: -		Rig Phone:		Daily Total		Cumulative Cost		
W P Y E C g G H O 0 2 2 0 2 1 1 1 1							Any opinion and or recommendation, expressed orally or written herein, has been prepared carefully and may be used if the user so elects, however, no representation is made as to the validity of this information, and this is a recommendation only.									\$2,040.00		\$39,297.97	
							INCLUDING 3RD PARTY CHARGES									\$2,040.00		\$73,720.64	

THIRD PARTY COST SHEET

[illegible]

OUTSOURCE FLUID SOLUTIONS LLC.

FLUID VOLUME ACCOUNTING

Operator:	MAGNOLIA OIL & GAS
Rig Name:	248
Well Name:	BIGHORN PASS H06 B

		WEEK 1							WEEK 2							WEEK 3							
		Date	10/9/21	10/10/21	10/11/21	10/12/21	10/13/21	10/14/21	10/15/21	10/16/21	10/17/21	10/18/21	10/19/21	10/20/21	10/21/21	10/22/21	10/23/21	10/24/21	10/25/21	10/26/21	10/27/21	10/28/21	10/29/21
		Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	
Bit Size		13 1/2	13 1/2	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	
Grand Totals	Starting Depth	-	3,020	3,020	5,946	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	
	Ending Depth	3,020	3,020	5,946	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	
9,790	Footage Drilled	3,020	-	2,926	3,844	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1,180	New Hole Vol.	539	-	277	364	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Starting System Volume		2,140	2,587	2,574	2,377	2,896	444	444	444	444	444	444	444	444	444	444	444	444	444	444	444	
42	Chemical Additions			27	12	3																	
337	Base Fluid Added			205	128	4																	
20	Barite Increase					20																	
5,189	Weighted Mud Added	2,140	447			502																	
-	Slurry Added																						
65	Water Added				65																		
-	Added for Washout																						
5,653	Total Additions	2,140	447	232	205	529	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	Surface Losses																						
-	Formation Loss																						
631	Mud Loss to Cuttings			229	402																		
50	Unrecoverable Volume						50																
66	Centrifuge Losses			16		10	40																
747	Total Losses	-	-	245	402	10	90	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2,362	Mud Transferred Out						2,362																
2,544	Ending System Volume	2,140	2,587	2,574	2,377	2,896	444	444	444	444	444	444	444	444	444	444	444	444	444	444	444	444	
-	Mud Recovered																						
2,827		Comments:							Comments:							Comments:							
		10/9/21 Transfer 2,140bls OBM from the HO4 to HO6.							10/16/21							10/23/21							
		10/10/21 Received 447bls of 8.6ppg OBM from mud plant.							10/17/21							10/24/21							
		10/11/21 Lost 229bls to mud on cuttings and 16bls to centrifuge running on active system for 3 hours.							10/18/21							10/25/21							
		10/12/21 Lost 402bls to mud on cuttings.							10/19/21							10/26/21							
		10/13/21 Lost 10bls to centrifuges processing on active system to maintain MW.							10/20/21							10/27/21							
		10/14/21 Lost 40bls to centrifuges while cutting MW back in pits and 50bls to spacer interface dumped during cement job.							10/21/21							10/28/21							
		10/15/21							10/22/21							10/29/21							

11/09/21

110 Old Market St.
St Martinville, LA 70582

Report #8

TEL: (337) 394-1078

OUTSOURCE FLUID SOLUTIONS LLC.

56.8° 10,065' TVD

Operator				Contractor			County / Parish / Block			Engineer Start Date			24 hr fig.			Drilled Depth					
MAGNOLIA OIL & GAS							PATTERSON			WASHINGTON			10/08/21			530 ft			10,320 ft		
Well Name and No.							Rig Name and No.			State			Spud Date			Current ROP			Activity		
BIGHORN PASS H06 BH							248			TEXAS			10/08/21			95 ft/hr			Drill Curve		
Report for							Report for			Field / OCS-G #			Fluid Type			Circulating Rate			Circulating Pressure		
Kevin Burt / Chris Mayeux							Tool Pusher			GIDDINGS			WBM			344 gpm			4,554 psi		
MUD PROPERTY SPECIFICATIONS							MUD VOLUME (BBL)			PUMP #1			PUMP #2			RISER BOOSTER					
Weight	PV	YP	GELS	pH	API fl	% Solids	In Pits	320 bbl	Liner Size	4.75	Liner Size	4.75	Liner Size								
8.4-9.6	0-10	0-10	<5 <10	8.4-9	<25	2-10	In Hole	412 bbl	Stroke	12	Stroke	12	Stroke								
				11/9/21			Active	732 bbl	bbl/stk	0.0625	bbl/stk	0.0625	bbl/stk	0.0000							
Time Sample Taken				2:00			Storage	2100 bbl	stk/min	64	stk/min	67	stk/min								
Sample Location				PIT			Tot. on Location	2832 bbl	gal/min	168	gal/min	176	gal/min	0							
Flowline Temperature °F							PHHP = 913 CIRCULATION DATA n = 0.737 K = 15.441														
Depth (ft)				10,313'			Bit Depth = 10,320 '			Washout = 5%			Pump Efficiency = 95%								
Mud Weight (ppg)				8.4			Drill String Disp.	Volume to Bit	145.8 bbl	Strokes To Bit	2,334	Time To Bit	18 min								
Funnel Vis (sec/qt)				@ 86 °F	29			Bottoms Up Vol.	266.5 bbl	BottomsUp Stks	4,267	BottomsUp Time	33 min								
600 rpm				5				58.2 bbl	Riser Ann. Vol.	-2.1 bbl	Riser Strokes	-34	Riser Circ. Time	0 min							
300 rpm				3			DRILLING ASSEMBLY DATA					SOLIDS CONTROL									
200 rpm				2			Tubulars	OD (in.)	ID (in.)	Length	Top	Unit	Screens	Hours							
100 rpm				1			Drill Pipe	4.500	3.826	10,188'	0'	Shaker 1	140	15.0							
6 rpm				1			Collars	5.250	2.680	132'	10,188'	Shaker 2	140	15.0							
3 rpm				1			Collars				10,320'	Shaker 3	140	15.0							
Plastic Viscosity (cp)				@ 120 °F	2		Collars				10,320'	Desander									
Yield Point (lb/100 ft²)				T0 = 1	1		CASING & HOLE DATA					Desilter									
Gel Strength (lb/100 ft²)				10 sec/10 min	1/1		Casing	OD (in.)	ID (in.)	Depth	Top	Centrifuge 1	0.0								
Gel Strength (lb/100 ft²)				30 min	1		Riser	20				108'	VOLUME ACCOUNTING (bbls)								
API Filtrate / Cake Thickness							Surface	10 3/4	9.950	3,007'	108'	Prev. Total on Location	2543.8								
HTHP Filtrate / Cake Thickness				@ 0 °F			Int. Csg.	7 5/8	6.875	9,774'	108'	Transferred In(+)/Out(-)	415.0								
Retort Solids Content				0.6%			Washout 1					Oil Added (+)	90.2								
Retort Oil Content				2%			Washout 2					Barite Added (+)	34.8								
Retort Water Content				97.4%			Open Hole Size					7.088	10,320'	Other Product Usage (+)	23.8						
Sand Content				0%			ANNULAR GEOMETRY & RHEOLOGY					Water Added (+)									
M.B.T. (Methylene Blue Capacity) (ppb)							annular section	meas. depth	velocity ft/min	flow reg	ECD lb/gal	Left on Cuttings (-)	-12.9								
pH				7.0								Lost Returns (-)	-262.4								
Alkalinity, Mud Pm				0.1			0x4.5	108'	-416.0			8.49	Non-Recoverable Vol. (-)								
Alkalinities, Filtrate Pf/Mf				0.1/0.2			6.875x4.5	9,774'	311.8	turb	8.90	Est. Total on Location	2832.3								
Chlorides (mg/L)				1600			7.088x4.5	10,188'	280.9	turb	9.03	Est. Losses/Gains (-)/(+)	0.0								
Calcium (ppm)				280			7.088x5.25	10,320'	371.5	turb	9.16	BIT HYDRAULICS DATA									
Excess Lime (lb/bbl)												Bit H.S.I.	Bit ΔP	Nozzles (32nds)							
Average Specific Gravity of Solids				2.60	2.60	2.60						0.23	41 psi	18	18	18					
Percent Low Gravity Solids				0.5%								Bit Impact Force	Nozzle Velocity (ft/sec)	18	18	18					
Percent Drill Solids				0.5%																	
PPA Spurt / Total (ml) @				@ 0 °F			BIT DATA		Manuf./Type			111 lbs	74								
Estimated Total LCM in System				ppb			Size	Depth In	Hours	Footage	ROP ft/hr	Motor/MWD	Calc. Circ. Pressure								
Sample Taken By				N. Dilly		P. Blair	6 3/4	9,790 ft	15.0	530 ft	35.3	3,896 psi	4,554 psi								
Remarks/Recommendations:							Rig Activity:														
Received OBM (Consignment volume): 2959bbls							Finished testing BOPs and loading pits with 9.0ppg OBM. Slip/Cut drill line, lubricate rig. Pretreated pits with Mul, wet, Calcium Chloride, Lime and Bentone 910/990. TIH and tag cement. Drill out cement and 10' of new formation. FIT to 13.0ppg EMW. Drill ahead sliding 100% down to 10,177' and lost nearly full returns. Pick up off bottom and slow pump rate in attempt to regain returns while mixing LCM in slugging pit (lost 122bbls). Decision made to drill under mud cap. Pumped all active mud to frac tanks and filled pits 5/6 with 17.0ppg kill mud. Pumped 140bbls kill mud down backside. Continue drilling under mud cap with freshwater to 10,320' at report time.														
Plan Forward: Land curve and drill ahead under mud cap to TD.																					
Received 415bbls 17.5ppg from mud plant.																					
Received 1 load of bulk barite.																					
Mud check derived from drill water in slugging pit.																					
Eng. 1:		Patrick Blair		Eng. 2:		Nick Dilly		WH 1:		MIDLAND		WH 2:		WH #2		Rig Phone:		Daily Total		Cumulative Cost	
Phone:		936-465-0952		Phone:		337-207-8848		Phone:		432-686-7361		Phone:		-				\$29,335.09		\$68,633.06	
W	P	Y	g	G	p	A	S	C	Any opinion and or recommendation, expressed orally or written herein, has been prepared carefully and may be used if the user so elects, however, no representation is made as to the validity of this information, and this is a recommendation only.												
1	1	1	1	1	0	1	0	0													
									INCLUDING 3RD PARTY CHARGES							\$37,791.09			\$111,511.73		

THIRD PARTY COST SHEET

[illegible]

OUTSOURCE FLUID SOLUTIONS LLC.

FLUID VOLUME ACCOUNTING

Operator:	MAGNOLIA OIL & GAS
Rig Name:	248
Well Name:	BIGHORN PASS H06 BH

		WEEK 1								WEEK 2								WEEK 3							
		Date	10/9/21	10/10/21	10/11/21	10/12/21	10/13/21	10/14/21	10/15/21	10/16/21	10/17/21	10/18/21	10/19/21	10/20/21	10/21/21	10/22/21	10/23/21	10/24/21	10/25/21	10/26/21	10/27/21	10/28/21	10/29/21		
		Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri			
Grand Totals	Bit Size	13 1/2	13 1/2	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8			
	Starting Depth	-	3,020	3,020	5,946	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790				
	Ending Depth	3,020	3,020	5,946	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790				
10,320	Footage Drilled	3,020	-	2,926	3,844	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
1,203	New Hole Vol.	539	-	277	364	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
	Starting System Volume		2,140	2,587	2,574	2,377	2,896	444	444	444	444	444	444	444	444	444	444	444	444	444	444				
66	Chemical Additions			27	12	3																			
427	Base Fluid Added			205	128	4																			
54	Barite Increase					20																			
5,604	Weighted Mud Added	2,140	447			502																			
-	Slurry Added																								
65	Water Added				65																				
-	Added for Washout																								
6,216	Total Additions	2,140	447	232	205	529	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
-	Surface Losses																								
262	Formation Loss																								
644	Mud Loss to Cuttings			229	402																				
50	Unrecoverable Volume							50																	
66	Centrifuge Losses			16		10	40																		
1,022	Total Losses	-	-	245	402	10	90	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
2,362	Mud Transferred Out						2,362																		
2,832	Ending System Volume	2,140	2,587	2,574	2,377	2,896	444	444	444	444	444	444	444	444	444	444	444	444	444	444	444				
-	Mud Recovered																								
3,242	Comments:								Comments:								Comments:								
	10/9/21 Transfer 2,140bls OBM from the HO4 to HO6.								10/16/21								10/23/21								
	10/10/21 Received 447bls of 8.6ppg OBM from mud plant.								10/17/21								10/24/21								
	10/11/21 Lost 229bls to mud on cuttings and 16bls to centrifuge running on active system for 3 hours.								10/18/21								10/25/21								
	10/12/21 Lost 402bls to mud on cuttings.								10/19/21								10/26/21								
	10/13/21 Lost 10bls to centrifuges processing on active system to maintain MW.								10/20/21								10/27/21								
	10/14/21 Lost 40bls to centrifuges while cutting MW back in pits and 50bls to spacer interface dumped during cement job.								10/21/21								10/28/21								
10/15/21								10/22/21								10/29/21									

11/10/21

110 Old Market St.
St Martinville, LA 70582

Report #9

TEL: (337) 394-1078

OUTSOURCE FLUID SOLUTIONS LLC.

86.4° 10,241' TVD

Operator MAGNOLIA OIL & GAS							Contractor PATTERSON			County / Parish / Block WASHINGTON			Engineer Start Date 10/08/21			24 hr fig. 2,225 ft			Drilled Depth 12,545 ft																					
Well Name and No. BIGHORN PASS H06 BH							Rig Name and No. 248			State TEXAS			Spud Date 10/08/21			Current ROP 216 ft/hr			Activity Drilling																					
Report for Kevin Burt / Chris Mayeux							Report for Tool Pusher			Field / OCS-G # GIDDINGS			Fluid Type WBM			Circulating Rate 375 gpm			Circulating Pressure 4,550 psi																					
MUD PROPERTY SPECIFICATIONS							MUD VOLUME (BBL)			PUMP #1			PUMP #2			RISER BOOSTER																								
Weight 8.4-9.6		PV 0-10		YP 0-10		GELS <5 <10		pH 8.4-9		API fl <25		% Solids 2-10		In Pits 220 bbl In Hole 509 bbl Active 729 bbl Storage <u>2483 bbl</u> Tot. on Location 3212 bbl		Liner Size 4.75 Stroke 12 bbl/stk 0.0625 stk/min 72 gal/min 189		Liner Size 4.75 Stroke 12 bbl/stk 0.0625 stk/min 71 gal/min 186		Liner Size Stroke bbl/stk 0.0000 stk/min gal/min 0																				
							11/10/21				11/9/21																													
Time Sample Taken							2:00				12:00																													
Sample Location							PIT				pit																													
Flowline Temperature °F													PHHP = 996		CIRCULATION DATA		n = 0.415 K = 114.973																							
Depth (ft)							10,313'				11,280'		Bit Depth = 12,545 '		Washout = 5%		Pump Efficiency = 95%																							
Mud Weight (ppg)							8.4				8.4		Drill String Disp.		Volume to Bit 177.4 bbl Bottoms Up Vol. 331.3 bbl Riser Ann. Vol. -2.1 bbl		Strokes To Bit 2,840 BottomsUp Stks 5,304 Riser Strokes -34		Time To Bit 20 min BottomsUp Time 37 min Riser Circ. Time 0 min																					
600 rpm							4				5		70.3 bbl																											
300 rpm							3				3		DRILLING ASSEMBLY DATA							SOLIDS CONTROL																				
200 rpm							2				2		Tubulars OD (in.) ID (in.) Length Top					Unit Screens Hours																						
100 rpm							1				1		Drill Pipe 4.500 3.826 12,413' 0'					Shaker 1 140 0.0																						
6 rpm							1				1		Collars 5.250 2.680 132' 12,413'					Shaker 2 140 0.0																						
3 rpm							1				1		Collars 12,545'					Shaker 3 140 0.0																						
Plastic Viscosity (cp) @ 120 °F							1				2		Collars 12,545'					Desander																						
Yield Point (lb/100 ft²) T0 = 1							2				1		CASING & HOLE DATA							Desilter																				
Gel Strength (lb/100 ft²) 10 sec/10 min							1/1				1/1		Casing OD (in.) ID (in.) Depth Top					Centrifuge 1 0.0																						
Gel Strength (lb/100 ft²) 30 min							1				1		Riser 20 108'					VOLUME ACCOUNTING (bbls)																						
API Filtrate / Cake Thickness													Surface 10 3/4 9.950 3,007' 108'					Prev. Total on Location 2832.3																						
HTHP Filtrate / Cake Thickness @ 0 °F													Int. Csg. 7 5/8 6.875 9,774' 108'					Transferred In(+)/Out(-) 194.0																						
Retort Solids Content							0.7%				0.7%		Washout 1					Oil Added (+) 136.0																						
Retort Oil Content							3%				3%		Washout 2					Barite Added (+) 49.1																						
Retort Water Content							96.3%				96.3%		Open Hole Size 7.088 12,545'					Other Product Usage (+) 0.0																						
Sand Content							0%				0%		ANNULAR GEOMETRY & RHEOLOGY							Water Added (+) 0.3																				
M.B.T. (Methylene Blue Capacity) (ppb)													annular section		meas. depth		velocity ft/min		flow reg		ECD lb/gal																			
pH							7.0				7.0		0x4.5 108'		-454.1 8.59																									
Alkalinity, Mud Pm							0.1				0.1		6.875x4.5 9,774'		340.4 turb 9.05																									
Alkalinities, Filtrate Pf/Mf							0.1/0.2				0.1/0.2		7.088x4.5 12,413'		306.6 turb 9.39																									
Chlorides (mg/L)							1400				1600		7.088x5.25 12,545'		405.5 turb 9.67																									
Calcium (ppm)							240				280									BIT HYDRAULICS DATA																				
Excess Lime (lb/bbl)																				Bit H.S.I.		Bit ΔP		Nozzles (32nds)																
Average Specific Gravity of Solids							2.60		2.60		2.60									0.30		49 psi		18		18		18												
Percent Low Gravity Solids							0.6%				0.6%									Bit Impact Force		Nozzle Velocity (ft/sec)		18		18		18												
Percent Drill Solids							0.6%				0.6%																													
PPA Spurt / Total (ml) @ @ 0 °F													BIT DATA			Manuf./Type					132 lbs		81																	
Estimated Total LCM in System ppb													Size		Depth In		Hours		Footage		ROP ft/hr		Motor/MWD		Calc. Circ. Pressure															
Sample Taken By							N. Dilly				P. Blair		6 3/4		9,790 ft		38.0		2,755 ft		72.5		3,650 psi		4,414 psi															
Remarks/Recommendations: Received OBM (Consignment volume): 3153bbls Plan Forward: Drill lateral to TD under mud cap. Received 52bbls 17.5ppg and 142bbls 14.0ppg from mud plant. Received 2 loads of bulk barite. Mud check derived from drill water in slugging pit.										Rig Activity: Drill/slide under mud cap with freshwater/produced water from 10,320' to 10,600' LP. Adding 3.5bbls/hr diesel and 1.6gal/hr PHPA to drill water. Continue drilling lateral at 12,545' at report time. Built additional 17.0ppg kill mud out of 14.0ppg receieved from mud plant. Received 800bbls produced brine which was also used for mud cap drilling before swapping back to freshwater.																														
Eng. 1: Patrick Blair Phone: 936-465-0952							Eng. 2: Nick Dilly Phone: 337-207-8848							WH 1: MIDLAND Phone: 432-686-7361							WH 2: WH #2 Phone: -							Rig Phone:							Daily Total			Cumulative Cost		
W P Y g G p A S C 1 1 1 1 1 0 1 0 0							Any opinion and or recommendation, expressed orally or written herein, has been prepared carefully and may be used if the user so elects, however, no representation is made as to the validity of this information, and this is a recommendation only.																					\$11,086.90			\$79,719.96									
										INCLUDING 3RD PARTY CHARGES																					\$26,509.30			\$138,021.03						

THIRD PARTY COST SHEET

[illegible]

OUTSOURCE FLUID SOLUTIONS LLC.

FLUID VOLUME ACCOUNTING

Operator:	MAGNOLIA OIL & GAS
Rig Name:	248
Well Name:	BIGHORN PASS H06 BH

		WEEK 1							WEEK 2							WEEK 3							
		Date	10/9/21	10/10/21	10/11/21	10/12/21	10/13/21	10/14/21	10/15/21	10/16/21	10/17/21	10/18/21	10/19/21	10/20/21	10/21/21	10/22/21	10/23/21	10/24/21	10/25/21	10/26/21	10/27/21	10/28/21	10/29/21
		Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	
Grand Totals	Bit Size	13 1/2	13 1/2	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	
	Starting Depth	-	3,020	3,020	5,946	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	
12,545	Ending Depth	3,020	3,020	5,946	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	
	Footage Drilled	3,020	-	2,926	3,844	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1,302	New Hole Vol.	539	-	277	364	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Starting System Volume		2,140	2,587	2,574	2,377	2,896	444	444	444	444	444	444	444	444	444	444	444	444	444	444	444	
66	Chemical Additions			27	12	3																	
563	Base Fluid Added			205	128	4																	
104	Barite Increase					20																	
5,798	Weighted Mud Added	2,140	447			502																	
-	Slurry Added																						
65	Water Added				65																		
-	Added for Washout																						
6,596	Total Additions	2,140	447	232	205	529	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	Surface Losses																						
262	Formation Loss																						
644	Mud Loss to Cuttings			229	402																		
50	Unrecoverable Volume						50																
66	Centrifuge Losses		16			10	40																
1,022	Total Losses	-	-	245	402	10	90	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2,362	Mud Transferred Out						2,362																
3,212	Ending System Volume	2,140	2,587	2,574	2,377	2,896	444	444	444	444	444	444	444	444	444	444	444	444	444	444	444	444	
-	Mud Recovered																						
3,436		Comments:							Comments:							Comments:							
		10/9/21 Transfer 2,140bls OBM from the HO4 to HO6.							10/16/21							10/23/21							
		10/10/21 Received 447bls of 8.6ppg OBM from mud plant.							10/17/21							10/24/21							
		10/11/21 Lost 229bls to mud on cuttings and 16bls to centrifuge running on active system for 3 hours.							10/18/21							10/25/21							
		10/12/21 Lost 402bls to mud on cuttings.							10/19/21							10/26/21							
		10/13/21 Lost 10bls to centrifuges processing on active system to maintain MW.							10/20/21							10/27/21							
		10/14/21 Lost 40bls to centrifuges while cutting MW back in pits and 50bls to spacer interface dumped during cement job.							10/21/21							10/28/21							
		10/15/21							10/22/21							10/29/21							

11/11/21

110 Old Market St.
St Martinville, LA 70582

Report #10
TEL: (337) 394-1078

OUTSOURCE FLUID SOLUTIONS LLC.

86.0° 10,401' TVD

Operator				Contractor				County / Parish / Block				Engineer Start Date				24 hr fig.				Drilled Depth											
MAGNOLIA OIL & GAS								PATTERSON				WASHINGTON				10/08/21				2,530 ft				15,075 ft							
Well Name and No.								Rig Name and No.				State				Spud Date				Current ROP				Activity							
BIGHORN PASS H06 BH								248				TEXAS				10/08/21				224 ft/hr				Drilling							
Report for								Report for				Field / OCS-G #				Fluid Type				Circulating Rate				Circulating Pressure							
Brandon Parks / Jim Harrison								Tool Pusher				GIDDINGS				WBM				375 gpm				5,155 psi							
MUD PROPERTY SPECIFICATIONS												MUD VOLUME (BBL)				PUMP #1				PUMP #2				RISER BOOSTER							
Weight		PV		YP		GELS		pH		API fl		% Solids		In Pits		220 bbl		Liner Size		4.75		Liner Size		4.75		Liner Size					
8.4-9.6		0-10		0-10		<5 <10		8.4-9		<25		2-10		In Hole		618 bbl		Stroke		12		Stroke		12		Stroke					
								11/11/21				11/10/21		Active		838 bbl		bbl/stk		0.0625		bbl/stk		0.0625		bbl/stk		0.0000			
Time Sample Taken								2:00				14:00		Storage		2437 bbl		stk/min		72		stk/min		71		stk/min					
Sample Location								PIT				pit		Tot. on Location		3275 bbl		gal/min		189		gal/min		186		gal/min		0			
Flowline Temperature °F														PHHP = 1128CIRCULATION DATA n = 0.585 K = 26.563																	
Depth (ft)								14,957'				13,993'		Bit Depth = 15,075 '				Washout = 5%				Pump Efficiency = 95%									
Mud Weight (ppg)								8.4				8.4		Drill String Disp.		Volume to Bit		213.4 bbl		Strokes To Bit		3,416		Time To Bit		24 min					
Funnel Vis (sec/qt)								@ 82 °F		27		29		Bottoms Up Vol.		405.0 bbl		BottomsUp Stks		6,484		BottomsUp Time		45 min							
600 rpm								3				5		84.1 bbl		Riser Ann. Vol.		-2.1 bbl		Riser Strokes		-34		Riser Circ. Time		0 min					
300 rpm								2				3		DRILLING ASSEMBLY DATA								SOLIDS CONTROL									
200 rpm								1				2		Tubulars		OD (in.)		ID (in.)		Length		Top		Unit		Screens		Hours			
100 rpm								1				1		Drill Pipe		4.500		3.826		14,943'		0'		Shaker 1		140		0.0			
6 rpm								1				1		Collars		5.250		2.680		132'		14,943'		Shaker 2		140		0.0			
3 rpm								1				1		Collars								15,075'		Shaker 3		140		0.0			
Plastic Viscosity (cp)								@ 120 °F		1		2		Collars								15,075'		Desander							
Yield Point (lb/100 ft²)								T0 = 1		1		1		CASING & HOLE DATA								Desilter									
Gel Strength (lb/100 ft²)								10 sec/10 min		1/1		1/1		Casing		OD (in.)		ID (in.)		Depth		Top		Centrifuge 1		0.0					
Gel Strength (lb/100 ft²)								30 min		1		1		Riser		20				108'				VOLUME ACCOUNTING (bbls)							
API Filtrate / Cake Thickness														Surface		10 3/4		9.950		3,007'		108'		Prev. Total on Location				3211.8			
HTHP Filtrate / Cake Thickness								@ 0 °F						Int. Csg.		7 5/8		6.875		9,774'		108'		Transferred In(+)/Out(-)							
Retort Solids Content								0.5%				0.7%		Washout 1										Oil Added (+)		60.6					
Retort Oil Content								2%				3%		Washout 2										Barite Added (+)		0.0					
Retort Water Content								97.5%				96.3%		Open Hole Size		7.088		15,075'						Other Product Usage (+)		2.9					
Sand Content								0%				0%		ANNULAR GEOMETRY & RHEOLOGY																	
M.B.T. (Methylene Blue Capacity) (ppb)														annular section		meas. depth		velocity ft/min		flow reg		ECD lb/gal		Non-Recoverable Vol. (-)							
pH								7.0				7.0												Left on Cuttings (-)		0.0					
Alkalinity, Mud Pm								0.1				0.1		0x4.5		108'		-454.1		8.60				Lost Returns (-)							
Alkalinities, Filtrate Pf/Mf								0.1/0.2				0.1/0.2		6.875x4.5		9,774'		340.4		turb		9.06		Non-Recoverable Vol. (-)							
Chlorides (mg/L)								4000				1500		7.088x4.5		14,943'		306.6		turb		9.47		Est. Total on Location		3275.4					
Calcium (ppm)								600				280		7.088x5.25		15,075'		405.5		turb		9.76		Est. Losses/Gains (-)/(+)		0.0					
Excess Lime (lb/bbl)																						BIT HYDRAULICS DATA									
Average Specific Gravity of Solids								2.60		2.60		2.60										Bit H.S.I.		Bit ΔP		Nozzles (32nds)					
Percent Low Gravity Solids								0.3%				0.6%										0.30		49 psi		18		18		18	
Percent Drill Solids								0.3%				0.6%										Bit Impact Force		Nozzle Velocity (ft/sec)		18		18		18	
PPA Spurt / Total (ml) @ @ 0 °F														BIT DATA				Manuf./Type				Halliburton/PDC				132 lbs		81			
Estimated Total LCM in System ppb														Size		Depth In		Hours		Footage		ROP ft/hr		Motor/MWD		Calc. Circ. Pressure					
Sample Taken By								N. Dilly				M Washburn		6 3/4		9,790 ft		62.0		5,285 ft		85.2		4,264 psi		5,155 psi					
Remarks/Recommendations:												Rig Activity:																			
Received OBM (Consignment volume): 3153bbls																															
Plan Forward: Drill lateral to TD under mud cap.																															
Received 780bbls of produced brine.												Drill/slide under mud cap with freshwater combined with produced water from 12,545' to 15,075'. Adding 3.5bbls/hr diesel and 1.6gal/hr PHPA to drill water for lubricity. No additional OBM pumped downhole. Drilling ahead at report time. ROP 224 / Torque 13K - 17K / Opsi casing pressure																			
Received 1 load of bulk barite.																															
Mud check derived from drill water in slugging pit.																															
Eng. 1: Mike Washburn				Eng. 2: Nick Dilly				WH 1: MIDLAND				WH 2: WH #2				Rig Phone:				Daily Total				Cumulative Cost							
Phone: 361-945-5777				Phone: 337-207-8848				Phone: 432-686-7361				Phone: -																			
W P Y g G p A S C								Any opinion and or recommendation, expressed orally or written herein, has been prepared carefully and may be used if the user so elects, however, no representation is made as to the validity of this information, and this is a recommendation only.																\$4,097.08				\$83,817.04			
1 1 1 1 1 0 1 0 0																								\$10,931.32				\$148,952.35			

THIRD PARTY COST SHEET

[illegible]

FLUID VOLUME ACCOUNTING

Operator:	MAGNOLIA OIL & GAS
Rig Name:	248
Well Name:	BIGHORN PASS H06 BH

		WEEK 1							WEEK 2							WEEK 3							
		Date	10/9/21	10/10/21	10/11/21	10/12/21	10/13/21	10/14/21	10/15/21	10/16/21	10/17/21	10/18/21	10/19/21	10/20/21	10/21/21	10/22/21	10/23/21	10/24/21	10/25/21	10/26/21	10/27/21	10/28/21	10/29/21
		Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	
Grand Totals	Bit Size	13 1/2	13 1/2	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	
	Starting Depth	-	3,020	3,020	5,946	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	
	Ending Depth	3,020	3,020	5,946	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	
15,075	Footage Drilled	3,020	-	2,926	3,844	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1,414	New Hole Vol.	539	-	277	364	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Starting System Volume		2,140	2,587	2,574	2,377	2,896	444	444	444	444	444	444	444	444	444	444	444	444	444	444	444	
69	Chemical Additions			27	12	3																	
623	Base Fluid Added			205	128	4																	
104	Barite Increase					20																	
5,798	Weighted Mud Added	2,140	447			502																	
-	Slurry Added																						
65	Water Added				65																		
-	Added for Washout																						
6,659	Total Additions	2,140	447	232	205	529	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	Surface Losses																						
262	Formation Loss																						
644	Mud Loss to Cuttings			229	402																		
50	Unrecoverable Volume						50																
66	Centrifuge Losses			16		10	40																
1,022	Total Losses	-	-	245	402	10	90	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2,362	Mud Transferred Out						2,362																
3,275	Ending System Volume	2,140	2,587	2,574	2,377	2,896	444	444	444	444	444	444	444	444	444	444	444	444	444	444	444	444	
-	Mud Recovered																						
3,436	Comments:							Comments:							Comments:								
	10/9/21	Transfer 2,140bls OBM from the HO4 to HO6.							10/16/21							10/23/21							
	10/10/21	Received 447bls of 8.6ppg OBM from mud plant.							10/17/21							10/24/21							
	10/11/21	Lost 229bls to mud on cuttings and 16bls to centrifuge running on active system for 3 hours.							10/18/21							10/25/21							
	10/12/21	Lost 402bls to mud on cuttings.							10/19/21							10/26/21							
	10/13/21	Lost 10bls to centrifuges processing on active system to maintain MW.							10/20/21							10/27/21							
	10/14/21	Lost 40bls to centrifuges while cutting MW back in pits and 50bls to spacer interface dumped during cement job.							10/21/21							10/28/21							
	10/15/21							10/22/21							10/29/21								

11/12/21

110 Old Market St.
St Martinville, LA 70582

Report #11

TEL: (337) 394-1078

OUTSOURCE FLUID SOLUTIONS LLC.

0.5°

500' TVD

Operator MAGNOLIA OIL & GAS							Contractor PATTERSON			County / Parish / Block WASHINGTON			Engineer Start Date 10/08/21			24 hr fig. 777 ft			Drilled Depth 15,852 ft																					
Well Name and No. BIGHORN PASS H06 BH							Rig Name and No. 248			State TEXAS			Spud Date 10/08/21			Current ROP 0 ft/hr			Activity POOH																					
Report for Brandon Parks / Jim Harrison							Report for Tool Pusher			Field / OCS-G # GIDDINGS			Fluid Type WBM			Circulating Rate 0 gpm			Circulating Pressure psi																					
MUD PROPERTY SPECIFICATIONS							MUD VOLUME (BBL)			PUMP #1			PUMP #2			RISER BOOSTER																								
Weight 8.4-9.6		PV 0-10		YP 0-10		GELS <5 <10		pH 8.4-9		API fl <25		% Solids 2-10		In Pits 270 bbl		Liner Size 4.75		Liner Size 4.75		Liner Size																				
														In Hole 736 bbl		Stroke 12		Stroke 12		Stroke																				
						11/12/21						11/11/21		Active 283 bbl		bbl/stk 0.0625		bbl/stk 0.0625		bbl/stk 0.0000																				
														Storage <u>1975 bbl</u>		stk/min 0		stk/min 0		stk/min																				
								PIT				pit		Tot. on Location 2981 bbl		gal/min 0		gal/min 0		gal/min 0																				
Flowline Temperature °F													PHHP = 0 CIRCULATION DATA n = 0.585 K = 26.563																											
Depth (ft)							15,852'				15,852'		Bit Depth = 500 '			Washout = 5%			Pump Efficiency = 95%																					
Mud Weight (ppg)							8.4				8.4		Drill String Disp.		Volume to Bit 6.2 bbl		Strokes To Bit			Time To Bit																				
Funnel Vis (sec/qt) @ 77 °F							27				29				Bottoms Up Vol. 7.2 bbl		BottomsUp Stks			BottomsUp Time																				
600 rpm							3				5		4.6 bbl		Riser Ann. Vol. -2.1 bbl		Riser Strokes			Riser Circ. Time																				
300 rpm							2				3		DRILLING ASSEMBLY DATA						SOLIDS CONTROL																					
200 rpm							1				2		Tubulars OD (in.) ID (in.) Length Top					Unit Screens Hours																						
100 rpm							1				1		Drill Pipe 4.500 3.826 368' 0'					Shaker 1 140 0.0																						
6 rpm							1				1		Collars 5.250 2.680 132' 368'					Shaker 2 140 0.0																						
3 rpm							1				1		Collars 500'					Shaker 3 140 0.0																						
Plastic Viscosity (cp) @ 120 °F							1				2		Collars 500'					Desander																						
Yield Point (lb/100 ft²) T0 = 1							1				1		CASING & HOLE DATA						Desilter																					
Gel Strength (lb/100 ft²) 10 sec/10 min							1/1				1/1		Casing OD (in.) ID (in.) Depth Top					Centrifuge 1 0.0																						
Gel Strength (lb/100 ft²) 30 min							1				1		Riser 20 108'					VOLUME ACCOUNTING (bbls)																						
API Filtrate / Cake Thickness													Surface 10 3/4 9.950 3,007' 108'					Prev. Total on Location 3275.5																						
HTHP Filtrate / Cake Thickness @ 0 °F													Int. Csg. 7 5/8 6.875 9,774' 108'					Transferred In(+)/Out(-)																						
Retort Solids Content							0.5%				0.5%		Washout 1					Oil Added (+) 65.1																						
Retort Oil Content							2%				2%		Washout 2					Barite Added (+) 0.0																						
Retort Water Content							97.5%				97.5%		Open Hole Size 7.088 15,852'					Other Product Usage (+) 0.5																						
Sand Content							0%				0%		ANNULAR GEOMETRY & RHEOLOGY						Water Added (+)																					
M.B.T. (Methylene Blue Capacity) (ppb)													annular section		meas. depth		velocity ft/min		flow reg		ECD lb/gal																			
pH							7.0				7.0		0x4.5 108' 0.0 8.40					Non-Recoverable Vol. (-)																						
Alkalinity, Mud Pm							0.1				0.1		6.875x4.5 368' 0.0 lam 8.40					Est. Total on Location 2980.9																						
Alkalinities, Filtrate Pf/Mf							0.1/0.2				0.1/0.2		6.875x5.25 500' 0.0 lam 8.40					Est. Losses/Gains (-)/(+) 0.0																						
Chlorides (mg/L)							2700				2400								BIT HYDRAULICS DATA																					
Calcium (ppm)							440		400		Bit H.S.I.								Bit ΔP		Nozzles (32nds)																			
Excess Lime (lb/bbl)											0.00								psi		18 18 18																			
Average Specific Gravity of Solids							2.60		2.60		2.60								Bit Impact Force					Nozzle Velocity (ft/sec)		18 18 18														
Percent Low Gravity Solids							0.4%				0.4%								0 lbs					0																
Percent Drill Solids							0.4%				0.4%																													
PPA Spurt / Total (ml) @ @ 0 °F													BIT DATA			Manuf./Type Halliburton/PDC			0 lbs			0																		
Estimated Total LCM in System ppb													Size		Depth In		Hours		Footage		ROP ft/hr		Motor/MWD		Calc. Circ. Pressure															
Sample Taken By							N. Dilly				M Washburn		6 3/4		9,790 ft		70.0		6,062 ft		86.6																			
Remarks/Recommendations: Received OBM (Consignment volume): 3153bbls Plan Forward: Troubleshoot BHA. TIH. Drill lateral to TD under mud cap. Received 1064bbls of produced brine. Received 900gal mud diesel. Mud check derived from drill water in slugging pit.										Rig Activity: Drill 6-3/4" hole to 15,852' with freshwater/produced brine mixture treated with PHPA and diesel.. Experienced high pump pressure and torque. Circulate for 3 hours to clean hole by transporting cuttings into fracture. Back ream to 13,517'. POOH wet filling calculated pipe displacement volume down annulus with high water % 9.1ppg OBM. Pumped 30bbls 17.0ppg kill mud at 9,735' (shoe) and 50bbls 17.0ppg kill mud at 3,014' (agitator). Continue POOH to 573' when casing pressure increased to 288psi. Pumped 76bbls of 17.0ppg kill mud and flow check. Begin laying down BHA at report time.																														
Eng. 1: Mike Washburn Phone: 361-945-5777							Eng. 2: Nick Dilly Phone: 337-207-8848							WH 1: MIDLAND Phone: 432-686-7361							WH 2: WH #2 Phone: -							Rig Phone:							Daily Total			Cumulative Cost		
W P Y g G p A S C 1 1 1 1 1 0 1 0 0							Any opinion and or recommendation, expressed orally or written herein, has been prepared carefully and may be used if the user so elects, however, no representation is made as to the validity of this information, and this is a recommendation only.														\$5,589.94							\$89,406.98												
										INCLUDING 3RD PARTY CHARGES														\$12,867.70							\$161,820.05									

THIRD PARTY COST SHEET

[illegible]

OUTSOURCE FLUID SOLUTIONS LLC.

FLUID VOLUME ACCOUNTING

Operator:	MAGNOLIA OIL & GAS
Rig Name:	248
Well Name:	BIGHORN PASS H06 BH

		WEEK 1								WEEK 2								WEEK 3							
		Date	10/9/21	10/10/21	10/11/21	10/12/21	10/13/21	10/14/21	10/15/21	10/16/21	10/17/21	10/18/21	10/19/21	10/20/21	10/21/21	10/22/21	10/23/21	10/24/21	10/25/21	10/26/21	10/27/21	10/28/21	10/29/21		
		Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri			
Grand Totals	Bit Size	13 1/2	13 1/2	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8			
	Starting Depth	-	3,020	3,020	5,946	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790				
	Ending Depth	3,020	3,020	5,946	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790				
15,852	Footage Drilled	3,020	-	2,926	3,844	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
1,448	New Hole Vol.	539	-	277	364	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
	Starting System Volume		2,140	2,587	2,574	2,377	2,896	444	444	444	444	444	444	444	444	444	444	444	444	444	444				
70	Chemical Additions			27	12	3																			
688	Base Fluid Added			205	128	4																			
104	Barite Increase					20																			
5,798	Weighted Mud Added	2,140	447			502																			
-	Slurry Added																								
65	Water Added				65																				
-	Added for Washout																								
6,725	Total Additions	2,140	447	232	205	529	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
-	Surface Losses																								
622	Formation Loss																								
644	Mud Loss to Cuttings			229	402																				
50	Unrecoverable Volume							50																	
66	Centrifuge Losses			16		10	40																		
1,382	Total Losses	-	-	245	402	10	90	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
2,362	Mud Transferred Out						2,362																		
2,981	Ending System Volume	2,140	2,587	2,574	2,377	2,896	444	444	444	444	444	444	444	444	444	444	444	444	444	444	444				
-	Mud Recovered																								
3,436	Comments:								Comments:								Comments:								
	10/9/21 Transfer 2,140bls OBM from the HO4 to HO6.								10/16/21								10/23/21								
	10/10/21 Received 447bls of 8.6ppg OBM from mud plant.								10/17/21								10/24/21								
	10/11/21 Lost 229bls to mud on cuttings and 16bls to centrifuge running on active system for 3 hours.								10/18/21								10/25/21								
	10/12/21 Lost 402bls to mud on cuttings.								10/19/21								10/26/21								
	10/13/21 Lost 10bls to centrifuges processing on active system to maintain MW.								10/20/21								10/27/21								
	10/14/21 Lost 40bls to centrifuges while cutting MW back in pits and 50bls to spacer interface dumped during cement job.								10/21/21								10/28/21								
	10/15/21								10/22/21								10/29/21								

11/13/21

110 Old Market St.
St Martinville, LA 70582

Report #12

TEL: (337) 394-1078

OUTSOURCE FLUID SOLUTIONS LLC.

0.0°

0' TVD

Operator MAGNOLIA OIL & GAS							Contractor PATTERSON			County / Parish / Block WASHINGTON			Engineer Start Date 10/08/21		24 hr fig. 5 ft		Drilled Depth 14,905 ft																							
Well Name and No. BIGHORN PASS H06 BH							Rig Name and No. 248			State TEXAS			Spud Date 10/08/21		Current ROP 1 ft/hr		Activity Drilling																							
Report for Brandon Parks / Jim Harrison							Report for Tool Pusher			Field / OCS-G # GIDDINGS			Fluid Type WBM		Circulating Rate 1629 gpm		Circulating Pressure 3,820 psi																							
MUD PROPERTY SPECIFICATIONS							MUD VOLUME (BBL)			PUMP #1			PUMP #2			RISER BOOSTER																								
Weight 8.4-9.6		PV 0-10		YP 0-10		GELS <5 <10		pH 8.4-9		API fl <25		% Solids 2-10		In Pits 270 bbl In Hole 0 bbl Active 270 bbl Storage <u>2000 bbl</u> Tot. on Location 2270 bbl		Liner Size 4.75 Stroke 12 bbl/stk 0.0625 stk/min 566 gal/min 1485		Liner Size 4.75 Stroke 12 bbl/stk 0.0625 stk/min 55 gal/min 144		Liner Size Stroke bbl/stk 0.0000 stk/min gal/min 0																				
							11/12/21				11/12/21																													
Time Sample Taken							0:30				14:00																													
Sample Location							pit				pit																													
Flowline Temperature °F													PHHP = 3631 CIRCULATION DATA n = 0.585 K = 26.563																											
Depth (ft)							14,905'				14,900'						Washout = 5%		Pump Efficiency = 95%																					
Mud Weight (ppg)							8.4				8.4		Drill String Disp.		Volume to Bit 0.0 bbl Bottoms Up Vol. 0.0 bbl Riser Ann. Vol. 0.0 bbl		Strokes To Bit 0 BottomsUp Stks 0 Riser Strokes 0		Time To Bit 0 min BottomsUp Time 0 min Riser Circ. Time 0 min																					
600 rpm							3				5		0.0 bbl		Riser Ann. Vol. 0.0 bbl		Riser Strokes 0		Riser Circ. Time 0 min																					
300 rpm							2				3		DRILLING ASSEMBLY DATA							SOLIDS CONTROL																				
200 rpm							1				2		Tubulars OD (in.) ID (in.) Length Top					Unit Screens Hours																						
100 rpm							1				1		Drill Pipe 4.500 0' 0'					Shaker 1 140 0.0																						
6 rpm							1				1		Collars 5.250 0'					Shaker 2 140 0.0																						
3 rpm							1				1		Collars 0'					Shaker 3 140 0.0																						
Plastic Viscosity (cp) @ 120 °F							1				2		Collars 0'					Desander																						
Yield Point (lb/100 ft²) T0 = 1							1				1		CASING & HOLE DATA																											
Gel Strength (lb/100 ft²) 10 sec/10 min							1/1				1/1		Casing OD (in.) ID (in.) Depth Top					Centrifuge 1 0.0																						
Gel Strength (lb/100 ft²) 30 min							1				1		Riser 20 108'					Desilter																						
API Filtrate / Cake Thickness													Surface 10 3/4 3,007' 108'					VOLUME ACCOUNTING (bbls)																						
HTHP Filtrate / Cake Thickness @ 0 °F													Int. Csg. 7 5/8 9,774' 108'					Prev. Total on Location 2980.8																						
Retort Solids Content							0.6%				0.5%		Washout 1					Transferred In(+)/Out(-)																						
Retort Oil Content							2%				2%		Washout 2					Oil Added (+) 41.6																						
Retort Water Content							97.4%				97.5%		Open Hole Size 0.000 14,905'					Barite Added (+) 8.0																						
Sand Content							0%				0%		ANNULAR GEOMETRY & RHEOLOGY										Other Product Usage (+) 0.5																	
M.B.T. (Methylene Blue Capacity) (ppb)													annular section		meas. depth		velocity ft/min		flow reg		ECD lb/gal		Water Added (+)																	
pH							7.0				7.0												Left on Cuttings (-) 0.0																	
Alkalinity, Mud Pm							0.1				0.1												Lost Returns (-) -760.9																	
Alkalinities, Filtrate Pf/Mf							0.1/0.2				0.1/0.2												Non-Recoverable Vol. (-)																	
Chlorides (mg/L)							1200				2600												Est. Total on Location 2270.0																	
Calcium (ppm)							320				400												Est. Losses/Gains (-)/(+) 0.0																	
Excess Lime (lb/bbl)																							BIT HYDRAULICS DATA																	
Average Specific Gravity of Solids							2.60		2.60		2.60												Bit H.S.I.		Bit ΔP		Nozzles (32nds)													
Percent Low Gravity Solids							0.5%				0.4%												924 psi				18		18		18									
Percent Drill Solids							0.5%				0.4%												Bit Impact Force		Nozzle Velocity (ft/sec)															
PPA Spurt / Total (ml) @ @ 0 °F													BIT DATA			Manuf./Type SECURITY / PDC			2485 lbs		351																			
Estimated Total LCM in System ppb													Size		Depth In		Hours		Footage		ROP ft/hr		Motor/MWD		Calc. Circ. Pressure															
Sample Taken By							N. Dilly				M Washburn				14,870 ft		8.0		5 ft		0.6		2,797 psi		3,820 psi															
Remarks/Recommendations: Received OBM (Consignment volume): 3259bbls Plan Forward: Establish ST and drill lateral to TD. Received 655bbls of produced brine. Received 106bbls 17.5ppg OBM from mud plant. Mud check derived from drill water in slugging pit.										Rig Activity: Trip in hole with BHA #4 to 10,514'. Casing pressure increased to 390psi. Pumped 75bbls 17.0# kill mud down annulus to kill well. Wash/Ream to 11,050'. Strip in hole to 13,098'. Wash/Ream to 14,911'. Pull back to 14,900' and begin time drilling 1'/hr for sidetrack kick-off. Drilling with fresh water/produced brine treated with 1.6gal/hr PHPA and 3.5bbls/hr diesel. Charged off all OBM volume in hole due to no returns while cap drilling.																														
Eng. 1: Mike Washburn Phone: 361-945-5777							Eng. 2: Nick Dilly Phone: 337-207-8848							WH 1: MIDLAND Phone: 432-686-7361							WH 2: WH #2 Phone: -							Rig Phone:							Daily Total			Cumulative Cost		
W P Y g G p A S C 1 1 1 1 1 0 1 0 0							Any opinion and or recommendation, expressed orally or written herein, has been prepared carefully and may be used if the user so elects, however, no representation is made as to the validity of this information, and this is a recommendation only.														\$64,419.99							\$153,826.97												
														INCLUDING 3RD PARTY CHARGES							\$69,069.67							\$230,889.72												

THIRD PARTY COST SHEET

[illegible]

OUTSOURCE FLUID SOLUTIONS LLC.

FLUID VOLUME ACCOUNTING

Operator:	MAGNOLIA OIL & GAS
Rig Name:	248
Well Name:	BIGHORN PASS H06 BH

		WEEK 1							WEEK 2							WEEK 3							
		Date	10/9/21	10/10/21	10/11/21	10/12/21	10/13/21	10/14/21	10/15/21	10/16/21	10/17/21	10/18/21	10/19/21	10/20/21	10/21/21	10/22/21	10/23/21	10/24/21	10/25/21	10/26/21	10/27/21	10/28/21	10/29/21
		Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	
Grand Totals	Bit Size	13 1/2	13 1/2	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	
	Starting Depth	-	3,020	3,020	5,946	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790		
	Ending Depth	3,020	3,020	5,946	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790		
15,852	Footage Drilled	3,020	-	2,926	3,844	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
1,448	New Hole Vol.	539	-	277	364	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	Starting System Volume		2,140	2,587	2,574	2,377	2,896	444	444	444	444	444	444	444	444	444	444	444	444	444	444		
70	Chemical Additions			27	12	3																	
730	Base Fluid Added			205	128	4																	
112	Barite Increase					20																	
5,798	Weighted Mud Added	2,140	447			502																	
-	Slurry Added																						
65	Water Added				65																		
-	Added for Washout																						
6,775	Total Additions	2,140	447	232	205	529	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
-	Surface Losses																						
1,383	Formation Loss																						
644	Mud Loss to Cuttings			229	402																		
50	Unrecoverable Volume							50															
66	Centrifuge Losses			16		10	40																
2,143	Total Losses	-	-	245	402	10	90	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
2,362	Mud Transferred Out						2,362																
2,270	Ending System Volume	2,140	2,587	2,574	2,377	2,896	444	444	444	444	444	444	444	444	444	444	444	444	444	444	444		
-	Mud Recovered																						
3,436	Comments:							Comments:							Comments:								
	10/9/21	Transfer 2,140bls OBM from the HO4 to HO6.							10/16/21							10/23/21							
	10/10/21	Received 447bls of 8.6ppg OBM from mud plant.							10/17/21							10/24/21							
	10/11/21	Lost 229bls to mud on cuttings and 16bls to centrifuge running on active system for 3 hours.							10/18/21							10/25/21							
	10/12/21	Lost 402bls to mud on cuttings.							10/19/21							10/26/21							
	10/13/21	Lost 10bls to centrifuges processing on active system to maintain MW.							10/20/21							10/27/21							
	10/14/21	Lost 40bls to centrifuges while cutting MW back in pits and 50bls to spacer interface dumped during cement job.							10/21/21							10/28/21							
	10/15/21							10/22/21							10/29/21								

11/14/21

110 Old Market St.
St Martinville, LA 70582

Report #13

TEL: (337) 394-1078

OUTSOURCE FLUID SOLUTIONS LLC.

0.0°

0' TVD

Operator MAGNOLIA OIL & GAS							Contractor PATTERSON			County / Parish / Block WASHINGTON			Engineer Start Date 10/08/21		24 hr fig. 2 ft		Drilled Depth 14,907 ft																							
Well Name and No. BIGHORN PASS H06 BH							Rig Name and No. 248			State TEXAS			Spud Date 10/08/21		Current ROP 1 ft/hr		Activity Time Drl																							
Report for Brandon Parks / Jim Harrison							Report for Tool Pusher			Field / OCS-G # GIDDINGS			Fluid Type WBM		Circulating Rate 294 gpm		Circulating Pressure 3,537 psi																							
MUD PROPERTY SPECIFICATIONS							MUD VOLUME (BBL)			PUMP #1			PUMP #2			RISER BOOSTER																								
Weight 8.4-9.6		PV 0-10		YP 0-10		GELS <5 <10		pH 8.4-9		API fl <25		% Solids 2-10		In Pits 230 bbl In Hole 0 bbl Active 230 bbl Storage <u>1676 bbl</u> Tot. on Location 1906 bbl		Liner Size 4.75 Stroke 12 bbl/stk 0.0625 stk/min 57 gal/min 150		Liner Size 4.75 Stroke 12 bbl/stk 0.0625 stk/min 55 gal/min 144		Liner Size Stroke bbl/stk 0.0000 stk/min gal/min 0																				
11/14/21							11/13/21																																	
Time Sample Taken							0:30		14:00																															
Sample Location							pit		pit																															
Flowline Temperature °F							PHHP = 606 CIRCULATION DATA n = 0.585 K = 26.563																																	
Depth (ft)							14,906'		14,906'		Bit Depth = '				Washout = 5%			Pump Efficiency = 95%																						
Mud Weight (ppg)							8.4		8.4		Drill String Disp.		Volume to Bit 0.0 bbl		Strokes To Bit 0		Time To Bit 0 min																							
Funnel Vis (sec/qt) @ 68 °F							27		28		Bottoms Up Vol. 0.0 bbl		BottomsUp Stks 0		BottomsUp Time 0 min																									
600 rpm							3		3		0.0 bbl		Riser Ann. Vol. 0.0 bbl		Riser Strokes 0		Riser Circ. Time 0 min																							
300 rpm							2		2		DRILLING ASSEMBLY DATA							SOLIDS CONTROL																						
200 rpm							1		2		Tubulars OD (in.) ID (in.) Length Top					Unit Screens Hours																								
100 rpm							1		1		Drill Pipe 4.500 0' 0'					Shaker 1 140 0.0																								
6 rpm							1		1		Collars 5.250 0'					Shaker 2 140 0.0																								
3 rpm							1		1		Collars 0'					Shaker 3 140 0.0																								
Plastic Viscosity (cp) @ 120 °F							1		1		Collars 0'					Desander																								
Yield Point (lb/100 ft²) T0 = 1							1		1		CASING & HOLE DATA										Desilter																			
Gel Strength (lb/100 ft²) 10 sec/10 min							1/1		1/1		Casing OD (in.) ID (in.) Depth Top					Centrifuge 1 0.0																								
Gel Strength (lb/100 ft²) 30 min							1		1		Riser 20 108'					VOLUME ACCOUNTING (bbls)																								
API Filtrate / Cake Thickness											Surface 10 3/4 3,007' 108'					Prev. Total on Location 2270.0																								
HTHP Filtrate / Cake Thickness @ 0 °F											Int. Csg. 7 5/8 9,774' 108'					Transferred In(+)/Out(-) 103.0																								
Retort Solids Content							0.6%		0.6%		Washout 1					Oil Added (+) 23.7																								
Retort Oil Content							2%		2%		Washout 2					Barite Added (+) 27.8																								
Retort Water Content							97.4%		97.4%		Open Hole Size 0.000 14,907'					Other Product Usage (+) 0.1																								
Sand Content							0%		0%		ANNULAR GEOMETRY & RHEOLOGY										Water Added (+)																			
M.B.T. (Methylene Blue Capacity) (ppb)											annular section		meas. depth		velocity ft/min		flow reg		ECD lb/gal		Left on Cuttings (-) 0.0																			
pH							7.0		7.0															Lost Returns (-) -518.7																
Alkalinity, Mud Pm							0.1		0.1															Non-Recoverable Vol. (-)																
Alkalinities, Filtrate Pf/Mf							0.1/0.2		0.1/0.2															Est. Total on Location 1906.0																
Chlorides (mg/L)							1400		1600															Est. Losses/Gains (-)/(+) 0.0																
Calcium (ppm)							340		400															BIT HYDRAULICS DATA																
Excess Lime (lb/bbl)																								Bit H.S.I.		Bit ΔP		Nozzles (32nds)												
Average Specific Gravity of Solids							2.60		2.60															30 psi		18		18		18										
Percent Low Gravity Solids							0.5%		0.5%															Bit Impact Force		Nozzle Velocity (ft/sec)		18		18		18								
Percent Drill Solids							0.5%		0.5%															81 lbs		63														
PPA Spurt / Total (ml) @ @ 0 °F											BIT DATA			Manuf./Type			SECURITY / PDC			81 lbs		63																		
Estimated Total LCM in System ppb											Size		Depth In		Hours		Footage		ROP ft/hr		Motor/MWD		Calc. Circ. Pressure																	
Sample Taken By							N. Dilly		M Washburn		14,906 ft		1.0		1 ft		1.0		3,502 psi		3,537 psi																			
Remarks/Recommendations: Received OBM (Consignment volume): 3362bbls Plan Forward: Establish ST and drill lateral to TD. Received Obls of produced brine. Received 103bbls 17.5ppg OBM from mud plant. Mud check derived from drill water in slugging pit.										Rig Activity: Time drill 1'/hr to 14,906'. SPP spiked to 6,700psi, unable to pump down drill string. Strip out of hole filling with 10.0ppg OBM to 9,765'. Pump 30bbls 17.0ppg kill mud on backside. Continue stripping out of hole to 2,994' filling hole with 12.0ppg OBM. Pump 50bbls 17.0ppg OBM down backside. TOOHO conventional to BHA filling with 12.0ppg OBM. Lay down BHA and pick up new bit/motor. TIH to 12,840'. Wash/Ream to 13,810'. Strip in hole to 14,890'. Wash/Ream to 14,906. Pump 50bbls 17.0ppg kill mud due to 600psi on casing. Time drilling 1'/hr to finish kicking off for side track at report time. Drilling with fresh water treated with 1.6gal/hr PHPA and 3.5bbls/hr diesel.																														
Eng. 1: Mike Washburn Phone: 361-945-5777							Eng. 2: Nick Dilly Phone: 337-207-8848							WH 1: MIDLAND Phone: 432-686-7361							WH 2: WH #2 Phone: -							Rig Phone:							Daily Total			Cumulative Cost		
W P Y g G p A S C 1 1 1 1 1 0 1 0 0							Any opinion and or recommendation, expressed orally or written herein, has been prepared carefully and may be used if the user so elects, however, no representation is made as to the validity of this information, and this is a recommendation only.																		\$41,381.36			\$195,208.33												
										INCLUDING 3RD PARTY CHARGES																		\$44,030.72			\$274,920.44									

THIRD PARTY COST SHEET

[illegible]

OUTSOURCE FLUID SOLUTIONS LLC.

FLUID VOLUME ACCOUNTING

Operator:	MAGNOLIA OIL & GAS
Rig Name:	248
Well Name:	BIGHORN PASS H06 BH

		WEEK 1								WEEK 2								WEEK 3							
		Date	10/9/21	10/10/21	10/11/21	10/12/21	10/13/21	10/14/21	10/15/21	10/16/21	10/17/21	10/18/21	10/19/21	10/20/21	10/21/21	10/22/21	10/23/21	10/24/21	10/25/21	10/26/21	10/27/21	10/28/21	10/29/21		
		Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri			
Bit Size		13 1/2	13 1/2	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8			
Grand Totals	Starting Depth	-	3,020	3,020	5,946	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790			
	Ending Depth	3,020	3,020	5,946	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790			
15,854	Footage Drilled	3,020	-	2,926	3,844	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
1,448	New Hole Vol.	539	-	277	364	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
	Starting System Volume		2,140	2,587	2,574	2,377	2,896	444	444	444	444	444	444	444	444	444	444	444	444	444	444	444			
70	Chemical Additions			27	12	3																			
754	Base Fluid Added			205	128	4																			
140	Barite Increase					20																			
5,901	Weighted Mud Added	2,140	447			502																			
-	Slurry Added																								
65	Water Added				65																				
-	Added for Washout																								
6,930	Total Additions	2,140	447	232	205	529	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
-	Surface Losses																								
1,902	Formation Loss																								
644	Mud Loss to Cuttings			229	402																				
50	Unrecoverable Volume						50																		
66	Centrifuge Losses			16		10	40																		
2,662	Total Losses	-	-	245	402	10	90	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
2,362	Mud Transferred Out						2,362																		
1,906	Ending System Volume	2,140	2,587	2,574	2,377	2,896	444	444	444	444	444	444	444	444	444	444	444	444	444	444	444	444			
-	Mud Recovered																								
3,539		Comments:								Comments:								Comments:							
		10/9/21 Transfer 2,140bls OBM from the HO4 to HO6.								10/16/21								10/23/21							
		10/10/21 Received 447bls of 8.6ppg OBM from mud plant.								10/17/21								10/24/21							
		10/11/21 Lost 229bls to mud on cuttings and 16bls to centrifuge running on active system for 3 hours.								10/18/21								10/25/21							
		10/12/21 Lost 402bls to mud on cuttings.								10/19/21								10/26/21							
		10/13/21 Lost 10bls to centrifuges processing on active system to maintain MW.								10/20/21								10/27/21							
		10/14/21 Lost 40bls to centrifuges while cutting MW back in pits and 50bls to spacer interface dumped during cement job.								10/21/21								10/28/21							
		10/15/21								10/22/21								10/29/21							

11/15/21

110 Old Market St.
St Martinville, LA 70582

Report #14

TEL: (337) 394-1078

OUTSOURCE FLUID SOLUTIONS LLC.

0.0°

0' TVD

Operator MAGNOLIA OIL & GAS							Contractor PATTERSON			County / Parish / Block WASHINGTON			Engineer Start Date 10/08/21			24 hr fig. 760 ft			Drilled Depth 15,667 ft																					
Well Name and No. BIGHORN PASS H06 BH							Rig Name and No. 248			State TEXAS			Spud Date 10/08/21			Current ROP 100 ft/hr			Activity DRL																					
Report for Brandon Parks / Jim Harrison							Report for Tool Pusher			Field / OCS-G # GIDDINGS			Fluid Type WBM			Circulating Rate 367 gpm			Circulating Pressure 4,995 psi																					
MUD PROPERTY SPECIFICATIONS							MUD VOLUME (BBL)			PUMP #1			PUMP #2			RISER BOOSTER																								
Weight 8.4-9.6		PV 0-10		YP 0-10		GELS <5 <10		pH 8.4-9		API fl <25		% Solids 2-10		In Pits 220 bbl In Hole 0 bbl Active 220 bbl Storage <u>1874 bbl</u> Tot. on Location 2094 bbl		Liner Size 4.75 Stroke 12 bbl/stk 0.0625 stk/min 70 gal/min 184		Liner Size 4.75 Stroke 12 bbl/stk 0.0625 stk/min 70 gal/min 184		Liner Size Stroke bbl/stk 0.0000 stk/min gal/min 0																				
						11/15/21						11/14/21																												
Time Sample Taken							0:30						14:00																											
Sample Location							pit						pit																											
Flowline Temperature °F													PHHP = 1070 CIRCULATION DATA n = 0.585 K = 26.563																											
Depth (ft)							15,667'				15,069'					Washout = 5%			Pump Efficiency = 95%																					
Mud Weight (ppg)							8.4				8.4		Drill String Disp.		Volume to Bit 0.0 bbl Bottoms Up Vol. 0.0 bbl Riser Ann. Vol. 0.0 bbl		Strokes To Bit 0 BottomsUp Stks 0 Riser Strokes 0		Time To Bit 0 min BottomsUp Time 0 min Riser Circ. Time 0 min																					
Funnel Vis (sec/qt) @ 79 °F							27				28		0.0 bbl																											
600 rpm							3				3																													
300 rpm							2				2		DRILLING ASSEMBLY DATA						SOLIDS CONTROL																					
200 rpm							1				2		Tubulars OD (in.) ID (in.) Length Top					Unit Screens Hours																						
100 rpm							1				1		Drill Pipe 4.500 0' 0'					Shaker 1 140 0.0																						
6 rpm							1				1		Collars 5.250 0'					Shaker 2 140 0.0																						
3 rpm							1				1		Collars 0'					Shaker 3 140 0.0																						
Plastic Viscosity (cp) @ 120 °F							1				1		Collars 0'					Desander																						
Yield Point (lb/100 ft²) T0 = 1							1				1							Desilter																						
Gel Strength (lb/100 ft²) 10 sec/10 min							1/1				1/1		Casing OD (in.) ID (in.) Depth Top					Centrifuge 1 0.0																						
Gel Strength (lb/100 ft²) 30 min							1				1		Riser 20 108'					VOLUME ACCOUNTING (bbls)																						
API Filtrate / Cake Thickness													Surface 10 3/4 3,007' 108'					Prev. Total on Location 1906.0																						
HTHP Filtrate / Cake Thickness @ 0 °F													Int. Csg. 7 5/8 9,774' 108'					Transferred In(+)/Out(-) 252.0																						
Retort Solids Content							0.6%				0.6%		Washout 1					Oil Added (+) 104.8																						
Retort Oil Content							2%				2%		Washout 2					Barite Added (+) 24.4																						
Retort Water Content							97.4%				97.4%		Open Hole Size 0.000 15,667'					Other Product Usage (+) 0.6																						
Sand Content							0%				0%		ANNULAR GEOMETRY & RHEOLOGY					Water Added (+)																						
M.B.T. (Methylene Blue Capacity) (ppb)													annular section		meas. depth		velocity ft/min		flow reg		ECD lb/gal																			
pH							7.0				7.0							Left on Cuttings (-) 0.0																						
Alkalinity, Mud Pm							0.1				0.1							Lost Returns (-) -193.7																						
Alkalinities, Filtrate Pf/Mf							0.1/0.2				0.1/0.2							Non-Recoverable Vol. (-)																						
Chlorides (mg/L)							1500				1600							Est. Total on Location 2094.0																						
Calcium (ppm)							320				400							Est. Losses/Gains (-)/(+) 0.0																						
Excess Lime (lb/bbl)																		BIT HYDRAULICS DATA																						
Average Specific Gravity of Solids							2.60		2.60		2.60							Bit H.S.I.		Bit ΔP		Nozzles (32nds)																		
Percent Low Gravity Solids							0.5%				0.5%									47 psi		18 18 18																		
Percent Drill Solids							0.5%				0.5%							Bit Impact Force		Nozzle Velocity (ft/sec)		18 18 18																		
PPA Spurt / Total (ml) @ @ 0 °F													BIT DATA			Manuf./Type SECURITY / PDC			126 lbs		79																			
Estimated Total LCM in System ppb													Size		Depth In		Hours		Footage		ROP ft/hr		Motor/MWD		Calc. Circ. Pressure															
Sample Taken By							N. Dilly				M Washburn				14,906 ft		22.0		761 ft		34.6		4,941 psi		4,995 psi															
Remarks/Recommendations: Received OBM (Consignment volume): 3614bls Plan Forward: Drill lateral to TD. Received Obls of produced brine. Received 252bls 17.0ppg OBM from mud plant. Mud check derived from drill water in slugging pit.										Rig Activity: Time drill 2.5'/hr to 14,916'. Work pipe in/out of sidetrack and pump 20bls 17.0ppg kill mud down backside. Continue to time drill 5'/hr to 14,930' and 8'/hr down to 14,938'. Drill ahead with fresh water treated with 1.6gal/hr PHPA and 3.5bbls/hr diesel down to 15,667'. Spot 44bls of 17.0ppg kill mud due to casing pressure spike to 500psi. Servicing top drive and ST80 at report time. Torque 17-21K. ROP +/- 100'/hr. MWD Temp 142 F. Weighed up 400bbls of 10.0ppg reserve OBM to 12.0ppg in preparation for trip at TD.																														
Eng. 1: Mike Washburn Phone: 361-945-5777							Eng. 2: Nick Dilly Phone: 337-207-8848							WH 1: MIDLAND Phone: 432-686-7361							WH 2: WH #2 Phone: -							Rig Phone:							Daily Total			Cumulative Cost		
W P Y g G p A S C 1 1 1 1 1 0 1 0 0							Any opinion and or recommendation, expressed orally or written herein, has been prepared carefully and may be used if the user so elects, however, no representation is made as to the validity of this information, and this is a recommendation only.														\$10,913.30							\$206,121.63												
														INCLUDING 3RD PARTY CHARGES							\$22,841.94							\$297,762.38												

THIRD PARTY COST SHEET

[illegible]

OUTSOURCE FLUID SOLUTIONS LLC.

FLUID VOLUME ACCOUNTING

Operator:	MAGNOLIA OIL & GAS
Rig Name:	248
Well Name:	BIGHORN PASS H06 BH

		WEEK 1								WEEK 2								WEEK 3							
		Date	10/9/21	10/10/21	10/11/21	10/12/21	10/13/21	10/14/21	10/15/21	10/16/21	10/17/21	10/18/21	10/19/21	10/20/21	10/21/21	10/22/21	10/23/21	10/24/21	10/25/21	10/26/21	10/27/21	10/28/21	10/29/21		
		Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri			
Grand Totals	Bit Size	13 1/2	13 1/2	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8			
	Starting Depth	-	3,020	3,020	5,946	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790				
	Ending Depth	3,020	3,020	5,946	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790				
	Footage Drilled	3,020	-	2,926	3,844	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
16,614	New Hole Vol.	539	-	277	364	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
1,482	Starting System Volume		2,140	2,587	2,574	2,377	2,896	444	444	444	444	444	444	444	444	444	444	444	444	444	444				
71	Chemical Additions			27	12	3																			
859	Base Fluid Added			205	128	4																			
164	Barite Increase					20																			
6,153	Weighted Mud Added	2,140	447			502																			
-	Slurry Added																								
65	Water Added				65																				
-	Added for Washout																								
7,312	Total Additions	2,140	447	232	205	529	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
-	Surface Losses																								
2,096	Formation Loss																								
644	Mud Loss to Cuttings			229	402																				
50	Unrecoverable Volume							50																	
66	Centrifuge Losses			16		10	40																		
2,856	Total Losses	-	-	245	402	10	90	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
2,362	Mud Transferred Out						2,362																		
2,094	Ending System Volume	2,140	2,587	2,574	2,377	2,896	444	444	444	444	444	444	444	444	444	444	444	444	444	444	444				
-	Mud Recovered																								
3,791	Comments:								Comments:								Comments:								
	10/9/21 Transfer 2,140bls OBM from the HO4 to HO6.								10/16/21								10/23/21								
	10/10/21 Received 447bls of 8.6ppg OBM from mud plant.								10/17/21								10/24/21								
	10/11/21 Lost 229bls to mud on cuttings and 16bls to centrifuge running on active system for 3 hours.								10/18/21								10/25/21								
	10/12/21 Lost 402bls to mud on cuttings.								10/19/21								10/26/21								
	10/13/21 Lost 10bls to centrifuges processing on active system to maintain MW.								10/20/21								10/27/21								
	10/14/21 Lost 40bls to centrifuges while cutting MW back in pits and 50bls to spacer interface dumped during cement job.								10/21/21								10/28/21								
10/15/21								10/22/21								10/29/21									

11/16/21

110 Old Market St.
St Martinville, LA 70582

Report #15

TEL: (337) 394-1078

OUTSOURCE FLUID SOLUTIONS LLC.

0.0°

0' TVD

Operator MAGNOLIA OIL & GAS							Contractor PATTERSON			County / Parish / Block WASHINGTON			Engineer Start Date 10/08/21		24 hr fig. 793 ft		Drilled Depth 16,460 ft										
Well Name and No. BIGHORN PASS H06 BH							Rig Name and No. 248			State TEXAS			Spud Date 10/08/21		Current ROP 0 ft/hr		Activity POOH										
Report for Brandon Parks / Jim Harrison							Report for Tool Pusher			Field / OCS-G # GIDDINGS			Fluid Type WBM		Circulating Rate 0 gpm		Circulating Pressure psi										
MUD PROPERTY SPECIFICATIONS							MUD VOLUME (BBL)			PUMP #1			PUMP #2			RISER BOOSTER											
Weight 8.4-9.6		PV 0-10		YP 0-10		GELS <5 <10		pH 8.4-9		API fl <25		% Solids 2-10		In Pits 280 bbl In Hole 0 bbl Active 280 bbl Storage <u>1798 bbl</u> Tot. on Location 2078 bbl		Liner Size 4.75 Stroke 12 bbl/stk 0.0625 stk/min 0 gal/min 0		Liner Size 4.75 Stroke 12 bbl/stk 0.0625 stk/min 0 gal/min 0		Liner Size Stroke bbl/stk 0.0000 stk/min gal/min 0							
11/16/21							11/15/21																				
Time Sample Taken							0:30		15:00																		
Sample Location							pit		pit																		
Flowline Temperature °F							PHHP = 0 CIRCULATION DATA n = 0.585 K = 26.563																				
Depth (ft)							16,460'		16,460'		Bit Depth = '				Washout = 5%			Pump Efficiency = 95%									
Mud Weight (ppg)							8.4		8.4		Drill String Disp.		Volume to Bit 0.0 bbl		Strokes To Bit			Time To Bit									
Funnel Vis (sec/qt) @ 78 °F							28		28		Bottoms Up Vol. 0.0 bbl		BottomsUp Stks			BottomsUp Time											
600 rpm							3		3		0.0 bbl		Riser Ann. Vol. 0.0 bbl		Riser Strokes			Riser Circ. Time									
300 rpm							2		2		DRILLING ASSEMBLY DATA							SOLIDS CONTROL									
200 rpm							1		2		Tubulars OD (in.) ID (in.) Length Top					Unit Screens Hours											
100 rpm							1		1		Drill Pipe 4.500 0' 0'					Shaker 1 140 0.0											
6 rpm							1		1		Collars 5.250 0'					Shaker 2 140 0.0											
3 rpm							1		1		Collars 0'					Shaker 3 140 0.0											
Plastic Viscosity (cp) @ 120 °F							1		1		Collars 0'					Desander											
Yield Point (lb/100 ft²) T0 = 1							1		1		CASING & HOLE DATA										Desilter						
Gel Strength (lb/100 ft²) 10 sec/10 min							1/1		1/1		Casing OD (in.) ID (in.) Depth Top					Centrifuge 1											
Gel Strength (lb/100 ft²) 30 min							1		1		Riser 20 108'					VOLUME ACCOUNTING (bbls)											
API Filtrate / Cake Thickness											Surface 10 3/4 3,007' 108'					Prev. Total on Location 2094.0											
HTHP Filtrate / Cake Thickness @ 0 °F											Int. Csg. 7 5/8 9,774' 108'					Transferred In(+)/Out(-) 252.0											
Retort Solids Content							0.6%		0.6%		Washout 1					Oil Added (+) 61.9											
Retort Oil Content							2%		2%		Washout 2					Barite Added (+) 17.4											
Retort Water Content							97.4%		97.4%		Open Hole Size 0.000 16,460'					Other Product Usage (+) 1.1											
Sand Content							0%		0%		ANNULAR GEOMETRY & RHEOLOGY										Water Added (+)						
M.B.T. (Methylene Blue Capacity) (ppb)											annular section		meas. depth		velocity ft/min		flow reg		ECD lb/gal		Left on Cuttings (-) 0.0						
pH							7.0		7.0												Lost Returns (-) -348.4						
Alkalinity, Mud Pm							0.1		0.1												Non-Recoverable Vol. (-)						
Alkalinities, Filtrate Pf/Mf							0.1/0.2		0.1/0.2												Est. Total on Location 2078.0						
Chlorides (mg/L)							1700		1600												Est. Losses/Gains (-)/(+) 0.0						
Calcium (ppm)							360		400												BIT HYDRAULICS DATA						
Excess Lime (lb/bbl)																					Bit H.S.I.		Bit ΔP		Nozzles (32nds)		
Average Specific Gravity of Solids							2.60		2.60														psi		18 18 18		
Percent Low Gravity Solids							0.5%		0.5%												Bit Impact Force		Nozzle Velocity (ft/sec)		18 18 18		
Percent Drill Solids							0.5%		0.5%												0 lbs		0				
PPA Spurt / Total (ml) @ @ 0 °F											BIT DATA			Manuf./Type		SECURITY / PDC			0 lbs								
Estimated Total LCM in System ppb											Size		Depth In		Hours		Footage		ROP ft/hr		Motor/MWD		Calc. Circ. Pressure				
Sample Taken By							N. Dilly		M Washburn				14,906 ft		36.0		1,554 ft		43.2								
Remarks/Recommendations: Received OBM (Consignment volume): 3866bbls Plan Forward: POOH and inspect BHA. TIH and drill to TD. Received Obls of produced brine. Received 252bbls 17.0ppg OBM from mud plant. Mud check derived from drill water in slugging pit.									Rig Activity: Drill ahead with fresh water treated with 1.6gal/hr PHPA and 3.5bbls/hr diesel down to 16,460'. Pump clean up cycle with freshwater. Backream out of hole to 14,900'. Strip out of hole to 9,774' filling backside with 12.0ppg OBM. Spot 30bbls 17.0ppg kill mud on backside. Continue POOH at report time. Weighed up 200bbls of 10.0ppg reserve OBM to 12.0ppg for fill while tripping.																		
Eng. 1: Mike Washburn Phone: 361-945-5777							Eng. 2: Nick Dilly Phone: 337-207-8848		WH 1: MIDLAND Phone: 432-686-7361		WH 2: WH #2 Phone: -		Rig Phone:		Daily Total			Cumulative Cost									
W P Y g G p A S C 1 1 1 1 1 0 1 0 0							Any opinion and or recommendation, expressed orally or written herein, has been prepared carefully and may be used if the user so elects, however, no representation is made as to the validity of this information, and this is a recommendation only.													\$24,554.74			\$230,676.37				
INCLUDING 3RD PARTY CHARGES													\$31,626.74			\$329,389.12											

THIRD PARTY COST SHEET

[illegible]

FLUID VOLUME ACCOUNTING

Operator:	MAGNOLIA OIL & GAS
Rig Name:	248
Well Name:	BIGHORN PASS H06 BH

		WEEK 1							WEEK 2							WEEK 3							
		Date	10/9/21	10/10/21	10/11/21	10/12/21	10/13/21	10/14/21	10/15/21	10/16/21	10/17/21	10/18/21	10/19/21	10/20/21	10/21/21	10/22/21	10/23/21	10/24/21	10/25/21	10/26/21	10/27/21	10/28/21	10/29/21
		Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	
Grand Totals	Bit Size	13 1/2	13 1/2	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	
	Starting Depth	-	3,020	3,020	5,946	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790		
	Ending Depth	3,020	3,020	5,946	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790		
17,407	Footage Drilled	3,020	-	2,926	3,844	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
1,517	New Hole Vol.	539	-	277	364	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	Starting System Volume		2,140	2,587	2,574	2,377	2,896	444	444	444	444	444	444	444	444	444	444	444	444	444	444		
72	Chemical Additions			27	12	3																	
921	Base Fluid Added			205	128	4																	
181	Barite Increase					20																	
6,405	Weighted Mud Added	2,140	447			502																	
-	Slurry Added																						
65	Water Added				65																		
-	Added for Washout																						
7,644	Total Additions	2,140	447	232	205	529	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
-	Surface Losses																						
2,444	Formation Loss																						
644	Mud Loss to Cuttings			229	402																		
50	Unrecoverable Volume						50																
66	Centrifuge Losses			16		10	40																
3,204	Total Losses	-	-	245	402	10	90	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
2,362	Mud Transferred Out						2,362																
2,078	Ending System Volume	2,140	2,587	2,574	2,377	2,896	444	444	444	444	444	444	444	444	444	444	444	444	444	444	444		
-	Mud Recovered																						
4,043	Comments:							Comments:							Comments:								
	10/9/21	Transfer 2,140bls OBM from the HO4 to HO6.							10/16/21							10/23/21							
	10/10/21	Received 447bls of 8.6ppg OBM from mud plant.							10/17/21							10/24/21							
	10/11/21	Lost 229bls to mud on cuttings and 16bls to centrifuge running on active system for 3 hours.							10/18/21							10/25/21							
	10/12/21	Lost 402bls to mud on cuttings.							10/19/21							10/26/21							
	10/13/21	Lost 10bls to centrifuges processing on active system to maintain MW.							10/20/21							10/27/21							
	10/14/21	Lost 40bls to centrifuges while cutting MW back in pits and 50bls to spacer interface dumped during cement job.							10/21/21							10/28/21							
	10/15/21							10/22/21							10/29/21								

11/17/21

110 Old Market St.
St Martinville, LA 70582

Report #16

TEL: (337) 394-1078

OUTSOURCE FLUID SOLUTIONS LLC.

0.0°

0' TVD

Operator MAGNOLIA OIL & GAS							Contractor PATTERSON			County / Parish / Block WASHINGTON			Engineer Start Date 10/08/21		24 hr fig. 431 ft		Drilled Depth 16,891 ft																							
Well Name and No. BIGHORN PASS H06 BH							Rig Name and No. 248			State TEXAS			Spud Date 10/08/21		Current ROP 168 ft/hr		Activity DRL																							
Report for Brandon Parks / Jim Harrison							Report for Tool Pusher			Field / OCS-G # GIDDINGS			Fluid Type WBM		Circulating Rate 370 gpm		Circulating Pressure 5,140 psi																							
MUD PROPERTY SPECIFICATIONS							MUD VOLUME (BBL)			PUMP #1			PUMP #2			RISER BOOSTER																								
Weight 8.4-9.6		PV 0-10		YP 0-10		GELS <5 <10		pH 8.4-9		API fl <25		% Solids 2-10		In Pits 260 bbl In Hole 0 bbl Active 260 bbl Storage <u>1635 bbl</u> Tot. on Location 1895 bbl		Liner Size 4.75 Stroke 12 bbl/stk 0.0625 stk/min 71 gal/min 186		Liner Size 4.75 Stroke 12 bbl/stk 0.0625 stk/min 70 gal/min 184		Liner Size Stroke bbl/stk 0.0000 stk/min gal/min 0																				
							11/17/21				11/16/21																													
Time Sample Taken							0:30				15:00																													
Sample Location							pit				pit																													
Flowline Temperature °F													PHHP = 1109		CIRCULATION DATA		n = 0.585 K = 26.563																							
Depth (ft)							16,818'				16,460'					Washout = 5%		Pump Efficiency = 95%																						
Mud Weight (ppg)							8.4				8.4		Drill String Disp.		Volume to Bit 0.0 bbl Bottoms Up Vol. 0.0 bbl Riser Ann. Vol. 0.0 bbl		Strokes To Bit 0 BottomsUp Stks 0 Riser Strokes 0		Time To Bit 0 min BottomsUp Time 0 min Riser Circ. Time 0 min																					
Funnel Vis (sec/qt) @ 81 °F							29				28		0.0 bbl																											
600 rpm							3				3																													
300 rpm							2				2		DRILLING ASSEMBLY DATA					SOLIDS CONTROL																						
200 rpm							1				2		Tubulars OD (in.) ID (in.) Length Top					Unit Screens Hours																						
100 rpm							1				1		Drill Pipe 4.500 0' 0'					Shaker 1 140 0.0																						
6 rpm							1				1		Collars 5.250 0'					Shaker 2 140 0.0																						
3 rpm							1				1		Collars 0'					Shaker 3 140 0.0																						
Plastic Viscosity (cp) @ 120 °F							1				1		Collars 0'					Desander																						
Yield Point (lb/100 ft²) T0 = 1							1				1							Desilter																						
Gel Strength (lb/100 ft²) 10 sec/10 min							1/1				1/1		Casing OD (in.) ID (in.) Depth Top					Centrifuge 1 0.0																						
Gel Strength (lb/100 ft²) 30 min							1				1		Riser 20 108'					VOLUME ACCOUNTING (bbbls)																						
API Filtrate / Cake Thickness													Surface 10 3/4 3,007' 108'					Prev. Total on Location 2078.0																						
HTHP Filtrate / Cake Thickness @ 0 °F													Int. Csg. 7 5/8 9,774' 108'					Transferred In(+)/Out(-)																						
Retort Solids Content							0.6%				0.6%		Washout 1					Oil Added (+) 8.1																						
Retort Oil Content							2%				2%		Washout 2					Barite Added (+) 13.9																						
Retort Water Content							97.4%				97.4%		Open Hole Size 0.000 16,891'					Other Product Usage (+) 0.4																						
Sand Content							0%				0%		ANNULAR GEOMETRY & RHEOLOGY					Water Added (+)																						
M.B.T. (Methylene Blue Capacity) (ppb)													annular section		meas. depth		velocity ft/min		flow reg		ECD lb/gal																			
pH							7.0				7.0							Left on Cuttings (-) 0.0																						
Alkalinity, Mud Pm							0.1				0.1							Lost Returns (-) -205.4																						
Alkalinities, Filtrate Pf/Mf							0.1/0.2				0.1/0.2							Non-Recoverable Vol. (-)																						
Chlorides (mg/L)							1700				1600							Est. Total on Location 1895.0																						
Calcium (ppm)							320				400							Est. Losses/Gains (-)/(+) 0.0																						
Excess Lime (lb/bbl)																		BIT HYDRAULICS DATA																						
Average Specific Gravity of Solids							2.60		2.60		2.60							Bit H.S.I.		Bit ΔP		Nozzles (32nds)																		
Percent Low Gravity Solids							0.5%				0.5%							48 psi				18 18 18																		
Percent Drill Solids							0.5%				0.5%							Bit Impact Force		Nozzle Velocity (ft/sec)																				
PPA Spurt / Total (ml) @ @ 0 °F													BIT DATA		Manuf./Type		SECURITY / PDC		128 lbs		80																			
Estimated Total LCM in System ppb													Size		Depth In		Hours		Footage		ROP ft/hr		Motor/MWD		Calc. Circ. Pressure															
Sample Taken By							N. Dilly				M Washburn				16,460 ft		6.0		431 ft		71.8		5,085 psi		5,140 psi															
Remarks/Recommendations: Received OBM (Consignment volume): 3866bbls Plan Forward: Drill lateral sidetrack to TD. Received Obls of produced brine. Received no OBM from mud plant. Ordered 500bbls 12.5ppg. Mud check derived from drill water in slugging pit.										Rig Activity: POOH filling w/12.0ppg OBM to 2,680' (agitator). Pump 50bbls 17.0ppg kill mud down backside. Remove rot head and finish POOH. Change out damaged bit. TIH to 2,280', install rotating head, and strip in hole to 10,200'. Wash/ream to 10,480'. Strip in hole to 14,627'. Wash/ream to bottom 16,460'. Drilling ahead with fresh water treated with 3.2gal/hr PHPA and 3.5bbbls/hr diesel at a current depth of 16,891'. Torque 15-17K. MWD Temp 135F. ROP 168'/hr.																														
Eng. 1: Mike Washburn Phone: 361-945-5777							Eng. 2: Nick Dilly Phone: 337-207-8848							WH 1: MIDLAND Phone: 432-686-7361							WH 2: WH #2 Phone: -							Rig Phone:							Daily Total			Cumulative Cost		
W P Y g G p A S C 1 1 1 1 1 0 1 0 0							Any opinion and or recommendation, expressed orally or written herein, has been prepared carefully and may be used if the user so elects, however, no representation is made as to the validity of this information, and this is a recommendation only.														\$18,530.08							\$249,206.45												
														INCLUDING 3RD PARTY CHARGES							\$19,454.88							\$348,844.00												

THIRD PARTY COST SHEET

[illegible]

OUTSOURCE FLUID SOLUTIONS LLC.

FLUID VOLUME ACCOUNTING

Operator:	MAGNOLIA OIL & GAS
Rig Name:	248
Well Name:	BIGHORN PASS H06 BH

		WEEK 1								WEEK 2								WEEK 3							
		Date	10/9/21	10/10/21	10/11/21	10/12/21	10/13/21	10/14/21	10/15/21	10/16/21	10/17/21	10/18/21	10/19/21	10/20/21	10/21/21	10/22/21	10/23/21	10/24/21	10/25/21	10/26/21	10/27/21	10/28/21	10/29/21		
		Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri			
Grand Totals	Bit Size	13 1/2	13 1/2	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8			
	Starting Depth	-	3,020	3,020	5,946	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790				
	Ending Depth	3,020	3,020	5,946	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790				
17,838	Footage Drilled	3,020	-	2,926	3,844	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
1,536	New Hole Vol.	539	-	277	364	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
	Starting System Volume		2,140	2,587	2,574	2,377	2,896	444	444	444	444	444	444	444	444	444	444	444	444	444	444				
72	Chemical Additions			27	12	3																			
929	Base Fluid Added			205	128	4																			
195	Barite Increase					20																			
6,405	Weighted Mud Added	2,140	447			502																			
-	Slurry Added																								
65	Water Added				65																				
-	Added for Washout																								
7,666	Total Additions	2,140	447	232	205	529	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
-	Surface Losses																								
2,649	Formation Loss																								
644	Mud Loss to Cuttings			229	402																				
50	Unrecoverable Volume							50																	
66	Centrifuge Losses			16		10	40																		
3,409	Total Losses	-	-	245	402	10	90	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
2,362	Mud Transferred Out						2,362																		
1,895	Ending System Volume	2,140	2,587	2,574	2,377	2,896	444	444	444	444	444	444	444	444	444	444	444	444	444	444	444				
-	Mud Recovered																								
4,043	Comments:								Comments:								Comments:								
	10/9/21 Transfer 2,140bls OBM from the HO4 to HO6.								10/16/21								10/23/21								
	10/10/21 Received 447bls of 8.6ppg OBM from mud plant.								10/17/21								10/24/21								
	10/11/21 Lost 229bls to mud on cuttings and 16bls to centrifuge running on active system for 3 hours.								10/18/21								10/25/21								
	10/12/21 Lost 402bls to mud on cuttings.								10/19/21								10/26/21								
	10/13/21 Lost 10bls to centrifuges processing on active system to maintain MW.								10/20/21								10/27/21								
	10/14/21 Lost 40bls to centrifuges while cutting MW back in pits and 50bls to spacer interface dumped during cement job.								10/21/21								10/28/21								
10/15/21								10/22/21								10/29/21									

11/18/21

110 Old Market St.
St Martinville, LA 70582

Report #17

TEL: (337) 394-1078

OUTSOURCE FLUID SOLUTIONS LLC.

0.0°

0' TVD

Operator MAGNOLIA OIL & GAS							Contractor PATTERSON			County / Parish / Block WASHINGTON			Engineer Start Date 10/08/21		24 hr fig. 2,081 ft		Drilled Depth 18,972 ft																							
Well Name and No. BIGHORN PASS H06 BH							Rig Name and No. 248			State TEXAS			Spud Date 10/08/21		Current ROP 150 ft/hr		Activity Drilling																							
Report for Brandon Parks / Jim Harrison							Report for Tool Pusher			Field / OCS-G # GIDDINGS			Fluid Type WBM		Circulating Rate 375 gpm		Circulating Pressure 5,324 psi																							
MUD PROPERTY SPECIFICATIONS							MUD VOLUME (BBL)			PUMP #1			PUMP #2			RISER BOOSTER																								
Weight 8.4-9.6		PV 0-10		YP 0-10		GELS <5 <10		pH 8.4-9		API fl <25		% Solids 2-10		In Pits 266 bbl In Hole 0 bbl Active 266 bbl Storage <u>1972 bbl</u> Tot. on Location 2238 bbl		Liner Size 4.75 Stroke 12 bbl/stk 0.0625 stk/min 72 gal/min 189		Liner Size 4.75 Stroke 12 bbl/stk 0.0625 stk/min 71 gal/min 186		Liner Size Stroke bbl/stk 0.0000 stk/min gal/min 0																				
						11/18/21						11/17/21																												
Time Sample Taken							0:30				15:00																													
Sample Location							pit				pit																													
Flowline Temperature °F													PHHP = 1165		CIRCULATION DATA		n = 0.585 K = 26.563																							
Depth (ft)							18,972'				18,231'				Washout = 5%		Pump Efficiency = 95%																							
Mud Weight (ppg)							8.4				8.4		Drill String Disp.		Volume to Bit 0.0 bbl Bottoms Up Vol. 0.0 bbl Riser Ann. Vol. 0.0 bbl		Strokes To Bit 0 BottomsUp Stks 0 Riser Strokes 0		Time To Bit 0 min BottomsUp Time 0 min Riser Circ. Time 0 min																					
Funnel Vis (sec/qt) @ 81 °F							29				28		0.0 bbl																											
600 rpm							3				3																													
300 rpm							2				2		DRILLING ASSEMBLY DATA							SOLIDS CONTROL																				
200 rpm							1				2		Tubulars OD (in.) ID (in.) Length Top					Unit Screens Hours																						
100 rpm							1				1		Drill Pipe 4.500 0' 0'					Shaker 1 140 0.0																						
6 rpm							1				1		Collars 5.250 0'					Shaker 2 140 0.0																						
3 rpm							1				1		Collars 0'					Shaker 3 140 0.0																						
Plastic Viscosity (cp) @ 120 °F							1				1		Collars 0'					Desander																						
Yield Point (lb/100 ft²) T0 = 1							1				1		CASING & HOLE DATA					Desilter																						
Gel Strength (lb/100 ft²) 10 sec/10 min							1/1				1/1		Casing OD (in.) ID (in.) Depth Top					Centrifuge 1 0.0																						
Gel Strength (lb/100 ft²) 30 min							1				1		Riser 20 108'					VOLUME ACCOUNTING (bbls)																						
API Filtrate / Cake Thickness													Surface 10 3/4 3,007' 108'					Prev. Total on Location 1895.0																						
HTHP Filtrate / Cake Thickness @ 0 °F													Int. Csg. 7 5/8 9,774' 108'					Transferred In(+)/Out(-) 343.0																						
Retort Solids Content							0.6%				0.6%		Washout 1					Oil Added (+) 106.4																						
Retort Oil Content							2%				2%		Washout 2					Barite Added (+) 0.0																						
Retort Water Content							97.4%				97.4%		Open Hole Size 0.000 18,972'					Other Product Usage (+) 3.6																						
Sand Content							0%				0%		ANNULAR GEOMETRY & RHEOLOGY					Water Added (+)																						
M.B.T. (Methylene Blue Capacity) (ppb)													annular section		meas. depth		velocity ft/min		flow reg		ECD lb/gal																			
pH							7.0				7.0							Left on Cuttings (-) 0.0																						
Alkalinity, Mud Pm							0.1				0.1							Lost Returns (-) -110.1																						
Alkalinities, Filtrate Pf/Mf							0.1/0.2				0.1/0.2							Non-Recoverable Vol. (-)																						
Chlorides (mg/L)							1500				1600							Est. Total on Location 2238.0																						
Calcium (ppm)							400				400							Est. Losses/Gains (-)/(+) 0.0																						
Excess Lime (lb/bbl)																		BIT HYDRAULICS DATA																						
Average Specific Gravity of Solids							2.60		2.60		2.60							Bit H.S.I.		Bit ΔP		Nozzles (32nds)																		
Percent Low Gravity Solids							0.5%				0.5%									49 psi		18 18 18																		
Percent Drill Solids							0.5%				0.5%							Bit Impact Force		Nozzle Velocity (ft/sec)		18 18 18																		
PPA Spurt / Total (ml) @ @ 0 °F													BIT DATA		Manuf./Type		SECURITY / PDC		132 lbs		81																			
Estimated Total LCM in System ppb													Size		Depth In		Hours		Footage		ROP ft/hr		Motor/MWD		Calc. Circ. Pressure															
Sample Taken By							N. Dilly				M Washburn				16,460 ft		29.0		2,512 ft		86.6		5,267 psi		5,324 psi															
Remarks/Recommendations: Received OBM (Consignment volume): 4209bbls Plan Forward: Drill lateral sidetrack to TD. Received Obls of produced brine. Received 343bbls 12.5 OBM from mud plant. Mud check derived from drill water in slugging pit.										Rig Activity: Drill ahead with fresh water treated with 3.2gal/hr PHPA and 3.5bbls/hr diesel at a current depth of 18,972' (target 19,363'). Torque 15-20K. MWD Temp 163F. ROP 150'/hr. Disposed of damaged sack material.																														
Eng. 1: Mike Washburn Phone: 361-945-5777							Eng. 2: Nick Dilly Phone: 337-207-8848							WH 1: MIDLAND Phone: 432-686-7361							WH 2: WH #2 Phone: -							Rig Phone:							Daily Total			Cumulative Cost		
W P Y g G p A S C 1 1 1 1 1 0 1 0 0							Any opinion and or recommendation, expressed orally or written herein, has been prepared carefully and may be used if the user so elects, however, no representation is made as to the validity of this information, and this is a recommendation only.																			\$2,540.80							\$251,747.25							
												INCLUDING 3RD PARTY CHARGES																			\$14,638.12							\$363,482.12		

THIRD PARTY COST SHEET

[illegible]

OUTSOURCE FLUID SOLUTIONS LLC.

FLUID VOLUME ACCOUNTING

Operator:	MAGNOLIA OIL & GAS
Rig Name:	248
Well Name:	BIGHORN PASS H06 BH

		WEEK 1							WEEK 2							WEEK 3							
		Date	10/9/21	10/10/21	10/11/21	10/12/21	10/13/21	10/14/21	10/15/21	10/16/21	10/17/21	10/18/21	10/19/21	10/20/21	10/21/21	10/22/21	10/23/21	10/24/21	10/25/21	10/26/21	10/27/21	10/28/21	10/29/21
		Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	
Grand Totals	Bit Size	13 1/2	13 1/2	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	
	Starting Depth	-	3,020	3,020	5,946	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	
19,919	Ending Depth	3,020	3,020	5,946	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	
	Footage Drilled	3,020	-	2,926	3,844	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1,628	New Hole Vol.	539	-	277	364	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Starting System Volume		2,140	2,587	2,574	2,377	2,896	444	444	444	444	444	444	444	444	444	444	444	444	444	444	444	
76	Chemical Additions			27	12	3																	
1,035	Base Fluid Added			205	128	4																	
195	Barite Increase					20																	
6,748	Weighted Mud Added	2,140	447			502																	
-	Slurry Added																						
65	Water Added				65																		
-	Added for Washout																						
8,119	Total Additions	2,140	447	232	205	529	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	Surface Losses																						
2,759	Formation Loss																						
644	Mud Loss to Cuttings			229	402																		
50	Unrecoverable Volume						50																
66	Centrifuge Losses			16		10	40																
3,519	Total Losses	-	-	245	402	10	90	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2,362	Mud Transferred Out						2,362																
2,238	Ending System Volume	2,140	2,587	2,574	2,377	2,896	444	444	444	444	444	444	444	444	444	444	444	444	444	444	444	444	
-	Mud Recovered																						
4,386		Comments:							Comments:							Comments:							
		10/9/21 Transfer 2,140bls OBM from the HO4 to HO6.							10/16/21							10/23/21							
		10/10/21 Received 447bls of 8.6ppg OBM from mud plant.							10/17/21							10/24/21							
		10/11/21 Lost 229bls to mud on cuttings and 16bls to centrifuge running on active system for 3 hours.							10/18/21							10/25/21							
		10/12/21 Lost 402bls to mud on cuttings.							10/19/21							10/26/21							
		10/13/21 Lost 10bls to centrifuges processing on active system to maintain MW.							10/20/21							10/27/21							
		10/14/21 Lost 40bls to centrifuges while cutting MW back in pits and 50bls to spacer interface dumped during cement job.							10/21/21							10/28/21							
		10/15/21							10/22/21							10/29/21							

11/19/21

110 Old Market St.
St Martinville, LA 70582

Report #18

TEL: (337) 394-1078

OUTSOURCE FLUID SOLUTIONS LLC.

0.0°

0' TVD

Operator MAGNOLIA OIL & GAS							Contractor PATTERSON			County / Parish / Block WASHINGTON			Engineer Start Date 10/08/21			24 hr fig. 391 ft			Drilled Depth 19,363 ft																	
Well Name and No. BIGHORN PASS H06 BH							Rig Name and No. 248			State TEXAS			Spud Date 10/08/21			Current ROP 0 ft/hr			Activity Lay Down DP																	
Report for Brandon Parks / Jim Harrison							Report for Tool Pusher			Field / OCS-G # GIDDINGS			Fluid Type WBM			Circulating Rate 0 gpm			Circulating Pressure psi																	
MUD PROPERTY SPECIFICATIONS							MUD VOLUME (BBL)					PUMP #1			PUMP #2			RISER BOOSTER																		
Weight 8.4-9.6		PV 0-10		YP 0-10		GELS <5 <10		pH 8.4-9		API fl <25		% Solids 2-10		In Pits 266 bbl In Hole 0 bbl Active 266 bbl Storage <u>1648 bbl</u> Tot. on Location 1914 bbl		Liner Size 4.75 Stroke 12 bbl/stk 0.0625 stk/min 0 gal/min 0		Liner Size 4.75 Stroke 12 bbl/stk 0.0625 stk/min 0 gal/min 0		Liner Size Stroke bbl/stk 0.0000 stk/min gal/min 0																
							11/19/21				11/18/21																									
Time Sample Taken							0:30				2:00																									
Sample Location							pit				pit																									
Flowline Temperature °F													PHHP = 0 CIRCULATION DATA n = 0.585 K = 26.563																							
Depth (ft)							19,363'				19,363'							Washout = 5%			Pump Efficiency = 95%															
Mud Weight (ppg)							8.4				8.4		Drill String Disp.		Volume to Bit 0.0 bbl Bottoms Up Vol. 0.0 bbl Riser Ann. Vol. 0.0 bbl		Strokes To Bit BottomsUp Stks Riser Strokes			Time To Bit BottomsUp Time Riser Circ. Time																
600 rpm							3				3		0.0 bbl																							
300 rpm							2				2		DRILLING ASSEMBLY DATA							SOLIDS CONTROL																
200 rpm							1				2		Tubulars OD (in.) ID (in.) Length Top					Unit Screens Hours																		
100 rpm							1				1		Drill Pipe 4.500 0' 0'					Shaker 1 140 0.0																		
6 rpm							1				1		Collars 5.250 0'					Shaker 2 140 0.0																		
3 rpm							1				1		Collars 0'					Shaker 3 140 0.0																		
Plastic Viscosity (cp) @ 120 °F							1				1		Collars 0'					Desander																		
Yield Point (lb/100 ft²) T0 = 1							1				1		CASING & HOLE DATA																							
Gel Strength (lb/100 ft²) 10 sec/10 min							1/1				1/1		Casing OD (in.) ID (in.) Depth Top					Centrifuge 1 0.0																		
Gel Strength (lb/100 ft²) 30 min							1				1		Riser 20 108'					VOLUME ACCOUNTING (bbls)																		
API Filtrate / Cake Thickness													Surface 10 3/4 3,007' 108'					Prev. Total on Location 2238.0																		
HTHP Filtrate / Cake Thickness @ 0 °F													Int. Csg. 7 5/8 9,774' 108'					Transferred In(+)/Out(-) 168.0																		
Retort Solids Content							0.6%				0.6%		Washout 1					Oil Added (+) 26.7																		
Retort Oil Content							2%				2%		Washout 2					Barite Added (+) 7.0																		
Retort Water Content							97.4%				97.4%		Open Hole Size 0.000 19,363'					Other Product Usage (+) 0.6																		
Sand Content							0%				0%		ANNULAR GEOMETRY & RHEOLOGY																							
M.B.T. (Methylene Blue Capacity) (ppb)													annular section		meas. depth		velocity ft/min		flow reg		ECD lb/gal															
pH							7.0				7.0																									
Alkalinity, Mud Pm							0.1				0.1																									
Alkalinities, Filtrate Pf/Mf							0.1/0.2				0.1/0.2																									
Chlorides (mg/L)							1500				1600																									
Calcium (ppm)							400				400																									
Excess Lime (lb/bbl)																																				
Average Specific Gravity of Solids							2.60		2.60		2.60																									
Percent Low Gravity Solids							0.5%				0.5%																									
Percent Drill Solids							0.5%				0.5%																									
PPA Spurt / Total (ml) @ @ 0 °F													BIT DATA			Manuf./Type SECURITY / PDC		0 lbs		0																
Estimated Total LCM in System ppb													Size		Depth In		Hours		Footage		ROP ft/hr		Motor/MWD		Calc. Circ. Pressure											
Sample Taken By							N. Dilly				M Washburn				16,460 ft		31.0		2,903 ft		93.6															
Remarks/Recommendations: Received OBM (Consignment volume): 4377bbls Plan Forward: Lay down pipe and run casing. Received Obls of produced brine. Received 168bbls 12.5 OBM from mud plant. Mud check derived from drill water in slugging pit.										Rig Activity: Drill ahead with fresh water treated with 3.2gal/hr PHPA and 3.5bbls/hr diesel to target TD of 19,363'. Circulate 5 calculated bottoms up with fresh water pumping 2 tandem phpa sweeps. Backream out of hole from 19,363' to 14,942'. Strip out of hole to shoe 9,727' filling backside with 12.0ppg OBM and racking back stands. Strip out of hole laying down DP to 3,000'. Currently RIH with racked back pipe and lay down same. Transferred pallet material and 9.0ppg reserve OBM to Tahoe pad.																										
Eng. 1: Mike Washburn Phone: 361-945-5777							Eng. 2: Nick Dilly Phone: 337-207-8848							WH 1: MIDLAND Phone: 432-686-7361							WH 2: WH #2 Phone: -							Rig Phone:			Daily Total			Cumulative Cost		
W P Y g G p A S C 1 1 1 1 1 0 1 0 0							Any opinion and or recommendation, expressed orally or written herein, has been prepared carefully and may be used if the user so elects, however, no representation is made as to the validity of this information, and this is a recommendation only.														\$39,963.80			\$291,711.05												
														INCLUDING 3RD PARTY CHARGES							\$42,993.20			\$406,475.32												

OUTSOURCE FLUID SOLUTIONS LLC.

FLUID VOLUME ACCOUNTING

Operator:	MAGNOLIA OIL & GAS
Rig Name:	248
Well Name:	BIGHORN PASS H06 BH

		WEEK 1							WEEK 2							WEEK 3							
		Date	10/9/21	10/10/21	10/11/21	10/12/21	10/13/21	10/14/21	10/15/21	10/16/21	10/17/21	10/18/21	10/19/21	10/20/21	10/21/21	10/22/21	10/23/21	10/24/21	10/25/21	10/26/21	10/27/21	10/28/21	10/29/21
		Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	
Bit Size		13 1/2	13 1/2	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	
Grand Totals	Starting Depth	-	3,020	3,020	5,946	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	
	Ending Depth	3,020	3,020	5,946	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	
20,310	Footage Drilled	3,020	-	2,926	3,844	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1,646	New Hole Vol.	539	-	277	364	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Starting System Volume		2,140	2,587	2,574	2,377	2,896	444	444	444	444	444	444	444	444	444	444	444	444	444	444	444	
77	Chemical Additions			27	12	3																	
1,061	Base Fluid Added			205	128	4																	
202	Barite Increase					20																	
6,916	Weighted Mud Added	2,140	447			502																	
-	Slurry Added																						
65	Water Added				65																		
-	Added for Washout																						
8,321	Total Additions	2,140	447	232	205	529	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	Surface Losses																						
3,285	Formation Loss																						
644	Mud Loss to Cuttings			229	402																		
50	Unrecoverable Volume						50																
66	Centrifuge Losses			16		10	40																
4,045	Total Losses	-	-	245	402	10	90	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2,362	Mud Transferred Out						2,362																
1,914	Ending System Volume	2,140	2,587	2,574	2,377	2,896	444	444	444	444	444	444	444	444	444	444	444	444	444	444	444	444	
-	Mud Recovered																						
4,554		Comments:							Comments:							Comments:							
		10/9/21 Transfer 2,140bls OBM from the HO4 to HO6.							10/16/21							10/23/21							
		10/10/21 Received 447bls of 8.6ppg OBM from mud plant.							10/17/21							10/24/21							
		10/11/21 Lost 229bls to mud on cuttings and 16bls to centrifuge running on active system for 3 hours.							10/18/21							10/25/21							
		10/12/21 Lost 402bls to mud on cuttings.							10/19/21							10/26/21							
		10/13/21 Lost 10bls to centrifuges processing on active system to maintain MW.							10/20/21							10/27/21							
		10/14/21 Lost 40bls to centrifuges while cutting MW back in pits and 50bls to spacer interface dumped during cement job.							10/21/21							10/28/21							
		10/15/21							10/22/21							10/29/21							

11/20/21

110 Old Market St.
St Martinville, LA 70582

Report #19

TEL: (337) 394-1078

OUTSOURCE FLUID SOLUTIONS LLC.

0.0°

0' TVD

Operator MAGNOLIA OIL & GAS							Contractor PATTERSON			County / Parish / Block WASHINGTON			Engineer Start Date 10/08/21			24 hr fig. 0 ft			Drilled Depth 19,363 ft																					
Well Name and No. BIGHORN PASS H06 BH							Rig Name and No. 248			State TEXAS			Spud Date 10/08/21			Current ROP 0 ft/hr			Activity Run Casing																					
Report for Brandon Parks / Jim Harrison							Report for Tool Pusher			Field / OCS-G # GIDDINGS			Fluid Type WBM			Circulating Rate 0 gpm			Circulating Pressure psi																					
MUD PROPERTY SPECIFICATIONS							MUD VOLUME (BBL)				PUMP #1				PUMP #2				RISER BOOSTER																					
Weight 8.4-9.6		PV 0-10		YP 0-10		GELS <5 <10		pH 8.4-9		API fl <25		% Solids 2-10		In Pits 300 bbl		Liner Size 4.75		Liner Size 4.75		Liner Size																				
														In Hole 0 bbl		Stroke 12		Stroke 12		Stroke																				
						11/20/21						11/19/21		Active 300 bbl		bbl/stk 0.0625		bbl/stk 0.0625		bbl/stk 0.0000																				
Time Sample Taken						0:30						2:00		Storage <u>1082 bbl</u>		stk/min 0		stk/min 0		stk/min																				
Sample Location						pit						pit		Tot. on Location 1382 bbl		gal/min 0		gal/min 0		gal/min 0																				
Flowline Temperature °F													PHHP = 0 CIRCULATION DATA n = 0.585 K = 26.563																											
Depth (ft)							19,363'				19,363'						Washout = 5%			Pump Efficiency = 95%																				
Mud Weight (ppg)							8.4				8.4		Drill String Disp.		Volume to Bit 0.0 bbl		Strokes To Bit			Time To Bit																				
Funnel Vis (sec/qt)							@ 81 °F		29		28				Bottoms Up Vol. 0.0 bbl		BottomsUp Stks			BottomsUp Time																				
600 rpm							3				3		0.0 bbl		Riser Ann. Vol. 0.0 bbl		Riser Strokes			Riser Circ. Time																				
300 rpm							2				2		DRILLING ASSEMBLY DATA							SOLIDS CONTROL																				
200 rpm							1				2		Tubulars		OD (in.)		ID (in.)		Length		Top		Unit		Screens		Hours													
100 rpm							1				1		Drill Pipe		4.500				0'		0'		Shaker 1		140		0.0													
6 rpm							1				1		Collars		5.250						0'		Shaker 2		140		0.0													
3 rpm							1				1		Collars								0'		Shaker 3		140		0.0													
Plastic Viscosity (cp)							@ 120 °F		1				1		Collars						0'		Desander																	
Yield Point (lb/100 ft²)							T0 = 1		1				1		CASING & HOLE DATA										Desilter															
Gel Strength (lb/100 ft²)							10 sec/10 min		1/1				1/1		Casing		OD (in.)		ID (in.)		Depth		Top		Centrifuge 1		0.0													
Gel Strength (lb/100 ft²)							30 min		1				1		Riser		20				108'				VOLUME ACCOUNTING (bbls)															
API Filtrate / Cake Thickness															Surface		10 3/4				3,007'		108'		Prev. Total on Location		1914.0													
HTHP Filtrate / Cake Thickness							@ 0 °F								Int. Csg.		7 5/8				9,774'		108'		Transferred In(+)/Out(-)															
Retort Solids Content									0.6%				0.6%		Washout 1										Oil Added (+)		0.0													
Retort Oil Content									2%				2%		Washout 2										Barite Added (+)		0.0													
Retort Water Content									97.4%				97.4%		Open Hole Size		0.000		19,363'						Other Product Usage (+)		0.0													
Sand Content									0%				0%		ANNULAR GEOMETRY & RHEOLOGY																									
M.B.T. (Methylene Blue Capacity) (ppb)															annular section		meas. depth		velocity ft/min		flow reg		ECD lb/gal		Left on Cuttings (-)		0.0													
pH									7.0				7.0												Lost Returns (-)		-532.0													
Alkalinity, Mud Pm									0.1				0.1																				Non-Recoverable Vol. (-)							
Alkalinities, Filtrate Pf/Mf									0.1/0.2				0.1/0.2																		Est. Total on Location		1382.0							
Chlorides (mg/L)									1500				1600																		Est. Losses/Gains (-)/(+)		0.0							
Calcium (ppm)									400				400																				BIT HYDRAULICS DATA							
Excess Lime (lb/bbl)																																	Bit H.S.I.		Bit ΔP		Nozzles (32nds)			
Average Specific Gravity of Solids									2.60		2.60		2.60																											
Percent Low Gravity Solids									0.5%				0.5%																				Bit Impact Force		Nozzle Velocity (ft/sec)					
Percent Drill Solids									0.5%				0.5%																											
PPA Spurt / Total (ml) @							@ 0 °F								BIT DATA			Manuf./Type																						
Estimated Total LCM in System							ppb								Size		Depth In		Hours		Footage		ROP ft/hr		Motor/MWD		Calc. Circ. Pressure													
Sample Taken By							N. Dilly				M Washburn																													
Remarks/Recommendations: Received OBM (Consignment volume): 4377bbls Plan Forward: Run casing and cement. Received Obls of produced brine. Received Obls OBM from mud plant. Mud check derived from drill water in slugging pit.										Rig Activity: Strip out of hole laying down DP to 3,368'. RIH with racked back pipe to 6,400'. POOH laying down pipe to 2,722'. Pump 60bbls of 17.0ppg kill mud on backside. Finish POOH laying down DP and BHA. Rig up casing tools. Currently running 5" casing at 2,110'. Moved 2 empty OBM frac tanks to Tahoe pad.																														
Eng. 1: Mike Washburn Phone: 361-945-5777							Eng. 2: Nick Dilly Phone: 337-207-8848							WH 1: MIDLAND Phone: 432-686-7361							WH 2: WH #2 Phone: -							Rig Phone:							Daily Total			Cumulative Cost		
W P Y g G p A S C 1 1 1 1 1 0 1 0 0							Any opinion and or recommendation, expressed orally or written herein, has been prepared carefully and may be used if the user so elects, however, no representation is made as to the validity of this information, and this is a recommendation only.																					\$41,940.00			\$333,651.05									
										INCLUDING 3RD PARTY CHARGES																	\$41,940.00			\$448,415.32										

THIRD PARTY COST SHEET

[illegible]

OUTSOURCE FLUID SOLUTIONS LLC.

FLUID VOLUME ACCOUNTING

Operator:	MAGNOLIA OIL & GAS
Rig Name:	248
Well Name:	BIGHORN PASS H06 BH

		WEEK 1								WEEK 2								WEEK 3							
		Date	10/9/21	10/10/21	10/11/21	10/12/21	10/13/21	10/14/21	10/15/21	10/16/21	10/17/21	10/18/21	10/19/21	10/20/21	10/21/21	10/22/21	10/23/21	10/24/21	10/25/21	10/26/21	10/27/21	10/28/21	10/29/21		
		Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri			
Grand Totals	Bit Size	13 1/2	13 1/2	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8			
	Starting Depth	-	3,020	3,020	5,946	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790				
	Ending Depth	3,020	3,020	5,946	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790				
	20,310 Footage Drilled	3,020	-	2,926	3,844	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
1,646	New Hole Vol.	539	-	277	364	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
	Starting System Volume		2,140	2,587	2,574	2,377	2,896	444	444	444	444	444	444	444	444	444	444	444	444	444	444				
77	Chemical Additions			27	12	3																			
1,061	Base Fluid Added			205	128	4																			
202	Barite Increase					20																			
6,916	Weighted Mud Added	2,140	447			502																			
-	Slurry Added																								
65	Water Added				65																				
-	Added for Washout																								
8,321	Total Additions	2,140	447	232	205	529	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
-	Surface Losses																								
3,817	Formation Loss																								
644	Mud Loss to Cuttings			229	402																				
50	Unrecoverable Volume							50																	
66	Centrifuge Losses			16		10	40																		
4,577	Total Losses	-	-	245	402	10	90	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
2,362	Mud Transferred Out						2,362																		
1,382	Ending System Volume	2,140	2,587	2,574	2,377	2,896	444	444	444	444	444	444	444	444	444	444	444	444	444	444	444				
-	Mud Recovered																								
4,554	Comments:								Comments:								Comments:								
	10/9/21	Transfer 2,140bls OBM from the HO4 to HO6.							10/16/21								10/23/21								
	10/10/21	Received 447bls of 8.6ppg OBM from mud plant.							10/17/21								10/24/21								
	10/11/21	Lost 229bls to mud on cuttings and 16bls to centrifuge running on active system for 3 hours.							10/18/21								10/25/21								
	10/12/21	Lost 402bls to mud on cuttings.							10/19/21								10/26/21								
	10/13/21	Lost 10bls to centrifuges processing on active system to maintain MW.							10/20/21								10/27/21								
	10/14/21	Lost 40bls to centrifuges while cutting MW back in pits and 50bls to spacer interface dumped during cement job.							10/21/21								10/28/21								
	10/15/21								10/22/21								10/29/21								

11/21/21

110 Old Market St.
St Martinville, LA 70582

Report #20

TEL: (337) 394-1078

OUTSOURCE FLUID SOLUTIONS LLC.

0.0°

0' TVD

Operator MAGNOLIA OIL & GAS							Contractor PATTERSON			County / Parish / Block WASHINGTON			Engineer Start Date 10/08/21			24 hr fig. 0 ft			Drilled Depth 19,363 ft																																															
Well Name and No. BIGHORN PASS H06 BH							Rig Name and No. 248			State TEXAS			Spud Date 10/08/21			Current ROP 0 ft/hr			Activity Cement Casing																																															
Report for Brandon Parks / Jim Harrison							Report for Tool Pusher			Field / OCS-G # GIDDINGS			Fluid Type WBM			Circulating Rate 0 gpm			Circulating Pressure psi																																															
MUD PROPERTY SPECIFICATIONS							MUD VOLUME (BBL)			PUMP #1			PUMP #2			RISER BOOSTER																																																		
Weight 8.4-9.6		PV 0-10		YP 0-10		GELS <5 <10		pH 8.4-9		API fl <25		% Solids 2-10		In Pits 315 bbl In Hole 0 bbl Active 315 bbl Storage <u>1067 bbl</u> Tot. on Location 1382 bbl		Liner Size 4.75 Stroke 12 bbl/stk 0.0625 stk/min 0 gal/min 0		Liner Size 4.75 Stroke 12 bbl/stk 0.0625 stk/min 0 gal/min 0		Liner Size Stroke bbl/stk 0.0000 stk/min gal/min 0																																														
							11/21/21				11/20/21																																																							
Time Sample Taken							0:30				14:00																																																							
Sample Location							pit				pit																																																							
Flowline Temperature °F													PHHP = 0 CIRCULATION DATA n = 0.585 K = 26.563																																																					
Depth (ft)							19,363'				19,363'					Washout = 5%			Pump Efficiency = 95%																																															
Mud Weight (ppg)							8.4				8.4		Drill String Disp.		Volume to Bit 0.0 bbl Bottoms Up Vol. 0.0 bbl Riser Ann. Vol. 0.0 bbl		Strokes To Bit BottomsUp Stks Riser Strokes			Time To Bit BottomsUp Time Riser Circ. Time																																														
600 rpm							3				3		0.0 bbl																																																					
300 rpm							2				2		DRILLING ASSEMBLY DATA							SOLIDS CONTROL																																														
200 rpm							1				2		Tubulars OD (in.) ID (in.) Length Top					Unit Screens Hours																																																
100 rpm							1				1		Casing 5.500 0' 0'					Shaker 1 140 0.0																																																
6 rpm							1				1		Casing 5.000 0'					Shaker 2 140 0.0																																																
3 rpm							1				1		Collars 0'					Shaker 3 140 0.0																																																
Plastic Viscosity (cp) @ 120 °F							1				1		Collars 0'					Desander																																																
Yield Point (lb/100 ft²) T0 = 1							1				1		CASING & HOLE DATA							Desilter																																														
Gel Strength (lb/100 ft²) 10 sec/10 min							1/1				1/1		Casing OD (in.) ID (in.) Depth Top					Centrifuge 1 0.0																																																
Gel Strength (lb/100 ft²) 30 min							1				1		Riser 20 108'					VOLUME ACCOUNTING (bbls)																																																
API Filtrate / Cake Thickness													Surface 10 3/4 3,007' 108'					Prev. Total on Location 1382.0																																																
HTHP Filtrate / Cake Thickness @ 0 °F													Int. Csg. 7 5/8 9,774' 108'					Transferred In(+)/Out(-)																																																
Retort Solids Content							0.6%				0.6%		Prod. 5 19,353' 10,318'					Oil Added (+) 7.3																																																
Retort Oil Content							2%				2%		Prod. 5 1/2 10,318' 0'					Barite Added (+) 7.0																																																
Retort Water Content							97.4%				97.4%		Open Hole Size 0.000 19,363'					Other Product Usage (+) 0.0																																																
Sand Content							0%				0%		ANNULAR GEOMETRY & RHEOLOGY							Water Added (+)																																														
M.B.T. (Methylene Blue Capacity) (ppb)													annular section		meas. depth		velocity ft/min		flow reg		ECD lb/gal		Left on Cuttings (-) 0.0																																											
pH							7.0				7.0												Lost Returns (-) -14.2																																											
Alkalinity, Mud Pm							0.1				0.1																	Non-Recoverable Vol. (-)																																						
Alkalinities, Filtrate Pf/Mf							0.1/0.2				0.1/0.2																						Est. Total on Location 1382.0																																	
Chlorides (mg/L)							1500				1600																											Est. Losses/Gains (-)/(+) 0.0																												
Calcium (ppm)							400				400																																BIT HYDRAULICS DATA																							
Excess Lime (lb/bbl)																																																Bit H.S.I.		Bit ΔP		Nozzles (32nds)														
Average Specific Gravity of Solids							2.60		2.60		2.60																																										Bit Impact Force		Nozzle Velocity (ft/sec)											
Percent Low Gravity Solids							0.5%				0.5%																																																							
Percent Drill Solids							0.5%				0.5%																																																							
PPA Spurt / Total (ml) @ @ 0 °F																																																																		
Estimated Total LCM in System ppb																																																																		
Sample Taken By							N. Dilly				M Washburn																																																							
Remarks/Recommendations: Received OBM (Consignment volume): 4377bls Plan Forward: Finish cement job and move rig. Received Obls of produced brine. Received Obls OBM from mud plant. Mud check derived from drill water in slugging pit.							Rig Activity: Run 5" casing to 10,318'. Change out casing equipment to 5 1/2". Run 5 1/2" casing to 17,940'. Wash/ream casing down to 19,353' LP. Rig down CRT and rig up cement head. Circulate freshwater downhole for 5000stks (312bls). Pump cement job with 40bls 10.5ppg spacer and 316bls lead at 13.5ppg. Drop plug and displace with 374bls of fresh water to bump plug. Preparing to start 2nd stage top out cement job at report time.																																																											
							Eng. 1: Mike Washburn Eng. 2: Nick Dilly WH 1: MIDLAND WH 2: WH #2 Rig Phone:																Daily Total					Cumulative Cost																																						
							Phone: 361-945-5777 Phone: 337-207-8848 Phone: 432-686-7361 Phone: -																																																											
							W P Y g G p A S C																																																											
							1 1 1 1 1 0 1 0 0																Any opinion and or recommendation, expressed orally or written herein, has been prepared carefully and may be used if the user so elects, however, no representation is made as to the validity of this information, and this is a recommendation only.																																											
																							INCLUDING 3RD PARTY CHARGES																																											

THIRD PARTY COST SHEET

[illegible]

OUTSOURCE FLUID SOLUTIONS LLC.

FLUID VOLUME ACCOUNTING

Operator:	MAGNOLIA OIL & GAS
Rig Name:	248
Well Name:	BIGHORN PASS H06 BH

		WEEK 1								WEEK 2								WEEK 3							
		Date	10/9/21	10/10/21	10/11/21	10/12/21	10/13/21	10/14/21	10/15/21	10/16/21	10/17/21	10/18/21	10/19/21	10/20/21	10/21/21	10/22/21	10/23/21	10/24/21	10/25/21	10/26/21	10/27/21	10/28/21	10/29/21		
		Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri			
Grand Totals	Bit Size	13 1/2	13 1/2	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8			
	Starting Depth	-	3,020	3,020	5,946	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790				
	Ending Depth	3,020	3,020	5,946	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790				
20,310	Footage Drilled	3,020	-	2,926	3,844	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
1,646	New Hole Vol.	539	-	277	364	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
	Starting System Volume		2,140	2,587	2,574	2,377	2,896	444	444	444	444	444	444	444	444	444	444	444	444	444	444				
77	Chemical Additions			27	12	3																			
1,068	Base Fluid Added			205	128	4																			
209	Barite Increase					20																			
6,916	Weighted Mud Added	2,140	447			502																			
-	Slurry Added																								
65	Water Added				65																				
-	Added for Washout																								
8,335	Total Additions	2,140	447	232	205	529	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
-	Surface Losses																								
3,831	Formation Loss																								
644	Mud Loss to Cuttings			229	402																				
50	Unrecoverable Volume							50																	
66	Centrifuge Losses			16		10	40																		
4,591	Total Losses	-	-	245	402	10	90	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
2,362	Mud Transferred Out						2,362																		
1,382	Ending System Volume	2,140	2,587	2,574	2,377	2,896	444	444	444	444	444	444	444	444	444	444	444	444	444	444	444				
-	Mud Recovered																								
4,554	Comments:								Comments:								Comments:								
	10/9/21 Transfer 2,140bls OBM from the HO4 to HO6.								10/16/21								10/23/21								
	10/10/21 Received 447bls of 8.6ppg OBM from mud plant.								10/17/21								10/24/21								
	10/11/21 Lost 229bls to mud on cuttings and 16bls to centrifuge running on active system for 3 hours.								10/18/21								10/25/21								
	10/12/21 Lost 402bls to mud on cuttings.								10/19/21								10/26/21								
	10/13/21 Lost 10bls to centrifuges processing on active system to maintain MW.								10/20/21								10/27/21								
	10/14/21 Lost 40bls to centrifuges while cutting MW back in pits and 50bls to spacer interface dumped during cement job.								10/21/21								10/28/21								
10/15/21								10/22/21								10/29/21									

THIRD PARTY COST SHEET

[illegible]

OUTSOURCE FLUID SOLUTIONS LLC.

FLUID VOLUME ACCOUNTING

Operator:	MAGNOLIA OIL & GAS
Rig Name:	248
Well Name:	BIGHORN PASS H06 BH

		WEEK 1							WEEK 2							WEEK 3							
		Date	10/9/21	10/10/21	10/11/21	10/12/21	10/13/21	10/14/21	10/15/21	10/16/21	10/17/21	10/18/21	10/19/21	10/20/21	10/21/21	10/22/21	10/23/21	10/24/21	10/25/21	10/26/21	10/27/21	10/28/21	10/29/21
		Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	
Grand Totals	Bit Size	13 1/2	13 1/2	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	
	Starting Depth	-	3,020	3,020	5,946	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	
	Ending Depth	3,020	3,020	5,946	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	9,790	
20,310	Footage Drilled	3,020	-	2,926	3,844	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1,646	New Hole Vol.	539	-	277	364	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Starting System Volume		2,140	2,587	2,574	2,377	2,896	444	444	444	444	444	444	444	444	444	444	444	444	444	444	444	
77	Chemical Additions			27	12	3																	
1,132	Base Fluid Added			205	128	4																	
209	Barite Increase					20																	
6,916	Weighted Mud Added	2,140	447			502																	
-	Slurry Added																						
65	Water Added				65																		
-	Added for Washout																						
8,399	Total Additions	2,140	447	232	205	529	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	Surface Losses																						
3,985	Formation Loss																						
644	Mud Loss to Cuttings			229	402																		
135	Unrecoverable Volume						50																
66	Centrifuge Losses			16		10	40																
4,830	Total Losses	-	-	245	402	10	90	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2,362	Mud Transferred Out						2,362																
1,207	Ending System Volume	2,140	2,587	2,574	2,377	2,896	444	444	444	444	444	444	444	444	444	444	444	444	444	444	444	444	
-	Mud Recovered																						
4,554	Comments:							Comments:							Comments:								
	10/9/21 Transfer 2,140bls OBM from the HO4 to HO6.							10/16/21							10/23/21								
	10/10/21 Received 447bls of 8.6ppg OBM from mud plant.							10/17/21							10/24/21								
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	10/12/21 Lost 402bls to mud on cuttings.							10/19/21							10/26/21								
	10/13/21 Lost 10bls to centrifuges processing on active system to maintain MW.							10/20/21							10/27/21								
	10/14/21 Lost 40bls to centrifuges while cutting MW back in pits and 50bls to spacer interface dumped during cement job.							10/21/21							10/28/21								
10/15/21							10/22/21							10/29/21									