

07/15/21

110 Old Market St.  
St Martinville, LA 70582

Report #1

TEL: (337) 394-1078

OUTSOURCE FLUID SOLUTIONS LLC.

0.0° 3,200' TVD

Operator <b>MAGNOLIA OIL &amp; GAS</b>							Contractor <b>PATTERSON</b>			County / Parish / Block <b>WASHINGTON</b>			Engineer Start Date <b>07/14/21</b>		24 hr fig. <b>3,200 ft</b>		Drilled Depth <b>3,200 ft</b>																							
Well Name and No. <b>ROMMEL UNIT 3H</b>							Rig Name and No. <b>248</b>			State <b>TEXAS</b>			Spud Date <b>07/14/21</b>		Current ROP <b>320 ft/hr</b>		Activity <b>Skid/Drilling</b>																							
Report for <b>Kevin Burt/Kevin Cooper</b>							Report for <b>Tool Pusher</b>			Field / OCS-G # <b>GIDDINGS (AC)</b>			Fluid Type <b>WBM</b>		Circulating Rate <b>900 gpm</b>		Circulating Pressure <b>2,577 psi</b>																							
MUD PROPERTY SPECIFICATIONS							MUD VOLUME (BBL)			PUMP #1			PUMP #2			RISER BOOSTER																								
Weight <b>8.4-9.6</b>		PV <b>0-10</b>		YP <b>0-10</b>		GELS <b>&lt;5 &lt;10</b>		pH <b>8.4-9</b>		API fl <b>&lt;25</b>		% Solids <b>2-10</b>		In Pits 514 bbl		Liner Size 5.75		Liner Size 5.75		Liner Size																				
														In Hole 561 bbl		Stroke 12		Stroke 12		Stroke																				
						7/15/21								Active 1075 bbl		bbl/stk 0.0915		bbl/stk 0.0915		bbl/stk 0.0000																				
														Storage		stk/min 119		stk/min 115		stk/min																				
						Sample Location		pit						Tot. on Location 1075 bbl		gal/min 457		gal/min 442		gal/min 0																				
Flowline Temperature °F							120 °F						PHHP = 1353 CIRCULATION DATA n = 0.485 K = 123.538																											
Depth (ft)							3,200'						Bit Depth = 3,200 '			Washout = 5%			Pump Efficiency = 95%																					
Mud Weight (ppg)							9.1						Drill String Disp.		Volume to Bit 56.8 bbl		Strokes To Bit 621		Time To Bit 3 min																					
Funnel Vis (sec/qt) @ 90 °F							36								Bottoms Up Vol. 503.7 bbl		BottomsUp Stks 5,503		BottomsUp Time 24 min																					
600 rpm							7						20.9 bbl		Riser Ann. Vol. -2.6 bbl		Riser Strokes -29		Riser Circ. Time 0 min																					
300 rpm							5						DRILLING ASSEMBLY DATA						SOLIDS CONTROL																					
200 rpm							3						Tubulars OD (in.) ID (in.) Length Top					Unit Screens Hours																						
100 rpm							2						Drill Pipe 5.000 4.276 3,200' 0'					Shaker 1 140																						
6 rpm							1						Hevi Wt 5.500 3.000 3,200'					Shaker 2 140																						
3 rpm							1						Dir. BHA 8.000 2.875 3,200'					Shaker 3 140																						
Plastic Viscosity (cp) @ 120 °F							2						3,200'					Desander																						
Yield Point (lb/100 ft²) T0 = 1							3						CASING & HOLE DATA						Desilter																					
Gel Strength (lb/100 ft²) 10 sec/10 min							1/2						Casing OD (in.) ID (in.) Depth Top					Centrifuge 1																						
Gel Strength (lb/100 ft²) 30 min							4						Riser 20 108'					VOLUME ACCOUNTING (bbls)																						
API Filtrate / Cake Thickness							22/3						Surface 108'					Prev. Total on Location 0.0																						
HTHP Filtrate / Cake Thickness @ 0 °F													Int. Csg. 108'					Transferred In(+)/Out(-) 1374.8																						
Retort Solids Content							5.7%						Washout 1					Oil Added (+) 0.0																						
Retort Oil Content													Washout 2					Barite Added (+) 0.0																						
Retort Water Content							94.3%						Open Hole Size 13.913 3,200'					Other Product Usage (+) 0.6																						
Sand Content							0.4%						ANNULAR GEOMETRY & RHEOLOGY						Water Added (+)																					
M.B.T. (Methylene Blue Capacity) (ppb)							3.0						annular section		meas. depth		velocity ft/min		flow reg		ECD lb/gal																			
pH							7.5						0x5 108' -882.0 9.55					Left on Cuttings (-) -300.8																						
Alkalinity, Mud Pm							0.1						13.913x5 3,200' 130.8 lam 9.77					Sand Trap Discharge																						
Alkalinities, Filtrate Pf/Mf																		Est. Total on Location 1074.6																						
Chlorides (mg/L)							400											Est. Losses/Gains (-)/(+) 0.0																						
Calcium (ppm)							100											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							1.86		489 psi		16		16		16														
Percent Low Gravity Solids							5.6%											Bit Impact Force		Nozzle Velocity (ft/sec)		16		16		16														
Percent Drill Solids							5.6%											1039 lbs		245																				
PPA Spurt / Total (ml) @ @ 0 °F													BIT DATA			Manuf./Type					Motor/MWD		Calc. Circ. Pressure																	
Estimated Total LCM in System ppb													Size		Depth In		Hours		Footage		ROP ft/hr		883 psi																	
Sample Taken By							E. Sanchez						13 1/4		0 ft		10.0		3,200 ft		320.0																			
Remarks/Recommendations:  OBM RECEIVED: 2,065 bbls / OBM RETURNED:  OBM ON SURFACE---- bbls (Storage + Active)  OBM LOSS/GAIN--(Daily-- 0 )----Total ( 0 )										Rig Activity:  Skid over from ROMMEL Unit 4-H. M/U bit, and install MWD tool, controll drill to 1,040'. Resume drilling ahead from 1,040' to 3,200'. Average ROP: 320 ft/hr, SPP: 2577 psi, GPM: 900 gpm, TORQ: 3-8. Centrifuge/Desander/Desilter ran while drilling. Rolling WBM in frac tank to prevent sand settling out. Transfer water in/out as needed to maintain MWT. SAPP and Soap sweeps were pumped every 300' or as needed. At 3,000' SAPP was discontinued to allow for system viscosity increase. Plan ahead is to finish drilling surface to estimated 3,523'.																														
Eng. 1: Patrick Blair Phone: 936-465-0952							Eng. 2: Chris Beasley Phone: 903-747-5377							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.																			\$4,563.23			\$4,563.23											
										INCLUDING 3RD PARTY CHARGES																			\$4,563.23			\$4,563.23								



### THIRD PARTY COST SHEET

[illegible]





### THIRD PARTY COST SHEET

[illegible]

**OUTSOURCE FLUID SOLUTIONS LLC.**

# FLUID VOLUME ACCOUNTING

Operator:	MAGNOLIA OIL & GAS
Rig Name:	248
Well Name:	ROMMEL UNIT 3H

		WEEK 1							WEEK 2							WEEK 3							
		Date		1/1/00	1/2/00	1/3/00	1/4/00	1/5/00	1/6/00	1/7/00	1/8/00	1/9/00	1/10/00	1/11/00	1/12/00	1/13/00	1/14/00	1/15/00	1/16/00	1/17/00	1/18/00	1/19/00	1/20/00
		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																						
	Starting Depth																						
	Ending Depth																						
-	Footage Drilled	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	New Hole Vol.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Starting System Volume		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	Chemical Additions																						
-	Base Fluid Added																						
-	Barite Increase																						
-	Weighted Mud Added																						
-	Slurry Added																						
-	Water Added																						
-	Added for Washout																						
-	Total Additions	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	Surface Losses																						
-	Formation Loss																						
-	Mud Loss to Cuttings																						
-	Unrecoverable Volume																						
-	Centrifuge Losses																						
-	Total Losses	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	Mud Transferred Out																						
-	Ending System Volume	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
-	Mud Recovered																						
-	Comments:							Comments:							Comments:								
	1/0/00							1/7/00							1/14/00								
	1/1/00							1/8/00							1/15/00								
	1/2/00							1/9/00							1/16/00								
	1/3/00							1/10/00							1/17/00								
	1/4/00							1/11/00							1/18/00								
	1/5/00							1/12/00							1/19/00								
1/6/00							1/13/00							1/20/00									

08/03/21

110 Old Market St.  
St Martinville, LA 70582

Report #3

TEL: (337) 394-1078

OUTSOURCE FLUID SOLUTIONS LLC.

0.0° 5,494' TVD

Operator				Contractor			County / Parish / Block		Engineer Start Date		24 hr fig.		Drilled Depth							
MAGNOLIA OIL & GAS				PATTERSON			WASHINGTON		07/14/21		1,971 ft		5,494 ft							
Well Name and No.				Rig Name and No.			State		Spud Date		Current ROP		Activity							
ROMMEL UNIT 3H				248			TEXAS		07/14/21		328 ft/hr		Drilling							
Report for				Report for			Field / OCS-G #		Fluid Type		Circulating Rate		Circulating Pressure							
BRANDON PARKS/JAMES DYER				Tool Pusher			GIDDINGS (AC)		OBM		782 gpm		3,447 psi							
MUD PROPERTY SPECIFICATIONS							MUD VOLUME (BBL)		PUMP #1		PUMP #2		RISER BOOSTER							
Weight	PV	YP	E.S.	CaCl2	GELS	HTHP	In Pits	640 bbl	Liner Size	5.25	Liner Size	5.25	Liner Size							
8.8-9.7	10-20	8-20	>350	±275K	<10 <15	<10	In Hole	485 bbl	Stroke	12	Stroke	12	Stroke							
				8/3/21			Active	1125 bbl	bbl/stk	0.0763	bbl/stk	0.0763	bbl/stk	0.0000						
Time Sample Taken				0:30			Storage	2152 bbl	stk/min	122	stk/min	122	stk/min							
Sample Location				pit			Tot. on Location	3277 bbl	gal/min	391	gal/min	391	gal/min 0							
Flowline Temperature °F				132 °F			PHHP = 1573 CIRCULATION DATA n = 0.608 K = 242.063													
Depth (ft)				5,494'			Bit Depth = 5,494 '			Washout = 5%		Pump Efficiency = 95%								
Mud Weight (ppg)				9.1			Drill String Disp.	Volume to Bit	91.8 bbl	Strokes To Bit		1,203	Time To Bit 5 min							
Funnel Vis (sec/qt)				@ 120 °F	43				Bottoms Up Vol.	393.6 bbl	BottomsUp Stks		5,157	BottomsUp Time 21 min						
600 rpm				32				49.0 bbl	Riser Ann. Vol.	-2.6 bbl	Riser Strokes		-34	Riser Circ. Time 0 min						
300 rpm				21			DRILLING ASSEMBLY DATA					SOLIDS CONTROL								
200 rpm				15			Tubulars	OD (in.)	ID (in.)	Length	Top	Unit		Screens	Hours					
100 rpm				12			Drill Pipe	5.000	4.276	4,921'	0'	Shaker 1		140						
6 rpm				6			Hevi Wt	5.000	3.000	274'	4,921'	Shaker 2		140						
3 rpm				5			Collars	6.500	2.375	188'	5,195'	Shaker 3		140						
Plastic Viscosity (cp)				@ 150 °F	11		Dir. BHA	8.000	3.000	111'	5,383'	Desander								
Yield Point (lb/100 ft²)				T0 = 4	10		CASING & HOLE DATA					Desilter								
Gel Strength (lb/100 ft²)				10 sec/10 min	5/8		Casing	OD (in.)	ID (in.)	Depth	Top	Centrifuge 1		6.0						
Gel Strength (lb/100 ft²)				30 min	10		Riser	20		108'		VOLUME ACCOUNTING (bbls)								
HTHP Filtrate (cm/30 min)				@ 300 °F	7.8		Surface	10 3/4	9.950	3,518'	108'	Prev. Total on Location 328.9								
HTHP Cake Thickness (32nds)					2.0		Int. Csg.			108'		Transferred In(+)/Out(-) 2975.0								
Retort Solids Content					10%		Washout 1					Oil Added (+) 116.6								
Corrected Solids (vol%)					7.3%		Washout 2					Barite Added (+) 0.0								
Retort Oil Content					64%		Open Hole Size 10.369 5,494'					Other Product Usage (+) 1.6								
Retort Water Content					26%		ANNULAR GEOMETRY & RHEOLOGY					Water Added (+) 25.0								
O/W Ratio					71:29		annular section	meas. depth	velocity ft/min	flow reg	ECD lb/gal	Left on Cuttings (-) -102.9								
Whole Mud Chlorides (mg/L)					65,800							Centrifuge -40.0								
Water Phase Salinity (ppm)					284,101		0x5	108'	-766.7		9.41	Non-Recoverable Vol. (-) -26.8								
Whole Mud Alkalinity, Pom					2.7		9.95x5	3,518'	259.0	lam	9.60	Est. Total on Location 3277.4								
Excess Lime (lb/bbl)					3.5 ppb		10.369x5	4,921'	232.3	lam	9.83	Est. Losses/Gains (-)/(+) 0.0								
Electrical Stability (volts)					390 v		10.369x5	5,195'	232.3	lam	10.11	BIT HYDRAULICS DATA								
Average Specific Gravity of Solids					2.61		10.369x6.5	5,383'	293.7	turb	10.40	Bit H.S.I.	Bit ΔP	Nozzles (32nds)						
Percent Low Gravity Solids					6.2%		10.369x8	5,494'	440.5	turb	10.71	1.37	231 psi	14	14	14				
ppb Low Gravity Solids					51 ppb							Bit Impact Force	Nozzle Velocity (ft/sec)	14	14	14				
Percent Barite					1.1%								16	16	16					
ppb Barite					16 ppb		BIT DATA		Manuf./Type		UltraSPL613		620 lbs	168						
Estimated Total LCM in System ppb							Size	Depth In	Hours	Footage	ROP ft/hr	Motor/MWD		Calc. Circ. Pressure						
Sample Taken By				Chris Beasley	0	M Washburn	9 7/8	3,523 ft	6.0	1,971 ft	328.5			1,653 psi						
Remarks/Recommendations:							Rig Activity:													
OBM RECEIVED: 2,975 bbls																				
Pretreatment: 55 gal Opti Mul, 55 gal Opti Wet, 5 Bentone 990, 5 Bentone 910.							Rig was skid from the Redwood A1H. Mud in the pits cut from 9.7 PPG to 8.8 PPG. A pretreatment was mixed. BHA #2 was picked up and TIH T/3429'. Drilled float equipment T/3543'. Conditioned and circulated OBM. Performed FIT MW 9.0 EMW 11.6 PPG. PSI 471. Drilled T/5494'. Shakers had some moderate blinding due to sand. Currently drilling ahead. ROP 600 FPH. TQ 13 kFT-LBS. MWD Temp 176 deg.													
Eng. 1: Mike Washburn		Eng. 2: Chris Beasley		WH 1: MIDLAND		WH 2: WH #2		Rig Phone:		Daily Total			Cumulative Cost							
Phone: 936-465-0952		Phone: 903-747-5377		Phone: 432-686-7361		Phone: -					\$6,411.50			\$13,065.85						
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	1	1	1	1	1	INCLUDING 3RD PARTY CHARGES								\$17,465.66		\$24,120.01	







**OUTSOURCE FLUID SOLUTIONS LLC.**

# FLUID VOLUME ACCOUNTING

Operator:	MAGNOLIA OIL & GAS
Rig Name:	248
Well Name:	ROMMEL UNIT 3H

		WEEK 1								WEEK 2								WEEK 3							
		Date	8/3/21	8/4/21	8/5/21	8/6/21	8/7/21	8/8/21	8/9/21	8/10/21	8/11/21	8/12/21	8/13/21	8/14/21	8/15/21	8/16/21	8/17/21	8/18/21	8/19/21	8/20/21	8/21/21	8/22/21	8/23/21		
		Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon			
Grand Totals	Bit Size	9 7/8																							
	Starting Depth	3,523	5,494																						
	Ending Depth	5,494																							
1,971	Footage Drilled	1,971	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
189	New Hole Vol.	189	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
	Starting System Volume	3,304	3,277	3,277	3,277	3,277	3,277	3,277	3,277	3,277	3,277	3,277	3,277	3,277	3,277	3,277	3,277	3,277	3,277	3,277	3,277	3,277			
2	Chemical Additions	2																							
117	Base Fluid Added	117																							
-	Barite Increase																								
-	Weighted Mud Added																								
-	Slurry Added																								
25	Water Added	25																							
-	Added for Washout																								
144	Total Additions	144	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
-	Surface Losses																								
-	Formation Loss																								
104	Mud Loss to Cuttings	104																							
27	Unrecoverable Volume	27																							
40	Centrifuge Losses	40																							
171	Total Losses	171	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
-	Mud Transferred Out																								
3,277	Ending System Volume	3,277	3,277	3,277	3,277	3,277	3,277	3,277	3,277	3,277	3,277	3,277	3,277	3,277	3,277	3,277	3,277	3,277	3,277	3,277	3,277	3,277			
-	Mud Recovered																								
3,304		Comments:								Comments:								Comments:							
		8/3/21 2975 bbls Transferred F/ Redwood A1H. 329 bbls was in the casing.								8/10/21								8/17/21							
		8/4/21								8/11/21								8/18/21							
		8/5/21								8/12/21								8/19/21							
		8/6/21								8/13/21								8/20/21							
		8/7/21								8/14/21								8/21/21							
		8/8/21								8/15/21								8/22/21							
		8/9/21								8/16/21								8/23/21							

08/04/21

110 Old Market St.  
St Martinville, LA 70582

Report #4

TEL: (337) 394-1078

OUTSOURCE FLUID SOLUTIONS LLC.

8.0° 9,345' TVD

Operator <b>MAGNOLIA OIL &amp; GAS</b>				Contractor <b>PATTERSON</b>			County / Parish / Block <b>WASHINGTON</b>			Engineer Start Date <b>07/14/21</b>		24 hr fig. <b>3,951 ft</b>		Drilled Depth <b>9,445 ft</b>				
Well Name and No. <b>ROMMEL UNIT 3H</b>				Rig Name and No. <b>248</b>			State <b>TEXAS</b>			Spud Date <b>07/14/21</b>		Current ROP <b>30 ft/hr</b>		Activity <b>Drilling</b>				
Report for <b>BRANDON PARKS/JAMES DYER</b>				Report for <b>Tool Pusher</b>			Field / OCS-G # <b>GIDDINGS (AC)</b>			Fluid Type <b>OBM</b>		Circulating Rate <b>833 gpm</b>		Circulating Pressure <b>4,660 psi</b>				
MUD PROPERTY SPECIFICATIONS							MUD VOLUME (BBL)			PUMP #1		PUMP #2		RISER BOOSTER				
Weight <b>8.8-9.7</b>	PV <b>10-20</b>	YP <b>8-20</b>	E.S. <b>&gt;350</b>	CaCl2 <b>±275K</b>	GELS <b>&lt;10 &lt;15</b>	HTHP <b>&lt;10</b>	In Pits 547 bbl	In Hole 872 bbl	Liner Size 5.25	Stroke 12	Liner Size 5.25	Stroke 12	Liner Size					
				8/4/21		8/3/21	Active 1419 bbl		bbl/stk 0.0763		bbl/stk 0.0763		bbl/stk 0.0000					
Time Sample Taken				0:30		14:00	Storage <u>1711 bbl</u>		stk/min 130		stk/min 130		stk/min					
Sample Location				pit		shaker	Tot. on Location 3130 bbl		gal/min 417		gal/min 417		gal/min 0					
Flowline Temperature °F				170 °F		155 °F	PHHP = 2266 CIRCULATION DATA n = 0.671 K = 209.200											
Depth (ft)				9,445'		7,850'	Bit Depth = 9,445 '			Washout = 5%		Pump Efficiency = 95%						
Mud Weight (ppg)				9.6		9.6	Drill String Disp.  74.8 bbl	Volume to Bit 162.0 bbl	Strokes To Bit 2,123		Time To Bit 8 min							
Funnel Vis (sec/qt) @ 160 °F				47		46		Bottoms Up Vol. 710.3 bbl	BottomsUp Stks 9,308		BottomsUp Time 36 min							
600 rpm				43		43		Riser Ann. Vol. -2.6 bbl	Riser Strokes -34		Riser Circ. Time 0 min							
300 rpm				27		27	DRILLING ASSEMBLY DATA					SOLIDS CONTROL						
200 rpm				20		19	Tubulars	OD (in.)	ID (in.)	Length	Top	Unit	Screens	Hours				
100 rpm				15		15	Drill Pipe	5.000	4.276	8,872'	0'	Shaker 1	140	24.0				
6 rpm				7		7	Hevi Wt	5.000	3.000	274'	8,872'	Shaker 2	140	24.0				
3 rpm				6		6	Collars	6.500	2.375	188'	9,146'	Shaker 3	140	24.0				
Plastic Viscosity (cp) @ 150 °F				16		16	Dir. BHA	8.000	3.000	111'	9,334'	Desander						
Yield Point (lb/100 ft²) T0 = 5				11		11	CASING & HOLE DATA					Desilter						
Gel Strength (lb/100 ft²) 10 sec/10 min				6/9		6/9	Casing	OD (in.)	ID (in.)	Depth	Top	Centrifuge 1						
Gel Strength (lb/100 ft²) 30 min				12		12	Riser	20		108'		VOLUME ACCOUNTING (bbbs)						
HTHP Filtrate (cm/30 min) @ 300 °F				7.0		6.6	Surface	10 3/4	9.950	3,518'	108'	Prev. Total on Location	3277.4					
HTHP Cake Thickness (32nds)				2.0		2.0	Int. Csg.				108'	Transferred In(+)/Out(-)						
Retort Solids Content				12%		11.5%	Washout 1						Oil Added (+)	172.7				
Corrected Solids (vol%)				9.2%		8.7%	Washout 2						Barite Added (+)	0.0				
Retort Oil Content				60.5%		60.5%	Open Hole Size		10.369	9,445'		Other Product Usage (+)	7.2					
Retort Water Content				27.5%		28%	ANNULAR GEOMETRY & RHEOLOGY					Water Added (+)	20.0					
O/W Ratio				69:31		68:32	annular section	meas. depth	velocity ft/min	flow reg	ECD lb/gal	Left on Cuttings (-)	-206.3					
Whole Mud Chlorides (mg/L)				69,200		69,000	0x5	108'	-817.0		9.63	Centrifuge	-40.7					
Water Phase Salinity (ppm)				282,942		278,718	9.95x5	3,518'	276.0	turb	9.86	Non-Recoverable Vol. (-)	-100.0					
Whole Mud Alkalinity, Pom				2.2		2.5	10.369x5	8,872'	247.5	lam	9.85	Est. Total on Location	3130.2					
Excess Lime (lb/bbl)				2.9 ppb		3.3 ppb	10.369x5	9,872'	247.5	lam	9.85	Est. Losses/Gains (-)/(+)	0.0					
Electrical Stability (volts)				402 v		410 v	10.369x5	9,146'	247.5	lam	9.88	BIT HYDRAULICS DATA						
Average Specific Gravity of Solids				2.83		2.92	10.369x6.5	9,334'	312.9	turb	9.91	Bit H.S.I.	Bit ΔP	Nozzles (32nds)				
Percent Low Gravity Solids				6.6%		5.9%	10.369x8	9,445'	469.3	turb	9.95	1.75	276 psi	14	14	14		
ppb Low Gravity Solids				55 ppb		48 ppb						Bit Impact Force	Nozzle Velocity (ft/sec)	14	14	14		
Percent Barite				2.5%		2.9%								16	16	16		
ppb Barite				36 ppb		41 ppb	BIT DATA		Manuf./Type		UltraSPL613	743 lbs	179					
Estimated Total LCM in System ppb							Size	Depth In	Hours	Footage	ROP ft/hr	Motor/MWD	Calc. Circ. Pressure					
Sample Taken By				Chris Beasley	0	M Washburn	9 7/8	3,523 ft	30.0	5,922 ft	197.4	4,773 psi	7,565 psi					
Remarks/Recommendations:  OBM RECEIVED: 2,975 bbls  Mainting MW 9.6							Rig Activity:  Continue drilling 9-7/8" vertical hole section in Midway shale, cuttings are uniform PDC generated shale pieces, no blocky or oversized cuttings observed. Gradually increase mud wt. from 9.1 to 9.6 with additions of 14.0# heavy fluid from storage frac tanks. Current depth of 9445'. ROP while sliding 20 FPH. MWD Temp 234. Torque 10 while rotating. Adding water to offset evaporation and maintain OWR, adding diesel for oil wetting of solids, OPTIG, gilsonite to lower HTHP, Newphalt for weelbore stability lime and OPTIMUL for emulsion stability. Receiving additional 14.0# OBM from Newpark Madisonville WH.											
Eng. 1: Mike Washburn		Eng. 2: Chris Beasley		WH 1: MIDLAND		WH 2: WH #2		Rig Phone:		Daily Total			Cumulative Cost					
Phone: 936-465-0952		Phone: 903-747-5377		Phone: 432-686-7361		Phone: -					\$14,916.58			\$27,982.43				
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.				\$14,916.58			\$27,982.43		
1	1	1	1	1	1	1	1	1	INCLUDING 3RD PARTY CHARGES				\$32,052.58			\$56,172.59		



### THIRD PARTY COST SHEET

[illegible]

## FLUID VOLUME ACCOUNTING

Operator:	MAGNOLIA OIL & GAS
Rig Name:	248
Well Name:	ROMMEL UNIT 3H

3,304
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08/05/21

110 Old Market St.  
St Martinville, LA 70582

Report #5

TEL: (337) 394-1078

OUTSOURCE FLUID SOLUTIONS LLC.

0.2° 573' TVD

Operator <b>MAGNOLIA OIL &amp; GAS</b>				Contractor <b>PATTERSON</b>			County / Parish / Block <b>WASHINGTON</b>			Engineer Start Date <b>07/14/21</b>			24 hr fig. <b>1,577 ft</b>		Drilled Depth <b>11,022 ft</b>		
Well Name and No. <b>ROMMEL UNIT 3H</b>				Rig Name and No. <b>248</b>			State <b>TEXAS</b>			Spud Date <b>07/14/21</b>			Current ROP <b>0 ft/hr</b>		Activity <b>TRIP</b>		
Report for <b>BRANDON PARKS/JAMES DYER</b>				Report for <b>Tool Pusher</b>			Field / OCS-G # <b>GIDDINGS (AC)</b>			Fluid Type <b>OBM</b>			Circulating Rate <b>833 gpm</b>		Circulating Pressure <b>psi</b>		
MUD PROPERTY SPECIFICATIONS							MUD VOLUME (BBL)			PUMP #1		PUMP #2		RISER BOOSTER			
Weight <b>8.8-9.7</b>	PV <b>10-20</b>	YP <b>8-20</b>	E.S. <b>&gt;350</b>	CaCl2 <b>±280K</b>	GELS <b>&lt;10 &lt;15</b>	HTHP <b>&lt;10</b>	In Pits 541 bbl	In Hole 1095 bbl	Liner Size 5.25	Stroke 12	Liner Size 5.25	Stroke 12	Liner Size				
				8/5/21		8/4/21	Active 564 bbl		bbbl/stk 0.0763		bbbl/stk 0.0763		bbbl/stk 0.0000				
Time Sample Taken				0:30		14:00	Storage <u>1913 bbl</u>		stk/min 130		stk/min 130		stk/min				
Sample Location				pit		shaker	Tot. on Location 3549 bbl		gal/min 417		gal/min 417		gal/min 0				
Flowline Temperature °F						175 °F	PHHP = 0 CIRCULATION DATA n = 0.684 K = 199.903										
Depth (ft)				11,022'		10,645'	Bit Depth = '			Washout = 5%			Pump Efficiency = 95%				
Mud Weight (ppg)				9.6		9.6	Drill String Disp.	Volume to Bit 0.0 bbl	Strokes To Bit 0		Time To Bit 0 min						
Funnel Vis (sec/qt) @ 160 °F				48		46		Bottoms Up Vol. 23.4 bbl	BottomsUp Stks 307		BottomsUp Time 1 min						
600 rpm				45		46		16.9 bbl	Riser Ann. Vol. -2.6 bbl	Riser Strokes -34		Riser Circ. Time 0 min					
300 rpm				28		29	DRILLING ASSEMBLY DATA					SOLIDS CONTROL					
200 rpm				21		22	Tubulars	OD (in.)	ID (in.)	Length	Top	Unit	Screens	Hours			
100 rpm				14		15	Drill Pipe	5.000	4.276	-573'	0'	Shaker 1	140	24.0			
6 rpm				7		8	Hevi Wt	5.000	3.000	274'	-573'	Shaker 2	140	24.0			
3 rpm				6		7	Collars	6.500	2.375	188'	-299'	Shaker 3	140	24.0			
Plastic Viscosity (cp) @ 150 °F				17		17	Dir. BHA	8.000	3.000	111'	-111'	Desander					
Yield Point (lb/100 ft²) T0 = 5				11		12	CASING & HOLE DATA					Desilter					
Gel Strength (lb/100 ft²) 10 sec/10 min				7/11		8/12	Casing	OD (in.)	ID (in.)	Depth	Top	Centrifuge 1					
Gel Strength (lb/100 ft²) 30 min				15		16	Riser	20		108'		VOLUME ACCOUNTING (bbls)					
HTHP Filtrate (cm/30 min) @ 300 °F				7.0		7.0	Surface	10 3/4	9.950	3,518'	108'	Prev. Total on Location	3130.2				
HTHP Cake Thickness (32nds)				2.0		2.0	Int. Csg.				108'	Transferred In(+)/Out(-)	474.0				
Retort Solids Content				12%		12.5%	Washout 1					Oil Added (+)	166.1				
Corrected Solids (vol%)				9.1%		9.7%	Washout 2					Barite Added (+)	0.0				
Retort Oil Content				60.5%		60.5%	Open Hole Size		10.369	11,022'		Other Product Usage (+)	3.3				
Retort Water Content				27.5%		27%	ANNULAR GEOMETRY & RHEOLOGY					Water Added (+)	25.0				
O/W Ratio				69:31		69:31	annular section	meas. depth	velocity ft/min	flow reg	ECD lb/gal	Left on Cuttings (-)	-82.4				
Whole Mud Chlorides (mg/L)				69,800		70,000	0x5	108'	-817.0		9.60	Centrifuge	-40.0				
Water Phase Salinity (ppm)				284,697		289,036	9.95x5	274'	276.0	turb	9.74	Non-Recoverable Vol. (-)	-127.5				
Whole Mud Alkalinity, Pom				2.2		2.1	9.95x6.5	462'	359.9	turb	9.93	Est. Total on Location	3548.9				
Excess Lime (lb/bbl)				2.9 ppb		2.7 ppb	9.95x8	573'	583.5	turb	10.41	Est. Losses/Gains (-)/(+)	0.0				
Electrical Stability (volts)				505 v		525 v	BIT DATA					BIT HYDRAULICS DATA					
Average Specific Gravity of Solids				2.83		2.79	Manuf./Type		UltraSPL613			Bit H.S.I.	Bit ΔP	Nozzles (32nds)			
Percent Low Gravity Solids				6.6%		7.2%						1.75	276 psi	14	14	14	
ppb Low Gravity Solids				55 ppb		60 ppb						Bit Impact Force	Nozzle Velocity (ft/sec)	14	14	14	
Percent Barite				2.5%		2.4%								16	16	16	
ppb Barite				36 ppb		35 ppb						743 lbs	179				
Estimated Total LCM in System ppb							Size	Depth In	Hours	Footage	ROP ft/hr	Motor/MWD	Calc. Circ. Pressure				
Sample Taken By				Chris Beasley	0	P. Blair	9 7/8	3,523 ft	48.0	7,499 ft	156.2	4,773 psi	6,009 psi				
Remarks/Recommendations:  OBM RECEIVED: 2,975 bbls  Mainting MW 9.6							Rig Activity:  Began Intermediate curve at 08:30, 10,561' MD. Drilled T/11022'. Pumped 2 high vis sweeps and circulated hole clean. Flow check, no flow. WOB 30, GPM 814, RPM 30 TQ 18, DIFF 600. TOOH T/2767'. Flow check, no flow. TOOH T/bit'. Plan to run logs.										
Eng. 1: Patrick Blair Phone: 936-465-0952		Eng. 2: Chris Beasley Phone: 903-747-5377		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 1	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.				\$7,751.10		\$35,733.53			
								INCLUDING 3RD PARTY CHARGES				\$23,734.36		\$79,906.95			





### THIRD PARTY COST SHEET

[illegible]

## FLUID VOLUME ACCOUNTING

Operator:	MAGNOLIA OIL & GAS
Rig Name:	248
Well Name:	ROMMEL UNIT 3H

3,778

08/06/21

110 Old Market St.  
St Martinville, LA 70582

Report #6

TEL: (337) 394-1078

OUTSOURCE FLUID SOLUTIONS LLC.

0.0° 0' TVD

Operator <b>MAGNOLIA OIL &amp; GAS</b>				Contractor <b>PATTERSON</b>			County / Parish / Block <b>WASHINGTON</b>			Engineer Start Date <b>07/14/21</b>		24 hr fig. <b>0 ft</b>		Drilled Depth <b>11,022 ft</b>							
Well Name and No. <b>ROMMEL UNIT 3H</b>				Rig Name and No. <b>248</b>			State <b>TEXAS</b>			Spud Date <b>07/14/21</b>		Current ROP <b>0 ft/hr</b>		Activity <b>0</b>							
Report for <b>BRANDON PARKS/JAMES DYER</b>				Report for <b>Tool Pusher</b>			Field / OCS-G # <b>GIDDINGS (AC)</b>			Fluid Type <b>OBM</b>		Circulating Rate <b>833 gpm</b>		Circulating Pressure <b>psi</b>							
MUD PROPERTY SPECIFICATIONS							MUD VOLUME (BBL)			PUMP #1		PUMP #2		RISER BOOSTER							
Weight <b>8.8-9.7</b>	PV <b>10-20</b>	YP <b>8-20</b>	E.S. <b>&gt;350</b>	CaCl2 <b>±280K</b>	GELS <b>&lt;10 &lt;15</b>	HTHP <b>&lt;10</b>	In Pits 544 bbl		Liner Size 5.25		Liner Size 5.25		Liner Size								
				8/6/21		8/5/21	In Hole 1112 bbl		Stroke 12		Stroke 12		Stroke								
							Active 544 bbl		bbl/stk 0.0763		bbl/stk 0.0763		bbl/stk 0.0000								
Time Sample Taken				0:30		14:00	Storage <u>1863 bbl</u>		stk/min 130		stk/min 130		stk/min								
Sample Location				pit		pit	Tot. on Location 3519 bbl		gal/min 417		gal/min 417		gal/min 0								
Flowline Temperature °F							PHHP = 0 <b>CIRCULATION DATA</b> n = 0.666 K = 232.967														
Depth (ft)				11,022'		11,022'	Bit Depth = '			Washout = 5%		Pump Efficiency = 95%									
Mud Weight (ppg)				9.7		9.6	Drill String Disp.	Volume to Bit 0.0 bbl	Strokes To Bit 0		Time To Bit 0 min										
Funnel Vis (sec/qt) @ 92 °F				49		49		Bottoms Up Vol. 0.0 bbl	BottomsUp Stks 0		BottomsUp Time 0 min										
600 rpm				46		46		0.0 bbl	Riser Ann. Vol. 0.0 bbl	Riser Strokes 0		Riser Circ. Time 0 min									
300 rpm				29		29	DRILLING ASSEMBLY DATA					SOLIDS CONTROL									
200 rpm				22		22	Tubulars	OD (in.)	ID (in.)	Length	Top	Unit	Screens	Hours							
100 rpm				15		15	Drill Pipe			0'	0'	Shaker 1	140								
6 rpm				8		8	Hevi Wt				0'	Shaker 2	140								
3 rpm				7		7	Collars				0'	Shaker 3	140								
Plastic Viscosity (cp) @ 150 °F				17		17	Dir. BHA				0'	Desander									
Yield Point (lb/100 ft²) T0 = 6				12		12	CASING & HOLE DATA					Desilter									
Gel Strength (lb/100 ft²) 10 sec/10 min				8/11		8/12	Casing	OD (in.)	ID (in.)	Depth	Top	Centrifuge 1									
Gel Strength (lb/100 ft²) 30 min				15		16	Riser	20			108'	VOLUME ACCOUNTING (bbbs)									
HTHP Filtrate (cm/30 min) @ 300 °F				7.0		7.0	Surface	10 3/4	9.950	3,518'	108'	Prev. Total on Location	3548.8								
HTHP Cake Thickness (32nds)				2.0		2.0	Int. Csg.				108'	Transferred In(+)/Out(-)									
Retort Solids Content				12.5%		12%	Washout 1					Oil Added (+)	0.0								
Corrected Solids (vol%)				9.6%		9.2%	Washout 2					Barite Added (+)	0.0								
Retort Oil Content				60%		61%	Open Hole Size	10.369	11,022'			Other Product Usage (+)	0.0								
Retort Water Content				27.5%		27%	ANNULAR GEOMETRY & RHEOLOGY					Water Added (+)									
O/W Ratio				69:31		69:31	annular section	meas. depth	velocity ft/min	flow reg	ECD lb/gal	Left on Cuttings (-)	0.0								
Whole Mud Chlorides (mg/L)				70,000		70,000						Centrifuge									
Water Phase Salinity (ppm)				285,280		289,036						Non-Recoverable Vol. (-)	-30.1								
Whole Mud Alkalinity, Pom				2.0		2.1						Est. Total on Location	3518.7								
Excess Lime (lb/bbl)				2.6 ppb		2.7 ppb						Est. Losses/Gains (-)/(+)	0.0								
Electrical Stability (volts)				510 v		511 v						BIT HYDRAULICS DATA									
Average Specific Gravity of Solids				2.85		2.90						Bit H.S.I.	Bit ΔP	Nozzles (32nds)							
Percent Low Gravity Solids				6.9%		6.3%						1.77	279 psi	14	14	14					
ppb Low Gravity Solids				57 ppb		52 ppb						Bit Impact Force	Nozzle Velocity (ft/sec)	14	14	14					
Percent Barite				2.8%		2.9%								16	16	16					
ppb Barite				40 ppb		41 ppb	BIT DATA		Manuf./Type		UltraSPL613	751 lbs	179								
Estimated Total LCM in System ppb							Size	Depth In	Hours	Footage	ROP ft/hr	Motor/MWD	Calc. Circ. Pressure								
Sample Taken By				Chris Beasley	0	P. Blair	9 7/8	3,523 ft	48.0	7,499 ft	156.2	4,773 psi	5,121 psi								
Remarks/Recommendations:  OBM RECEIVED: 2,975 bbls  Mainting MW 9.6							Rig Activity:    Finished POOH T/BHA, flow check, no flow. L/D 1 joint HWDP, rack back 3 stands HWDP and 2- 6" Drill collars. Break/L/D bit and M/U new motor and rack back. PJSM with wireline crew, R/U same. Attempt to M/U donut, wrong size. Wait on tool. Currently running wireline logs at report time.														
Eng. 1: Patrick Blair		Eng. 2: Chris Beasley		WH 1: MIDLAND		WH 2: WH #2		Rig Phone:				Daily Total		Cumulative Cost							
Phone: 936-465-0952		Phone: 903-747-5377		Phone: 432-686-7361		Phone: -						\$3,990.00		\$39,723.53							
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.							\$3,990.00		\$83,896.95			
1	1	1	1	1	1	1	1	1								INCLUDING 3RD PARTY CHARGES		\$3,990.00		\$83,896.95	



### THIRD PARTY COST SHEET

[illegible]

# FLUID VOLUME ACCOUNTING

Operator:	MAGNOLIA OIL & GAS
Rig Name:	248
Well Name:	ROMMEL UNIT 3H

	Date	WEEK 1							WEEK 2							WEEK 3						
		8/3/21	8/4/21	8/5/21	8/6/21	8/7/21	8/8/21	8/9/21	8/10/21	8/11/21	8/12/21	8/13/21	8/14/21	8/15/21	8/16/21	8/17/21	8/18/21	8/19/21	8/20/21	8/21/21	8/22/21	8/23/21
		Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon
Grand Totals	Bit Size	9 7/8	9 7/8	9 7/8	9 7/8																	
	Starting Depth	3,523	5,494	9,445	11,022	11,022																
	Ending Depth	5,494	9,445	11,022	11,022																	
7,499	Footage Drilled	1,971	3,951	1,577	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
712	New Hole Vol.	189	374	149	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Starting System Volume	3,304	3,277	3,130	3,549	3,519	3,519	3,519	3,519	3,519	3,519	3,519	3,519	3,519	3,519	3,519	3,519	3,519	3,519	3,519	3,519	3,519
11	Chemical Additions	2	7	2																		
456	Base Fluid Added	117	173	166																		
-	Barite Increase																					
474	Weighted Mud Added			474																		
-	Slurry Added																					
70	Water Added	25	20	25																		
-	Added for Washout																					
1,011	Total Additions	144	200	667	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	Surface Losses																					
-	Formation Loss																					
391	Mud Loss to Cuttings	104	206	81																		
285	Unrecoverable Volume	27	100	128	30																	
121	Centrifuge Losses	40	41	40																		
797	Total Losses	171	347	249	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	Mud Transferred Out																					
3,519	Ending System Volume	3,277	3,130	3,549	3,519	3,519	3,519	3,519	3,519	3,519	3,519	3,519	3,519	3,519	3,519	3,519	3,519	3,519	3,519	3,519	3,519	3,519
-	Mud Recovered																					
3,778	Comments:								Comments:							Comments:						
	8/3/21 2975 bbls Transferred F/ Redwood A1H. 329 bbls was in the casing.								8/10/21							8/17/21						
	8/4/21								8/11/21							8/18/21						
	8/5/21 474 BBLS 14 # received from mud plant								8/12/21							8/19/21						
	8/6/21								8/13/21							8/20/21						
	8/7/21								8/14/21							8/21/21						
	8/8/21								8/15/21							8/22/21						
8/9/21								8/16/21							8/23/21							

08/07/21

110 Old Market St.  
St Martinville, LA 70582

Report #7

TEL: (337) 394-1078

OUTSOURCE FLUID SOLUTIONS LLC.

0.0°

0' TVD

Operator <b>MAGNOLIA OIL &amp; GAS</b>				Contractor <b>PATTERSON</b>			County / Parish / Block <b>WASHINGTON</b>		Engineer Start Date <b>07/14/21</b>		24 hr fig. <b>0 ft</b>		Drilled Depth <b>11,022 ft</b>										
Well Name and No. <b>ROMMEL UNIT 3H</b>				Rig Name and No. <b>248</b>			State <b>TEXAS</b>		Spud Date <b>07/14/21</b>		Current ROP <b>0 ft/hr</b>		Activity <b>0</b>										
Report for <b>Kevin Burt/Kevin Cooper</b>				Report for <b>Tool Pusher</b>			Field / OCS-G # <b>GIDDINGS (AC)</b>		Fluid Type <b>OBM</b>		Circulating Rate <b>0 gpm</b>		Circulating Pressure <b>psi</b>										
MUD PROPERTY SPECIFICATIONS							MUD VOLUME (BBL)		PUMP #1		PUMP #2		RISER BOOSTER										
Weight <b>8.8-9.7</b>		PV <b>10-20</b>	YP <b>8-20</b>	E.S. <b>&gt;350</b>	CaCl2 <b>±280K</b>	GELS <b>&lt;10 &lt;15</b>	HTHP <b>&lt;10</b>	In Pits 662 bbl In Hole 507 bbl Active 662 bbl Storage <u>2299 bbl</u> Tot. on Location 3468 bbl		Liner Size 5.25 Stroke 12 bbl/stk 0.0763 stk/min gal/min 0		Liner Size 5.25 Stroke 12 bbl/stk 0.0763 stk/min gal/min 0		Liner Size Stroke bbl/stk 0.0000 stk/min gal/min 0									
				8/7/21		8/6/21																	
Time Sample Taken				0:30		14:00																	
Sample Location				pit		pit																	
Flowline Temperature °F							PHHP = 0 CIRCULATION DATA n = 0.684 K = 199.903																
Depth (ft)				11,022'		11,022'	Bit Depth = '			Washout = 5%		Pump Efficiency = 95%											
Mud Weight (ppg)				9.6		9.7	Drill String Disp.  0.0 bbl	Volume to Bit 0.0 bbl Bottoms Up Vol. 0.0 bbl TotalCirc.Vol. 662.0 bbl		Strokes To Bit  BottomsUp Stks  TotalCirc.Stks		Time To Bit  BottomsUp Time  Total Circ. Time											
Funnel Vis (sec/qt) @ 92 °F				48		49																	
600 rpm				45		46																	
300 rpm				28		29	DRILLING ASSEMBLY DATA					SOLIDS CONTROL											
200 rpm				21		22	Tubulars	OD (in.)	ID (in.)	Length	Top	Unit	Screens	Hours									
100 rpm				14		15	Drill Pipe			0'	0'	Shaker 1	140	24.0									
6 rpm				7		8	Hevi Wt				0'	Shaker 2	140	24.0									
3 rpm				6		7	Collars				0'	Shaker 3	140	24.0									
Plastic Viscosity (cp) @ 150 °F				17		17	Dir. BHA				0'	Desander											
Yield Point (lb/100 ft²) T0 = 5				11		12	CASING & HOLE DATA								Desilter								
Gel Strength (lb/100 ft²) 10 sec/10 min				7/10		8/12	Casing	OD (in.)	ID (in.)	Depth	Top	Centrifuge 1											
Gel Strength (lb/100 ft²) 30 min				14		16	Riser	20				VOLUME ACCOUNTING (bbIs)											
HTHP Filtrate (cm/30 min) @ 300 °F				7.0		7.0	Surface	10 3/4	9.950	3,518'	0'	Prev. Total on Location	3518.7										
HTHP Cake Thickness (32nds)				2.0		2.0	Int. Csg.	7 5/8	6.875	11,014'	0'	Transferred In(+)/Out(-)											
Retort Solids Content				11.5%		12%	Washout 1					Oil Added (+)	38.0										
Corrected Solids (vol%)				8.6%		9.2%	Washout 2					Barite Added (+)	0.0										
Retort Oil Content				61.5%		61%	Open Hole Size	10.369	11,022'			Other Product Usage (+)	0.0										
Retort Water Content				27%		27%	ANNULAR GEOMETRY & RHEOLOGY					Water Added (+)											
O/W Ratio				69:31		69:31	annular section	meas. depth	velocity ft/min	flow reg	ECD lb/gal	Left on Cuttings (-)	0.0										
Whole Mud Chlorides (mg/L)				69,800		70,000						Centrifuge											
Water Phase Salinity (ppm)				288,448		289,036									Non-Recoverable Vol. (-)	-89.2							
Whole Mud Alkalinity, Pom				2.0		2.1									Est. Total on Location	3467.5							
Excess Lime (lb/bbl)				2.6 ppb		2.7 ppb									Est. Losses/Gains (-)/(+)	0.0							
Electrical Stability (volts)				506 v		511 v									BIT HYDRAULICS DATA								
Average Specific Gravity of Solids				2.96		2.96									Bit H.S.I.	Bit ΔP	Nozzles (32nds)						
Percent Low Gravity Solids				5.6%		6%									0.00	psi		14	14	14			
ppb Low Gravity Solids				46 ppb		49 ppb									Bit Impact Force	Nozzle Velocity (ft/sec)		14	14	14			
Percent Barite				3%		3.2%												16	16	16			
ppb Barite				43 ppb		46 ppb																	
Estimated Total LCM in System ppb															BIT DATA		Manuf./Type		UltraSPL613		0 lbs		
Sample Taken By				Chris Beasley	0	P. Blair	Size	Depth In	Hours	Footage	ROP ft/hr	Motor/MWD		Calc. Circ. Pressure									
Remarks/Recommendations:  OBM RECEIVED: 2,975 bbls  OBM TRANSFERRED: 3468 bbls				Rig Activity:  Intermediate casing was ran to 11014'. R/D casing equipment and R/U cement. Circulated 1.5 casing capacity. Pumped 40 BBLS weighted spacer, 325 BBLS of lead cement, 78 BBLS tail. Drop plug and Displaced with 502 BBLS OBM. Slowed last 20 BBLS bump plug 50 PSI over. 47 BBLS of spacer/cement dumped. R/D cement head, cir iron, landing joint and casing bells/elevators. R/U stream flo wash tool, M/U pack off and test T/5K. Pull test 20k over. Cut & slip 5 wraps of drill line. Change out casing rams T/variables on stack. Break stack and sescure w well cap. Prepare to Skid.																			
Eng. 1: Patrick Blair Phone: 936-465-0952				Eng. 2: Chris Beasley Phone: 903-747-5377		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 1 1 1 1 1 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.												\$5,605.00		\$45,328.53					
												INCLUDING 3RD PARTY CHARGES		\$9,312.36		\$93,209.31							





### THIRD PARTY COST SHEET

[illegible]

## FLUID VOLUME ACCOUNTING

Operator:	MAGNOLIA OIL & GAS
Rig Name:	248
Well Name:	ROMMEL UNIT 3H

		WEEK 1								WEEK 2								WEEK 3							
		Date	8/3/21	8/4/21	8/5/21	8/6/21	8/7/21	8/8/21	8/9/21	8/10/21	8/11/21	8/12/21	8/13/21	8/14/21	8/15/21	8/16/21	8/17/21	8/18/21	8/19/21	8/20/21	8/21/21	8/22/21	8/23/21		
		Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon			
Grand Totals	Bit Size	9 7/8	9 7/8	9 7/8	9 7/8																				
	Starting Depth	3,523	5,494	9,445	11,022	11,022	11,022																		
	Ending Depth	5,494	9,445	11,022	11,022	11,022																			
7,499	Footage Drilled	1,971	3,951	1,577	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
712	New Hole Vol.	189	374	149	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
	Starting System Volume	3,304	3,277	3,130	3,549	3,519	3,468	3,468	3,468	3,468	3,468	3,468	3,468	3,468	3,468	3,468	3,468	3,468	3,468	3,468	3,468	3,468			
11	Chemical Additions	2	7	2																					
494	Base Fluid Added	117	173	166		38																			
-	Barite Increase																								
474	Weighted Mud Added			474																					
-	Slurry Added																								
70	Water Added	25	20	25																					
-	Added for Washout																								
1,049	Total Additions	144	200	667	-	38	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
-	Surface Losses																								
-	Formation Loss																								
391	Mud Loss to Cuttings	104	206	81																					
374	Unrecoverable Volume	27	100	128	30	89																			
121	Centrifuge Losses	40	41	40																					
886	Total Losses	171	347	249	30	89	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
-	Mud Transferred Out																								
3,468	Ending System Volume	3,277	3,130	3,549	3,519	3,468	3,468	3,468	3,468	3,468	3,468	3,468	3,468	3,468	3,468	3,468	3,468	3,468	3,468	3,468	3,468	3,468			
-	Mud Recovered																								
3,778	Comments:								Comments:								Comments:								
	8/3/21	2975 bbls Transferred F/ Redwood A1H. 329 bbls was in the casing.							8/10/21								8/17/21								
	8/4/21								8/11/21								8/18/21								
	8/5/21	474 BBLS 14 # received from mud plant							8/12/21								8/19/21								
	8/6/21								8/13/21								8/20/21								
	8/7/21	2961 BBLS Transferred T/ Rommel Unit 4H. 507 Left in casing.							8/14/21								8/21/21								
	8/8/21								8/15/21								8/22/21								
	8/9/21								8/16/21								8/23/21								

08/12/21

110 Old Market St.  
St Martinville, LA 70582

Report #8

TEL: (337) 394-1078

OUTSOURCE FLUID SOLUTIONS LLC.

0.0°

0' TVD

Operator				Contractor			County / Parish / Block		Engineer Start Date		24 hr fig.		Drilled Depth						
MAGNOLIA OIL & GAS				PATTERSON			WASHINGTON		07/14/21		0 ft		11,022 ft						
Well Name and No.				Rig Name and No.			State		Spud Date		Current ROP		Activity						
ROMMEL UNIT 3H				248			TEXAS		07/14/21		0 ft/hr		Tripping						
Report for				Report for			Field / OCS-G #		Fluid Type		Circulating Rate		Circulating Pressure						
Kevin Burt/Kevin Cooper				Tool Pusher			GIDDINGS (AC)		OBM		0 gpm		psi						
MUD PROPERTY SPECIFICATIONS							MUD VOLUME (BBL)		PUMP #1		PUMP #2		RISER BOOSTER						
Weight	PV	YP	E.S.	CaCl2	GELS	HTHP	In Pits	575 bbl	Liner Size	4.75	Liner Size	4.75	Liner Size						
8.8-10	10-20	6-20	>350	±330K	<10 <15	<10	In Hole	506 bbl	Stroke	12	Stroke	12	Stroke						
				8/12/21		8/11/21	Active	575 bbl	bbl/stk	0.0625	bbl/stk	0.0625	bbl/stk 0.0000						
Time Sample Taken				0:30		13:00	Storage	2294 bbl	stk/min	0	stk/min	0	stk/min						
Sample Location				pit		pit	Tot. on Location	3375 bbl	gal/min	0	gal/min	0	gal/min 0						
Flowline Temperature °F							PHHP = 0 CIRCULATION DATA n = 0.715 K = 230.783												
Depth (ft)				11,022'		11,022'	Bit Depth = '			Washout = 5%		Pump Efficiency = 95%							
Mud Weight (ppg)				10.2		9.9	Drill String Disp.	Volume to Bit	0.0 bbl	Strokes To Bit		Time To Bit							
Funnel Vis (sec/qt)				@ 113 °F	80	44		Bottoms Up Vol.	0.0 bbl	BottomsUp Stks		BottomsUp Time							
600 rpm				64		36		0.0 bbl	TotalCirc.Vol.	575.0 bbl	TotalCirc.Stks		Total Circ. Time						
300 rpm				39		21	DRILLING ASSEMBLY DATA					SOLIDS CONTROL							
200 rpm				30		15	Tubulars	OD (in.)	ID (in.)	Length	Top	Unit		Screens	Hours				
100 rpm				20		9	Drill Pipe	0'			0'	Shaker 1		170	0.0				
6 rpm				8		5	Hevi Wt				0'	Shaker 2		170	0.0				
3 rpm				7		4	Collars				0'	Shaker 3		170	0.0				
Plastic Viscosity (cp)				@ 150 °F	25	15	Dir. BHA				0'	Desander							
Yield Point (lb/100 ft²)				T0 = 6	14	6	CASING & HOLE DATA					Desilter							
Gel Strength (lb/100 ft²)				10 sec/10 min	9/10	6/10	Casing	OD (in.)	ID (in.)	Depth	Top	Centrifuge 1							
Gel Strength (lb/100 ft²)				30 min	12	13	Riser	20			VOLUME ACCOUNTING (bbls)								
HTHP Filtrate (cm/30 min)				@ 300 °F	5.6	6.8	Surface	10 3/4	9.950	3,518'	0'	Prev. Total on Location 3467.5							
HTHP Cake Thickness (32nds)					2.0	2.0	Int. Csg.	7 5/8	6.875	11,014'	0'	Transferred In(+)/Out(-) 2915.0							
Retort Solids Content					14.5%	13.5%	Washout 1					Oil Added (+) 1.3							
Corrected Solids (vol%)					11.7%	10.6%	Washout 2					Barite Added (+) 0.0							
Retort Oil Content					60.5%	64.5%	Open Hole Size 0.000 11,022'					Other Product Usage (+) 5.3							
Retort Water Content					25%	22%	ANNULAR GEOMETRY & RHEOLOGY					Water Added (+)							
O/W Ratio					71:29	75:25	annular section	meas. depth	velocity ft/min	flow reg	ECD lb/gal	Left on Cuttings (-) 0.0							
Whole Mud Chlorides (mg/L)					68,000	70,000						Transferred Out -2960.0							
Water Phase Salinity (ppm)					298,993	332,860						Non-Recoverable Vol. (-) -54.5							
Whole Mud Alkalinity, Pom					3.5	1.8						Est. Total on Location 3374.7							
Excess Lime (lb/bbl)					4.6 ppb	2.3 ppb						Est. Losses/Gains (-)/(+) 0.0							
Electrical Stability (volts)					446 v	609 v						BIT HYDRAULICS DATA							
Average Specific Gravity of Solids					3.07	3.00						Bit H.S.I.	Bit ΔP	Nozzles (32nds)					
Percent Low Gravity Solids					6.9%	6.7%							psi	18	18	18			
ppb Low Gravity Solids					57 ppb	55 ppb						Bit Impact Force	Nozzle Velocity (ft/sec)	18	18	18			
Percent Barite					4.8%	3.9%													
ppb Barite					69 ppb	56 ppb	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	0	P. Blair													
Remarks/Recommendations:							Rig Activity:												
OBM RECEIVED: 3422 bls																			
OBM TRANSFERRED: 2915 bls transferred to 3H							Skid rig to Rommel Unit 3H. Nipple up and test BOPs. Prepare rig floor to pick up BHA and 4.5" DP. Make up directional tools and begin picking up DP singles at report time. Weighed up active system to 10.0ppg and added pretreatment of Opti G, NewPhalt, Bentone 910/990, Mul, & Lime.												
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: -					\$6,829.15			\$52,157.68					
W 2	P 2	Y 1	E 1	C 0	g 1	G 1	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.					\$6,829.15			\$100,038.46		
								INCLUDING 3RD PARTY CHARGES					\$6,829.15			\$100,038.46			



### THIRD PARTY COST SHEET

[illegible]

**OUTSOURCE FLUID SOLUTIONS LLC.**

## FLUID VOLUME ACCOUNTING

Operator:	MAGNOLIA OIL & GAS
Rig Name:	248
Well Name:	ROMMEL UNIT 3H

		WEEK 1								WEEK 2							WEEK 3						
		Date	8/3/21	8/4/21	8/5/21	8/6/21	8/7/21	8/8/21	8/9/21	8/10/21	8/11/21	8/12/21	8/13/21	8/14/21	8/15/21	8/16/21	8/17/21	8/18/21	8/19/21	8/20/21	8/21/21	8/22/21	8/23/21
		Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	
Grand Totals	Bit Size	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	3,523	5,494	9,445	11,022	11,022	11,022	11,022	11,022	11,022	11,022	11,022											
	Ending Depth	5,494	9,445	11,022	11,022	11,022	11,022	11,022	11,022	11,022	11,022												
7,499	Footage Drilled	1,971	3,951	1,577	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
712	New Hole Vol.	189	374	149	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Starting System Volume	3,304	3,277	3,130	3,549	3,519	507	3,422	507	507	507	3,375	3,375	3,375	3,375	3,375	3,375	3,375	3,375	3,375	3,375	3,375	
17	Chemical Additions	2	7	2							6												
495	Base Fluid Added	117	173	166		38					1												
-	Barite Increase																						
6,304	Weighted Mud Added			474			2,915				2,915												
-	Slurry Added																						
70	Water Added	25	20	25																			
-	Added for Washout																						
6,886	Total Additions	144	200	667	-	38	2,915	-	-	-	2,922	-	-	-	-	-	-	-	-	-	-	-	
-	Surface Losses																						
-	Formation Loss																						
391	Mud Loss to Cuttings	104	206	81																			
428	Unrecoverable Volume	27	100	128	30	89					54												
121	Centrifuge Losses	40	41	40																			
940	Total Losses	171	347	249	30	89	-	-	-	-	54	-	-	-	-	-	-	-	-	-	-	-	
5,876	Mud Transferred Out					2,961		2,915															
3,375	Ending System Volume	3,277	3,130	3,549	3,519	507	3,422	507	507	507	3,375	3,375	3,375	3,375	3,375	3,375	3,375	3,375	3,375	3,375	3,375	3,375	
-	Mud Recovered																						
3,732	Comments:								Comments:							Comments:							
	8/3/21	2975 bbls Transferred F/ Redwood A1H. 329 bbls was in the casing.							8/10/21							8/17/21							
	8/4/21								8/11/21							8/18/21							
	8/5/21	474 BBLS 14 # received from mud plant							8/12/21 Lost 54bbls to cement job, skid, and line/stack flushing.							8/19/21							
	8/6/21								8/13/21							8/20/21							
	8/7/21	2961 BBLS Transferred T/ Rommel Unit 4H. 507 Left in casing.							8/14/21							8/21/21							
	8/8/21								8/15/21							8/22/21							
	8/9/21								8/16/21							8/23/21							

08/13/21

110 Old Market St.  
St Martinville, LA 70582

Report #9

TEL: (337) 394-1078

OUTSOURCE FLUID SOLUTIONS LLC.

16.4° 10,978' TVD

Operator <b>MAGNOLIA OIL &amp; GAS</b>				Contractor <b>PATTERSON</b>			County / Parish / Block <b>WASHINGTON</b>			Engineer Start Date <b>07/14/21</b>		24 hr fig. <b>56 ft</b>		Drilled Depth <b>11,078 ft</b>					
Well Name and No. <b>ROMMEL UNIT 3H</b>				Rig Name and No. <b>248</b>			State <b>TEXAS</b>			Spud Date <b>07/14/21</b>		Current ROP <b>152 ft/hr</b>		Activity <b>Drilling</b>					
Report for <b>Kevin Burt/Kevin Cooper</b>				Report for <b>Tool Pusher</b>			Field / OCS-G # <b>GIDDINGS (AC)</b>			Fluid Type <b>OBM</b>		Circulating Rate <b>357 gpm</b>		Circulating Pressure <b>4,160 psi</b>					
MUD PROPERTY SPECIFICATIONS							MUD VOLUME (BBL)			PUMP #1		PUMP #2		RISER BOOSTER					
Weight <b>8.8-10.2</b>	PV <b>10-20</b>	YP <b>6-20</b>	E.S. <b>&gt;350</b>	CaCl2 <b>±290K</b>	GELS <b>&lt;10 &lt;15</b>	HTHP <b>&lt;10</b>	In Pits 652 bbl		Liner Size 4.75		Liner Size 4.75		Liner Size						
				8/13/21		8/12/21	In Hole 447 bbl		Stroke 12		Stroke 12		Stroke						
							Active 1099 bbl		bbl/stk 0.0625		bbl/stk 0.0625		bbl/stk 0.0000						
Time Sample Taken				0:30		12:00	Storage <u>2294 bbl</u>		stk/min 68		stk/min 68		stk/min						
Sample Location				pit		pit	Tot. on Location 3393 bbl		gal/min 178		gal/min 178		gal/min 0						
Flowline Temperature °F							PHHP = 866 <b>CIRCULATION DATA</b> n = 0.745 K = 181.424												
Depth (ft)				11,022'		11,022'	Bit Depth = 11,078 '			Washout = 5%		Pump Efficiency = 95%							
Mud Weight (ppg)				10.1		10.1	Drill String Disp.  62.1 bbl	Volume to Bit 156.7 bbl	Strokes To Bit 2,508		Time To Bit 18 min								
Funnel Vis (sec/qt) @ 113 °F				72		56		Bottoms Up Vol. 290.1 bbl	BottomsUp Stks 4,644		BottomsUp Time 34 min								
600 rpm				62		67		TotalCirc.Vol. 1098.8 bbl	TotalCirc.Stks 17,590		Total Circ. Time 129 min								
300 rpm				37		39	DRILLING ASSEMBLY DATA					SOLIDS CONTROL							
200 rpm				28		29	Tubulars	OD (in.)	ID (in.)	Length	Top	Unit	Screens	Hours					
100 rpm				19		18	Drill Pipe	4.500	3.826	10,861'	0'	Shaker 1	170	2.0					
6 rpm				7		7	Hevi Wt	4.500	3.826	114'	10,861'	Shaker 2	170	2.0					
3 rpm				6		6	Collars	5.250	2.688	70'	10,975'	Shaker 3	170	2.0					
Plastic Viscosity (cp) @ 150 °F				25		28	Dir. BHA	5.500	2.000	33'	11,045'	Desander							
Yield Point (lb/100 ft²) T0 = 5				12		11	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							
Gel Strength (lb/100 ft²) 30 min				12		14	Riser	20						VOLUME ACCOUNTING (bbbls)					
HTHP Filtrate (cm/30 min) @ 300 °F				5.4		5.6	Surface	10 3/4	9.950	3,518'	0'	Prev. Total on Location	3374.7						
HTHP Cake Thickness (32nds)				2.0		2.0	Int. Csg.	7 5/8	6.875	11,014'	0'	Transferred In(+)/Out(-)							
Retort Solids Content				14.5%		14%	Washout 1					Oil Added (+)	2.6						
Corrected Solids (vol%)				11.6%		11.4%	Washout 2					Barite Added (+)	34.8						
Retort Oil Content				60.5%		61%	Open Hole Size 7.088 11,078'					Other Product Usage (+)	15.9						
Retort Water Content				25%		25%	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 (-)	-5.5						
Whole Mud Chlorides (mg/L)				70,000		65,000						Transferred Out							
Water Phase Salinity (ppm)				305,104		289,622						Non-Recoverable Vol. (-)	-29.8						
Whole Mud Alkalinity, Pom				2.0		2.8	6.875x4.5	10,861'	323.7	turb	11.18	Est. Total on Location	3392.8						
Excess Lime (lb/bbl)				2.6 ppb		3.6 ppb	6.875x4.5	10,975'	323.7	turb	11.32	Est. Losses/Gains (-)/(+)	0.0						
Electrical Stability (volts)				446 v		454 v	6.875x5.25	11,014'	443.8	turb	11.46	BIT HYDRAULICS DATA							
Average Specific Gravity of Solids				3.01		3.11	7.088x5.25	11,045'	385.6	turb	11.60	Bit H.S.I.	Bit ΔP	Nozzles (32nds)					
Percent Low Gravity Solids				7.2%		6.5%	7.088x5.5	11,078'	437.5	turb	11.74	0.31	53 psi	18	18	18			
ppb Low Gravity Solids				60 ppb		53 ppb						Bit Impact Force	Nozzle Velocity (ft/sec)	18	18	18			
Percent Barite				4.3%		4.9%													
ppb Barite				62 ppb		70 ppb	BIT DATA		Manuf./Type		Security / PDC	144 lbs	77						
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	6 3/4	11,022 ft	1.0	56 ft	56.0	2,536 psi	4,160 psi						
Remarks/Recommendations:  TOTAL OBM RECEIVED: 3422 bls  LCM SWEEPS: 10bls w/ 10ppb MagmaFiber, 10ppb NewCarb M, & 10ppb NewPhalt.							Rig Activity:  TIH picking up singles to 2000'. POOH wet to install reamer above BHA. Continue TIH picking up singles until cement was tagged at 10,883'. Drill out cement and float equipment to 11,032' (10' of new formation). Perform FIT to 13.0ppg EMW (good test). Currently drilling ahead at 11,078'. Maintaining MW 10.0ppg and treating active system with Opti G, NewPhalt, CaCl, Bentone 910/990, Mul, WA, & Lime. TORQUE 7800, GAS 43, BHT 225 F.												
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: -						\$10,041.49		\$62,199.17					
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	2	1	1	2	1	1	1	1	INCLUDING 3RD PARTY CHARGES							\$10,041.49		\$110,079.95	





### THIRD PARTY COST SHEET

[illegible]

**OUTSOURCE FLUID SOLUTIONS LLC.**

## FLUID VOLUME ACCOUNTING

Operator:	MAGNOLIA OIL & GAS
Rig Name:	248
Well Name:	ROMMEL UNIT 3H

		WEEK 1							WEEK 2							WEEK 3							
		Date	8/3/21	8/4/21	8/5/21	8/6/21	8/7/21	8/8/21	8/9/21	8/10/21	8/11/21	8/12/21	8/13/21	8/14/21	8/15/21	8/16/21	8/17/21	8/18/21	8/19/21	8/20/21	8/21/21	8/22/21	8/23/21
			Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon
Grand Totals	Bit Size	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	6 3/4										
	Starting Depth	3,523	5,494	9,445	11,022	11,022	11,022	11,022	11,022	11,022	11,022	11,022	11,022	11,022	11,078								
	Ending Depth	5,494	9,445	11,022	11,022	11,022	11,022	11,022	11,022	11,022	11,022	11,022	11,022	11,078									
7,555	Footage Drilled	1,971	3,951	1,577	-	-	-	-	-	-	-	-	56	-	-	-	-	-	-	-	-	-	-
715	New Hole Vol.	189	374	149	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-
	Starting System Volume	3,304	3,277	3,130	3,549	3,519	507	3,422	507	507	507	3,375	3,393	3,393	3,393	3,393	3,393	3,393	3,393	3,393	3,393	3,393	3,393
20	Chemical Additions	2	7	2								6	3										
511	Base Fluid Added	117	173	166		38						1	16										
35	Barite Increase												35										
6,304	Weighted Mud Added			474				2,915				2,915											
-	Slurry Added																						
70	Water Added	25	20	25																			
-	Added for Washout																						
6,940	Total Additions	144	200	667	-	38	2,915	-	-	-	-	2,922	54	-	-	-	-	-	-	-	-	-	-
-	Surface Losses																						
-	Formation Loss																						
397	Mud Loss to Cuttings	104	206	81									6										
428	Unrecoverable Volume	27	100	128	30	89						54											
151	Centrifuge Losses	40	41	40									30										
976	Total Losses	171	347	249	30	89	-	-	-	-	-	54	36	-	-	-	-	-	-	-	-	-	-
5,876	Mud Transferred Out					2,961		2,915															
3,393	Ending System Volume	3,277	3,130	3,549	3,519	507	3,422	507	507	507	3,375	3,393	3,393	3,393	3,393	3,393	3,393	3,393	3,393	3,393	3,393	3,393	3,393
-	Mud Recovered																						
3,732	Comments:								Comments:							Comments:							
	8/3/21	2975 bbls Transferred F/ Redwood A1H. 329 bbls was in the casing.							8/10/21							8/17/21							
	8/4/21								8/11/21							8/18/21							
	8/5/21	474 BBLS 14 # received from mud plant							8/12/21 Lost 54bbls to cement job, skid, and line/stack flushing.							8/19/21							
	8/6/21								8/13/21 Lost 6bbls to MOC of new hole drilled. Lost additional 30bbls to tripping 2000' wet to pick up reamer and to shakers while drilling out cement.							8/20/21							
	8/7/21	2961 BBLS Transferred T/ Rommel Unit 4H. 507 Left in casing.							8/14/21							8/21/21							
	8/8/21								8/15/21							8/22/21							
8/9/21								8/16/21							8/23/21								

08/14/21

110 Old Market St.  
St Martinville, LA 70582

Report #10

TEL: (337) 394-1078

OUTSOURCE FLUID SOLUTIONS LLC.

8.5° 6,429' TVD

Operator <b>MAGNOLIA OIL &amp; GAS</b>				Contractor <b>PATTERSON</b>			County / Parish / Block <b>WASHINGTON</b>			Engineer Start Date <b>07/14/21</b>		24 hr fig. <b>684 ft</b>		Drilled Depth <b>11,762 ft</b>					
Well Name and No. <b>ROMMEL UNIT 3H</b>				Rig Name and No. <b>248</b>			State <b>TEXAS</b>			Spud Date <b>07/14/21</b>		Current ROP <b>0 ft/hr</b>		Activity <b>POOH</b>					
Report for <b>Kevin Burt/Kevin Cooper</b>				Report for <b>Tool Pusher</b>			Field / OCS-G # <b>GIDDINGS (AC)</b>			Fluid Type <b>OBM</b>		Circulating Rate <b>0 gpm</b>		Circulating Pressure <b>psi</b>					
MUD PROPERTY SPECIFICATIONS							MUD VOLUME (BBL)			PUMP #1		PUMP #2		RISER BOOSTER					
Weight <b>8.8-10.2</b>	PV <b>10-20</b>	YP <b>6-20</b>	E.S. <b>&gt;350</b>	CaCl2 <b>±290K</b>	GELS <b>&lt;10 &lt;15</b>	HTHP <b>&lt;10</b>	In Pits 565 bbl	In Hole 505 bbl	Liner Size 4.75	Stroke 12	Liner Size 4.75	Stroke 12	Liner Size						
				8/14/21		8/13/21	Active 826 bbl		bbl/stk 0.0625		bbl/stk 0.0625		bbl/stk 0.0000						
Time Sample Taken				0:30		12:00	Storage <u>2268 bbl</u>		stk/min 0		stk/min 0		stk/min						
Sample Location				pit		pit	Tot. on Location 3338 bbl		gal/min 0		gal/min 0		gal/min 0						
Flowline Temperature °F							PHHP = 0 CIRCULATION DATA n = 0.745 K = 181.424												
Depth (ft)				11,762'		11,741'	Bit Depth = 6,500 '			Washout = 5%		Pump Efficiency = 95%							
Mud Weight (ppg)				10.2		10.0	Drill String Disp.  37.1 bbl	Volume to Bit 91.6 bbl	Strokes To Bit		Time To Bit								
Funnel Vis (sec/qt) @ 110 °F				67		54		Bottoms Up Vol. 169.8 bbl	BottomsUp Stks		BottomsUp Time								
600 rpm				62		58		TotalCirc.Vol. 826.4 bbl	TotalCirc.Stks		Total Circ. Time								
300 rpm				37		34	DRILLING ASSEMBLY DATA					SOLIDS CONTROL							
200 rpm				28		25	Tubulars	OD (in.)	ID (in.)	Length	Top	Unit	Screens	Hours					
100 rpm				18		17	Drill Pipe	4.500	3.826	6,283'	0'	Shaker 1	170	10.0					
6 rpm				7		7	Hevi Wt	4.500	3.826	114'	6,283'	Shaker 2	170	10.0					
3 rpm				6		6	Collars	5.250	2.688	70'	6,397'	Shaker 3	170	10.0					
Plastic Viscosity (cp) @ 150 °F				25		24	Dir. BHA	5.500	2.000	33'	6,467'	Desander							
Yield Point (lb/100 ft²) T0 = 5				12		10	CASING & HOLE DATA					Desilter							
Gel Strength (lb/100 ft²) 10 sec/10 min				9/12		8/11	Casing	OD (in.)	ID (in.)	Depth	Top	Centrifuge 1	4.0						
Gel Strength (lb/100 ft²) 30 min				13		13	Riser	20						VOLUME ACCOUNTING (bbls)					
HTHP Filtrate (cm/30 min) @ 300 °F				6.0		5.2	Surface	10 3/4	9.950	3,518'	0'	Prev. Total on Location	3392.8						
HTHP Cake Thickness (32nds)				2.0		2.0	Int. Csg.	7 5/8	6.875	11,014'	0'	Transferred In(+)/Out(-)							
Retort Solids Content				15%		14%	Washout 1					Oil Added (+)	49.6						
Corrected Solids (vol%)				12.2%		11.2%	Washout 2					Barite Added (+)	20.9						
Retort Oil Content				60%		61%	Open Hole Size 7.088 11,762'					Other Product Usage (+)	4.0						
Retort Water Content				25%		25%	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 (-)	-66.8						
Whole Mud Chlorides (mg/L)				67,000		69,000						Mud on Cuttings	-22.4						
Water Phase Salinity (ppm)				295,897		302,062						Centrifuges	-40.0						
Whole Mud Alkalinity, Pom				1.9		2.7	6.875x4.5	6,283'	0.0	lam	10.24	Est. Total on Location	3338.2						
Excess Lime (lb/bbl)				2.5 ppb		3.5 ppb	6.875x4.5	6,397'	0.0	lam	10.24	Est. Losses/Gains (-)/(+)	0.0						
Electrical Stability (volts)				419 v		473 v	6.875x5.25	6,467'	0.0	lam	10.24	BIT HYDRAULICS DATA							
Average Specific Gravity of Solids				3.02		3.00	6.875x5.5	6,500'	0.0	lam	10.24	Bit H.S.I.	Bit ΔP	Nozzles (32nds)					
Percent Low Gravity Solids				7.6%		7.1%						0.00	psi	18	18	18			
ppb Low Gravity Solids				62 ppb		58 ppb						Bit Impact Force	Nozzle Velocity (ft/sec)	18	18	18			
Percent Barite				4.7%		4.1%													
ppb Barite				67 ppb		59 ppb	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	0	P. Blair	6 3/4	11,022 ft	8.0	740 ft	92.5	psi							
Remarks/Recommendations:  TOTAL OBM RECEIVED: 3422 bls  LCM SWEEPS: 10bls w/ 10ppb MagmaFiber, 10ppb NewCarb M, & 10ppb NewPhalt.							Rig Activity:  Drilled F/11,078' T/11,742' pumping tandem LCM sweeps. Circulate sweeps out of hole while waiting on orders. Perform short trip and C/O saver sub. TIH T/bottom and drill to 11,762'TD. Pump hi-vis sweep. Circulate hole clean and spot 30bls 5ppb graphite pill in open hole. Slug pipe and currently POOH to run wireline logs. Maintained MW 10.0ppg to TD then weighed up to 10.2ppg before POOH. Treated active system with Opti G, NewPhalt, Bentone 910/990, Mul, and WA to maintain desired properties. BHT 252 F.												
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: -						\$15,058.45		\$77,257.62					
W 2	P 2	Y 1	E 1	C 1	g 1	G 1	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.							\$19,359.23		\$129,439.18	
									INCLUDING 3RD PARTY CHARGES				\$19,359.23		\$129,439.18				



### THIRD PARTY COST SHEET

[illegible]

**OUTSOURCE FLUID SOLUTIONS LLC.**

# FLUID VOLUME ACCOUNTING

Operator:	MAGNOLIA OIL & GAS
Rig Name:	248
Well Name:	ROMMEL UNIT 3H

		WEEK 1							WEEK 2							WEEK 3							
		Date	8/3/21	8/4/21	8/5/21	8/6/21	8/7/21	8/8/21	8/9/21	8/10/21	8/11/21	8/12/21	8/13/21	8/14/21	8/15/21	8/16/21	8/17/21	8/18/21	8/19/21	8/20/21	8/21/21	8/22/21	8/23/21
		Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	
Grand Totals	Bit Size	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	6 3/4	6 3/4										
	Starting Depth	3,523	5,494	9,445	11,022	11,022	11,022	11,022	11,022	11,022	11,022	11,022	11,078	11,762									
	Ending Depth	5,494	9,445	11,022	11,022	11,022	11,022	11,022	11,022	11,022	11,022	11,078	11,762										
8,239	Footage Drilled	1,971	3,951	1,577	-	-	-	-	-	-	-	56	684	-	-	-	-	-	-	-	-	-	
745	New Hole Vol.	189	374	149	-	-	-	-	-	-	-	2	30	-	-	-	-	-	-	-	-	-	
	Starting System Volume	3,304	3,277	3,130	3,549	3,519	507	3,422	507	507	507	3,375	3,393	3,338	3,338	3,338	3,338	3,338	3,338	3,338	3,338	3,338	
24	Chemical Additions	2	7	2								6	3	4									
560	Base Fluid Added	117	173	166		38						1	16	49									
56	Barite Increase											35	21										
6,304	Weighted Mud Added			474				2,915				2,915											
-	Slurry Added																						
70	Water Added	25	20	25																			
-	Added for Washout																						
7,014	Total Additions	144	200	667	-	38	2,915	-	-	-	2,922	54	74	-	-	-	-	-	-	-	-	-	
-	Surface Losses																						
-	Formation Loss																						
486	Mud Loss to Cuttings	104	206	81								6	89										
428	Unrecoverable Volume	27	100	128	30	89					54												
191	Centrifuge Losses	40	41	40								30	40										
1,105	Total Losses	171	347	249	30	89	-	-	-	-	54	36	129	-	-	-	-	-	-	-	-	-	
5,876	Mud Transferred Out					2,961		2,915															
3,338	Ending System Volume	3,277	3,130	3,549	3,519	507	3,422	507	507	507	3,375	3,393	3,338	3,338	3,338	3,338	3,338	3,338	3,338	3,338	3,338	3,338	
-	Mud Recovered																						
3,732	Comments:							Comments:							Comments:								
	8/3/21	2975 bbls Transferred F/ Redwood A1H. 329 bbls was in the casing.							8/10/21							8/17/21							
	8/4/21								8/11/21							8/18/21							
	8/5/21	474 BBLS 14 # received from mud plant							8/12/21 Lost 54bbls to cement job, skid, and line/stack flushing.							8/19/21							
	8/6/21								8/13/21 Lost 6bbls to MOC of new hole drilled. Lost additional 30bbls to tripping 2000' wet to pick up reamer and to shakers while drilling out cement.							8/20/21							
	8/7/21	2961 BBLS Transferred T/ Rommel Unit 4H. 507 Left in casing.							8/14/21 Lost 89bbls to cuttings at shakers while drilling and circulating at TD. Lost 40bbls to centrifuges while processing on active and effluent under drying shakers while drilling and circulating.							8/21/21							
	8/8/21								8/15/21							8/22/21							
		8/9/21							8/16/21							8/23/21							

08/15/21

110 Old Market St.  
St Martinville, LA 70582

Report #11

TEL: (337) 394-1078

OUTSOURCE FLUID SOLUTIONS LLC.

0.0° 0' TVD

Operator <b>MAGNOLIA OIL &amp; GAS</b>				Contractor <b>PATTERSON</b>			County / Parish / Block <b>WASHINGTON</b>			Engineer Start Date <b>07/14/21</b>			24 hr fig. <b>0 ft</b>			Drilled Depth <b>11,762 ft</b>			
Well Name and No. <b>ROMMEL UNIT 3H</b>				Rig Name and No. <b>248</b>			State <b>TEXAS</b>			Spud Date <b>07/14/21</b>			Current ROP <b>0 ft/hr</b>			Activity <b>Wireline</b>			
Report for <b>Kevin Burt/Kevin Cooper</b>				Report for <b>Tool Pusher</b>			Field / OCS-G # <b>GIDDINGS (AC)</b>			Fluid Type <b>OBM</b>			Circulating Rate <b>0 gpm</b>			Circulating Pressure <b>psi</b>			
MUD PROPERTY SPECIFICATIONS							MUD VOLUME (BBL)			PUMP #1			PUMP #2			RISER BOOSTER			
Weight <b>8.8-10.4</b>	PV <b>10-25</b>	YP <b>6-20</b>	E.S. <b>&gt;350</b>	CaCl2 <b>±290K</b>	GELS <b>&lt;10 &lt;15</b>	HTHP <b>&lt;10</b>	In Pits 530 bbl		Liner Size 4.75		4.75	Liner Size 4.75		4.75	Liner Size				
				8/15/21		8/14/21	In Hole 542 bbl		Stroke 12		12	Stroke 12		12	Stroke				
							Active 530 bbl		bbl/stk 0.0625		0.0625	bbl/stk 0.0625		0.0625	bbl/stk 0.0000	0.0000			
Time Sample Taken				0:30		12:00	Storage <u>2268 bbl</u>		stk/min 0		0	stk/min 0		0	stk/min				
Sample Location				pit		pit	Tot. on Location 3340 bbl		gal/min 0		0	gal/min 0		0	gal/min 0				
Flowline Temperature °F							PHHP = 0 CIRCULATION DATA n = 0.745 K = 181.424												
Depth (ft)				11,762'		11,762'	Bit Depth = '			Washout = 5%			Pump Efficiency = 95%						
Mud Weight (ppg)				10.3		10.2	Drill String Disp.	Volume to Bit 0.0 bbl	Strokes To Bit			Time To Bit							
Funnel Vis (sec/qt) @ 114 °F				73		62		Bottoms Up Vol. 0.0 bbl	BottomsUp Stks			BottomsUp Time							
600 rpm				62		61		0.0 bbl	TotalCirc.Vol. 530.0 bbl	TotalCirc.Stks			Total Circ. Time						
300 rpm				37		36	DRILLING ASSEMBLY DATA						SOLIDS CONTROL						
200 rpm				28		27	Tubulars	OD (in.)	ID (in.)	Length	Top	Unit Screens Hours							
100 rpm				18		18	Drill Pipe	4.500	3.826	0'	0'	Shaker 1 170 0.0							
6 rpm				6		7	Hevi Wt	4.500	3.826		0'	Shaker 2 170 0.0							
3 rpm				5		6	Collars	5.250	2.688		0'	Shaker 3 170 0.0							
Plastic Viscosity (cp) @ 150 °F				25		25	Dir. BHA	5.500	2.000		0'	Desander							
Yield Point (lb/100 ft²) T0 = 4				12		11	CASING & HOLE DATA						Desilter						
Gel Strength (lb/100 ft²) 10 sec/10 min				7/9		8/11	Casing	OD (in.)	ID (in.)	Depth	Top	Centrifuge 1							
Gel Strength (lb/100 ft²) 30 min				10		14	Riser	20							VOLUME ACCOUNTING (bbls)				
HTHP Filtrate (cm/30 min) @ 300 °F				4.4		6.2	Surface	10 3/4	9.950	3,518'	0'	Prev. Total on Location 3338.1							
HTHP Cake Thickness (32nds)				2.0		2.0	Int. Csg.	7 5/8	6.875	11,014'	0'	Transferred In(+)/Out(-)							
Retort Solids Content				15%		15%	Washout 1						Oil Added (+) 10.0						
Corrected Solids (vol%)				12.3%		12.3%	Washout 2						Barite Added (+) 0.0						
Retort Oil Content				60%		60%	Open Hole Size 7.088 11,762'						Other Product Usage (+) 7.5						
Retort Water Content				25%		25%	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)				65,000		66,000							Mud on Cuttings						
Water Phase Salinity (ppm)				289,622		292,773							Non-Recoverable Vol. (-) -15.5						
Whole Mud Alkalinity, Pom				2.4		2.0							Est. Total on Location 3340.2						
Excess Lime (lb/bbl)				3.1 ppb		2.6 ppb							Est. Losses/Gains (-)/(+) 0.0						
Electrical Stability (volts)				442 v		465 v							BIT HYDRAULICS DATA						
Average Specific Gravity of Solids				3.08		2.97							Bit H.S.I.	Bit ΔP	Nozzles (32nds)				
Percent Low Gravity Solids				7.2%		7.9%													
ppb Low Gravity Solids				59 ppb		65 ppb							Bit Impact Force	Nozzle Velocity (ft/sec)					
Percent Barite				5.1%		4.4%													
ppb Barite				74 ppb		63 ppb	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	0	P. Blair	6 3/4												
Remarks/Recommendations:  TOTAL OBM RECEIVED: 3422 bls							Rig Activity:  POOH T/Surface and R/U Halliburton wireline truck for triple combo logs. Density in pits decreased F/10.4 T/10.2ppg via diesel dilution. E.S increased T/465 volts with addition of emulsifier. Other fluid properties will enhance to program specs as drilling commences. R/D Halliburton wireline truck and R/U Schlumberger wireline for sidewall coring. Currently running Schlumberger sidewall coring tool. Treated active system with Opti G, Mul, and Lime to maintain desired properties. BHT 252 F.												
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 1	g 1	G 1	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.					\$7,704.45		\$84,962.07			
								INCLUDING 3RD PARTY CHARGES				\$8,319.17				\$137,758.35			





### THIRD PARTY COST SHEET

[illegible]

**OUTSOURCE FLUID SOLUTIONS LLC.**

# FLUID VOLUME ACCOUNTING

Operator:	MAGNOLIA OIL & GAS
Rig Name:	248
Well Name:	ROMMEL UNIT 3H

		WEEK 1							WEEK 2							WEEK 3							
		Date	8/3/21	8/4/21	8/5/21	8/6/21	8/7/21	8/8/21	8/9/21	8/10/21	8/11/21	8/12/21	8/13/21	8/14/21	8/15/21	8/16/21	8/17/21	8/18/21	8/19/21	8/20/21	8/21/21	8/22/21	8/23/21
		Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	
Grand Totals	Starting Depth	3,523	5,494	9,445	11,022	11,022	11,022	11,022	11,022	11,022	11,022	11,022	11,078	11,762	11,762								
	Ending Depth	5,494	9,445	11,022	11,022	11,022	11,022	11,022	11,022	11,022	11,022	11,078	11,762	11,762									
8,239	Footage Drilled	1,971	3,951	1,577	-	-	-	-	-	-	-	56	684	-	-	-	-	-	-	-	-	-	
745	New Hole Vol.	189	374	149	-	-	-	-	-	-	-	2	30	-	-	-	-	-	-	-	-	-	
	Starting System Volume	3,304	3,277	3,130	3,549	3,519	507	3,422	507	507	507	3,375	3,393	3,338	3,340	3,340	3,340	3,340	3,340	3,340	3,340	3,340	
32	Chemical Additions	2	7	2							6	3	4	8									
570	Base Fluid Added	117	173	166		38					1	16	49	10									
56	Barite Increase											35	21										
6,304	Weighted Mud Added			474			2,915				2,915												
-	Slurry Added																						
70	Water Added	25	20	25																			
-	Added for Washout																						
7,032	Total Additions	144	200	667	-	38	2,915	-	-	-	2,922	54	74	18	-	-	-	-	-	-	-	-	
-	Surface Losses																						
-	Formation Loss																						
486	Mud Loss to Cuttings	104	206	81								6	89										
443	Unrecoverable Volume	27	100	128	30	89					54		15										
191	Centrifuge Losses	40	41	40								30	40										
1,120	Total Losses	171	347	249	30	89	-	-	-	-	54	36	129	15	-	-	-	-	-	-	-	-	
5,876	Mud Transferred Out					2,961		2,915															
3,340	Ending System Volume	3,277	3,130	3,549	3,519	507	3,422	507	507	507	3,375	3,393	3,338	3,340	3,340	3,340	3,340	3,340	3,340	3,340	3,340	3,340	
-	Mud Recovered																						
3,732	Comments:							Comments:							Comments:								
	8/3/21	2975 bbls Transferred F/ Redwood A1H. 329 bbls was in the casing.							8/10/21							8/17/21							
	8/4/21								8/11/21							8/18/21							
	8/5/21	474 BBLS 14 # received from mud plant							8/12/21 Lost 54bbls to cement job, skid, and line/stack flushing.							8/19/21							
	8/6/21								8/13/21 Lost 6bbls to MOC of new hole drilled. Lost additional 30bbls to tripping 2000' wet to pick up reamer and to shakers while drilling out cement.							8/20/21							
	8/7/21	2961 BBLS Transferred T/ Rommel Unit 4H. 507 Left in casing.							8/14/21 Lost 89bbls to cuttings at shakers while drilling and circulating at TD. Lost 40bbls to centrifuges while processing on active and effluent under drying shakers while drilling and circulating.							8/21/21							
	8/8/21								8/15/21 Lost 15bbls while finishing POOH and running wireline logs.							8/22/21							
	8/9/21								8/16/21							8/23/21							

08/16/21

110 Old Market St.  
St Martinville, LA 70582

Report #12

TEL: (337) 394-1078

OUTSOURCE FLUID SOLUTIONS LLC.

0.4°1,035' TVD

Operator <b>MAGNOLIA OIL &amp; GAS</b>				Contractor <b>PATTERSON</b>			County / Parish / Block <b>WASHINGTON</b>		Engineer Start Date <b>07/14/21</b>		24 hr fig. <b>0 ft</b>		Drilled Depth <b>11,762 ft</b>			
Well Name and No. <b>ROMMEL UNIT 3H</b>				Rig Name and No. <b>248</b>			State <b>TEXAS</b>		Spud Date <b>07/14/21</b>		Current ROP <b>0 ft/hr</b>		Activity <b>TIH</b>			
Report for <b>Kevin Burt/Kevin Cooper</b>				Report for <b>Tool Pusher</b>			Field / OCS-G # <b>GIDDINGS (AC)</b>		Fluid Type <b>OBM</b>		Circulating Rate <b>0 gpm</b>		Circulating Pressure <b>psi</b>			
MUD PROPERTY SPECIFICATIONS							MUD VOLUME (BBL)		PUMP #1		PUMP #2		RISER BOOSTER			
Weight <b>9.8-12</b>		PV <b>10-25</b>	YP <b>6-20</b>	E.S. <b>&gt;350</b>	CaCl2 <b>±290K</b>	GELS <b>&lt;10 &lt;15</b>	HTHP <b>&lt;10</b>	In Pits 518 bbl In Hole 539 bbl Active 563 bbl Storage <u>2730 bbl</u> Tot. on Location 3787 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		
				8/16/21		8/15/21										
Time Sample Taken				0:30		12:00										
Sample Location				pit		pit										
Flowline Temperature °F							PHHP = 0CIRCULATION DATA n = 0.729 K = 189.678									
Depth (ft)				11,762'		11,762'	Bit Depth = 1,035 '			Washout = 5%		Pump Efficiency = 95%				
Mud Weight (ppg)				10.3		10.3	Drill String Disp.  2.9 bbl	Volume to Bit 5.4 bbl Bottoms Up Vol. 39.2 bbl TotalCirc.Vol. 562.6 bbl	5.4 bbl		Strokes To Bit		Time To Bit			
Funnel Vis (sec/qt) @ 104 °F				66		64		BottomsUp Stks		BottomsUp Time						
600 rpm				58		59		TotalCirc.Stks		TotalCirc. Time						
300 rpm				35		35	DRILLING ASSEMBLY DATA					SOLIDS CONTROL				
200 rpm				27		26	Tubulars	OD (in.)	ID (in.)	Length	Top	Unit	Screens	Hours		
100 rpm				17		18	Drill Pipe	4.500	3.826	0'	0'	Shaker 1	170	4.0		
6 rpm				6		7	Other Pipe	2.875	2.323	1,035'	0'	Shaker 2	170	4.0		
3 rpm				5		6	Collars	5.250	2.688		1,035'	Shaker 3	170	4.0		
Plastic Viscosity (cp) @ 150 °F				23		24	Dir. BHA	5.500	2.000		1,035'	Desander				
Yield Point (lb/100 ft²) T0 = 4				12		11	CASING & HOLE DATA					Desilter				
Gel Strength (lb/100 ft²) 10 sec/10 min				7/9		8/11	Casing	OD (in.)	ID (in.)	Depth	Top	Centrifuge 1	0.0			
Gel Strength (lb/100 ft²) 30 min				10		13	Riser	20				VOLUME ACCOUNTING (bbls)				
HTHP Filtrate (cm/30 min) @ 300 °F				4.4		4.4	Surface	10 3/4	9.950	3,518'	0'	Prev. Total on Location	3340.2			
HTHP Cake Thickness (32nds)				2.0		2.0	Int. Csg.	7 5/8	6.875	11,014'	0'	Transferred In(+)/Out(-)	439.0			
Retort Solids Content				15%		15%	Washout 1					Oil Added (+)	1.3			
Corrected Solids (vol%)				12.3%		12.2%	Washout 2					Barite Added (+)	0.0			
Retort Oil Content				60%		60%	Open Hole Size 7.088 11,762'					Other Product Usage (+)	6.2			
Retort Water Content				25%		25%	ANNULAR GEOMETRY & RHEOLOGY					Water Added (+)	0.6			
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)				67,000		68,000	6.875x2.875 1,035' 0.0 lam 10.34					Mud on Cuttings				
Water Phase Salinity (ppm)				295,897		298,993						Non-Recoverable Vol. (-)				
Whole Mud Alkalinity, Pom				3.0		2.8						Est. Total on Location	3787.3			
Excess Lime (lb/bbl)				3.9 ppb		3.6 ppb						Est. Losses/Gains (-)/(+)	0.0			
Electrical Stability (volts)				456 v		452 v						BIT HYDRAULICS DATA				
Average Specific Gravity of Solids				3.11		3.12						Bit H.S.I.	Bit ΔP	Nozzles (32nds)		
Percent Low Gravity Solids				6.9%		6.9%										
ppb Low Gravity Solids				57 ppb		57 ppb						Bit Impact Force	Nozzle Velocity (ft/sec)			
Percent Barite				5.3%		5.4%										
ppb Barite				76 ppb		77 ppb										
Estimated Total LCM in System ppb							BIT DATA		Manuf./Type			Motor/MWD	Calc. Circ. Pressure			
Sample Taken By				N. Dilly	0	P. Blair	Size	Depth In	Hours	Footage	ROP ft/hr					
				6 3/4												
Remarks/Recommendations:  TOTAL OBM RECEIVED: 3861 bls							Rig Activity:  Finish running Schlumberger sidewall coring tool and POOH with same. Collect cores and lay down tools. Pick up Sonic Scanner NGI tool, RIH, log open hole, and POOH. Rig down wireline. Change out saver sub. Rig up floor and run 1,035' of 2 7/8" tubing to set cement plugs. Pick up 4 1/2" elevators and continue TIH at report time. Treated active system with CaCl and Mul. BHT 252 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 P Y E C g G H O 1 1 1 1 1 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.							\$3,776.85		\$88,738.92			
							INCLUDING 3RD PARTY CHARGES					\$3,776.85		\$141,535.20		



### THIRD PARTY COST SHEET

[illegible]

**OUTSOURCE FLUID SOLUTIONS LLC.**

# FLUID VOLUME ACCOUNTING

Operator:	MAGNOLIA OIL & GAS
Rig Name:	248
Well Name:	ROMMEL UNIT 3H

		WEEK 1							WEEK 2							WEEK 3							
		Date	8/3/21	8/4/21	8/5/21	8/6/21	8/7/21	8/8/21	8/9/21	8/10/21	8/11/21	8/12/21	8/13/21	8/14/21	8/15/21	8/16/21	8/17/21	8/18/21	8/19/21	8/20/21	8/21/21	8/22/21	8/23/21
		Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	
Grand Totals	Starting Depth	3,523	5,494	9,445	11,022	11,022	11,022	11,022	11,022	11,022	11,022	11,022	11,078	11,762	11,762	11,762	11,762						
	Ending Depth	5,494	9,445	11,022	11,022	11,022	11,022	11,022	11,022	11,022	11,022	11,078	11,762	11,762	11,762								
8,239	Footage Drilled	1,971	3,951	1,577	-	-	-	-	-	-	-	56	684	-	-	-	-	-	-	-	-	-	
745	New Hole Vol.	189	374	149	-	-	-	-	-	-	-	2	30	-	-	-	-	-	-	-	-	-	
	Starting System Volume	3,304	3,277	3,130	3,549	3,519	507	3,422	507	507	507	3,375	3,393	3,338	3,340	3,787	3,787	3,787	3,787	3,787	3,787	3,787	
38	Chemical Additions	2	7	2							6	3	4	8	6								
571	Base Fluid Added	117	173	166		38					1	16	49	10	1								
56	Barite Increase											35	21										
6,743	Weighted Mud Added			474			2,915				2,915				439								
-	Slurry Added																						
71	Water Added	25	20	25											1								
-	Added for Washout																						
7,479	Total Additions	144	200	667	-	38	2,915	-	-	-	2,922	54	74	18	447	-	-	-	-	-	-	-	
-	Surface Losses																						
-	Formation Loss																						
486	Mud Loss to Cuttings	104	206	81								6	89										
443	Unrecoverable Volume	27	100	128	30	89					54			15									
191	Centrifuge Losses	40	41	40								30	40										
1,120	Total Losses	171	347	249	30	89	-	-	-	-	54	36	129	15	-	-	-	-	-	-	-	-	
5,876	Mud Transferred Out					2,961		2,915															
3,787	Ending System Volume	3,277	3,130	3,549	3,519	507	3,422	507	507	507	3,375	3,393	3,338	3,340	3,787	3,787	3,787	3,787	3,787	3,787	3,787	3,787	
-	Mud Recovered																						
4,171	Comments:							Comments:							Comments:								
	8/3/21	2975 bbls Transferred F/ Redwood A1H. 329 bbls was in the casing.							8/10/21							8/17/21							
	8/4/21								8/11/21							8/18/21							
	8/5/21	474 BBLS 14 # received from mud plant							8/12/21 Lost 54bbls to cement job, skid, and line/stack flushing.							8/19/21							
	8/6/21								8/13/21 Lost 6bbls to MOC of new hole drilled. Lost additional 30bbls to tripping 2000' wet to pick up reamer and to shakers while drilling out cement.							8/20/21							
	8/7/21	2961 BBLS Transferred T/ Rommel Unit 4H. 507 Left in casing.							8/14/21 Lost 89bbls to cuttings at shakers while drilling and circulating at TD. Lost 40bbls to centrifuges while processing on active and effluent under drying shakers while drilling and circulating.							8/21/21							
	8/8/21								8/15/21 Lost 15bbls while finishing POOH and running wireline logs.							8/22/21							
	8/9/21								8/16/21 Received 439bbls of 17.5ppg OBM from mud plant. No losses during wireline operations.							8/23/21							

08/17/21

110 Old Market St.  
St Martinville, LA 70582

Report #13

TEL: (337) 394-1078

OUTSOURCE FLUID SOLUTIONS LLC.

3.9°

1,500' TVD

Operator <b>MAGNOLIA OIL &amp; GAS</b>				Contractor <b>PATTERSON</b>			County / Parish / Block <b>WASHINGTON</b>		Engineer Start Date <b>07/14/21</b>		24 hr fig. <b>0 ft</b>		Drilled Depth <b>11,762 ft</b>				
Well Name and No. <b>ROMMEL UNIT 3H</b>				Rig Name and No. <b>248</b>			State <b>TEXAS</b>		Spud Date <b>07/14/21</b>		Current ROP <b>0 ft/hr</b>		Activity <b>POOH</b>				
Report for <b>Kevin Burt/Kevin Cooper</b>				Report for <b>Tool Pusher</b>			Field / OCS-G # <b>GIDDINGS (AC)</b>		Fluid Type <b>OBM</b>		Circulating Rate <b>0 gpm</b>		Circulating Pressure <b>psi</b>				
MUD PROPERTY SPECIFICATIONS							MUD VOLUME (BBL)		PUMP #1		PUMP #2		RISER BOOSTER				
Weight <b>9.8-12</b>		PV <b>10-25</b>	YP <b>6-20</b>	E.S. <b>&gt;350</b>	CaCl2 <b>±290K</b>	GELS <b>&lt;10 &lt;15</b>	HTHP <b>&lt;10</b>	In Pits 519 bbl		Liner Size 4.75		Liner Size 4.75		Liner Size			
					8/17/21		8/16/21	In Hole 537 bbl		Stroke 12		Stroke 12		Stroke			
								Active 582 bbl		bbl/stk 0.0625		bbl/stk 0.0625		bbl/stk 0.0000			
Time Sample Taken					0:30		12:00	Storage <u>2730 bbl</u>		stk/min 0		stk/min 0		stk/min			
Sample Location					pit		pit	Tot. on Location 3786 bbl		gal/min 0		gal/min 0		gal/min 0			
Flowline Temperature °F							PHHP = 0 <b>CIRCULATION DATA</b> n = 0.729 K = 189.678										
Depth (ft)				11,762'		11,762'	Bit Depth = 1,500 '			Washout = 5%			Pump Efficiency = 95%				
Mud Weight (ppg)				10.2		10.2	Drill String Disp.  5.4 bbl	Volume to Bit 12.0 bbl	12.0 bbl		Strokes To Bit		Time To Bit				
Funnel Vis (sec/qt) @ 106 °F				77		67		Bottoms Up Vol. 51.4 bbl	51.4 bbl		BottomsUp Stks		BottomsUp Time				
600 rpm				58		60		TotalCirc.Vol. 582.5 bbl	582.5 bbl		TotalCirc.Stks		Total Circ. Time				
300 rpm				35		35	DRILLING ASSEMBLY DATA					SOLIDS CONTROL					
200 rpm				27		27	Tubulars	OD (in.)	ID (in.)	Length	Top	Unit	Screens	Hours			
100 rpm				17		18	Drill Pipe	4.500	3.826	465'	0'	Shaker 1	170	24.0			
6 rpm				7		7	Other Pipe	2.875	2.323	1,035'	465'	Shaker 2	170	24.0			
3 rpm				6		6	Collars	5.250	2.688		1,500'	Shaker 3	170	24.0			
Plastic Viscosity (cp) @ 150 °F				23		25	Dir. BHA	5.500	2.000		1,500'	Desander					
Yield Point (lb/100 ft²) T0 = 5				12		10	CASING & HOLE DATA					Desilter					
Gel Strength (lb/100 ft²) 10 sec/10 min				7/9		8/11	Casing	OD (in.)	ID (in.)	Depth	Top	Centrifuge 1	0.0				
Gel Strength (lb/100 ft²) 30 min				11		13	Riser	20				VOLUME ACCOUNTING (bbls)					
HTHP Filtrate (cm/30 min) @ 300 °F				4.0		4.8	Surface	10 3/4	9.950	3,518'	0'	Prev. Total on Location	3787.3				
HTHP Cake Thickness (32nds)				2.0		2.0	Int. Csg.	7 5/8	6.875	11,014'	0'	Transferred In(+)/Out(-)					
Retort Solids Content				15%		15%	Washout 1					Oil Added (+)	24.3				
Corrected Solids (vol%)				12.4%		12.4%	Washout 2					Barite Added (+)	0.0				
Retort Oil Content				58%		58%	Open Hole Size	7.088	11,762'			Other Product Usage (+)	0.0				
Retort Water Content				27%		27%	ANNULAR GEOMETRY & RHEOLOGY					Water Added (+)	0.6				
O/W Ratio				68:32		68:32	annular section	meas. depth	velocity ft/min	flow reg	ECD lb/gal	Left on Cuttings (-)	0.0				
Whole Mud Chlorides (mg/L)				64,000		65,000						Mud on Cuttings					
Water Phase Salinity (ppm)				270,974		274,048	6.875x4.5	465'	0.0	lam	10.24	Non-Recoverable Vol. (-)	-26.4				
Whole Mud Alkalinity, Pom				2.0		3.1	6.875x2.875	1,500'	0.0	lam	10.24	Est. Total on Location	3785.8				
Excess Lime (lb/bbl)				2.6 ppb		4 ppb						Est. Losses/Gains (-)/(+)	0.0				
Electrical Stability (volts)				366 v		388 v						BIT HYDRAULICS DATA					
Average Specific Gravity of Solids				2.99		2.94						Bit H.S.I.	Bit ΔP	Nozzles (32nds)			
Percent Low Gravity Solids				7.9%		8.2%											
ppb Low Gravity Solids				65 ppb		68 ppb						Bit Impact Force	Nozzle Velocity (ft/sec)				
Percent Barite				4.5%		4.2%											
ppb Barite				65 ppb		60 ppb											
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	6 3/4										
Remarks/Recommendations:  TOTAL OBM RECEIVED: 3861 bls							Rig Activity:  Wash through open hole to bottom. Circulate while waiting on cementers to mix spacer (added diesel to reduce weight to 10.2ppg in/out). Bottom plug pumped 19.bls spacer, 13.3bls cement @ 17.5ppg, followed by 2.8bls spacer. Displaced with 147bls of 10.2ppg OBM. POOH t/11,075', insert nerf ball into saver sub and m/u top drive. Attemptet to circulate ball out of pipe, pressured up to 4,500psi. Hooked up steel lines to cementers and attempted to pump and establish circulation unsuccessfully. POOH to trouble-shoot issues at report time. BHT 252 F.										
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: -				\$2,040.00		\$90,778.92					
W 1		P 1		Y 1		E 1		C 0		g 1		G 1		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.							INCLUDING 3RD PARTY CHARGES					\$4,345.20		\$145,880.40			





### THIRD PARTY COST SHEET

[illegible]

## FLUID VOLUME ACCOUNTING

Operator:	MAGNOLIA OIL & GAS
Rig Name:	248
Well Name:	ROMMEL UNIT 3H

		WEEK 1							WEEK 2							WEEK 3							
		Date	8/3/21	8/4/21	8/5/21	8/6/21	8/7/21	8/8/21	8/9/21	8/10/21	8/11/21	8/12/21	8/13/21	8/14/21	8/15/21	8/16/21	8/17/21	8/18/21	8/19/21	8/20/21	8/21/21	8/22/21	8/23/21
		Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	
Grand Totals	Bit Size	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	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4						
	Starting Depth	3,523	5,494	9,445	11,022	11,022	11,022	11,022	11,022	11,022	11,022	11,022	11,078	11,762	11,762	11,762	11,762	11,762					
	Ending Depth	5,494	9,445	11,022	11,022	11,022	11,022	11,022	11,022	11,022	11,022	11,078	11,762	11,762	11,762	11,762							
8,239	Footage Drilled	1,971	3,951	1,577	-	-	-	-	-	-	-	56	684	-	-	-	-	-	-	-	-	-	
745	New Hole Vol.	189	374	149	-	-	-	-	-	-	-	2	30	-	-	-	-	-	-	-	-	-	
	Starting System Volume	3,304	3,277	3,130	3,549	3,519	507	3,422	507	507	507	3,375	3,393	3,338	3,340	3,787	3,786	3,786	3,786	3,786	3,786	3,786	
38	Chemical Additions	2	7	2							6	3	4	8	6								
595	Base Fluid Added	117	173	166		38					1	16	49	10	1	24							
56	Barite Increase											35	21										
6,743	Weighted Mud Added			474			2,915				2,915				439								
-	Slurry Added																						
72	Water Added	25	20	25											1	1							
-	Added for Washout																						
7,504	Total Additions	144	200	667	-	38	2,915	-	-	-	2,922	54	74	18	447	25	-	-	-	-	-	-	
-	Surface Losses																						
-	Formation Loss																						
486	Mud Loss to Cuttings	104	206	81								6	89										
469	Unrecoverable Volume	27	100	128	30	89					54			15		26							
191	Centrifuge Losses	40	41	40								30	40										
1,146	Total Losses	171	347	249	30	89	-	-	-	-	54	36	129	15	-	26	-	-	-	-	-	-	
5,876	Mud Transferred Out					2,961		2,915															
3,786	Ending System Volume	3,277	3,130	3,549	3,519	507	3,422	507	507	507	3,375	3,393	3,338	3,340	3,787	3,786	3,786	3,786	3,786	3,786	3,786	3,786	
-	Mud Recovered																						
4,171	Comments:							Comments:							Comments:								
	8/3/21	2975 bbls Transferred F/ Redwood A1H. 329 bbls was in the casing.							8/10/21							8/17/21 Lost 26bls unrecoverable while POOH wet due to plugged pipe during cement job.							
	8/4/21								8/11/21							8/18/21							
	8/5/21	474 BBLS 14 # received from mud plant							8/12/21 Lost 54bls to cement job, skid, and line/stack flushing.							8/19/21							
	8/6/21								8/13/21 Lost 6bls to MOC of new hole drilled. Lost additional 30bls to tripping 2000' wet to pick up reamer and to shakers while drilling out cement.							8/20/21							
	8/7/21	2961 BBLS Transferred T/ Rommel Unit 4H. 507 Left in casing.							8/14/21 Lost 89bls to cuttings at shakers while drilling and circulating at TD. Lost 40bls to centrifuges while processing on active and effluent under drying shakers while drilling and circulating.							8/21/21							
	8/8/21								8/15/21 Lost 15bls while finishing POOH and running wireline logs.							8/22/21							
8/9/21								8/16/21 Received 439bls of 17.5ppg OBM from mud plant. No losses during wireline operations.							8/23/21								

08/18/21

110 Old Market St.  
St Martinville, LA 70582

Report #14

TEL: (337) 394-1078

OUTSOURCE FLUID SOLUTIONS LLC.

0.0°

0' TVD

Operator				Contractor			County / Parish / Block			Engineer Start Date			24 hr fig.			Drilled Depth																									
MAGNOLIA OIL & GAS							PATTERSON			WASHINGTON			07/14/21			0 ft			11,762 ft																						
Well Name and No.							Rig Name and No.			State			Spud Date			Current ROP			Activity																						
ROMMEL UNIT 3H							248			TEXAS			07/14/21			0 ft/hr			POOH																						
Report for							Report for			Field / OCS-G #			Fluid Type			Circulating Rate			Circulating Pressure																						
Kevin Burt/Kevin Cooper							Tool Pusher			GIDDINGS (AC)			OBM			0 gpm			psi																						
MUD PROPERTY SPECIFICATIONS							MUD VOLUME (BBL)			PUMP #1			PUMP #2			RISER BOOSTER																									
Weight		PV		YP		E.S.		CaCl2		GELS		HTHP		In Pits		430 bbl		Liner Size		4.75		Liner Size		4.75		Liner Size															
9.8-12		10-25		6-20		>350		±290K		<10 <15		<10		In Hole		542 bbl		Stroke		12		Stroke		12		Stroke															
							8/18/21				8/17/21		Active		430 bbl		bbl/stk		0.0625		bbl/stk		0.0625		bbl/stk		0.0000														
Time Sample Taken							0:30				12:00		Storage		2704 bbl		stk/min		0		stk/min		0		stk/min																
Sample Location							pit				pit		Tot. on Location		3676 bbl		gal/min		0		gal/min		0		gal/min		0														
Flowline Temperature °F													PHHP = 0CIRCULATION DATA n = 0.757 K = 131.956																												
Depth (ft)							11,762'				11,762'		Bit Depth = '				Washout = 5%				Pump Efficiency = 95%																				
Mud Weight (ppg)							10.3				10.2		Drill String Disp.		Volume to Bit		0.0 bbl		Strokes To Bit				Time To Bit																		
Funnel Vis (sec/qt)							@ 121 °F		55						Bottoms Up Vol.		0.0 bbl		BottomsUp Stks				BottomsUp Time																		
600 rpm							49				51				0.0 bbl		TotalCirc.Vol.		430.0 bbl		TotalCirc.Stks				Total Circ. Time																
300 rpm							29				31		DRILLING ASSEMBLY DATA							SOLIDS CONTROL																					
200 rpm							21				23		Tubulars		OD (in.)		ID (in.)		Length		Top		Unit		Screens		Hours														
100 rpm							13				15		Drill Pipe		4.500		3.826		0'		0'		Shaker 1		170		18.0														
6 rpm							5				6		Other Pipe						0'				Shaker 2		170		18.0														
3 rpm							4				5		Collars		5.250		2.688		0'				Shaker 3		170		18.0														
Plastic Viscosity (cp)							@ 150 °F		20		20		Dir. BHA		5.500		2.000		0'				Desander																		
Yield Point (lb/100 ft²)							T0 = 3		9		11		CASING & HOLE DATA							Desilter																					
Gel Strength (lb/100 ft²)							10 sec/10 min		6/8		7/10		Casing		OD (in.)		ID (in.)		Depth		Top		Centrifuge 1				0.0														
Gel Strength (lb/100 ft²)							30 min		9		12		Riser		20								VOLUME ACCOUNTING (bbls)																		
HTHP Filtrate (cm/30 min)							@ 300 °F		3.0		4.4		Surface		10 3/4		9.950		3,518'		0'		Prev. Total on Location				3785.8														
HTHP Cake Thickness (32nds)									2.0		2.0		Int. Csg.		7 5/8		6.875		11,014'		0'		Transferred In(+)/Out(-)																		
Retort Solids Content									15.5%		14%		Washout 1									Oil Added (+)				51.5															
Corrected Solids (vol%)									12.5%		11.2%		Washout 2									Barite Added (+)				7.1															
Retort Oil Content									58.5%		60%		Open Hole Size							7.088		11,762'		Other Product Usage (+)				8.6													
Retort Water Content									26%		26%		ANNULAR GEOMETRY & RHEOLOGY											Water Added (+)																	
O/W Ratio									69:31		70:30		annular section		meas. depth		velocity ft/min		flow reg		ECD lb/gal		Left on Cuttings (-)				0.0														
Whole Mud Chlorides (mg/L)							72,000		70,000		Mud on Cuttings																														
Water Phase Salinity (ppm)							302,766		296,852																																
Whole Mud Alkalinity, Pom							1.8		2.5									Non-Recoverable Vol. (-)				-176.8																			
Excess Lime (lb/bbl)							2.3 ppb		3.3 ppb									Est. Total on Location				3676.2																			
Electrical Stability (volts)							343 v		355 v									Est. Losses/Gains (-)/(+)				0.0																			
Average Specific Gravity of Solids							2.97		3.14									BIT HYDRAULICS DATA																							
Percent Low Gravity Solids							8.1%		6.1%									Bit H.S.I.		Bit ΔP		Nozzles (32nds)																			
ppb Low Gravity Solids							67 ppb		50 ppb																																
Percent Barite							4.4%		5%																																
ppb Barite							63 ppb		72 ppb									BIT DATA		Manuf./Type				Bit Impact Force		Nozzle Velocity (ft/sec)															
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		6 3/4																					
Remarks/Recommendations:														Rig Activity:																											
TOTAL OBM RECEIVED: 3861 bls														Finish laying down tubing plugged with cement. Pick up 1,056' of new 2 7/8" tubing and TIH T/10,887. Install rotating head. Wash/Ream 5 stands T/11,347' MD then circulate B/U. Diverted 113bbls OBM/spacer into open top for disposal. Added diesel to account for previous water incorporation from bottom plug cement job while circulating waiting on cementers. Rig up cement equipment and pump 31.8bls spacer, 34.8bls 17.5ppb cement, 14.2bls spacer & chased it with 128.2bls of active mud. Pull up to 10,460' and circulate B/U. Dumped 63bls of spacer interface to open top. Drop nerf ball and circulate S/S. Flow check and POOH. Finished laying down 2 7/8" tubing at report time. BHT 252 F.																											
PLAN FORWARD: Weigh up active system to 10.5ppg																																									
Treating active system with Bentone 910/990, Mul, & Lime.																																									
Adding diesel to increase oil concentration and to oil wet barite during weigh up.																																									
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:		-				\$13,549.04				\$104,327.96																			
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.									\$13,549.04				\$104,327.96																			
1	1	1	0	2	1	1	1	1										INCLUDING 3RD PARTY CHARGES				\$18,064.52				\$163,944.92															



### THIRD PARTY COST SHEET

[illegible]

## FLUID VOLUME ACCOUNTING

Operator:	MAGNOLIA OIL & GAS
Rig Name:	248
Well Name:	ROMMEL UNIT 3H

4,171

08/19/21

110 Old Market St.  
St Martinville, LA 70582

Report #15

TEL: (337) 394-1078

OUTSOURCE FLUID SOLUTIONS LLC.

0.0°

0' TVD

Operator <b>MAGNOLIA OIL &amp; GAS</b>				Contractor <b>PATTERSON</b>			County / Parish / Block <b>WASHINGTON</b>		Engineer Start Date <b>07/14/21</b>		24 hr fig. <b>0 ft</b>		Drilled Depth <b>11,022 ft</b>						
Well Name and No. <b>ROMMEL UNIT 3H</b>				Rig Name and No. <b>248</b>			State <b>TEXAS</b>		Spud Date <b>07/14/21</b>		Current ROP <b>0 ft/hr</b>		Activity <b>POOH</b>						
Report for <b>BRANDON PARKS / JAMES DYER</b>				Report for <b>Tool Pusher</b>			Field / OCS-G # <b>GIDDINGS (AC)</b>		Fluid Type <b>OBM</b>		Circulating Rate <b>0 gpm</b>		Circulating Pressure <b>psi</b>						
MUD PROPERTY SPECIFICATIONS							MUD VOLUME (BBL)		PUMP #1		PUMP #2		RISER BOOSTER						
Weight <b>9.8-12</b>		PV <b>10-25</b>	YP <b>6-20</b>	E.S. <b>&gt;350</b>	CaCl2 <b>±290K</b>	GELS <b>&lt;10 &lt;15</b>	HTHP <b>&lt;10</b>	In Pits 462 bbl In Hole 506 bbl Active 462 bbl Storage <u>2704 bbl</u> Tot. on Location 3672 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					
				8/19/21		8/18/21													
Time Sample Taken				0:30		15:00													
Sample Location				pit		pit													
Flowline Temperature °F							PHHP = 0 CIRCULATION DATA n = 0.710 K = 200.341												
Depth (ft)				11,022'		10,690'	Bit Depth = '			Washout = 5%			Pump Efficiency = 95%						
Mud Weight (ppg)				10.6		10.6	Drill String Disp.  0.0 bbl	Volume to Bit 0.0 bbl Bottoms Up Vol. 0.0 bbl TotalCirc.Vol. 462.0 bbl		Strokes To Bit  BottomsUp Stks  TotalCirc.Stks			Time To Bit  BottomsUp Time  Total Circ. Time						
Funnel Vis (sec/qt) @ 117 °F				54		61													
600 rpm				54		57													
300 rpm				33		34	DRILLING ASSEMBLY DATA						SOLIDS CONTROL						
200 rpm				24		25	Tubulars OD (in.) ID (in.) Length Top					Unit Screens Hours							
100 rpm				16		17	Drill Pipe 4.500 3.826 0' 0'					Shaker 1 170 9.0							
6 rpm				6		6	Hevi Wt		0'			Shaker 2 170 9.0							
3 rpm				5		5	Collars		0'			Shaker 3 170 9.0							
Plastic Viscosity (cp) @ 150 °F				21		23	Dir. BHA		0'			Desander							
Yield Point (lb/100 ft²) T0 = 4				12		11	CASING & HOLE DATA						Desilter						
Gel Strength (lb/100 ft²) 10 sec/10 min				6/9		6/9	Casing OD (in.) ID (in.) Depth Top					Centrifuge 1 0.0							
Gel Strength (lb/100 ft²) 30 min				10		12	Riser 20					VOLUME ACCOUNTING (bbls)							
HTHP Filtrate (cm/30 min) @ 300 °F				5.6		3.0	Surface 10 3/4 9.950 3,518' 0'					Prev. Total on Location 3676.2							
HTHP Cake Thickness (32nds)				2.0		2.0	Int. Csg. 7 5/8 6.875 11,014' 0'					Transferred In(+)/Out(-)							
Retort Solids Content				16.5%		16%	Washout 1					Oil Added (+) 44.5							
Corrected Solids (vol%)				13.4%		12.9%	Washout 2					Barite Added (+) 13.9							
Retort Oil Content				56.5%		56%	Open Hole Size 7.088 11,022'					Other Product Usage (+) 4.0							
Retort Water Content				27%		28%	ANNULAR GEOMETRY & RHEOLOGY						Water Added (+)						
O/W Ratio				68:32		67:33	annular section		meas. depth	velocity ft/min	flow reg	ECD lb/gal	Left on Cuttings (-) 0.0						
Whole Mud Chlorides (mg/L)				75,000		76,000							Mud on Cuttings						
Water Phase Salinity (ppm)				303,417		298,552							Non-Recoverable Vol. (-) -66.5						
Whole Mud Alkalinity, Pom				3.2		3.8							Est. Total on Location 3672.1						
Excess Lime (lb/bbl)				4.2 ppb		4.9 ppb							Est. Losses/Gains (-)/(+) 0.0						
Electrical Stability (volts)				388 v		470 v							BIT HYDRAULICS DATA						
Average Specific Gravity of Solids				3.09		3.12							Bit H.S.I.		Bit ΔP		Nozzles (32nds)		
Percent Low Gravity Solids				7.7%		7.2%													
ppb Low Gravity Solids				63 ppb		60 ppb													
Percent Barite				5.7%		5.7%													
ppb Barite				82 ppb		81 ppb													
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	M Washburn	6 3/4												
Remarks/Recommendations:  TOTAL OBM RECEIVED: 3861 bls  Plan Forward: No treatment until heat and shear are applied to the drilling fluid to determine further chemical additions.							Rig Activity:  Complete BOP test. Make up mill tooth bit and trip in hole with 4-1/2" drillpipe 10,617' where cement was tagged. Drill cement from 10,617' to 11,022'(8' of open hole). Weighed up surface system during trip from 10.2 to 10.5. Pretreated with OPTIMUL, Lime, and Bentone 910/990. While drilling cement a 10.5ppg was maintained in active system. Circulated hole clean after drill out, flow check, and POOH. Currently picking up directional tools to TIH and kick off of top plug. BHT 252 F.												
							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				1 1 1 1 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.														
							INCLUDING 3RD PARTY CHARGES					\$10,693.64		\$174,638.56					





### THIRD PARTY COST SHEET

[illegible]

**OUTSOURCE FLUID SOLUTIONS LLC.**

## FLUID VOLUME ACCOUNTING

Operator:	MAGNOLIA OIL & GAS
Rig Name:	248
Well Name:	ROMMEL UNIT 3H

		WEEK 1							WEEK 2							WEEK 3							
		Date	8/3/21	8/4/21	8/5/21	8/6/21	8/7/21	8/8/21	8/9/21	8/10/21	8/11/21	8/12/21	8/13/21	8/14/21	8/15/21	8/16/21	8/17/21	8/18/21	8/19/21	8/20/21	8/21/21	8/22/21	8/23/21
		Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	
Grand Totals	Bit Size	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	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4				
	Starting Depth	3,523	5,494	9,445	11,022	11,022	11,022	11,022	11,022	11,022	11,022	11,022	11,078	11,762	11,762	11,762	11,762	11,762	11,762	11,022			
	Ending Depth	5,494	9,445	11,022	11,022	11,022	11,022	11,022	11,022	11,022	11,022	11,078	11,762	11,762	11,762	11,762	11,762	11,762	11,022				
8,239	Footage Drilled	1,971	3,951	1,577	-	-	-	-	-	-	-	56	684	-	-	-	-	-	-	-	-	-	
745	New Hole Vol.	189	374	149	-	-	-	-	-	-	-	2	30	-	-	-	-	-	-	-	-	-	
	Starting System Volume	3,304	3,277	3,130	3,549	3,519	507	3,422	507	507	507	3,375	3,393	3,338	3,340	3,787	3,786	3,676	3,672	3,672	3,672	3,672	
50	Chemical Additions	2	7	2							6	3	4	8	6		8	4					
690	Base Fluid Added	117	173	166		38					1	16	49	10	1	24	51	44					
77	Barite Increase											35	21				7	14					
6,743	Weighted Mud Added			474			2,915				2,915				439								
-	Slurry Added																						
72	Water Added	25	20	25											1	1							
-	Added for Washout																						
7,632	Total Additions	144	200	667	-	38	2,915	-	-	-	2,922	54	74	18	447	25	66	62	-	-	-	-	
-	Surface Losses																						
-	Formation Loss																						
486	Mud Loss to Cuttings	104	206	81								6	89										
711	Unrecoverable Volume	27	100	128	30	89					54			15		26	176	67					
191	Centrifuge Losses	40	41	40								30	40										
1,388	Total Losses	171	347	249	30	89	-	-	-	-	54	36	129	15	-	26	176	67	-	-	-	-	
5,876	Mud Transferred Out					2,961		2,915															
3,672	Ending System Volume	3,277	3,130	3,549	3,519	507	3,422	507	507	507	3,375	3,393	3,338	3,340	3,787	3,786	3,676	3,672	3,672	3,672	3,672	3,672	
-	Mud Recovered																						
4,171	Comments:							Comments:							Comments:								
	8/3/21	2975 bbls Transferred F/ Redwood A1H. 329 bbls was in the casing.							8/10/21							8/17/21 Lost 26bls unrecoverable while POOH wet due to plugged pipe during cement job.							
	8/4/21								8/11/21							8/18/21 Dumped 113bls of mud/spacer interface from 1st cement plug and additional 63bls of mud/spacer interface from 2nd cement plug job.							
	8/5/21	474 BBLS 14 # received from mud plant							8/12/21 Lost 54bls to cement job, skid, and line/stack flushing.							8/19/21 Lost 66bls to mud left in open hole below cement, POOH, and to shakers while drilling out cement and circulating.							
	8/6/21								8/13/21 Lost 6bls to MOC of new hole drilled. Lost additional 30bls to tripping 2000' wet to pick up reamer and to shakers while drilling out cement.							8/20/21							
	8/7/21	2961 BBLS Transferred T/ Rommel Unit 4H. 507 Left in casing.							8/14/21 Lost 89bls to cuttings at shakers while drilling and circulating at TD. Lost 40bls to centrifuges while processing on active and effluent under drying shakers while drilling and circulating.							8/21/21							
	8/8/21								8/15/21 Lost 15bls while finishing POOH and running wireline logs.							8/22/21							
8/9/21								8/16/21 Received 439bls of 17.5ppg OBM from mud plant. No losses during wireline operators.							8/23/21								

08/20/21

110 Old Market St.  
St Martinville, LA 70582

Report #16

TEL: (337) 394-1078

OUTSOURCE FLUID SOLUTIONS LLC.

13.4° 10,945' TVD

Operator <b>MAGNOLIA OIL &amp; GAS</b>				Contractor <b>PATTERSON</b>			County / Parish / Block <b>WASHINGTON</b>		Engineer Start Date <b>07/14/21</b>		24 hr fig. <b>21 ft</b>		Drilled Depth <b>11,043 ft</b>			
Well Name and No. <b>ROMMEL UNIT 3H</b>				Rig Name and No. <b>248</b>			State <b>TEXAS</b>		Spud Date <b>07/14/21</b>		Current ROP <b>1 ft/hr</b>		Activity <b>TIME DRILL</b>			
Report for <b>BRANDON PARKS / JAMES DYER</b>				Report for <b>Tool Pusher</b>			Field / OCS-G # <b>GIDDINGS (AC)</b>		Fluid Type <b>OBM</b>		Circulating Rate <b>275 gpm</b>		Circulating Pressure <b>1,954 psi</b>			
MUD PROPERTY SPECIFICATIONS							MUD VOLUME (BBL)		PUMP #1		PUMP #2		RISER BOOSTER			
Weight <b>9.8-12</b>	PV <b>10-25</b>	YP <b>6-20</b>	E.S. <b>&gt;350</b>	CaCl2 <b>±290K</b>	GELS <b>&lt;10 &lt;15</b>	HTHP <b>&lt;10</b>	In Pits 594 bbl	Liner Size 4.75	Liner Size 4.75	Liner Size						
							In Hole 445 bbl	Stroke 12	Stroke 12	Stroke						
				8/20/21		8/19/21	Active 1039 bbl	bbl/stk 0.0625	bbl/stk 0.0625	bbl/stk 0.0000						
Time Sample Taken				0:30		15:00	Storage <u>2704 bbl</u>	stk/min 52	stk/min 53	stk/min						
Sample Location				pit		shaker	Tot. on Location 3743 bbl	gal/min 136	gal/min 139	gal/min 0						
Flowline Temperature °F				138 °F		135 °F	PHHP = 314 CIRCULATION DATA n = 0.684 K = 199.903									
Depth (ft)				11,040'		11,028'	Bit Depth = 11,043 '		Washout = 5%		Pump Efficiency = 95%					
Mud Weight (ppg)				10.5		10.5	Drill String Disp.  61.9 bbl	Volume to Bit 156.2 bbl	Strokes To Bit 2,500	Time To Bit 24 min						
Funnel Vis (sec/qt) @ 130 °F				50		55		Bottoms Up Vol. 289.0 bbl	BottomsUp Stks 4,627	BottomsUp Time 44 min						
600 rpm				45		50		TotalCirc.Vol. 1039.2 bbl	TotalCirc.Stks 16,636	Total Circ. Time 158 min						
300 rpm				28		31	DRILLING ASSEMBLY DATA					SOLIDS CONTROL				
200 rpm				20		22	Tubulars	OD (in.)	ID (in.)	Length	Top	Unit	Screens	Hours		
100 rpm				13		15	Drill Pipe	4.500	3.826	10,923'	0'	Shaker 1	170	24.0		
6 rpm				6		6	Collars	5.250	2.688	120'	10,923'	Shaker 2	170	24.0		
3 rpm				5		5	Collars				11,043'	Shaker 3	170	24.0		
Plastic Viscosity (cp) @ 150 °F				17		19	Dir. BHA				11,043'	Desander				
Yield Point (lb/100 ft²) T0 = 4				11		12	CASING & HOLE DATA					Desilter				
Gel Strength (lb/100 ft²) 10 sec/10 min				6/9		5/9	Casing	OD (in.)	ID (in.)	Depth	Top	Centrifuge 1		0.0		
Gel Strength (lb/100 ft²) 30 min				10		11	Riser	20				VOLUME ACCOUNTING (bbls)				
HTHP Filtrate (cm/30 min) @ 300 °F				3.2		4.0	Surface	10 3/4	9.950	3,518'	0'	Prev. Total on Location 3672.1				
HTHP Cake Thickness (32nds)				2.0		2.0	Int. Csg.	7 5/8	6.875	11,014'	0'	Transferred In(+)/Out(-)				
Retort Solids Content				16%		15.5%	Washout 1					Oil Added (+)	66.1			
Corrected Solids (vol%)				13.2%		12.4%	Washout 2					Barite Added (+)	7.4			
Retort Oil Content				60%		58.5%	Open Hole Size 7.088 11,043'					Other Product Usage (+)	9.4			
Retort Water Content				24%		26%	ANNULAR GEOMETRY & RHEOLOGY					Water Added (+)				
O/W Ratio				71:29		69:31	annular section	meas. depth	velocity ft/min	flow reg	ECD lb/gal	Left on Cuttings (-)	-1.5			
Whole Mud Chlorides (mg/L)				68,000		74,500						Mud on Cuttings	-10.3			
Water Phase Salinity (ppm)				307,618		310,020						Non-Recoverable Vol. (-)				
Whole Mud Alkalinity, Pom				3.7		4.0	6.875x4.5 10,923' 249.9 lam 12.10					Est. Total on Location	3743.2			
Excess Lime (lb/bbl)				4.8 ppb		5.2 ppb	6.875x5.25 11,014' 342.7 turb 12.10					Est. Losses/Gains (-)/(+) 0.0				
Electrical Stability (volts)				417 v		475 v	7.088x5.25 11,043' 297.7 turb 12.10					BIT HYDRAULICS DATA				
Average Specific Gravity of Solids				3.11		3.15						Bit H.S.I.	Bit ΔP	Nozzles (32nds)		
Percent Low Gravity Solids				7.5%		6.7%						0.15	33 psi	18	18	18
ppb Low Gravity Solids				61 ppb		55 ppb						Bit Impact Force	Nozzle Velocity (ft/sec)	18	18	18
Percent Barite				5.7%		5.7%										
ppb Barite				82 ppb		82 ppb	BIT DATA		Manuf./Type		SECURITY / PDC		89 lbs	59		
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	M Washburn	6 3/4	11,022 ft	17.0	29 ft	1.7	1,004 psi	1,954 psi			
Remarks/Recommendations:  TOTAL OBM RECEIVED: 3861 bls  Plan Forward: Finish establishing sidetrack separation and  POOH for curve lateral assembly.							Rig Activity:  Trip in hole with directional assembly BHA #4 to 11,022'. Time drill at 1'/hr from 11,022' to 11,041'. Currently drilling curve at 11,043' (29' out of casing shoe). Samples are currently 100% AC. Adding diesel for oil wetting of solids, Bentone 910/990 to maintain rheological properties, Optimul HP for ES, Lime for alkalinities, and OptiG to reduce HTHP. Maintaining mud wt at 10.5ppg. Rigging up mud chiller unit. GAS 40units, Torque 2000, BHT 216F.									
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 E C g G H O 1 1 1 1 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.								\$7,786.21		\$118,716.52		
							INCLUDING 3RD PARTY CHARGES					\$13,851.81		\$188,490.37		



### THIRD PARTY COST SHEET

[illegible]

## FLUID VOLUME ACCOUNTING

Operator:	MAGNOLIA OIL & GAS
Rig Name:	248
Well Name:	ROMMEL UNIT 3H

4,171

08/21/21

110 Old Market St.  
St Martinville, LA 70582

Report #17

TEL: (337) 394-1078

OUTSOURCE FLUID SOLUTIONS LLC.

42.8° 11,126' TVD

Operator				Contractor			County / Parish / Block			Engineer Start Date			24 hr fig.		Drilled Depth																	
MAGNOLIA OIL & GAS							PATTERSON			WASHINGTON			07/14/21			225 ft		11,268 ft														
Well Name and No.							Rig Name and No.			State			Spud Date			Current ROP		Activity														
ROMMEL UNIT 3H							248			TEXAS			07/14/21			0 ft/hr		DRILLING														
Report for							Report for			Field / OCS-G #			Fluid Type			Circulating Rate		Circulating Pressure														
BRANDON PARKS / JAMES DYER							Tool Pusher			GIDDINGS (AC)			OBM			383 gpm		4,630 psi														
MUD PROPERTY SPECIFICATIONS							MUD VOLUME (BBL)			PUMP #1			PUMP #2			RISER BOOSTER																
Weight		PV		YP		E.S.		CaCl2		GELS		HTHP		In Pits		513 bbl		Liner Size		4.75		Liner Size		4.75		Liner Size						
9.8-12		10-25		6-20		>350		±290K		<10 <15		<10		In Hole		455 bbl		Stroke		12		Stroke		12		Stroke						
							8/21/21				8/20/21		Active		968 bbl		bbl/stk		0.0625		bbl/stk		0.0625		bbl/stk		0.0000					
Time Sample Taken							0:30				14:00		Storage		2704 bbl		stk/min		73		stk/min		73		stk/min							
Sample Location							pit				pit		Tot. on Location		3672 bbl		gal/min		192		gal/min		192		gal/min		0					
Flowline Temperature °F													PHHP = 1035 CIRCULATION DATA n = 0.684 K = 199.903																			
Depth (ft)							11,266'				11,266'		Bit Depth = 11,268 '				Washout = 5%			Pump Efficiency = 95%												
Mud Weight (ppg)							10.6				10.5		Drill String Disp.		Volume to Bit		159.3 bbl		Strokes To Bit		2,550		Time To Bit				17 min					
Funnel Vis (sec/qt)							@ 113 °F		52		53				Bottoms Up Vol.		295.5 bbl		BottomsUp Stks		4,731		BottomsUp Time				32 min					
600 rpm							45				47				63.3 bbl		TotalCirc.Vol.		967.8 bbl		TotalCirc.Stks		15,493		Total Circ. Time				106 min			
300 rpm							28				29		DRILLING ASSEMBLY DATA							SOLIDS CONTROL												
200 rpm							22				22		Tubulars		OD (in.)		ID (in.)		Length		Top		Unit		Screens		Hours					
100 rpm							14				15		Drill Pipe		4.500		3.826		11,136'		0'		Shaker 1		170		11.0					
6 rpm							6				6		Collars		5.250		2.688		132'		11,136'		Shaker 2		170		11.0					
3 rpm							5				5		Collars								11,268'		Shaker 3		170		11.0					
Plastic Viscosity (cp)							@ 150 °F		17		18		Dir. BHA								11,268'		Desander									
Yield Point (lb/100 ft²)							T0 = 4		11		11		CASING & HOLE DATA							Desilter												
Gel Strength (lb/100 ft²)							10 sec/10 min		6/9		6/9		Casing		OD (in.)		ID (in.)		Depth		Top		Centrifuge 1		0.0							
Gel Strength (lb/100 ft²)							30 min		10		11		Riser		20								VOLUME ACCOUNTING (bbIs)									
HTHP Filtrate (cm/30 min)							@ 300 °F		3.8		3.0		Surface		10 3/4		9.950		3,518'		0'		Prev. Total on Location					3743.2				
HTHP Cake Thickness (32nds)									2.0		2.0		Int. Csg.		7 5/8		6.875		11,014'		0'		Transferred In(+)/Out(-)									
Retort Solids Content									16.5%		15.5%		Washout 1							Oil Added (+)					17.8							
Corrected Solids (vol%)									13.9%		12.4%		Washout 2							Barite Added (+)					7.0							
Retort Oil Content									61%		60.5%		Open Hole Size							7.088		11,268'		Other Product Usage (+)					0.0			
Retort Water Content									22.5%		24%		ANNULAR GEOMETRY & RHEOLOGY							Water Added (+)												
O/W Ratio									73:27		72:28		annular section		meas. depth		velocity ft/min		flow reg		ECD lb/gal		Left on Cuttings (-)					-16.5				
Whole Mud Chlorides (mg/L)									63,000		74,500												Mud on Cuttings									
Water Phase Salinity (ppm)									305,104		327,396									Non-Recoverable Vol. (-)					-79.7							
Whole Mud Alkalinity, Pom									3.4		3.5		6.875x4.5		11,014'		347.5		turb		11.68		Est. Total on Location					3671.8				
Excess Lime (lb/bbl)									4.4 ppb		4.6 ppb		7.088x4.5		11,136'		313.0		turb		11.68		Est. Losses/Gains (-)/(+)					0.0				
Electrical Stability (volts)									410 v		435 v		7.088x5.25		11,268'		414.0		turb		11.69		BIT HYDRAULICS DATA									
Average Specific Gravity of Solids									3.14		3.19									Bit H.S.I.		Bit ΔP		Nozzles (32nds)								
Percent Low Gravity Solids									7.6%		6.5%									0.40		64 psi		18		18		18				
ppb Low Gravity Solids									63 ppb		53 ppb									Bit Impact Force		Nozzle Velocity (ft/sec)		18		18		18				
Percent Barite									6.2%		5.9%																					
ppb Barite									90 ppb		85 ppb		BIT DATA			Manuf./Type			SECURITY / PDC			173 lbs		82								
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		M Washburn		6 3/4		11,022 ft		17.0		29 ft		1.7		2,932 psi		4,656 psi							
Remarks/Recommendations:											Rig Activity:																					
TOTAL OBM RECEIVED: 3861 bls																																
Plan Forward: Finish building curve and drill lateral section.											Drill curve to 11,266' (inc 42°). Samples were 100% AC. Pumped 20bls sweep and circulate hole clean. Flow check and POOH. Pick up curve/lateral BHA and TIH to 10,854'. Slip and cut drill line. Wash/ream to bottom. Drilling ahead at 11,268' at time of report. Adding diesel for LGS control and oil wetting of solids. Maintaining mud wt at 10.5ppg. Finished rigging up mud chiller unit. GAS 101 units, Torque 6000, BHT 226F.																					
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:			-						\$2,740.00			\$121,456.52		
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.																		\$2,740.00			\$121,456.52		
1	1	1	1	2	1	1	1	1																INCLUDING 3RD PARTY CHARGES			\$4,408.04			\$192,898.41		





### THIRD PARTY COST SHEET

[illegible]

OUTSOURCE FLUID SOLUTIONS LLC.

FLUID  
VOLUME  
ACCOUNTING

Operator:	MAGNOLIA OIL & GAS
Rig Name:	248
Well Name:	ROMMEL UNIT 3H

	Date	WEEK 1							WEEK 2							WEEK 3						
		8/3/21	8/4/21	8/5/21	8/6/21	8/7/21	8/8/21	8/9/21	8/10/21	8/11/21	8/12/21	8/13/21	8/14/21	8/15/21	8/16/21	8/17/21	8/18/21	8/19/21	8/20/21	8/21/21	8/22/21	8/23/21
		Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon
Grand Totals	Bit Size	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	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4		
	Starting Depth	3,523	5,494	9,445	11,022	11,022	11,022	11,022	11,022	11,022	11,022	11,022	11,078	11,762	11,762	11,762	11,762	11,762	11,022	11,043	11,266	
	Ending Depth	5,494	9,445	11,022	11,022	11,022	11,022	11,022	11,022	11,022	11,022	11,078	11,762	11,762	11,762	11,762	11,762	11,022	11,043	11,266		
8,483	Footage Drilled	1,971	3,951	1,577	-	-	-	-	-	-	-	56	684	-	-	-	-	-	21	223	-	-
756	New Hole Vol.	189	374	149	-	-	-	-	-	-	-	2	30	-	-	-	-	-	1	10	-	-
	Starting System Volume	3,304	3,277	3,130	3,549	3,519	507	3,422	507	507	507	3,375	3,393	3,338	3,340	3,787	3,786	3,676	3,672	3,743	3,672	3,672
59	Chemical Additions	2	7	2							6	3	4	8	6		8	4	9			
774	Base Fluid Added	117	173	166		38					1	16	49	10	1	24	51	44	66	18		
92	Barite Increase											35	21				7	14	8	7		
6,743	Weighted Mud Added			474			2,915				2,915				439							
-	Slurry Added																					
72	Water Added	25	20	25											1	1						
-	Added for Washout																					
7,740	Total Additions	144	200	667	-	38	2,915	-	-	-	2,922	54	74	18	447	25	66	62	83	25	-	-
-	Surface Losses																					
-	Formation Loss																					
514	Mud Loss to Cuttings	104	206	81								6	89						12	16		
790	Unrecoverable Volume	27	100	128	30	89					54			15		26	176	67		79		
191	Centrifuge Losses	40	41	40								30	40									
1,495	Total Losses	171	347	249	30	89	-	-	-	-	54	36	129	15	-	26	176	67	12	95	-	-
5,876	Mud Transferred Out					2,961		2,915														
3,672	Ending System Volume	3,277	3,130	3,549	3,519	507	3,422	507	507	507	3,375	3,393	3,338	3,340	3,787	3,786	3,676	3,672	3,743	3,672	3,672	3,672
-	Mud Recovered																					
4,171	Comments:								Comments:							Comments:						
	8/3/21	2975 bbls Transferred F/ Redwood A1H. 329 bbls was in the casing.							8/10/21							8/17/21	Lost 26bbls unrecoverable while POOH wet due to plugged pipe during cement job.					
	8/4/21								8/11/21							8/18/21	Dumped 113bbls of mud/spacer interface from 1st cement plug and additional 63bbls of mud/spacer interface from 2nd cement plug job.					
	8/5/21	474 BBLS 14 # received from mud plant							8/12/21	Lost 54bbls to cement job, skid, and line/stack flushing.						8/19/21	Lost 66bbls to mud left in open hole below cement, POOH, and to shakers while drilling out cement and circulating.					
	8/6/21								8/13/21	Lost 6bbls to MOC of new hole drilled. Lost additional 30bbls to tripping 2000' wet to pick up reamer and to shakers while drilling out cement.						8/20/21	Lost 12bbls to cuttings at shakers while time drilling and TIH.					
	8/7/21	2961 BBLS Transferred T/ Rommel Unit 4H. 507 Left in casing.							8/14/21	Lost 89bbls to cuttings at shakers while drilling and circulating at TD. Lost 40bbls to centrifuges while processing on active and effluent under drying shakers while drilling and circulating.						8/21/21	Lost 16bbls to MOC while drilling/circulating. Lost 79bbls to open top from shaker overflow when pumping out trip tanks.					
	8/8/21								8/15/21	Lost 15bbls while finishing POOH and running wireline logs.						8/22/21						
	8/9/21								8/16/21	Received 439bbls of 17.5ppg OBM from mud plant. No losses during wireline operatons.						8/23/21						

08/22/21

110 Old Market St.  
St Martinville, LA 70582

Report #18

TEL: (337) 394-1078

OUTSOURCE FLUID SOLUTIONS LLC.

86.9° 11,401' TVD

Operator <b>MAGNOLIA OIL &amp; GAS</b>				Contractor <b>PATTERSON</b>			County / Parish / Block <b>WASHINGTON</b>			Engineer Start Date <b>07/14/21</b>		24 hr fig. <b>2,117 ft</b>		Drilled Depth <b>13,385 ft</b>			
Well Name and No. <b>ROMMEL UNIT 3H</b>				Rig Name and No. <b>248</b>			State <b>TEXAS</b>			Spud Date <b>07/14/21</b>		Current ROP <b>194 ft/hr</b>		Activity <b>DRLG LATERAL</b>			
Report for <b>BRANDON PARKS / JAMES DYER</b>				Report for <b>Tool Pusher</b>			Field / OCS-G # <b>GIDDINGS (AC)</b>			Fluid Type <b>OBM</b>		Circulating Rate <b>378 gpm</b>		Circulating Pressure <b>5,040 psi</b>			
MUD PROPERTY SPECIFICATIONS							MUD VOLUME (BBL)			PUMP #1		PUMP #2		RISER BOOSTER			
Weight <b>9.8-12</b>	PV <b>10-25</b>	YP <b>6-20</b>	E.S. <b>&gt;350</b>	CaCl2 <b>±290K</b>	GELS <b>&lt;10 &lt;15</b>	HTHP <b>&lt;10</b>	In Pits 550 bbl	In Hole 547 bbl	Liner Size 4.75	Stroke 12	Liner Size 4.75	Stroke 12	Liner Size				
				8/22/21		8/21/21	Active 1097 bbl		bbl/stk 0.0625		bbl/stk 0.0625		bbl/stk 0.0000				
Time Sample Taken				0:30		14:00	Storage <u>2636 bbl</u>		stk/min 72		stk/min 72		stk/min				
Sample Location				pit		shaker	Tot. on Location 3733 bbl		gal/min 189		gal/min 189		gal/min 0				
Flowline Temperature °F				116 °F		124 °F	PHHP = 1111 CIRCULATION DATA n = 0.708 K = 185.191										
Depth (ft)				13,350'		12,290'	Bit Depth = 13,385 '			Washout = 5%		Pump Efficiency = 95%					
Mud Weight (ppg)				10.5		10.6	Drill String Disp.  74.9 bbl	Volume to Bit 189.4 bbl	Strokes To Bit 3,032		Time To Bit 21 min						
Funnel Vis (sec/qt) @ 91 °F				61		58		Bottoms Up Vol. 357.2 bbl	BottomsUp Stks 5,718		BottomsUp Time 40 min						
600 rpm				49		44		TotalCirc.Vol. 1096.6 bbl	TotalCirc.Stks 17,555		Total Circ. Time 122 min						
300 rpm				30		27	DRILLING ASSEMBLY DATA					SOLIDS CONTROL					
200 rpm				22		21	Tubulars	OD (in.)	ID (in.)	Length	Top	Unit	Screens	Hours			
100 rpm				14		13	Drill Pipe	4.500	3.826	13,253'	0'	Shaker 1	170	24.0			
6 rpm				6		6	Collars	5.250	2.688	132'	13,253'	Shaker 2	170	24.0			
3 rpm				5		5	Collars				13,385'	Shaker 3	170	24.0			
Plastic Viscosity (cp) @ 150 °F				19		17	Dir. BHA				13,385'	Desander					
Yield Point (lb/100 ft²) T0 = 4				11		10	CASING & HOLE DATA					Desilter					
Gel Strength (lb/100 ft²) 10 sec/10 min				7/11		6/8	Casing	OD (in.)	ID (in.)	Depth	Top	Centrifuge 1		2.0			
Gel Strength (lb/100 ft²) 30 min				13		10	Riser	20				VOLUME ACCOUNTING (bbIs)					
HTHP Filtrate (cm/30 min) @ 300 °F				3.6		3.0	Surface	10 3/4	9.950	3,518'	0'	Prev. Total on Location		3671.8			
HTHP Cake Thickness (32nds)				2.0		2.0	Int. Csg.	7 5/8	6.875	11,014'	0'	Transferred In(+)/Out(-)					
Retort Solids Content				16%		16%	Washout 1					Oil Added (+)		91.5			
Corrected Solids (vol%)				13.6%		13.5%	Washout 2					Barite Added (+)		0.0			
Retort Oil Content				61.5%		62%	Open Hole Size 7.088 13,385'					Other Product Usage (+)		7.4			
Retort Water Content				22.5%		22%	ANNULAR GEOMETRY & RHEOLOGY					Water Added (+)		65.2			
O/W Ratio				73:27		74:26	annular section	meas. depth	velocity ft/min	flow reg	ECD lb/gal	Left on Cuttings (-)		-103.3			
Whole Mud Chlorides (mg/L)				58,000		62,000						Mud on Cuttings					
Water Phase Salinity (ppm)				287,859		306,478						Non-Recoverable Vol. (-)					
Whole Mud Alkalinity, Pom				2.8		3.2	6.875x4.5	11,014'	342.8	turb	11.77	Est. Total on Location		3732.6			
Excess Lime (lb/bbl)				3.6 ppb		4.2 ppb	7.088x4.5	13,253'	308.8	turb	12.03	Est. Losses/Gains (-)/(+)		0.0			
Electrical Stability (volts)				533 v		495 v	7.088x5.25	13,385'	408.3	turb	12.21	BIT HYDRAULICS DATA					
Average Specific Gravity of Solids				3.17		3.23						Bit H.S.I.	Bit ΔP	Nozzles (32nds)			
Percent Low Gravity Solids				7.2%		6.7%						0.38	62 psi	18	18		
ppb Low Gravity Solids				59 ppb		55 ppb						Bit Impact Force	Nozzle Velocity (ft/sec)	18	18		
Percent Barite				6.4%		6.7%											
ppb Barite				92 ppb		97 ppb	BIT DATA		Manuf./Type SECURITY / PDC			168 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	0	M Washburn	6 3/4	11,022 ft	41.0	2,146 ft	52.3	3,054 psi	5,040 psi				
Remarks/Recommendations:  TOTAL OBM RECEIVED: 3861 bls  Plan Forward: Drill lateral section to TD.							Rig Activity:  Drill curve from 11,266' to LP 11,804'MD (11,318'TVD). Identified ash marker at 11,600'. Pumping 10 bbls LCM sweep every 300' in lateral section. Operate centrifuge as needed to control wt. and process active mud thru cooling unit continuously. Mud Temp in suction 91 F. Currently rotating at 13,385'. Adding diesel/water for LGS control and volume, Lime for alkalinity, OptiG for HTHP control, and Bentone 990 for low end rheologies. Maintaining MW at 10.5ppg. Pumping 10bls LCM sweeps every 300'. Running mud chiller full time. GAS 740 units, Torque 8800, ROP 194'/hr, BHT 277F.										
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: -						\$4,050.57		\$125,507.09			
W 1	P 1	Y 1	E 1	C 1	g 1	G 1	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.							\$125,507.09	
									INCLUDING 3RD PARTY CHARGES				\$12,618.23		\$205,516.64		



### THIRD PARTY COST SHEET

[illegible]

OUTSOURCE FLUID SOLUTIONS LLC.

FLUID  
VOLUME  
ACCOUNTING

Operator:	MAGNOLIA OIL & GAS
Rig Name:	248
Well Name:	ROMMEL UNIT 3H

	Date	WEEK 1							WEEK 2							WEEK 3						
		8/3/21	8/4/21	8/5/21	8/6/21	8/7/21	8/8/21	8/9/21	8/10/21	8/11/21	8/12/21	8/13/21	8/14/21	8/15/21	8/16/21	8/17/21	8/18/21	8/19/21	8/20/21	8/21/21	8/22/21	8/23/21
		Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon
Grand Totals	Bit Size	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	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	
	Starting Depth	3,523	5,494	9,445	11,022	11,022	11,022	11,022	11,022	11,022	11,022	11,022	11,078	11,762	11,762	11,762	11,762	11,762	11,022	11,043	11,266	13,385
	Ending Depth	5,494	9,445	11,022	11,022	11,022	11,022	11,022	11,022	11,022	11,022	11,078	11,762	11,762	11,762	11,762	11,762	11,022	11,043	11,266	13,385	
10,602	Footage Drilled	1,971	3,951	1,577	-	-	-	-	-	-	-	56	684	-	-	-	-	-	21	223	2,119	-
850	New Hole Vol.	189	374	149	-	-	-	-	-	-	-	2	30	-	-	-	-	-	1	10	94	-
	Starting System Volume	3,304	3,277	3,130	3,549	3,519	507	3,422	507	507	507	3,375	3,393	3,338	3,340	3,787	3,786	3,676	3,672	3,743	3,672	3,733
66	Chemical Additions	2	7	2							6	3	4	8	6		8	4	9		7	
866	Base Fluid Added	117	173	166		38					1	16	49	10	1	24	51	44	66	18	92	
92	Barite Increase											35	21				7	14	8	7		
6,743	Weighted Mud Added			474			2,915				2,915				439							
-	Slurry Added																					
137	Water Added	25	20	25											1	1					65	
-	Added for Washout																					
7,904	Total Additions	144	200	667	-	38	2,915	-	-	-	2,922	54	74	18	447	25	66	62	83	25	164	-
-	Surface Losses																					
-	Formation Loss																					
617	Mud Loss to Cuttings	104	206	81								6	89						12	16	103	
790	Unrecoverable Volume	27	100	128	30	89					54			15		26	176	67		79		
191	Centrifuge Losses	40	41	40								30	40									
1,598	Total Losses	171	347	249	30	89	-	-	-	-	54	36	129	15	-	26	176	67	12	95	103	-
5,876	Mud Transferred Out					2,961		2,915														
3,733	Ending System Volume	3,277	3,130	3,549	3,519	507	3,422	507	507	507	3,375	3,393	3,338	3,340	3,787	3,786	3,676	3,672	3,743	3,672	3,733	3,733
-	Mud Recovered																					
4,171	Comments:								Comments:							Comments:						
	8/3/21	2975 bbls Transferred F/ Redwood A1H. 329 bbls was in the casing.							8/10/21							8/17/21	Lost 26bbls unrecoverable while POOH wet due to plugged pipe during cement job.					
	8/4/21								8/11/21							8/18/21	Dumped 113bbls of mud/spacer interface from 1st cement plug and additional 63bbls of mud/spacer interface from 2nd cement plug job.					
	8/5/21	474 BBLS 14 # received from mud plant							8/12/21	Lost 54bbls to cement job, skid, and line/stack flushing.						8/19/21	Lost 66bbls to mud left in open hole below cement, POOH, and to shakers while drilling out cement and circulating.					
	8/6/21								8/13/21	Lost 6bbls to MOC of new hole drilled. Lost additional 30bbls to tripping 2000' wet to pick up reamer and to shakers while drilling out cement.						8/20/21	Lost 12bbls to cuttings at shakers while time drilling and TIH.					
	8/7/21	2961 BBLS Transferred T/ Rommel Unit 4H. 507 Left in casing.							8/14/21	Lost 89bbls to cuttings at shakers while drilling and circulating at TD. Lost 40bbls to centrifuges while processing on active and effluent under drying shakers while drilling and circulating.						8/21/21	Lost 16bbls to MOC while drilling/circulating. Lost 79bbls to open top from shaker overflow when pumping out trip tanks.					
	8/8/21								8/15/21	Lost 15bbls while finishing POOH and running wireline logs.						8/22/21	Lost 103bbls to mud on cuttings while drilling.					
	8/9/21								8/16/21	Received 439bbls of 17.5ppg OBM from mud plant. No losses during wireline operatons.						8/23/21						

08/23/21

110 Old Market St.  
St Martinville, LA 70582

Report #19

TEL: (337) 394-1078

OUTSOURCE FLUID SOLUTIONS LLC.

87.8° 11,582' TVD

Operator				Contractor			County / Parish / Block			Engineer Start Date			24 hr fig.		Drilled Depth																
MAGNOLIA OIL & GAS							PATTERSON			WASHINGTON			07/14/21			2,653 ft		16,038 ft													
Well Name and No.							Rig Name and No.			State			Spud Date			Current ROP		Activity													
ROMMEL UNIT 3H							248			TEXAS			07/14/21			56 ft/hr		DRLG LATERAL													
Report for							Report for			Field / OCS-G #			Fluid Type			Circulating Rate		Circulating Pressure													
BRANDON PARKS / JAMES DYER							Tool Pusher			GIDDINGS (AC)			OBM			378 gpm		5,590 psi													
MUD PROPERTY SPECIFICATIONS							MUD VOLUME (BBL)			PUMP #1			PUMP #2			RISER BOOSTER															
Weight		PV		YP		E.S.		CaCl2		GELS		HTHP		In Pits		546 bbl		Liner Size		4.75		Liner Size		4.75		Liner Size					
9.8-12		10-25		6-20		>350		±290K		<10 <15		<10		In Hole		662 bbl		Stroke		12		Stroke		12		Stroke					
							8/23/21				8/22/21		Active		1208 bbl		bbl/stk		0.0625		bbl/stk		0.0625		bbl/stk		0.0000				
Time Sample Taken							0:30				14:00		Storage		2600 bbl		stk/min		72		stk/min		72		stk/min						
Sample Location							pit				shaker		Tot. on Location		3808 bbl		gal/min		189		gal/min		189		gal/min		0				
Flowline Temperature °F							119 °F				118 °F		PHHP = 1232 CIRCULATION DATA n = 0.718 K = 179.335																		
Depth (ft)							15,912'				15,003'		Bit Depth = 16,038 '				Washout = 5%				Pump Efficiency = 95%										
Mud Weight (ppg)							10.5				10.5		Drill String Disp.		Volume to Bit		227.1 bbl		Strokes To Bit		3,636		Time To Bit				25 min				
Funnel Vis (sec/qt)							@ 101 °F		64		58		Bottoms Up Vol.		434.5 bbl		BottomsUp Stks		6,955		BottomsUp Time				48 min						
600 rpm							51				44		89.3 bbl		TotalCirc.Vol.		1207.6 bbl		TotalCirc.Stks		19,332		Total Circ. Time				134 min				
300 rpm							31				27		DRILLING ASSEMBLY DATA							SOLIDS CONTROL											
200 rpm							23				21		Tubulars		OD (in.)		ID (in.)		Length		Top		Unit		Screens		Hours				
100 rpm							15				13		Drill Pipe		4.500		3.826		15,906'		0'		Shaker 1		170		24.0				
6 rpm							6				6		Collars		5.250		2.688		132'		15,906'		Shaker 2		170		24.0				
3 rpm							5				5		Collars						16,038'				Shaker 3		170		24.0				
Plastic Viscosity (cp)							@ 150 °F		20		17		Dir. BHA						16,038'				Desander								
Yield Point (lb/100 ft²)							T0 = 4		11		10		CASING & HOLE DATA							Desilter											
Gel Strength (lb/100 ft²)							10 sec/10 min		7/10		6/8		Casing		OD (in.)		ID (in.)		Depth		Top		Centrifuge 1		0.0						
Gel Strength (lb/100 ft²)							30 min		12		10		Riser		20								VOLUME ACCOUNTING (bbIs)								
HTHP Filtrate (cm/30 min)							@ 300 °F		4.4		3.0		Surface		10 3/4		9.950		3,518'		0'		Prev. Total on Location				3732.6				
HTHP Cake Thickness (32nds)									2.0		2.0		Int. Csg.		7 5/8		6.875		11,014'		0'		Transferred In(+)/Out(-)								
Retort Solids Content									16%		16%		Washout 1							Oil Added (+)				129.6							
Corrected Solids (vol%)									13.6%		13.5%		Washout 2							Barite Added (+)				0.0							
Retort Oil Content									60%		62%		Open Hole Size							7.088		16,038'		Other Product Usage (+)				10.5			
Retort Water Content									24%		22%		ANNULAR GEOMETRY & RHEOLOGY							Water Added (+)				64.4							
O/W Ratio									71:29		74:26		annular section		meas. depth		velocity ft/min		flow reg		ECD lb/gal		Left on Cuttings (-)				-129.5				
Whole Mud Chlorides (mg/L)									58,000		62,000												Mud on Cuttings								
Water Phase Salinity (ppm)									274,812		306,478									Non-Recoverable Vol. (-)											
Whole Mud Alkalinity, Pom									3.1		3.2		6.875x4.5		11,014'		342.8		turb		11.68		Est. Total on Location				3807.6				
Excess Lime (lb/bbl)									4 ppb		4.2 ppb		7.088x4.5		15,906'		308.8		turb		11.99		Est. Losses/Gains (-)/(+)				0.0				
Electrical Stability (volts)									417 v		495 v		7.088x5.25		16,038'		408.3		turb		12.06		BIT HYDRAULICS DATA								
Average Specific Gravity of Solids									3.15		3.14									Bit H.S.I.		Bit ΔP		Nozzles (32nds)							
Percent Low Gravity Solids									7.4%		7.4%									0.38		62 psi		18		18		18			
ppb Low Gravity Solids									61 ppb		61 ppb									Bit Impact Force		Nozzle Velocity (ft/sec)		18		18		18			
Percent Barite									6.2%		6%																				
ppb Barite									89 ppb		87 ppb		BIT DATA			Manuf./Type			SECURITY / PDC			168 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		0		M Washburn		6 3/4		11,022 ft		65.0		4,714 ft		72.5		3,243 psi		5,590 psi						
Remarks/Recommendations:											Rig Activity:																				
TOTAL OBM RECEIVED: 3861 bls																															
Plan Forward: Drill lateral section to TD.											Drill from 13,385' to LP 16,038'. Samples 100% AC. Pumping 10bbIs LCM sweeps every 300' drilled. Process active mud thru cooling unit continuously. Mud Temp in suction 101 F. Currently drilling ahead. Adding diesel/water for LGS control and volume. Treating with Lime for alkalinity, CaCl for salinity, OptiWet for oil wetting of solids, OptiMUL for ES, OptiG for HTHP control, and Bentone990 for low end rheologies. Maintaining MW at 10.5ppg. GAS 1500 units, Torque 14000, ROP 128'/hr, BHT 302F.																				
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:			-						\$5,608.41		\$131,115.50		
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.										\$5,608.41		\$131,115.50	
1		1		1		1		0		1		1		1		1												\$17,498.77		\$223,015.41	
																	INCLUDING 3RD PARTY CHARGES					\$17,498.77			\$223,015.41						





### THIRD PARTY COST SHEET

[illegible]

**OUTSOURCE FLUID SOLUTIONS LLC.**

## FLUID VOLUME ACCOUNTING

Operator:	MAGNOLIA OIL & GAS
Rig Name:	248
Well Name:	ROMMEL UNIT 3H

		WEEK 1								WEEK 2								WEEK 3							
		Date	8/3/21	8/4/21	8/5/21	8/6/21	8/7/21	8/8/21	8/9/21	8/10/21	8/11/21	8/12/21	8/13/21	8/14/21	8/15/21	8/16/21	8/17/21	8/18/21	8/19/21	8/20/21	8/21/21	8/22/21	8/23/21		
			Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon		
Grand Totals	Bit Size	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	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4		
	Starting Depth	3,523	5,494	9,445	11,022	11,022	11,022	11,022	11,022	11,022	11,022	11,022	11,022	11,078	11,762	11,762	11,762	11,762	11,762	11,022	11,043	11,266	13,385		
	Ending Depth	5,494	9,445	11,022	11,022	11,022	11,022	11,022	11,022	11,022	11,022	11,022	11,078	11,762	11,762	11,762	11,762	11,762	11,762	11,022	11,043	11,266	13,385		
13,255	Footage Drilled	1,971	3,951	1,577	-	-	-	-	-	-	-	-	56	684	-	-	-	-	-	21	223	2,119	2,653		
967	New Hole Vol.	189	374	149	-	-	-	-	-	-	-	-	2	30	-	-	-	-	-	1	10	94	117		
	Starting System Volume	3,304	3,277	3,130	3,549	3,519	507	3,422	507	507	507	3,375	3,393	3,338	3,340	3,787	3,786	3,676	3,672	3,743	3,672	3,733	3,733		
76	Chemical Additions	2	7	2								6	3	4	8	6		8	4	9		7	10		
996	Base Fluid Added	117	173	166		38						1	16	49	10	1	24	51	44	66	18	92	130		
92	Barite Increase												35	21				7	14	8	7				
6,743	Weighted Mud Added			474			2,915					2,915				439									
-	Slurry Added																								
201	Water Added	25	20	25												1	1					65	64		
-	Added for Washout																								
8,108	Total Additions	144	200	667	-	38	2,915	-	-	-	-	2,922	54	74	18	447	25	66	62	83	25	164	204		
-	Surface Losses																								
-	Formation Loss																								
746	Mud Loss to Cuttings	104	206	81									6	89						12	16	103	129		
790	Unrecoverable Volume	27	100	128	30	89						54			15		26	176	67		79				
191	Centrifuge Losses	40	41	40									30	40											
1,727	Total Losses	171	347	249	30	89	-	-	-	-	-	54	36	129	15	-	26	176	67	12	95	103	129		
5,876	Mud Transferred Out					2,961		2,915																	
3,808	Ending System Volume	3,277	3,130	3,549	3,519	507	3,422	507	507	507	3,375	3,393	3,338	3,340	3,787		3,786	3,676	3,672	3,743	3,672	3,733	3,808		
-	Mud Recovered																								
4,171	Comments:								Comments:								Comments:								
	8/3/21	2975 bbls Transferred F/ Redwood A1H. 329 bbls was in the casing.							8/10/21								8/17/21 Lost 26bls unrecoverable while POOH wet due to plugged pipe during cement job.								
	8/4/21								8/11/21								8/18/21 Dumped 113bls of mud/spacer interface from 1st cement plug and additional 63bls of mud/spacer interface from 2nd cement plug job.								
	8/5/21	474 BBLS 14 # received from mud plant							8/12/21 Lost 54bls to cement job, skid, and line/stack flushing.								8/19/21 Lost 66bls to mud left in open hole below cement, POOH, and to shakers while drilling out cement and circulating.								
	8/6/21								8/13/21 Lost 6bls to MOC of new hole drilled. Lost additional 30bls to tripping 2000' wet to pick up reamer and to shakers while drilling out cement.								8/20/21 Lost 12bls to cuttings at shakers while time drilling and TIH.								
	8/7/21	2961 BBLS Transferred T/ Rommel Unit 4H. 507 Left in casing.							8/14/21 Lost 89bls to cuttings at shakers while drilling and circulating at TD. Lost 40bls to centrifuges while processing on active and effluent under drying shakers while drilling and circulating.								8/21/21 Lost 16bls to MOC while drilling/circulating. Lost 79bls to open top from shaker overflow when pumping out trip tanks.								
	8/8/21								8/15/21 Lost 15bls while finishing POOH and running wireline logs.								8/22/21 Lost 103bls to mud on cuttings while drilling.								
8/9/21								8/16/21 Received 439bls of 17.5ppg OBM from mud plant. No losses during wireline operators.								8/23/21 Lost 129bls to mud on cuttings while drilling.									

08/24/21

110 Old Market St.  
St Martinville, LA 70582

Report #20

TEL: (337) 394-1078

OUTSOURCE FLUID SOLUTIONS LLC.

88.6° 11,681' TVD

Operator				Contractor			County / Parish / Block			Engineer Start Date			24 hr fig.		Drilled Depth				
MAGNOLIA OIL & GAS							PATTERSON			WASHINGTON			07/14/21			1,592 ft		17,630 ft	
Well Name and No.							Rig Name and No.			State			Spud Date			Current ROP		Activity	
ROMMEL UNIT 3H							248			TEXAS			07/14/21			120 ft/hr		DRLG LATERAL	
Report for							Report for			Field / OCS-G #			Fluid Type			Circulating Rate		Circulating Pressure	
BRANDON PARKS / JAMES DYER							Tool Pusher			GIDDINGS (AC)			OBM			378 gpm		5,630 psi	
MUD PROPERTY SPECIFICATIONS							MUD VOLUME (BBL)			PUMP #1			PUMP #2			RISER BOOSTER			
Weight	PV	YP	E.S.	CaCl2	GELS	HTHP	In Pits	565 bbl	Liner Size	4.75	Liner Size	4.75	Liner Size						
9.8-12	10-25	6-20	>350	±290K	<10 <15	<10	In Hole	731 bbl	Stroke	12	Stroke	12	Stroke						
				8/24/21		8/23/21	Active	1296 bbl	bbl/stk	0.0625	bbl/stk	0.0625	bbl/stk	0.0000					
Time Sample Taken				0:30		14:00	Storage	2600 bbl	stk/min	72	stk/min	72	stk/min						
Sample Location				pit		shaker	Tot. on Location	3896 bbl	gal/min	189	gal/min	189	gal/min	0					
Flowline Temperature °F				120 °F		122 °F	PHHP = 1241 CIRCULATION DATA n = 0.746 K = 150.588												
Depth (ft)				17,580'		17,114'	Bit Depth = 17,630 '			Washout = 5%			Pump Efficiency = 95%						
Mud Weight (ppg)				10.5		10.5	Drill String Disp.	Volume to Bit	249.7 bbl	Strokes To Bit		3,998	Time To Bit		28 min				
Funnel Vis (sec/qt)				@ 105 °F	66	62		Bottoms Up Vol.	480.9 bbl	BottomsUp Stks		7,698	BottomsUp Time		53 min				
600 rpm				52		47		98.0 bbl	TotalCirc.Vol.	1295.6 bbl	TotalCirc.Stks		20,741	Total Circ. Time		144 min			
300 rpm				31		29	DRILLING ASSEMBLY DATA					SOLIDS CONTROL							
200 rpm				23		22	Tubulars	OD (in.)	ID (in.)	Length	Top	Unit		Screens	Hours				
100 rpm				15		14	Drill Pipe	4.500	3.826	17,498'	0'	Shaker 1		170	24.0				
6 rpm				6		6	Collars	5.250	2.688	132'	17,498'	Shaker 2		170	24.0				
3 rpm				5		5	Collars					17,630'	Shaker 3		170	24.0			
Plastic Viscosity (cp)				@ 150 °F	21	18	Dir. BHA						17,630'	Desander					
Yield Point (lb/100 ft²)				T0 = 4	10	11	CASING & HOLE DATA					Desilter							
Gel Strength (lb/100 ft²)				10 sec/10 min	7/10	6/8	Casing	OD (in.)	ID (in.)	Depth	Top	Centrifuge 1		0.0					
Gel Strength (lb/100 ft²)				30 min	12	10	Riser	20				VOLUME ACCOUNTING (bbls)							
HTHP Filtrate (cm/30 min)				@ 300 °F	6.4	3.0	Surface	10 3/4	9.950	3,518'	0'	Prev. Total on Location 3807.6							
HTHP Cake Thickness (32nds)					2.0	2.0	Int. Csg.	7 5/8	6.875	11,014'	0'	Transferred In(+)/Out(-)							
Retort Solids Content					16%	16%	Washout 1					Oil Added (+)		102.6					
Corrected Solids (vol%)					13.8%	13.7%	Washout 2					Barite Added (+)		7.0					
Retort Oil Content					61%	61%	Open Hole Size					7.088	17,630'	Other Product Usage (+)		14.1			
Retort Water Content					23%	23%	ANNULAR GEOMETRY & RHEOLOGY					Water Added (+)		42.1					
O/W Ratio					73:27	73:27	annular section	meas. depth	velocity ft/min	flow reg	ECD lb/gal	Left on Cuttings (-)		-77.7					
Whole Mud Chlorides (mg/L)					54,000	57,000						Mud on Cuttings							
Water Phase Salinity (ppm)					269,091	279,856						Non-Recoverable Vol. (-)							
Whole Mud Alkalinity, Pom					2.7	4.0	6.875x4.5 11,014' 342.8 turb 11.74					Est. Total on Location		3895.6					
Excess Lime (lb/bbl)					3.5 ppb	5.2 ppb	7.088x4.5 17,498' 308.8 turb 12.21					Est. Losses/Gains (-)/(+)		0.0					
Electrical Stability (volts)					412 v	510 v	7.088x5.25 17,630' 408.3 turb 12.33					BIT HYDRAULICS DATA							
Average Specific Gravity of Solids					3.17	3.12						Bit H.S.I.	Bit ΔP	Nozzles (32nds)					
Percent Low Gravity Solids					7.4%	7.7%						0.38	62 psi	18	18	18			
ppb Low Gravity Solids					61 ppb	63 ppb						Bit Impact Force	Nozzle Velocity (ft/sec)	18	18	18			
Percent Barite					6.4%	6.1%													
ppb Barite					92 ppb	87 ppb	BIT DATA		Manuf./Type SECURITY / PDC			168 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	0	M Washburn	6 3/4	11,022 ft	89.0	6,306 ft	70.9	3,050 psi		5,630 psi					
Remarks/Recommendations:							Rig Activity:												
TOTAL OBM RECEIVED: 3861 bls																			
Plan Forward: Drill lateral section to TD.							Drill from 16,038' to 17,630'. Samples 100% AC. Pumping 10bbls LCM sweeps every 300' drilled. Process active mud thru cooling unit continuously. Mud Temp in suction 105 F. Currently drilling ahead. Adding diesel/water for LGS control and volume. Treating with Lime for alkalinity, CaCl for salinity, OptiWet for oil wetting of solids, OptiMUL for ES, OptiG for HTHP control, and Bentone38 for flow properties. Maintaining MW at 10.5ppg. No downhole losses up to current depth. GAS 1000-1500 units, Torque 16000, ROP 120'/hr, BHT 311F.												
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: -					\$9,721.75			\$140,837.25					
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	0	1	1	1	1											
									INCLUDING 3RD PARTY CHARGES			\$18,404.49			\$241,419.90				



### THIRD PARTY COST SHEET

[illegible]

**OUTSOURCE FLUID SOLUTIONS LLC.**

## FLUID VOLUME ACCOUNTING

Operator:	MAGNOLIA OIL & GAS
Rig Name:	248
Well Name:	ROMMEL UNIT 3H

		WEEK 1							WEEK 2							WEEK 3							
		Date	8/3/21	8/4/21	8/5/21	8/6/21	8/7/21	8/8/21	8/9/21	8/10/21	8/11/21	8/12/21	8/13/21	8/14/21	8/15/21	8/16/21	8/17/21	8/18/21	8/19/21	8/20/21	8/21/21	8/22/21	8/23/21
		Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	
Grand Totals	Bit Size	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	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	
	Starting Depth	3,523	5,494	9,445	11,022	11,022	11,022	11,022	11,022	11,022	11,022	11,022	11,078	11,762	11,762	11,762	11,762	11,762	11,762	11,022	11,043	11,266	13,385
	Ending Depth	5,494	9,445	11,022	11,022	11,022	11,022	11,022	11,022	11,022	11,022	11,022	11,078	11,762	11,762	11,762	11,762	11,762	11,022	11,043	11,266	13,385	16,038
14,847	Footage Drilled	1,971	3,951	1,577	-	-	-	-	-	-	-	56	684	-	-	-	-	-	21	223	2,119	2,653	
1,038	New Hole Vol.	189	374	149	-	-	-	-	-	-	-	2	30	-	-	-	-	-	1	10	94	117	
	Starting System Volume	3,304	3,277	3,130	3,549	3,519	507	3,422	507	507	507	3,375	3,393	3,338	3,340	3,787	3,786	3,676	3,672	3,743	3,672	3,733	
90	Chemical Additions	2	7	2							6	3	4	8	6		8	4	9		7	10	
1,099	Base Fluid Added	117	173	166		38					1	16	49	10	1	24	51	44	66	18	92	130	
99	Barite Increase											35	21				7	14	8	7			
6,743	Weighted Mud Added			474			2,915				2,915				439								
-	Slurry Added																						
243	Water Added	25	20	25											1	1					65	64	
-	Added for Washout																						
8,274	Total Additions	144	200	667	-	38	2,915	-	-	-	2,922	54	74	18	447	25	66	62	83	25	164	204	
-	Surface Losses																						
-	Formation Loss																						
824	Mud Loss to Cuttings	104	206	81								6	89						12	16	103	129	
790	Unrecoverable Volume	27	100	128	30	89					54			15		26	176	67		79			
191	Centrifuge Losses	40	41	40								30	40										
1,805	Total Losses	171	347	249	30	89	-	-	-	-	54	36	129	15	-	26	176	67	12	95	103	129	
5,876	Mud Transferred Out					2,961		2,915															
3,896	Ending System Volume	3,277	3,130	3,549	3,519	507	3,422	507	507	507	3,375	3,393	3,338	3,340	3,787	3,786	3,676	3,672	3,743	3,672	3,733	3,808	
-	Mud Recovered																						
4,171	Comments:							Comments:							Comments:								
	8/3/21	2975 bbls Transferred F/ Redwood A1H. 329 bbls was in the casing.							8/10/21							8/17/21 Lost 26bls unrecoverable while POOH wet due to plugged pipe during cement job.							
	8/4/21								8/11/21							8/18/21 Dumped 113bls of mud/spacer interface from 1st cement plug and additional 63bls of mud/spacer interface from 2nd cement plug job.							
	8/5/21	474 BBLS 14 # received from mud plant							8/12/21 Lost 54bls to cement job, skid, and line/stack flushing.							8/19/21 Lost 66bls to mud left in open hole below cement, POOH, and to shakers while drilling out cement and circulating.							
	8/6/21								8/13/21 Lost 6bls to MOC of new hole drilled. Lost additional 30bls to tripping 2000' wet to pick up reamer and to shakers while drilling out cement.							8/20/21 Lost 12bls to cuttings at shakers while time drilling and TIH.							
	8/7/21	2961 BBLS Transferred T/ Rommel Unit 4H. 507 Left in casing.							8/14/21 Lost 89bls to cuttings at shakers while drilling and circulating at TD. Lost 40bls to centrifuges while processing on active and effluent under drying shakers while drilling and circulating.							8/21/21 Lost 16bls to MOC while drilling/circulating. Lost 79bls to open top from shaker overflow when pumping out trip tanks.							
	8/8/21								8/15/21 Lost 15bls while finishing POOH and running wireline logs.							8/22/21 Lost 103bls to mud on cuttings while drilling.							
	8/9/21								8/16/21 Received 439bls of 17.5ppg OBM from mud plant. No losses during wireline operators.							8/23/21 Lost 129bls to mud on cuttings while drilling.							

08/25/21

110 Old Market St.  
St Martinville, LA 70582

Report #21

TEL: (337) 394-1078

OUTSOURCE FLUID SOLUTIONS LLC.

0.0°

0' TVD

Operator				Contractor			County / Parish / Block			Engineer Start Date			24 hr fig.			Drilled Depth												
MAGNOLIA OIL & GAS							PATTERSON			WASHINGTON			07/14/21			315 ft			17,945 ft									
Well Name and No.							Rig Name and No.			State			Spud Date			Current ROP			Activity									
ROMMEL UNIT 3H							248			TEXAS			07/14/21			0 ft/hr			POOH									
Report for							Report for			Field / OCS-G #			Fluid Type			Circulating Rate			Circulating Pressure									
BRANDON PARKS / JAMES DYER							Tool Pusher			GIDDINGS (AC)			OBM			0 gpm			psi									
MUD PROPERTY SPECIFICATIONS							MUD VOLUME (BBL)			PUMP #1			PUMP #2			RISER BOOSTER												
Weight		PV		YP		E.S.		CaCl2		GELS		HTHP		In Pits		579 bbl		Liner Size		4.75		Liner Size		4.75		Liner Size		
9.8-12		10-25		6-20		>350		±290K		<10 <15		<10		In Hole		844 bbl		Stroke		12		Stroke		12		Stroke		
							8/25/21				8/24/21		Active		579 bbl		bbl/stk		0.0625		bbl/stk		0.0625		bbl/stk		0.0000	
Time Sample Taken							0:30				13:00		Storage		2526 bbl		stk/min		0		stk/min		0		stk/min			
Sample Location							pit				pit		Tot. on Location		3949 bbl		gal/min		0		gal/min		0		gal/min		0	
Flowline Temperature °F											122 °F		PHHP = 0CIRCULATION DATA n = 0.727 K = 158.853															
Depth (ft)							17,945'				17,945'		Bit Depth = '				Washout = 5%			Pump Efficiency = 95%								
Mud Weight (ppg)							10.5				10.5		Drill String Disp.		Volume to Bit		0.0 bbl		Strokes To Bit				Time To Bit					
Funnel Vis (sec/qt)							@ 117 °F		58		64		Bottoms Up Vol.		0.0 bbl		BottomsUp Stks				BottomsUp Time							
600 rpm							48				49		0.0 bbl		TotalCirc.Vol.		579.0 bbl		TotalCirc.Stks				Total Circ. Time					
300 rpm							29				30		DRILLING ASSEMBLY DATA										SOLIDS CONTROL					
200 rpm							23				22		Tubulars		OD (in.)		ID (in.)		Length		Top		Unit		Screens		Hours	
100 rpm							15				15		Drill Pipe		4.500		3.826		0'		0'		Shaker 1		170		12.0	
6 rpm							6				6		Collars		5.250		2.688		0'		0'		Shaker 2		170		12.0	
3 rpm							5				5		Collars						0'				Shaker 3		170		12.0	
Plastic Viscosity (cp)							@ 150 °F		19		19		Dir. BHA						0'				Desander					
Yield Point (lb/100 ft²)							T0 = 4		10		11		CASING & HOLE DATA										Desilter					
Gel Strength (lb/100 ft²)							10 sec/10 min		6/10		6/9		Casing		OD (in.)		ID (in.)		Depth		Top		Centrifuge 1		0.0			
Gel Strength (lb/100 ft²)							30 min		12		13		Riser		20								VOLUME ACCOUNTING (bbIs)					
HTHP Filtrate (cm/30 min)							@ 300 °F		4.4		4.4		Surface		10 3/4		9.950		3,518'		0'		Prev. Total on Location		3895.6			
HTHP Cake Thickness (32nds)									2.0		2.0		Int. Csg.		7 5/8		6.875		11,014'		0'		Transferred In(+)/Out(-)					
Retort Solids Content									16.5%		16%		Washout 1									Oil Added (+)		46.2				
Corrected Solids (vol%)									14.5%		13.8%		Washout 2									Barite Added (+)		7.0				
Retort Oil Content									61.5%		61%		Open Hole Size					7.088		17,945'		Other Product Usage (+)		6.1				
Retort Water Content									22%		23%		ANNULAR GEOMETRY & RHEOLOGY															
O/W Ratio							74:26				73:27		annular section		meas. depth		velocity ft/min		flow reg		ECD lb/gal		Left on Cuttings (-)		-15.4			
Whole Mud Chlorides (mg/L)							50,000				55,000												Mud on Cuttings		-12.0			
Water Phase Salinity (ppm)							262,745		272,715																			
Whole Mud Alkalinity, Pom							2.9		3.0																			
Excess Lime (lb/bbl)							3.8 ppb		3.9 ppb																			
Electrical Stability (volts)							404 v		490 v																			
Average Specific Gravity of Solids							3.10		3.12																			
Percent Low Gravity Solids							8.3%		7.7%																			
ppb Low Gravity Solids							68 ppb		63 ppb																			
Percent Barite							6.2%		6.1%																			
ppb Barite							89 ppb		88 ppb																			



## MATERIAL CONSUMPTION

[illegible]

### THIRD PARTY COST SHEET

[illegible]

**OUTSOURCE FLUID SOLUTIONS LLC.**

## FLUID VOLUME ACCOUNTING

Operator:	MAGNOLIA OIL & GAS
Rig Name:	248
Well Name:	ROMMEL UNIT 3H

		WEEK 1								WEEK 2								WEEK 3							
		Date	8/3/21	8/4/21	8/5/21	8/6/21	8/7/21	8/8/21	8/9/21	8/10/21	8/11/21	8/12/21	8/13/21	8/14/21	8/15/21	8/16/21	8/17/21	8/18/21	8/19/21	8/20/21	8/21/21	8/22/21	8/23/21		
			Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon		
Grand Totals	Bit Size	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	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4		
	Starting Depth	3,523	5,494	9,445	11,022	11,022	11,022	11,022	11,022	11,022	11,022	11,022	11,022	11,078	11,762	11,762	11,762	11,762	11,762	11,022	11,043	11,266	13,385		
	Ending Depth	5,494	9,445	11,022	11,022	11,022	11,022	11,022	11,022	11,022	11,022	11,022	11,078	11,762	11,762	11,762	11,762	11,762	11,762	11,022	11,043	11,266	13,385		
15,162	Footage Drilled	1,971	3,951	1,577	-	-	-	-	-	-	-	-	56	684	-	-	-	-	-	21	223	2,119	2,653		
1,051	New Hole Vol.	189	374	149	-	-	-	-	-	-	-	-	2	30	-	-	-	-	-	1	10	94	117		
	Starting System Volume	3,304	3,277	3,130	3,549	3,519	507	3,422	507	507	507	3,375	3,393	3,338	3,340	3,787	3,786	3,676	3,672	3,743	3,672	3,733			
96	Chemical Additions	2	7	2								6	3	4	8	6		8	4	9		7	10		
1,145	Base Fluid Added	117	173	166		38						1	16	49	10	1	24	51	44	66	18	92	130		
106	Barite Increase												35	21				7	14	8	7				
6,743	Weighted Mud Added			474			2,915					2,915				439									
-	Slurry Added																								
264	Water Added	25	20	25												1	1					65	64		
-	Added for Washout																								
8,354	Total Additions	144	200	667	-	38	2,915	-	-	-	-	2,922	54	74	18	447	25	66	62	83	25	164	204		
-	Surface Losses																								
-	Formation Loss																								
851	Mud Loss to Cuttings	104	206	81									6	89						12	16	103	129		
790	Unrecoverable Volume	27	100	128	30	89						54			15		26	176	67		79				
191	Centrifuge Losses	40	41	40									30	40											
1,832	Total Losses	171	347	249	30	89	-	-	-	-	-	54	36	129	15	-	26	176	67	12	95	103	129		
5,876	Mud Transferred Out					2,961		2,915																	
3,949	Ending System Volume	3,277	3,130	3,549	3,519	507	3,422	507	507	507	3,375	3,393	3,338	3,340	3,787		3,786	3,676	3,672	3,743	3,672	3,733	3,808		
-	Mud Recovered																								
4,171	Comments:								Comments:								Comments:								
	8/3/21	2975 bbls Transferred F/ Redwood A1H. 329 bbls was in the casing.							8/10/21								8/17/21 Lost 26bls unrecoverable while POOH wet due to plugged pipe during cement job.								
	8/4/21								8/11/21								8/18/21 Dumped 113bls of mud/spacer interface from 1st cement plug and additional 63bls of mud/spacer interface from 2nd cement plug job.								
	8/5/21	474 BBLS 14 # received from mud plant							8/12/21 Lost 54bls to cement job, skid, and line/stack flushing.								8/19/21 Lost 66bls to mud left in open hole below cement, POOH, and to shakers while drilling out cement and circulating.								
	8/6/21								8/13/21 Lost 6bls to MOC of new hole drilled. Lost additional 30bls to tripping 2000' wet to pick up reamer and to shakers while drilling out cement.								8/20/21 Lost 12bls to cuttings at shakers while time drilling and TIH.								
	8/7/21	2961 BBLS Transferred T/ Rommel Unit 4H. 507 Left in casing.							8/14/21 Lost 89bls to cuttings at shakers while drilling and circulating at TD. Lost 40bls to centrifuges while processing on active and effluent under drying shakers while drilling and circulating.								8/21/21 Lost 16bls to MOC while drilling/circulating. Lost 79bls to open top from shaker overflow when pumping out trip tanks.								
	8/8/21								8/15/21 Lost 15bls while finishing POOH and running wireline logs.								8/22/21 Lost 103bls to mud on cuttings while drilling.								
8/9/21								8/16/21 Received 439bls of 17.5ppg OBM from mud plant. No losses during wireline operators.								8/23/21 Lost 129bls to mud on cuttings while drilling.									

08/26/21

110 Old Market St.  
St Martinville, LA 70582

Report #22

TEL: (337) 394-1078

OUTSOURCE FLUID SOLUTIONS LLC.

9.1° 2,763' TVD

Operator <b>MAGNOLIA OIL &amp; GAS</b>				Contractor <b>PATTERSON</b>			County / Parish / Block <b>WASHINGTON</b>			Engineer Start Date <b>07/14/21</b>			24 hr fig. <b>0 ft</b>			Drilled Depth <b>17,945 ft</b>		
Well Name and No. <b>ROMMEL UNIT 3H</b>				Rig Name and No. <b>248</b>			State <b>TEXAS</b>			Spud Date <b>07/14/21</b>			Current ROP <b>0 ft/hr</b>			Activity <b>POOH</b>		
Report for <b>BRANDON PARKS / JAMES DYER</b>				Report for <b>Tool Pusher</b>			Field / OCS-G # <b>GIDDINGS (AC)</b>			Fluid Type <b>OBM</b>			Circulating Rate <b>0 gpm</b>			Circulating Pressure <b>psi</b>		
MUD PROPERTY SPECIFICATIONS							MUD VOLUME (BBL)			PUMP #1			PUMP #2			RISER BOOSTER		
Weight <b>9.8-12</b>	PV <b>10-25</b>	YP <b>6-20</b>	E.S. <b>&gt;350</b>	CaCl2 <b>±290K</b>	GELS <b>&lt;10 &lt;15</b>	HTHP <b>&lt;10</b>	In Pits 655 bbl		Liner Size 4.75		4.75	Liner Size 4.75		4.75	Liner Size			
				8/26/21		8/25/21	In Hole 827 bbl		Stroke 12		12	Stroke 12		12	Stroke			
							Active 766 bbl		bb/stk 0.0625		0.0625	bb/stk 0.0625		0.0625	bb/stk 0.0000	0.0000		
Time Sample Taken				0:30		15:00	Storage <u>2553 bbl</u>		stk/min 0		0	stk/min 0		0	stk/min			
Sample Location				pit		pit	Tot. on Location 4035 bbl		gal/min 0		0	gal/min 0		0	gal/min			
Flowline Temperature °F							PHHP = 0 CIRCULATION DATA n = 0.757 K = 131.956											
Depth (ft)				17,945'		17,945'	Bit Depth = 2,778 '			Washout = 5%			Pump Efficiency = 95%					
Mud Weight (ppg)				10.7		10.6	Drill String Disp.  16.9 bbl	Volume to Bit 38.6 bbl	Strokes To Bit			Time To Bit						
Funnel Vis (sec/qt) @ 92 °F				64		64		Bottoms Up Vol. 72.1 bbl	BottomsUp Stks			BottomsUp Time						
600 rpm				49		50		TotalCirc.Vol. 765.7 bbl	TotalCirc.Stks			Total Circ. Time						
300 rpm				29		30	DRILLING ASSEMBLY DATA					SOLIDS CONTROL						
200 rpm				23		23	Tubulars	OD (in.)	ID (in.)	Length	Top	Unit		Screens		Hours		
100 rpm				16		16	Drill Pipe	4.500	3.826	2,658'	0'	Shaker 1		170				
6 rpm				6		6	Collars	5.250	2.688	120'	2,658'	Shaker 2		170				
3 rpm				5		5	Collars				2,778'	Shaker 3		170				
Plastic Viscosity (cp) @ 150 °F				20		20	Dir. BHA				2,778'	Desander						
Yield Point (lb/100 ft²) T0 = 4				9		10	CASING & HOLE DATA					Desilter						
Gel Strength (lb/100 ft²) 10 sec/10 min				6/10		6/10	Casing	OD (in.)	ID (in.)	Depth	Top	Centrifuge 1						
Gel Strength (lb/100 ft²) 30 min				12		13	Riser	20				VOLUME ACCOUNTING (bbls)						
HTHP Filtrate (cm/30 min) @ 300 °F				4.4		4.4	Surface	10 3/4	9.950	3,518'	0'	Prev. Total on Location		3949.0				
HTHP Cake Thickness (32nds)				2.0		2.0	Int. Csg.	7 5/8	6.875	11,014'	0'	Transferred In(+)/Out(-)						
Retort Solids Content				16.5%		16%	Washout 1					Oil Added (+)		85.4				
Corrected Solids (vol%)				14.4%		13.9%	Washout 2					Barite Added (+)		0.0				
Retort Oil Content				62%		62%	Open Hole Size 7.088 17,945'					Other Product Usage (+)		0.0				
Retort Water Content				21.5%		22%	ANNULAR GEOMETRY & RHEOLOGY					Water Added (+)		0.8				
O/W Ratio				74:26		74:26	annular section	meas. depth	velocity ft/min	flow reg	ECD lb/gal	Left on Cuttings (-)		0.0				
Whole Mud Chlorides (mg/L)				51,500		53,000	6.875x4.5 2,658' 0.0 lam 10.65 6.875x5.25 2,778' 0.0 lam 10.65					Mud on Cuttings						
Water Phase Salinity (ppm)				273,050		274,187						Non-Recoverable Vol. (-)						
Whole Mud Alkalinity, Pom				2.9		3.0						Est. Total on Location		4035.2				
Excess Lime (lb/bbl)				3.8 ppb		3.9 ppb						Est. Losses/Gains (-)/(+)		0.0				
Electrical Stability (volts)				420 v		455 v						BIT HYDRAULICS DATA						
Average Specific Gravity of Solids				3.20		3.23						Bit H.S.I.	Bit ΔP	Nozzles (32nds)				
Percent Low Gravity Solids				7.4%		6.9%						0.00	psi	18	18	18		
ppb Low Gravity Solids				61 ppb		57 ppb						Bit Impact Force	Nozzle Velocity (ft/sec)	18	18	18		
Percent Barite				7%		7%												
ppb Barite				100 ppb		100 ppb	BIT DATA		Manuf./Type GTD64M			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				C. Beasley	0	M Washburn	6 3/4	17,945 ft	0.0	0 ft	#DIV/0!							
Remarks/Recommendations:  TOTAL OBM RECEIVED: 3861 bls  Plan Forward: Change out BHA, TIH, & finish drilling lateral.  Continued treating mud with CaCL for salinity, Lime for alkalinity, Opti G for HTHP control, Bentone 38 for flow properties, OptiMul for ES, and OptiWet for oil wetting of solids.							Rig Activity:  Make up BHA #6, strip in hole to 11084, attempt to circulate down drillstring, pipe was plugged up. Transfer kill mud from frac tanks to rig pits weight up to 17.5 as per standard procedure after kill mud density is slightly reduced from communication with lighter manifold mud and dead volume in rig pits. Pump 17.5# mud down backside to reduce casing pressure. Strip out to 6227', flow check, no flow. Trip out of the hole to 5975'. Pump to check PSI and held 2699 PSI in DS with no circulation. Flow check, no flow. Remove RH and LD Agitator. TOOH T/2778'. Currently POOH.											
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 1	P 1	Y 1	E 1	C 0	g 1	G 1	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.							\$2,040.00		\$150,441.07
								INCLUDING 3RD PARTY CHARGES					\$9,678.18		\$262,564.06			



### THIRD PARTY COST SHEET

[illegible]

**OUTSOURCE FLUID SOLUTIONS LLC.**

## FLUID VOLUME ACCOUNTING

Operator:	MAGNOLIA OIL & GAS
Rig Name:	248
Well Name:	ROMMEL UNIT 3H

		WEEK 1							WEEK 2							WEEK 3								
		Date	8/3/21	8/4/21	8/5/21	8/6/21	8/7/21	8/8/21	8/9/21	8/10/21	8/11/21	8/12/21	8/13/21	8/14/21	8/15/21	8/16/21	8/17/21	8/18/21	8/19/21	8/20/21	8/21/21	8/22/21	8/23/21	
			Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	
Grand Totals	Bit Size	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	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	
	Starting Depth	3,523	5,494	9,445	11,022	11,022	11,022	11,022	11,022	11,022	11,022	11,022	11,022	11,078	11,762	11,762	11,762	11,762	11,762	11,022	11,043	11,266	13,385	
	Ending Depth	5,494	9,445	11,022	11,022	11,022	11,022	11,022	11,022	11,022	11,022	11,022	11,078	11,762	11,762	11,762	11,762	11,762	11,762	11,022	11,043	11,266	13,385	
15,162	Footage Drilled	1,971	3,951	1,577	-	-	-	-	-	-	-	-	56	684	-	-	-	-	-	21	223	2,119	2,653	
1,051	New Hole Vol.	189	374	149	-	-	-	-	-	-	-	-	2	30	-	-	-	-	-	1	10	94	117	
	Starting System Volume	3,304	3,277	3,130	3,549	3,519	507	3,422	507	507	507	3,375	3,393	3,338	3,340	3,787	3,786	3,676	3,672	3,743	3,672	3,733	3,733	
96	Chemical Additions	2	7	2								6	3	4	8	6		8	4	9		7	10	
1,230	Base Fluid Added	117	173	166		38						1	16	49	10	1	24	51	44	66	18	92	130	
106	Barite Increase												35	21				7	14	8	7			
6,743	Weighted Mud Added			474			2,915					2,915				439								
-	Slurry Added																							
265	Water Added	25	20	25												1	1					65	64	
-	Added for Washout																							
8,440	Total Additions	144	200	667	-	38	2,915	-	-	-	-	2,922	54	74	18	447	25	66	62	83	25	164	204	
-	Surface Losses																							
-	Formation Loss																							
851	Mud Loss to Cuttings	104	206	81									6	89						12	16	103	129	
790	Unrecoverable Volume	27	100	128	30	89						54			15		26	176	67		79			
191	Centrifuge Losses	40	41	40									30	40										
1,832	Total Losses	171	347	249	30	89	-	-	-	-	-	54	36	129	15	-	26	176	67	12	95	103	129	
5,876	Mud Transferred Out					2,961		2,915																
4,035	Ending System Volume	3,277	3,130	3,549	3,519	507	3,422	507	507	507	3,375	3,393	3,338	3,340	3,787	3,786	3,676	3,672	3,743	3,672	3,733	3,808	3,808	
-	Mud Recovered																							
4,171	Comments:								Comments:								Comments:							
	8/3/21	2975 bbls Transferred F/ Redwood A1H. 329 bbls was in the casing.							8/10/21								8/17/21 Lost 26bls unrecoverable while POOH wet due to plugged pipe during cement job.							
	8/4/21								8/11/21								8/18/21 Dumped 113bls of mud/spacer interface from 1st cement plug and additional 63bls of mud/spacer interface from 2nd cement plug job.							
	8/5/21	474 BBLS 14 # received from mud plant							8/12/21 Lost 54bls to cement job, skid, and line/stack flushing.								8/19/21 Lost 66bls to mud left in open hole below cement, POOH, and to shakers while drilling out cement and circulating.							
	8/6/21								8/13/21 Lost 6bls to MOC of new hole drilled. Lost additional 30bls to tripping 2000' wet to pick up reamer and to shakers while drilling out cement.								8/20/21 Lost 12bls to cuttings at shakers while time drilling and TIH.							
	8/7/21	2961 BBLS Transferred T/ Rommel Unit 4H. 507 Left in casing.							8/14/21 Lost 89bls to cuttings at shakers while drilling and circulating at TD. Lost 40bls to centrifuges while processing on active and effluent under drying shakers while drilling and circulating.								8/21/21 Lost 16bls to MOC while drilling/circulating. Lost 79bls to open top from shaker overflow when pumping out trip tanks.							
	8/8/21								8/15/21 Lost 15bls while finishing POOH and running wireline logs.								8/22/21 Lost 103bls to mud on cuttings while drilling.							
8/9/21								8/16/21 Received 439bls of 17.5ppg OBM from mud plant. No losses during wireline operators.								8/23/21 Lost 129bls to mud on cuttings while drilling.								

08/27/21

110 Old Market St.  
St Martinville, LA 70582

Report #23

TEL: (337) 394-1078

OUTSOURCE FLUID SOLUTIONS LLC.

86.1° 11,518' TVD

operator				Contractor			County / Parish / Block			Engineer Start Date			24 hr fig.		Drilled Depth				
MAGNOLIA OIL & GAS							PATTERSON			WASHINGTON			07/14/21			0 ft		17,945 ft	
Well Name and No.							Rig Name and No.			State			Spud Date			Current ROP		Activity	
ROMMEL UNIT 3H							248			TEXAS			07/14/21			0 ft/hr		TIH	
Report for							Report for			Field / OCS-G #			Fluid Type			Circulating Rate		Circulating Pressure	
BRANDON PARKS / JAMES DYER							Tool Pusher			GIDDINGS (AC)			OBM			0 gpm		psi	
MUD PROPERTY SPECIFICATIONS							MUD VOLUME (BBL)			PUMP #1			PUMP #2			RISER BOOSTER			
Weight	PV	YP	E.S.	CaCl2	GELS	HTHP	In Pits	631 bbl	Liner Size	4.75	Liner Size	4.75	Liner Size						
9.8-12	10-25	6-20	>350	±290K	<10 <15	<10	In Hole	761 bbl	Stroke	12	Stroke	12	Stroke						
				8/27/21		8/26/21	Active	1246 bbl	bbl/stk	0.0625	bbl/stk	0.0625	bbl/stk	0.0000					
Time Sample Taken				0:30		15:00	Storage	2569 bbl	stk/min	0	stk/min	0	stk/min						
Sample Location				pit		pit	Tot. on Location	3961 bbl	gal/min	0	gal/min	0	gal/min	0					
Flowline Temperature °F							PHHP = 0 CIRCULATION DATA n = 0.737 K = 154.411												
Depth (ft)				17,945'		17,945'	Bit Depth = 14,952 '			Washout = 5%			Pump Efficiency = 95%						
Mud Weight (ppg)				10.7		10.7	Drill String Disp.	Volume to Bit	211.8 bbl	Strokes To Bit			Time To Bit						
Funnel Vis (sec/qt) @ 92 °F				62		64		Bottoms Up Vol.	402.9 bbl	BottomsUp Stks			BottomsUp Time						
600 rpm				50		51		83.2 bbl	TotalCirc.Vol.	1245.7 bbl	TotalCirc.Stks			Total Circ. Time					
300 rpm				30		31	DRILLING ASSEMBLY DATA					SOLIDS CONTROL							
200 rpm				23		23	Tubulars	OD (in.)	ID (in.)	Length	Top	Unit		Screens		Hours			
100 rpm				15		15	Drill Pipe	4.500	3.826	14,832'	0'	Shaker 1		170					
6 rpm				6		6	Collars	5.250	2.688	120'	14,832'	Shaker 2		170					
3 rpm				5		5	Collars				14,952'	Shaker 3		170					
Plastic Viscosity (cp) @ 150 °F				20		20	Dir. BHA				14,952'	Desander							
Yield Point (lb/100 ft²) T0 = 4				10		11	CASING & HOLE DATA					Desilter							
Gel Strength (lb/100 ft²) 10 sec/10 min				6/9		6/9	Casing	OD (in.)	ID (in.)	Depth	Top	Centrifuge 1							
Gel Strength (lb/100 ft²) 30 min				12		12	Riser	20				VOLUME ACCOUNTING (bbls)							
HTHP Filtrate (cm/30 min) @ 300 °F				4.6		4.4	Surface	10 3/4	9.950	3,518'	0'	Prev. Total on Location		3995.1					
HTHP Cake Thickness (32nds)				2.0		2.0	Int. Csg.	7 5/8	6.875	11,014'	0'	Transferred In(+)/Out(-)		188.0					
Retort Solids Content				16.5%		16.5%	Washout 1					Oil Added (+)		33.3					
Corrected Solids (vol%)				14.4%		14.4%	Washout 2					Barite Added (+)		0.0					
Retort Oil Content				62.5%		62.5%	Open Hole Size					7.088	17,945'	Other Product Usage (+)		0.0			
Retort Water Content				21%		21%	ANNULAR GEOMETRY & RHEOLOGY					Water Added (+)							
O/W Ratio				75:25		75:25	annular section	meas. depth	velocity ft/min	flow reg	ECD lb/gal	Left on Cuttings (-)		0.0					
Whole Mud Chlorides (mg/L)				51,600		52,000						Non-Recoverable Vol. (-)		-15.3					
Water Phase Salinity (ppm)				278,135		279,688						Returned		-240.4					
Whole Mud Alkalinity, Pom				2.7		3.0	6.875x4.5	11,014'	0.0	lam	10.65	Est. Total on Location		3960.7					
Excess Lime (lb/bbl)				3.5 ppb		3.9 ppb	7.088x4.5	14,832'	0.0	lam	10.65	Est. Losses/Gains (-)/(+)		0.0					
Electrical Stability (volts)				410 v		430 v	7.088x5.25	14,952'	0.0	lam	10.65	BIT HYDRAULICS DATA							
Average Specific Gravity of Solids				3.21		3.24						Bit H.S.I.	Bit ΔP	Nozzles (32nds)					
Percent Low Gravity Solids				7.3%		7.1%						0.00	psi	18	18	18			
ppb Low Gravity Solids				60 ppb		58 ppb						Bit Impact Force	Nozzle Velocity (ft/sec)	18	18	18			
Percent Barite				7.1%		7.4%													
ppb Barite				101 ppb		106 ppb	BIT DATA		Manuf./Type			GTD64M		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				C. Beasley	0	M Washburn	6 3/4	17,945 ft	0.0	0 ft	#DIV/0!								
Remarks/Recommendations:							Rig Activity:												
TOTAL OBM RECEIVED: 4049 bls																			
Plan Forward: Change out BHA, TIH, & finish drilling lateral.																			
Continued treating mud with CaCL for salinity, Lime for alkalinity, Opti G for HTHP control, Bentone 38 for flow properties, OptiMul for ES, and OptiWet for oil wetting of solids.							Make up BHA #7, trip in hole with same, drop rabbit in every single stand in mouse hole. Pick up agitators while tripping, transfer mud out of active tanks and inspect while empty. Pit 6 was clean, pit 5 had one bbl of cuttings and debris on the bottom of pit. Clean out pits with pressure washer and collect in vacuum truck then process solids over shale shakers, solids contained tree twigs, plastic, white rig location rocks and some formation cuttings. TIH to 11061'. Circulated hole, 11.1 OBM came back. Cut MW with diesel dilution and centrifuge. Currently TIH.												
Eng. 1: Mike Washburn		Eng. 2: Chris Beasley		WH 1: MIDLAND		WH 2: WH #2		Rig Phone:		Daily Total			Cumulative Cost						
Phone: 361-945-5777		Phone: 903-747-5377		Phone: 432-686-7361		Phone: -					\$2,040.00			\$152,481.07					
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.					\$2,040.00			\$152,481.07		
1	1	1	1	0	1	1	1	1						\$5,036.00			\$267,600.06		







**OUTSOURCE FLUID SOLUTIONS LLC.**

# FLUID VOLUME ACCOUNTING

Operator:	MAGNOLIA OIL & GAS
Rig Name:	248
Well Name:	ROMMEL UNIT 3H

		WEEK 1							WEEK 2							WEEK 3							
		Date	8/3/21	8/4/21	8/5/21	8/6/21	8/7/21	8/8/21	8/9/21	8/10/21	8/11/21	8/12/21	8/13/21	8/14/21	8/15/21	8/16/21	8/17/21	8/18/21	8/19/21	8/20/21	8/21/21	8/22/21	8/23/21
		Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	
Grand Totals	Bit Size	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	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	
	Starting Depth	3,523	5,494	9,445	11,022	11,022	11,022	11,022	11,022	11,022	11,022	11,022	11,078	11,762	11,762	11,762	11,762	11,762	11,022	11,043	11,266	13,385	
	Ending Depth	5,494	9,445	11,022	11,022	11,022	11,022	11,022	11,022	11,022	11,022	11,078	11,762	11,762	11,762	11,762	11,762	11,022	11,043	11,266	13,385	16,038	
15,162	Footage Drilled	1,971	3,951	1,577	-	-	-	-	-	-	-	56	684	-	-	-	-	-	21	223	2,119	2,653	
1,051	New Hole Vol.	189	374	149	-	-	-	-	-	-	-	2	30	-	-	-	-	-	1	10	94	117	
	Starting System Volume	3,304	3,277	3,130	3,549	3,519	507	3,422	507	507	507	3,375	3,393	3,338	3,340	3,787	3,786	3,676	3,672	3,743	3,672	3,733	
96	Chemical Additions	2	7	2							6	3	4	8	6		8	4	9		7	10	
1,263	Base Fluid Added	117	173	166		38					1	16	49	10	1	24	51	44	66	18	92	130	
106	Barite Increase											35	21				7	14	8	7			
6,931	Weighted Mud Added			474			2,915				2,915				439								
-	Slurry Added																						
265	Water Added	25	20	25											1	1					65	64	
-	Added for Washout																						
8,661	Total Additions	144	200	667	-	38	2,915	-	-	-	2,922	54	74	18	447	25	66	62	83	25	164	204	
-	Surface Losses																						
-	Formation Loss																						
851	Mud Loss to Cuttings	104	206	81								6	89						12	16	103	129	
830	Unrecoverable Volume	27	100	128	30	89					54			15		26	176	67		79			
206	Centrifuge Losses	40	41	40								30	40										
1,887	Total Losses	171	347	249	30	89	-	-	-	-	54	36	129	15	-	26	176	67	12	95	103	129	
6,116	Mud Transferred Out					2,961		2,915															
3,961	Ending System Volume	3,277	3,130	3,549	3,519	507	3,422	507	507	507	3,375	3,393	3,338	3,340	3,787	3,786	3,676	3,672	3,743	3,672	3,733	3,808	
-	Mud Recovered																						
4,119	Comments:							Comments:							Comments:								
	8/3/21	2975 bbls Transferred F/ Redwood A1H. 329 bbls was in the casing.							8/10/21							8/17/21 Lost 26bbls unrecoverable while POOH wet due to plugged pipe during cement job.							
	8/4/21								8/11/21</														

08/28/21

110 Old Market St.  
St Martinville, LA 70582

Report #24

TEL: (337) 394-1078

OUTSOURCE FLUID SOLUTIONS LLC.

86.0° 11,838' TVD

Operator <b>MAGNOLIA OIL &amp; GAS</b>				Contractor <b>PATTERSON</b>			County / Parish / Block <b>WASHINGTON</b>			Engineer Start Date <b>07/14/21</b>			24 hr fig. <b>1,750 ft</b>			Drilled Depth <b>19,695 ft</b>							
Well Name and No. <b>ROMMEL UNIT 3H</b>				Rig Name and No. <b>248</b>			State <b>TEXAS</b>			Spud Date <b>07/14/21</b>			Current ROP <b>120 ft/hr</b>			Activity <b>Drilling Lateral</b>							
Report for <b>BRANDON PARKS / JAMES DYER</b>				Report for <b>Tool Pusher</b>			Field / OCS-G # <b>GIDDINGS (AC)</b>			Fluid Type <b>OBM</b>			Circulating Rate <b>336 gpm</b>			Circulating Pressure <b>4,554 psi</b>							
MUD PROPERTY SPECIFICATIONS							MUD VOLUME (BBL)			PUMP #1			PUMP #2			RISER BOOSTER							
Weight <b>9.8-12</b>	PV <b>10-25</b>	YP <b>6-20</b>	E.S. <b>&gt;350</b>	CaCl2 <b>±290K</b>	GELS <b>&lt;10 &lt;15</b>	HTHP <b>&lt;10</b>	In Pits 768 bbl		Liner Size 4.75			Liner Size 4.75			Liner Size								
				8/28/21		8/27/21	In Hole 820 bbl		Stroke 12			Stroke 12			Stroke								
							Active 1588 bbl		bbl/stk 0.0625			bbl/stk 0.0625			bbl/stk 0.0000								
Time Sample Taken				0:30		14:00	Storage <u>2094 bbl</u>		stk/min 64			stk/min 64			stk/min								
Sample Location				pit		pit	Tot. on Location 3682 bbl		gal/min 168			gal/min 168			gal/min 0								
Flowline Temperature °F				117 °F		115 °F	PHHP = 892 CIRCULATION DATA n = 0.705 K = 170.111																
Depth (ft)				19,695'		18,910'	Bit Depth = 19,695 '			Washout = 5%			Pump Efficiency = 95%										
Mud Weight (ppg)				10.6		10.5	Drill String Disp.	Volume to Bit 279.2 bbl	Strokes To Bit 4,470		Time To Bit 35 min												
Funnel Vis (sec/qt) @ 105 °F				65		63		Bottoms Up Vol. 541.1 bbl	BottomsUp Stks 8,662		BottomsUp Time 68 min												
600 rpm				44		47		109.1 bbl	TotalCirc.Vol. 1588.3 bbl	TotalCirc.Stks 25,427		Total Circ. Time 199 min											
300 rpm				27		29	DRILLING ASSEMBLY DATA						SOLIDS CONTROL										
200 rpm				20		22	Tubulars	OD (in.)	ID (in.)	Length	Top	Unit	Screens	Hours									
100 rpm				13		14	Drill Pipe	4.500	3.826	19,575'	0'	Shaker 1	170	24.0									
6 rpm				5		6	Collars	5.250	2.688	120'	19,575'	Shaker 2	170	24.0									
3 rpm				4		5	Collars				19,695'	Shaker 3	170	24.0									
Plastic Viscosity (cp) @ 150 °F				17		18	Dir. BHA				19,695'	Desander											
Yield Point (lb/100 ft²) T0 = 3				10		11	CASING & HOLE DATA						Desilter										
Gel Strength (lb/100 ft²) 10 sec/10 min				6/9		6/10	Casing	OD (in.)	ID (in.)	Depth	Top	Centrifuge 1	6.0										
Gel Strength (lb/100 ft²) 30 min				12		12	Riser	20				VOLUME ACCOUNTING (bbIs)											
HTHP Filtrate (cm/30 min) @ 300 °F				4.2		4.0	Surface	10 3/4	9.950	3,518'	0'	Prev. Total on Location	3987.5										
HTHP Cake Thickness (32nds)				2.0		2.0	Int. Csg.	7 5/8	6.875	11,014'	0'	Transferred In(+)/Out(-)	-263.0										
Retort Solids Content				16%		16%	Washout 1					Oil Added (+)	76.4										
Corrected Solids (vol%)				13.8%		13.9%	Washout 2					Barite Added (+)	0.0										
Retort Oil Content				63%		63%	Open Hole Size 7.088 19,695'					Other Product Usage (+)	12.6										
Retort Water Content				21%		21%	ANNULAR GEOMETRY & RHEOLOGY						Water Added (+)	29.2									
O/W Ratio				75:25		75:25	annular section	meas. depth	velocity ft/min	flow reg	ECD lb/gal	Left on Cuttings (-)	-85.4										
Whole Mud Chlorides (mg/L)				52,800		53,000						Non-Recoverable Vol. (-)	-50.0										
Water Phase Salinity (ppm)				282,774		283,542						Centrifuge	-25.0										
Whole Mud Alkalinity, Pom				2.9		3.0	6.875x4.5	11,014'	304.7	turb	11.56	Est. Total on Location	3682.3										
Excess Lime (lb/bbl)				3.8 ppb		3.9 ppb	7.088x4.5	19,575'	274.5	turb	12.05	Est. Losses/Gains (-)/(+)	0.0										
Electrical Stability (volts)				460 v		495 v	7.088x5.25	19,695'	363.0	turb	12.17	BIT HYDRAULICS DATA											
Average Specific Gravity of Solids				3.25		3.16						Bit H.S.I.	Bit ΔP	Nozzles (32nds)									
Percent Low Gravity Solids				6.7%		7.5%						0.27	50 psi	18	18	18							
ppb Low Gravity Solids				55 ppb		62 ppb						Bit Impact Force	Nozzle Velocity (ft/sec)	18	18	18							
Percent Barite				7.1%		6.4%																	
ppb Barite				102 ppb		92 ppb	BIT DATA		Manuf./Type GTD64M			133 lbs	72										
Estimated Total LCM in System ppb							Size	Depth In	Hours	Footage	ROP ft/hr	Motor/MWD	Calc. Circ. Pressure										
Sample Taken By				C. Beasley	0	M Washburn	6 3/4	17,945 ft	18.0	1,750 ft	97.2	4,574 psi	6,777 psi										
Remarks/Recommendations:  TOTAL OBM RECEIVED: 4049 bls  Plan Forward: Finish drilling lateral.  Continued treating mud with CaCL for salinity, Lime for alkalinity, Opti G for HTHP control, Bentone 38 for flow properties, OptiMul for ES, and OptiWet for oil wetting of solids.  Pumping sweeps every 300'.							Rig Activity:  Trip in hole with BHA #7, currently drilling 6-3/4" lateral hole section, depth at time of report is MD 18938. Reduce mud wt from maximum of 11.1# to 10.5# after incorporating heavy mud cap interface, weighted slug. and open hole volume into active system after trip. Adding diesel for wt. reduction and oil wetting of solids, water for OWR, lime form alkalinity, OPTIMUL HP for ES, and OPTIG for HTHP control. Drilled T/19695'. Currently drilling ahead. ROP 120 FPH, PUMP RATE 336 gpm, PP 4574, TORQUE 11K, CSG pressure 0, MWD Temp 325 F																
Eng. 1: Mike Washburn		Eng. 2: Chris Beasley		WH 1: MIDLAND		WH 2: WH #2		Rig Phone:				Daily Total			Cumulative Cost								
Phone: 361-945-5777		Phone: 903-747-5377		Phone: 432-686-7361		Phone: -						\$5,950.03			\$158,431.10								
W 1	P 1	Y 1	E 1	C 1	G 1	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.										\$12,584.03			\$280,184.09		



### THIRD PARTY COST SHEET

[illegible]

## FLUID VOLUME ACCOUNTING

Operator:	MAGNOLIA OIL & GAS
Rig Name:	248
Well Name:	ROMMEL UNIT 3H

		WEEK 1								WEEK 2								WEEK 3							
		Date	8/3/21	8/4/21	8/5/21	8/6/21	8/7/21	8/8/21	8/9/21	8/10/21	8/11/21	8/12/21	8/13/21	8/14/21	8/15/21	8/16/21	8/17/21	8/18/21	8/19/21	8/20/21	8/21/21	8/22/21	8/23/21		
		Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon			
Grand Totals	Bit Size	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	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4			
	Starting Depth	3,523	5,494	9,445	11,022	11,022	11,022	11,022	11,022	11,022	11,022	11,022	11,022	11,078	11,762	11,762	11,762	11,762	11,762	11,022	11,043	11,266	13,385		
	Ending Depth	5,494	9,445	11,022	11,022	11,022	11,022	11,022	11,022	11,022	11,022	11,022	11,078	11,762	11,762	11,762	11,762	11,762	11,022	11,043	11,266	13,385	16,038		
16,912	Footage Drilled	1,971	3,951	1,577	-	-	-	-	-	-	-	56	684	-	-	-	-	-	21	223	2,119	2,653			
1,129	New Hole Vol.	189	374	149	-	-	-	-	-	-	-	2	30	-	-	-	-	-	1	10	94	117			
	Starting System Volume	3,304	3,277	3,130	3,549	3,519	507	3,422	507	507	507	3,375	3,393	3,338	3,340	3,787	3,786	3,676	3,672	3,743	3,672	3,733			
96	Chemical Additions	2	7	2							6	3	4	8	6		8	4	9		7	10			
1,339	Base Fluid Added	117	173	166		38					1	16	49	10	1	24	51	44	66	18	92	130			
106	Barite Increase											35	21				7	14	8	7					
6,931	Weighted Mud Added			474			2,915				2,915				439										
-	Slurry Added																								
294	Water Added	25	20	25											1	1					65	64			
-	Added for Washout																								
8,766	Total Additions	144	200	667	-	38	2,915	-	-	-	2,922	54	74	18	447	25	66	62	83	25	164	204			
-	Surface Losses																								
-	Formation Loss																								
936	Mud Loss to Cuttings	104	206	81								6	89						12	16	103	129			
880	Unrecoverable Volume	27	100	128	30	89					54			15		26	176	67		79					
231	Centrifuge Losses	40	41	40								30	40												
2,047	Total Losses	171	347	249	30	89	-	-	-	-	54	36	129	15	-	26	176	67	12	95	103	129			
6,340	Mud Transferred Out					2,961		2,915																	
3,682	Ending System Volume	3,277	3,130	3,549	3,519	507	3,422	507	507	507	3,375	3,393	3,338	3,340	3,787	3,786	3,676	3,672	3,743	3,672	3,733	3,808			
-	Mud Recovered																								
3,895	Comments:								Comments:								Comments:								
	8/3/21	2975 bbls Transferred F/ Redwood A1H. 329 bbls was in the casing.							8/10/21								8/17/21 Lost 26bls unrecoverable while POOH wet due to plugged pipe during cement job.								
	8/4/21																								

08/29/21

110 Old Market St.  
St Martinville, LA 70582

Report #25

TEL: (337) 394-1078

OUTSOURCE FLUID SOLUTIONS LLC.

2.5° 8,486' TVD

Operator				Contractor			County / Parish / Block			Engineer Start Date			24 hr fig.			Drilled Depth														
MAGNOLIA OIL & GAS							PATTERSON			WASHINGTON			07/14/21			819 ft			20,514 ft											
Well Name and No.							Rig Name and No.			State			Spud Date			Current ROP			Activity											
ROMMEL UNIT 3H							248			TEXAS			07/14/21			0 ft/hr			TOH											
Report for							Report for			Field / OCS-G #			Fluid Type			Circulating Rate			Circulating Pressure											
BRANDON PARKS / JAMES DYER							Tool Pusher			GIDDINGS (AC)			OBM			0 gpm			psi											
MUD PROPERTY SPECIFICATIONS							MUD VOLUME (BBL)			PUMP #1			PUMP #2			RISER BOOSTER														
Weight		PV		YP		E.S.		CaCl2		GELS		HTHP		In Pits		851 bbl		Liner Size		4.75		Liner Size		4.75		Liner Size				
9.8-12		10-25		6-20		>350		±290K		<10 <15		<10		In Hole		921 bbl		Stroke		12		Stroke		12		Stroke				
							8/29/21				8/28/21		Active		1196 bbl		bbl/stk		0.0625		bbl/stk		0.0625		bbl/stk		0.0000			
Time Sample Taken							0:30				14:00		Storage		1959 bbl		stk/min		0		stk/min		0		stk/min					
Sample Location							pit				pit		Tot. on Location		3731 bbl		gal/min		0		gal/min		0		gal/min		0			
Flowline Temperature °F											115 °F		PHHP = 0CIRCULATION DATA n = 0.684 K = 199.903																	
Depth (ft)							20,514'				20,514'		Bit Depth = 8,572 '				Washout = 5%				Pump Efficiency = 95%									
Mud Weight (ppg)							10.6				10.5		Drill String Disp.		Volume to Bit		121.0 bbl		Strokes To Bit				Time To Bit							
Funnel Vis (sec/qt)							@ 105 °F		63		63				Bottoms Up Vol.		224.1 bbl		BottomsUp Stks				BottomsUp Time							
600 rpm							45				46		48.4 bbl		TotalCirc.Vol.		1196.1 bbl		TotalCirc.Stks				Total Circ. Time							
300 rpm							28				29		DRILLING ASSEMBLY DATA										SOLIDS CONTROL							
200 rpm							20				21		Tubulars		OD (in.)		ID (in.)		Length		Top		Unit		Screens		Hours			
100 rpm							14				15		Drill Pipe		4.500		3.826		8,452'		0'		Shaker 1		170					
6 rpm							5				6		Collars		5.250		2.688		120'		8,452'		Shaker 2		170					
3 rpm							4				5		Collars								8,572'		Shaker 3		170					
Plastic Viscosity (cp)							@ 150 °F		17		17		Dir. BHA								8,572'		Desander							
Yield Point (lb/100 ft²)							T0 = 3		11		12		CASING & HOLE DATA										Desilter							
Gel Strength (lb/100 ft²)							10 sec/10 min		6/10		6/11		Casing		OD (in.)		ID (in.)		Depth		Top		Centrifuge 1							
Gel Strength (lb/100 ft²)							30 min		13		13		Riser		20								VOLUME ACCOUNTING (bbls)							
HTHP Filtrate (cm/30 min)							@ 300 °F		4.0		3.6		Surface		10 3/4		9.950		3,518'		0'		Prev. Total on Location		3682.3					
HTHP Cake Thickness (32nds)									2.0		2.0		Int. Csg.		7 5/8		6.875		11,014'		0'		Transferred In(+)/Out(-)							
Retort Solids Content									16%		16%		Washout 1										Oil Added (+)		178.6					
Corrected Solids (vol%)									13.8%		13.8%		Washout 2										Barite Added (+)		1.4					
Retort Oil Content									63%		63%		Open Hole Size		7.088		20,514'						Other Product Usage (+)		0.8					
Retort Water Content									21%		21%		ANNULAR GEOMETRY & RHEOLOGY										Water Added (+)		15.0					
O/W Ratio							75:25				75:25		annular section		meas. depth		velocity ft/min		flow reg		ECD lb/gal		Left on Cuttings (-)		-40.0					
Whole Mud Chlorides (mg/L)							53,400				54,000												Non-Recoverable Vol. (-)		-72.2					
Water Phase Salinity (ppm)							285,072				287,354												Centrifuge		-35.0					
Whole Mud Alkalinity, Pom							2.4				2.5		6.875x4.5		8,452'		0.0		lam		10.60		Est. Total on Location		3730.9					
Excess Lime (lb/bbl)							3.1 ppb				3.3 ppb		6.875x5.25		8,572'		0.0		lam		10.60		Est. Losses/Gains (-)/(+)		0.0					
Electrical Stability (volts)							472 v				485 v												BIT HYDRAULICS DATA							
Average Specific Gravity of Solids							3.25				3.16												Bit H.S.I.		Bit ΔP		Nozzles (32nds)			
Percent Low Gravity Solids							6.7%				7.5%												0.00		psi		18 18 18			
ppb Low Gravity Solids							55 ppb				61 ppb												Bit Impact Force		Nozzle Velocity (ft/sec)		18 18 18			
Percent Barite							7.1%				6.4%																			
ppb Barite							102 ppb				91 ppb		BIT DATA		Manuf./Type		GTD64M						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							C. Beasley		0		M Washburn		6 3/4		17,945 ft		28.0		4,319 ft		154.3		4,574 psi							
Remarks/Recommendations:										Rig Activity:																				
TOTAL OBM RECEIVED: 4049 bls																														
Plan Forward: POOH & LD BHA																														
Continued treating mud with CaCL for salinity, Lime for alkalinity, Opti G for HTHP control, Bentone 38 for flow																														
properties, OptiMul for ES, and OptiWet for oil wetting of solids.										Drill 6-3/4" hole section to TD at 20514, pump 3 X 30 bbls LCM Hi-Visc sweeps, as the first sweep exited the bit, pump the second sweep and repeat procedure with 3'rd sweep. Circulate 3 bottoms up and observe shale shakers to be free of cuttings. Back ream T/18745'. Strip out hole to 11061', pumping calculated fill. Condition mud & circulate B/U. Shut in well to monitor casing pressure, 553 psi. Pumped 114 BBLS of 17 PPG kill mud and displace with 99 BBLS of 10.5 PPG active mud. Strip out to 8572' to top of mud cap.																				
Eng. 1: Mike Washburn				Eng. 2: Chris Beasley				WH 1: MIDLAND				WH 2: WH #2				Rig Phone:				Daily Total				Cumulative Cost						
Phone: 361-945-5777				Phone: 903-747-5377				Phone: 432-686-7361				Phone: -								\$3,094.91				\$161,526.01						
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.										\$3,094.91				\$161,526.01							
1	1	1	1	1	1	1	1	1											INCLUDING 3RD PARTY CHARGES				\$19,774.91				\$299,959.00			



MATERIAL CONSUMPTION

Date	Operator	Well Name and No.		Rig Name and No.		Report No.			
08/29/21	MAGNOLIA OIL & GAS	ROMMEL UNIT 3H		248		Report #25			
DAILY USAGE & COST								CUMULATIVE	
Item	Unit	Unit Cost	Previous Inventory	Received	Closing Inventory	Daily Usage	Daily Cost	Cum Usage	Cum Cost
SAPP (50)	50# sk	\$44.56	93		93			54	\$2,406.24
PHPA LIQUID (pail)	5 gal	\$41.36	29		29			1	\$41.36
EVO-LUBE	gal	\$14.00							
NEW GEL (PREMIUM)	100# sk	\$19.75							
ALUMINUM TRISTEARATE									
SOAP STICKS (ea)	each	\$7.00						77	\$539.00
SAPP STICK (ea)	each	\$11.25						77	\$866.25
CACL2 (50)	50# sk	\$14.32	401		401			327	\$4,682.64
LIME (50)	50# sk	\$5.00	150		150			730	\$3,650.00
OPTI - G	50# sk	\$30.59	120		120			260	\$7,953.40
BENTONE 38 (50)	50# sk	\$163.94	46		42	4	\$655.76	21	\$3,442.74
BENTONE 910 (50)	50# sk	\$59.40	80		79	1	\$59.40	28	\$1,663.20
BENTONE 990 (50)	50# sk	\$83.59	55		54	1	\$83.59	60	\$5,015.40
OPTI - MUL	gal	\$10.75	165		165			1155	\$12,416.25
OPTI - WET	gal	\$8.34	330		330			670	\$5,587.80
NEW PHALT	50# sk	\$38.72	215		212	3	\$116.16	115	\$4,452.80
OIL SORB (25)	25# sk	\$4.75	64		64			13	\$61.75
NEW CARB (M)	50# sk	\$5.25	174		174			49	\$257.25
CYBERSEAL	25# sk	\$21.47							
MAGMAFIBER F (25)	25# sk	\$28.05	278		278			79	\$2,215.95
MAGMAFIBER R (30)	30# sk	\$28.05							
VARISEAL									
FIBER PLUG	30# sk	\$30.37							
NUT PLUG M (50)	50# sk	\$12.04							
MICA F (50)	50# sk	\$10.28	40		40				
GRAPHITE POWDER F (50)	50# sk	\$24.14	64		64				
NEW WATE (SACK BARITE)	100# sk	\$11.50	80		80				
BARITE BULK (100)	100# sk	\$7.00	1620		1600	20	\$140.00	1530	\$10,710.00
OPTI DRILL (OBM)	bbl	\$65.00	2520		2520			495	\$32,175.00
OPTIDRILL 17.5 PPG	bbl	\$89.50	627		627				
DISCOUNTED OBM	bbl	\$15.00							
ENGINEERING (24 HR)	each	\$925.00						8	\$7,400.00
ENGINEERING (DIEM)	bbl	\$30.00				2	\$60.00	48	\$1,440.00
ENGINEERING (MILES)	each	\$1.00						1792	\$1,792.00
ENGINEERING	each	\$990.00				2	\$1,980.00	40	\$39,600.00
SCALE TICKET	each	\$15.00						4	\$60.00
FORKLIFT WITH OPERATOR	each	\$125.00						2	\$250.00
TRUCKING (cwt)	each	\$2.65						3596	\$9,528.98
TRUCKING (min)	each	\$795.00						2	\$1,590.00
PALLETS (ea)	each	\$12.00						76	\$912.00
SHRINK WRAP (ea)	each	\$12.00						68	\$816.00
		Daily Sub-Total \$3,094.91			Cumulative Total \$161,526.01			\$161,526.01	

### THIRD PARTY COST SHEET

[illegible]

# FLUID VOLUME ACCOUNTING

Operator:	MAGNOLIA OIL & GAS
Rig Name:	248
Well Name:	ROMMEL UNIT 3H

	Date	WEEK 1							WEEK 2							WEEK 3						
		8/3/21	8/4/21	8/5/21	8/6/21	8/7/21	8/8/21	8/9/21	8/10/21	8/11/21	8/12/21	8/13/21	8/14/21	8/15/21	8/16/21	8/17/21	8/18/21	8/19/21	8/20/21	8/21/21	8/22/21	8/23/21
		Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon
Grand Totals	Starting Depth	3,523	5,494	9,445	11,022	11,022	11,022	11,022	11,022	11,022	11,022	11,022	11,078	11,762	11,762	11,762	11,762	11,762	11,022	11,043	11,266	13,385
	Ending Depth	5,494	9,445	11,022	11,022	11,022	11,022	11,022	11,022	11,022	11,022	11,078	11,762	11,762	11,762	11,762	11,762	11,022	11,043	11,266	13,385	16,038
	Footage Drilled	1,971	3,951	1,577	-	-	-	-	-	-	-	56	684	-	-	-	-	-	21	223	2,119	2,653
17,731	New Hole Vol.	189	374	149	-	-	-	-	-	-	-	2	30	-	-	-	-	-	1	10	94	117
1,165	Starting System Volume	3,304	3,277	3,130	3,549	3,519	507	3,422	507	507	507	3,375	3,393	3,338	3,340	3,787	3,786	3,676	3,672	3,743	3,672	3,733
97	Chemical Additions	2	7	2							6	3	4	8	6		8	4	9		7	10
1,518	Base Fluid Added	117	173	166		38					1	16	49	10	1	24	51	44	66	18	92	130
107	Barite Increase											35	21				7	14	8	7		
6,931	Weighted Mud Added			474			2,915				2,915				439							
-	Slurry Added																					
309	Water Added	25	20	25											1	1					65	64
-	Added for Washout																					
8,962	Total Additions	144	200	667	-	38	2,915	-	-	-	2,922	54	74	18	447	25	66	62	83	25	164	204
-	Surface Losses																					
-	Formation Loss																					
976	Mud Loss to Cuttings	104	206	81								6	89						12	16	103	129
952	Unrecoverable Volume	27	100	128	30	89					54			15		26	176	67		79		
266	Centrifuge Losses	40	41	40								30	40									
2,194	Total Losses	171	347	249	30	89	-	-	-	-	54	36	129	15	-	26	176	67	12	95	103	129
6,340	Mud Transferred Out					2,961		2,915														
3,731	Ending System Volume	3,277	3,130	3,549	3,519	507	3,422	507	507	507	3,375	3,393	3,338	3,340	3,787	3,786	3,676	3,672	3,743	3,672	3,733	3,808
-	Mud Recovered																					
3,895	Comments:							Comments:							Comments:							
	8/3/21	2975 bbls Transferred F/ Redwood A1H. 329 bbls was in the casing.							8/10/21							8/17/21 Lost 26bls unrecoverable while POOH wet due to plugged pipe during cement job.						
	8/4/21								8/11/21							8/18/21 Dumped 113bls of mud/spacer interface from 1st cement plug and additional 63bls of mud/spacer interface from 2nd cement plug job.						
	8/5/21	474 BBLS 14 # received from mud plant							8/12/21 Lost 54bls to cement job, skid, and line/stack flushing.							8/19/21 Lost 66bls to mud left in open hole below cement, POOH, and to shakers while drilling out cement and circulating.						
	8/6/21								8/13/21 Lost 6bls to MOC of new hole drilled. Lost additional 30bls to tripping 2000													

08/30/21

110 Old Market St.  
St Martinville, LA 70582

Report #26

TEL: (337) 394-1078

OUTSOURCE FLUID SOLUTIONS LLC.

20.4° 10,910' TVD

Operator				Contractor			County / Parish / Block			Engineer Start Date			24 hr fig.		Drilled Depth																				
MAGNOLIA OIL & GAS							PATTERSON			WASHINGTON			07/14/21			0 ft		20,514 ft																	
Well Name and No.							Rig Name and No.			State			Spud Date			Current ROP		Activity																	
ROMMEL UNIT 3H							248			TEXAS			07/14/21			0 ft/hr		Prod Casing																	
Report for							Report for			Field / OCS-G #			Fluid Type			Circulating Rate		Circulating Pressure																	
BRANDON PARKS / JAMES DYER							Tool Pusher			GIDDINGS (AC)			OBM			0 gpm		psi																	
MUD PROPERTY SPECIFICATIONS							MUD VOLUME (BBL)			PUMP #1			PUMP #2			RISER BOOSTER																			
Weight		PV		YP		E.S.		CaCl2		GELS		HTHP		In Pits		580 bbl		Liner Size		4.75		Liner Size		4.75		Liner Size									
9.8-12		10-25		6-20		>350		±290K		<10 <15		<10		In Hole		896 bbl		Stroke		12		Stroke		12		Stroke									
							8/30/21				8/29/21		Active		1012 bbl		bbl/stk		0.0625		bbl/stk		0.0625		bbl/stk		0.0000								
Time Sample Taken							0:30				14:00		Storage		2224 bbl		stk/min		0		stk/min		0		stk/min										
Sample Location							pit				pit		Tot. on Location		3700 bbl		gal/min		0		gal/min		0		gal/min		0								
Flowline Temperature °F													PHHP = 0CIRCULATION DATA n = 0.716 K = 164.036																						
Depth (ft)							20,514'				20,514'		Bit Depth = 11,009 '				Washout = 5%			Pump Efficiency = 95%															
Mud Weight (ppg)							10.7				10.7		Drill String Disp.		Volume to Bit		198.8 bbl		Strokes To Bit			Time To Bit													
Funnel Vis (sec/qt)							@ 105 °F		63		63				Bottoms Up Vol.		233.5 bbl								BottomsUp Stks		BottomsUp Time								
600 rpm							46				46				73.2 bbl		TotalCirc.Vol.		1012.3 bbl		TotalCirc.Stks			Total Circ. Time											
300 rpm							28				28		DRILLING ASSEMBLY DATA							SOLIDS CONTROL															
200 rpm							20				20		Tubulars		OD (in.)		ID (in.)		Length		Top		Unit		Screens		Hours								
100 rpm							14				13		Casing		5.500		4.670		903'		0'		Shaker 1		170										
6 rpm							5				5		Casing		5.000		4.278		10,106'		903'		Shaker 2		170										
3 rpm							4				4		Collars						11,009'		Shaker 3		170												
Plastic Viscosity (cp)							@ 150 °F		18		18		Dir. BHA						11,009'		Desander														
Yield Point (lb/100 ft²)							T0 = 3		10		10		CASING & HOLE DATA							Desilter															
Gel Strength (lb/100 ft²)							10 sec/10 min		6/9		6/11		Casing		OD (in.)		ID (in.)		Depth		Top		Centrifuge 1												
Gel Strength (lb/100 ft²)							30 min		12		12		Riser		20								VOLUME ACCOUNTING (bbls)												
HTHP Filtrate (cm/30 min)							@ 300 °F		4.0		3.8		Surface		10 3/4		9.950		3,518'		0'		Prev. Total on Location		3711.7										
HTHP Cake Thickness (32nds)									2.0		2.0		Int. Csg.		7 5/8		6.875		11,014'		0'		Transferred In(+)/Out(-)												
Retort Solids Content									16.5%		16.5%		Washout 1										Oil Added (+)		23.8										
Corrected Solids (vol%)									14.4%		14.4%		Washout 2										Barite Added (+)		7.0										
Retort Oil Content									62.5%		62.5%		Open Hole Size		7.088		20,514'						Other Product Usage (+)		0.0										
Retort Water Content									21%		21%		ANNULAR GEOMETRY & RHEOLOGY							Water Added (+)		10.0													
O/W Ratio									75:25		75:25		annular section		meas. depth		velocity ft/min		flow reg		ECD lb/gal		Left on Cuttings (-)		0.0										
Whole Mud Chlorides (mg/L)									52,500		52,000												Non-Recoverable Vol. (-)		-27.3										
Water Phase Salinity (ppm)									281,620		279,688													Centrifuge		-25.0									
Whole Mud Alkalinity, Pom									2.2		2.3		6.875x5.5		903'		0.0		lam		10.70		Est. Total on Location		3700.2										
Excess Lime (lb/bbl)									2.9 ppb		3 ppb		6.875x5		11,009'		0.0		lam		10.70		Est. Losses/Gains (-)/(+)		0.0										
Electrical Stability (volts)									458 v		465 v									BIT HYDRAULICS DATA															
Average Specific Gravity of Solids									3.25		3.24									Bit H.S.I.		Bit ΔP		Nozzles (32nds)											
Percent Low Gravity Solids									7%		7.1%									0.00		psi		18		18		18							
ppb Low Gravity Solids									57 ppb		58 ppb									Bit Impact Force		Nozzle Velocity (ft/sec)		18		18		18							
Percent Barite									7.4%		7.4%																								
ppb Barite									106 ppb		106 ppb		BIT DATA			Manuf./Type			GTD64M			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							C. Beasley		0		M Washburn		6 3/4		17,945 ft		28.0		4,319 ft		154.3		4,574 psi												
Remarks/Recommendations:											Rig Activity:																								
TOTAL OBM RECEIVED: 4049 bls																																			
Plan Forward: Run Production casing																																			
Continued treating mud with CaCL for salinity, Lime for alkalinity, Opti G for HTHP control, Bentone 38 for flow																																			
properties, OptiMul for ES, and OptiWet for oil wetting of solids.											Finish trip out of hole to BHA, remove MWD tool, drain motor, break off bit. Rig up casing tools, make up float equipment, Run 5" 18# / P-110 -ICY production casing to 10106. Switched to 5.5" 23# P-110-ICY and ran to 11,009'. Circulated at 9800' and 11,022'. Heavy kill mud is being captured in the trip tank and transferred to slug pit. 92 bbls of 14 PPPG captured and weighted up to 17 PPG. Slug pit is then being transferred to frac tanks. Active system is being maintained at 10.5 with diesel dilution and centrifuge.																								
Eng. 1: Mike Washburn				Eng. 2: Chris Beasley				WH 1: MIDLAND				WH 2: WH #2				Rig Phone:				Daily Total				Cumulative Cost											
Phone: 361-945-5777				Phone: 903-747-5377				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.															\$2,740.00				\$164,266.01							
1	1	1	1	1	1	1	1	1																INCLUDING 3RD PARTY CHARGES				\$5,120.00				\$305,079.00			



### THIRD PARTY COST SHEET

[illegible]

## FLUID VOLUME ACCOUNTING

Operator:	MAGNOLIA OIL & GAS
Rig Name:	248
Well Name:	ROMMEL UNIT 3H

		WEEK 1							WEEK 2							WEEK 3							
		Date	8/3/21	8/4/21	8/5/21	8/6/21	8/7/21	8/8/21	8/9/21	8/10/21	8/11/21	8/12/21	8/13/21	8/14/21	8/15/21	8/16/21	8/17/21	8/18/21	8/19/21	8/20/21	8/21/21	8/22/21	8/23/21
		Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	
Grand Totals	Bit Size	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	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	
	Starting Depth	3,523	5,494	9,445	11,022	11,022	11,022	11,022	11,022	11,022	11,022	11,022	11,022	11,078	11,762	11,762	11,762	11,762	11,762	11,043	11,266	13,385	
	Ending Depth	5,494	9,445	11,022	11,022	11,022	11,022	11,022	11,022	11,022	11,022	11,022	11,078	11,762	11,762	11,762	11,762	11,762	11,022	11,043	11,266	13,385	
17,731	Footage Drilled	1,971	3,951	1,577	-	-	-	-	-	-	-	56	684	-	-	-	-	21	223	2,119	2,653		
1,165	New Hole Vol.	189	374	149	-	-	-	-	-	-	-	2	30	-	-	-	-	1	10	94	117		
	Starting System Volume	3,304	3,277	3,130	3,549	3,519	507	3,422	507	507	507	3,375	3,393	3,338	3,340	3,787	3,786	3,676	3,672	3,743	3,672	3,733	
97	Chemical Additions	2	7	2							6	3	4	8	6		8	4	9		7	10	
1,542	Base Fluid Added	117	173	166		38					1	16	49	10	1	24	51	44	66	18	92	130	
114	Barite Increase											35	21				7	14	8	7			
6,931	Weighted Mud Added			474			2,915				2,915				439								
-	Slurry Added																						
319	Water Added	25	20	25											1	1					65	64	
-	Added for Washout																						
9,003	Total Additions	144	200	667	-	38	2,915	-	-	-	2,922	54	74	18	447	25	66	62	83	25	164	204	
-	Surface Losses																						
-	Formation Loss																						
976	Mud Loss to Cuttings	104	206	81								6	89					12	16	103	129		
999	Unrecoverable Volume	27	100	128	30	89					54			15		26	176	67		79			
291	Centrifuge Losses	40	41	40								30	40										
2,266	Total Losses	171	347	249	30	89	-	-	-	-	54	36	129	15	-	26	176	67	12	95	103	129	
6,340	Mud Transferred Out					2,961		2,915															
3,700	Ending System Volume	3,277	3,130	3,549	3,519	507	3,422	507	507	507	3,375	3,393	3,338	3,340	3,787	3,786	3,676	3,672	3,743	3,672	3,733	3,808	
-	Mud Recovered																						
3,895	Comments:							Comments:							Comments:								
	8/3/21	2975 bbls Transferred F/ Redwood A1H. 329 bbls was in the casing.							8/10/21							8/17/21 Lost 26bls unrecoverable while POOH wet due to plugged pipe during cement job.							
	8/4/21								8/11/21							8/18/21 Dumped 1							