01/17/21 **Report #2**

110 Old Market St.
St Martinville, LA 70582
TEL: (337) 394-1078

OUTSOURCE FLUID SOLUTIONS LLC.

0.0° **0' TVD**

Operator	Contractor	County / Parish / Block	Engineer Start Date	24 hr ftg.	Drilled Depth
MAGNOLIA OIL & GAS	**PATTERSON**	**WASHINGTON**	**01/16/21**	**2,916 ft**	**2,916 ft**
Well Name and No.	Rig Name and No.	State	Spud Date	Current ROP	Activity
SABINE D 4-H	**248**	**TEXAS**	**01/16/21**	**417 ft/hr**	**Cement-Nipple up**
Report for	Report for	Field / OCS-G #	Fluid Type	Circulating Rate	Circulating Pressure
JAMES DYER / JIM HARRISON	**Tool Pusher**	**GIDDIGNS**	**WBM**	**878 gpm**	**2,013 psi**

MUD PROPERTY SPECIFICATIONS

Weight	PV	YP	GELS	pH	API fl	% Solids
8.4-9.6	**0-10**	**0-10**	**<5 <10**	**8-9**	**<30**	**2-10**
				1/17/21		1/16/21
Time Sample Taken				2:00		15:00
Sample Location				suction		shaker
Flowline Temperature °F						110 °F
Depth (ft)				2,916'		2,916'
Mud Weight (ppg)				9.0		9.1
Funnel Vis (sec/qt)			@ 94 °F	30		33
600 rpm				5		6
300 rpm				4		5
200 rpm				2		4
100 rpm				1		3
6 rpm				1		1
3 rpm				1		1
Plastic Viscosity (cp)			@ 120 °F	1		1
Yield Point (lb/100 ft²)			T0 = 1	3		4
Gel Strength (lb/100 ft²)			10 sec/10 min	1/2		1/2
Gel Strength (lb/100 ft^2)			30 min	2		3
API Filtrate / Cake Thickness				25/1		27/1
HTHP Filtrate / Cake Thickness			@ 0 °F			
Retort Solids Content				4.9%		5.7%
Retort Oil Content						
Retort Water Content				95.1%		94.3%
Sand Content				1.5%		0.5%
M.B.T. (Methylene Blue Capacity) (ppb)				1.0		2.5
pH				8.4		8.2
Alkalinity, Mud Pm				0.1		0.1
Alkalinities, Filtrate Pf/Mf				0.1/0.2		0.1/0.2
Chlorides (mg/L)				800		700
Calcium (ppm)				120		160
Excess Lime (lb/bbl)						
Average Specific Gravity of Solids				2.60	2.60	2.60
Percent Low Gravity Solids				4.8%		5.6%
Percent Drill Solids				4.8%		5.6%
PPA Spurt / Total (ml) @			@ 0 °F			
Estimated Total LCM in System			ppb			
Sample Taken By				A. ROMAN		M Washburn

MUD VOLUME (BBL)

In Pits	
In Hole	250 bbl
Active	0 bbl
Storage	2230 bbl
Tot. on Location	2480 bbl

PUMP #1

Liner Size	5.25
Stroke	12
bbl/stk	0.0763
stk/min	137
gal/min	439

PUMP #2

Liner Size	5.25
Stroke	12
bbl/stk	0.0763
stk/min	137
gal/min	439

RISER BOOSTER

Liner Size	5.25
Stroke	12
bbl/stk	0.0763
stk/min	
gal/min	0

CIRCULATION DATA

PHHP = 1031 n = 0.322 K = 273.977

Bit Depth = ' Washout = 5% Pump Efficiency = 95%

Drill String Disp.					
0.0 bbl	Volume to Bit	0.0 bbl	Strokes To Bit	0	Time To Bit 0 min
	Bottoms Up Vol.	0.0 bbl	BottomsUp Stks	0	BottomsUp Time 0 min
	Riser Ann. Vol.	0.0 bbl	Riser Strokes	0	Riser Circ. Time 0 min

DRILLING ASSEMBLY DATA

Tubulars	OD (in.)	ID (in.)	Length	Top
			0'	0'
				0'
				0'
				0'

CASING & HOLE DATA

Casing	OD (in.)	ID (in.)	Depth	Top
Riser	20		108'	
Surface	10 3/4	9.560	2,906'	108'
Int. Csg.				108'
Washout 1				
Washout 2				
Open Hole Size	14.175		2,916'	

ANNULAR GEOMETRY & RHEOLOGY

annular section	meas. depth	velocity ft/min	flow reg	ECD lb/gal

BIT DATA Manuf./Type Ulterra U616s

Size	Depth In	Hours	Footage	ROP ft/hr
13 1/2	108 ft	7.0	2,916 ft	416.6

SOLIDS CONTROL

Unit	Screens	Hours
Shaker 1	140-80	12.0
Shaker 2	140-80	12.0
Shaker 3	140-80	12.0
Desander		6.0
Desilter		6.0
Centrifuge 1	140	12.0

VOLUME ACCOUNTING (bbls)

Prev. Total on Location	530.9
Transferred In(+)/Out(-)	2480.0
Oil Added (+)	0.0
Barite Added (+)	0.0
Other Product Usage (+)	2.5
Water Added (+)	2000.0
Left on Cuttings (-)	-569.2
Sand Trap Discharge	-500.0
Pit / Boat Cleaning (-)	-1463.8
Est. Total on Location	2480.4
Est. Losses/Gains (-)/(+)	0.0

BIT HYDRAULICS DATA

Bit H.S.I.	Bit ΔP	Nozzles (32nds)		
1.25	349 psi	14	14	14
Bit Impact Force	Nozzle Velocity (ft/sec)	14	14	14
		14	14	14
853 lbs	208			

Motor/MWD	Calc. Circ. Pressure
1,350 psi	1,735 psi

Remarks/Recommendations:

OBM RECEIVED: 2480 bbls / OBM RETURNED:

OBM ON SURFACE--- 2480 bbls (Storage + Active)

OBM LOSS/GAIN--(Daily-- 0)----Total (0)

Rig Activity:

In the past 24hrs: Skid rig over from the Sabine C-3H, make up BHA for surface hole while cementing off-line on the C-3H. Drilled 13.5" hole to TD 2916', using fresh water, laden with SAPP and Drilling Detergent as primary median. Pump Fresh water sweeps (SAPP & Soap) while drilling, dumping sand trap every 300'. At TD circulate hole clean, pump Hi-Vis(PHPA) sweep to assist on hole cleaning prior to running Surface casing. Rig up Casing crew and Run (10.75" /45.5# /BTC /P110) casing in the hole. Set circulation on last joint of casing and wash to bottom. Retrieve landing joint and cement off-line. (30bbl spacer 8.3# /314bbls Lead 11.3#/ 84bbl Tail 14.4#) disp with 250bbl OBM 9.2ppg and 20bbls of fresh water. 150bbls of cement back to surface. At this time: Nipple Up, clean Active pits for OBM.

Eng. 1:	Mike Washburn	Eng. 2:	Adolfo Roman	WH 1:	MIDLAND	WH 2:	WH #2	Rig Phone:
Phone:	361-945-5777	Phone:	956-821-9994	Phone:	432-686-7361	Phone:	-	

W	P	Y	g	G	p	A	S	C
1	1	1	1	1	1	1	1	0

	Daily Total	Cumulative Cost
	$3,329.52	**$3,329.52**
INCLUDING 3RD PARTY CHARGES	**$3,329.52**	**$3,329.52**

OUTSOURCE FLUID SOLUTIONS LLC.

MATERIAL CONSUMPTION

Date	Operator	Well Name and No.	Rig Name and No.	Report No.
01/17/21	MAGNOLIA OIL & GAS	SABINE D 4-H	248	Report #2

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	40		10	30	$1,336.80	30	$1,336.80
PHPA LIQUID (pail)	5 gal	$41.36	62		60	2	$82.72	2	$82.72
EVO-LUBE	gal	$14.00	550		550				
NEW GEL (PREMIUM)	100# sk	$19.75	70		70				
ALUMINUM TRISTEARATE	25# sk	$162.83	19		19				
CACL2 (50)	50# sk	$14.32	280		280				
LIME (50)	50# sk	$5.00	250		250				
OPTI - G	50# sk	$30.59	165		165				
BENTONE 38 (50)	50# sk	$163.94	19		19				
BENTONE 910 (50)	50# sk	$59.40	40		40				
BENTONE 990 (50)	50# sk	$83.59	50		50				
OPTI - MUL	gal	$10.75	165		165				
OPTI - WET	gal	$8.34	495		495				
NEW PHALT	50# sk	$38.72	200		200				
OIL SORB (25)	25# sk	$4.75	40		40				
NEW CARB ULTIMIX	50# sk	$6.35	106		106				
NEW CARB (M)	50# sk	$5.25	60		60				
CYBERSEAL	25# sk	$21.47							
MAGMAFIBER F (25)	25# sk	$28.05	240		240				
MAGMAFIBER R (30)	30# sk	$28.05	38		38				
VARISEAL	50# sk	$26.50	24		24				
FIBER PLUG	30# sk	$30.37							
NUT PLUG M (50)	50# sk	$12.04	75		75				
NEW WATE (SACK BARITE)	100# sk	$11.50	180		180				
BARITE BULK (100)	100# sk	$7.00	1636		1636				
OPTI DRILL (OBM)	bbl	$65.00	1644	484	2128				
DISCOUNTED OBM	bbl	$15.00	352		352				
ENGINEERING (24 HR)	each	$925.00				2	$1,850.00	2	$1,850.00
ENGINEERING (DIEM)	bbl	$30.00				2	$60.00	2	$60.00
ENGINEERING (MILES)	each	$1.00							
TRUCKING (cwt)	each	$2.65							
TRUCKING (min)	each	$795.00							
PALLETS (ea)	each	$12.00							
SHRINK WRAP (ea)	each	$12.00							
		Daily Sub-Total $3,329.52			Cumulative Total $3,329.52			$3,329.52	

THIRD PARTY COST SHEET

Date	Operator	Well Name and No.	Rig Name and No.	Report No.
01/17/21	MAGNOLIA OIL & GAS	SABINE D 4-H	248	Report #2

DAILY USAGE & COST								CUMULATIVE	
Item	Unit	Unit Cost	Previous Inventory	Received	Closing Inventory	Daily Usage	Daily Cost	Cum Usage	Cum Cost
TURBO CHEM / FIRST RESPONSE	25# sk	$41.75	120		120				
DIESEL DELIVERY 1-14-21	gal	$1.74	7000		7000				
DIESEL DELIVERY 1-15-21	gal	$1.79	7000		7000				

Cumulative Total AES & 3rd Party $3,329.52

01/18/21 **Report #3**

110 Old Market St.
St Martinville, LA 70582
TEL: (337) 394-1078

OUTSOURCE FLUID SOLUTIONS LLC.

0.0° **0' TVD**

Operator	Contractor	County / Parish / Block	Engineer Start Date	24 hr ftg.	Drilled Depth
MAGNOLIA OIL & GAS	**PATTERSON**	**WASHINGTON**	**01/16/21**	**0 ft**	**2,916 ft**
Well Name and No.	Rig Name and No.	State	Spud Date	Current ROP	Activity
SABINE D 4-H	**248**	**TEXAS**	**01/16/21**	**0 ft/hr**	**Pick up BHA / TIH**
Report for	Report for	Field / OCS-G #	Fluid Type	Circulating Rate	Circulating Pressure
JAMES DYER / JIM HARRISON	**Tool Pusher**	**GIDDIGNS**	**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	759 bbl	Liner Size	5.25	Liner Size	5.25	Liner Size	5.25
9-10.5	**5-20**	**4-15**	**>350**	**±230K**	**<10 <15**	**<10**	In Hole	270 bbl	Stroke	12	Stroke	12	Stroke	12
				1/18/21			Active	759 bbl	bbl/stk	0.0763	bbl/stk	0.0763	bbl/stk	0.0763
Time Sample Taken				2:00			Storage	1934 bbl	stk/min	0	stk/min	0	stk/min	0
Sample Location				suction			Tot. on Location	2963 bbl	gal/min	0	gal/min	0	gal/min	0
Flowline Temperature °F							PHHP = 0		**CIRCULATION DATA**				n = 0.670	K = 172.089
Depth (ft)				2,916'			Bit Depth = '		Washout = 5%				Pump Efficiency = 95%	
Mud Weight (ppg)				9.5			Drill String Disp.	Volume to Bit 0.0 bbl	Strokes To Bit				Time To Bit	
Funnel Vis (sec/qt)		@ 60 °F		47				Bottoms Up Vol. 0.0 bbl	BottomsUp Stks				BottomsUp Time	
600 rpm				35			0.0 bbl	Riser Ann. Vol. 0.0 bbl	Riser Strokes				Riser Circ. Time	
300 rpm				22			**DRILLING ASSEMBLY DATA**						**SOLIDS CONTROL**	
200 rpm				15			Tubulars	OD (in.)	ID (in.)	Length	Top		Unit	Screens	Hours
100 rpm				10			Drill Pipe	5.000	4.276	0'	0'		Shaker 1	140-80	
6 rpm				5			Agitator	6.750	2.000		0'		Shaker 2	140-80	
3 rpm				4			Drill Pipe	5.000	4.276		0'		Shaker 3	140-80	
Plastic Viscosity (cp)		@ 150 °F		13			Dir. BHA	8.000	2.750		0'		Desander		
Yield Point (lb/100 ft²)		T0 = 3		9			**CASING & HOLE DATA**						Desilter		
Gel Strength (lb/100 ft²)		10 sec/10 min		6/10			Casing	OD (in.)	ID (in.)	Depth	Top		Centrifuge 1	140	
Gel Strength (lb/100 ft^2)		30 min		14			Riser	20		108'			**VOLUME ACCOUNTING (bbls)**		
HTHP Filtrate (cm/30 min)		@ 250 °F		10.0			Surface	10 3/4	9.950	2,906'	108'		Prev. Total on Location		2480.4
HTHP Cake Thickness (32nds)				1.0			Int. Csg.				108'		Transferred In(+)/Out(-)		477.1
Retort Solids Content				12%			Washout 1						Oil Added (+)		2.6
Corrected Solids (vol%)				10.3%			Washout 2						Barite Added (+)		0.0
Retort Oil Content				65%			Open Hole Size	10.369	2,916'				Other Product Usage (+)		3.1
Retort Water Content				23%			**ANNULAR GEOMETRY & RHEOLOGY**						Water Added (+)		
O/W Ratio				74:26			annular section	meas. depth	velocity ft/min	flow reg	ECD lb/gal		Left on Cuttings (-)		0.0
Whole Mud Chlorides (mg/L)				44,000									Sand Trap Discharge		
Water Phase Salinity (ppm)				230,758									Pit / Boat Cleaning (-)		
Whole Mud Alkalinity, Pom				5.0									Est. Total on Location		2963.1
Excess Lime (lb/bbl)				6.5 ppb									Est. Losses/Gains (-)/(+)		0.0
Electrical Stability (volts)				350 v									**BIT HYDRAULICS DATA**		
Average Specific Gravity of Solids				2.91									Bit H.S.I.	Bit ΔP	Nozzles (32nds)
Percent Low Gravity Solids				7%									0.00	psi	14 14 14
ppb Low Gravity Solids				57 ppb									Bit Impact Force	Nozzle Velocity (ft/sec)	14 14 14
Percent Barite				3.3%											16 16 16
ppb Barite				48 ppb			**BIT DATA**		Manuf./Type	Ulterra SPL613			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				A ROMAN	0	0	9 7/8	2,916 ft	0.0	0 ft	#DIV/0!		1,350 psi		

Remarks/Recommendations:

OBM RECEIVED: 2963 bbls / OBM RETURNED:

OBM ON SURFACE--- 2692 bbls (Storage + Active)

OBM LOSS/GAIN--(Daily-- 0)----Total (0)

Rig Activity:

In the past 24hrs: Clean up Active pit system, screen up shakers and continue to Nipple up. Change out Annular element and rig up Rotating head Spool and Hydraulic Housing. Continue with Testing BOP's and surface equipment. Finish cleaning pits and transfer OBM to active system; Pre-Treat mud system with Opti Mul and Wet, + CaCl2 and Lime for Drill out interface. At this time: Pick up and Make up new Directional BHA, Pick up 2 stands of DC and 3 stands of HWDP. Will Continue TIH to Drill out Shoe track, condition Mud and perform FIT.

Eng. 1:	Mike Washburn	Eng. 2:	Adolfo Roman	WH 1:	MIDLAND	WH 2:	WH #2	Rig Phone:
Phone:	361-945-5777	Phone:	956-821-9994	Phone:	432-686-7361	Phone:	-	

W	P	Y	E	C	g	G	H	O
1	1	1	0	1	1	1	2	1

	Daily Total	Cumulative Cost
	$3,371.35	**$6,700.87**
INCLUDING 3RD PARTY CHARGES	**$3,371.35**	**$6,700.87**

OUTSOURCE FLUID SOLUTIONS LLC.

MATERIAL CONSUMPTION

Date	Operator	Well Name and No.	Rig Name and No.	Report No.
01/18/21	MAGNOLIA OIL & GAS	SABINE D 4-H	248	Report #3

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	10		10			30	$1,336.80
PHPA LIQUID (pail)	5 gal	$41.36	60		60			2	$82.72
EVO-LUBE	gal	$14.00	550		550				
NEW GEL (PREMIUM)	100# sk	$19.75	70		70				
ALUMINUM TRISTEARATE	25# sk	$162.83	19		19				
CACL2 (50)	50# sk	$14.32	280		260	20	$286.40	20	$286.40
LIME (50)	50# sk	$5.00	250		225	25	$125.00	25	$125.00
OPTI - G	50# sk	$30.59	165		165				
BENTONE 38 (50)	50# sk	$163.94	19		19				
BENTONE 910 (50)	50# sk	$59.40	40		40				
BENTONE 990 (50)	50# sk	$83.59	50		50				
OPTI - MUL	gal	$10.75	165		110	55	$591.25	55	$591.25
OPTI - WET	gal	$8.34	495		440	55	$458.70	55	$458.70
NEW PHALT	50# sk	$38.72	200		200				
OIL SORB (25)	25# sk	$4.75	40		40				
NEW CARB ULTIMIX	50# sk	$6.35	106		106				
NEW CARB (M)	50# sk	$5.25	60		60				
CYBERSEAL	25# sk	$21.47							
MAGMAFIBER F (25)	25# sk	$28.05	240		240				
MAGMAFIBER R (30)	30# sk	$28.05	38		38				
VARISEAL	50# sk	$26.50	24		24				
FIBER PLUG	30# sk	$30.37							
NUT PLUG M (50)	50# sk	$12.04	75		75				
NEW WATE (SACK BARITE)	100# sk	$11.50	180		180				
BARITE BULK (100)	100# sk	$7.00	1636		1636				
OPTI DRILL (OBM)	bbl	$65.00	2128	483	2611				
DISCOUNTED OBM	bbl	$15.00	352		352				
ENGINEERING (24 HR)	each	$925.00				2	$1,850.00	4	$3,700.00
ENGINEERING (DIEM)	bbl	$30.00				2	$60.00	4	$120.00
ENGINEERING (MILES)	each	$1.00							
TRUCKING (cwt)	each	$2.65							
TRUCKING (min)	each	$795.00							
PALLETS (ea)	each	$12.00							
SHRINK WRAP (ea)	each	$12.00							
		Daily Sub-Total $3,371.35			**Cumulative Total $6,700.87**			**$6,700.87**	

THIRD PARTY COST SHEET

Date	Operator	Well Name and No.	Rig Name and No.	Report No.
01/18/21	**MAGNOLIA OIL & GAS**	**SABINE D 4-H**	**248**	**Report #3**

DAILY USAGE & COST								**CUMULATIVE**	
Item	Unit	Unit Cost	Previous Inventory	Received	Closing Inventory	Daily Usage	Daily Cost	Cum Usage	Cum Cost
TURBO CHEM / FIRST RESPONSE	25# sk	$41.75	120		120				
DIESEL DELIVERY 1-14-21	gal	$1.74	7000		7000				
DIESEL DELIVERY 1-15-21	gal	$1.79	7000		7000				

Cumulative Total AES & 3rd Party $6,700.87

OUTSOURCE FLUID SOLUTIONS LLC.

FLUID VOLUME ACCOUNTING

Operator:	MAGNOLIA OIL & GAS
Rig Name:	248
Well Name:	SABINE D 4-H

		WEEK 1							WEEK 2							WEEK 3						
	Date	1/18/21	1/19/21	1/20/21	1/21/21	1/22/21	1/23/21	1/24/21	1/25/21	1/26/21	1/27/21	1/28/21	1/29/21	1/30/21	1/31/21	2/1/21	2/2/21	2/3/21	2/4/21	2/5/21	2/6/21	2/7/21
		Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun
	Bit Size	9 7/8																				
Grand Totals	Starting Depth	2,916	2,916																			
	Ending Depth	2,916																				
-	Footage Drilled	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	New Hole Vol.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Starting System Volume	2,480	2,963	2,963	2,963	2,963	2,963	2,963	2,963	2,963	2,963	2,963	2,963	2,963	2,963	2,963	2,963	2,963	2,963	2,963	2,963	2,963
6	Chemical Additions	6																				
-	Base Fluid Added	-																				
-	Barite Increase	-																				
477	Weighted Mud Added	477																				
-	Slurry Added	-																				
-	Water Added	-																				
-	Added for Washout	-																				
483	Total Additions	483	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	Surface Losses	-																				
-	Formation Loss	-																				
-	Mud Loss to Cuttings	-																				
-	Unrecoverable Volume	-																				
-	Centrifuge Losses	-																				
-	Total Losses	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	Mud Transferred Out																					
2,963	Ending System Volume	2,963	2,963	2,963	2,963	2,963	2,963	2,963	2,963	2,963	2,963	2,963	2,963	2,963	2,963	2,963	2,963	2,963	2,963	2,963	2,963	2,963
-	Mud Recovered																					

2,957

Comments:		Comments:	Comments:
1/18/21	Nipple up and test BOP, Fill up pits with OBM Pre Treat with CaCl2 and Lime. Opti Wet and Opti Mul. Screen up with 140's & 80's. NOV screens.	1/25/21	2/1/21
1/19/21		1/26/21	2/2/21
1/20/21		1/27/21	2/3/21
1/21/21		1/28/21	2/4/21
1/22/21		1/29/21	2/5/21
1/23/21		1/30/21	2/6/21
1/24/21		1/31/21	2/7/21

1/18/2021 **Report 3 pm**

110 Old Market St.
St Martinville, LA 70582

TEL: (337) 394-1078

13.0° **4,251' TVD**

Operator	Contractor	County / Parish / Block	Engineer Start Date	24 hr ftg.	Drilled Depth
MAGNOLIA OIL & GAS	**PATTERSON**	**WASHINGTON**	**01/16/21**		**4,323 ft**
Well Name and No.	Rig Name and No.	State	Spud Date	Current ROP	Activity
SABINE D 4-H	**248**	**TEXAS**	**01/16/21**	**525 ft/hr**	**DRILLING**
Report for	Report for	Field / OSC-G #	Fluid Type	Circulating Rate	Circulating Pressure
JAMES DYER / JIM HARRISON	**Tool Pusher**	**GIDDIGNS**	**OBM**	**865 gpm**	**4,935 psi**

MUD PROPERTY SPECIFICATIONS

Weight	PV	YP	E.S.	CaCl2	GELS	HTHP
9-10.5	**5-20**	**4-15**	**>350**	**±275K**	**<10 <15**	**<10**

MUD PROPERTIES				
Time Sample Taken		2:00		14:30
Sample Location		suction		shaker
Flowline Temperature °F				125 °F
Depth (ft)		2,916'		4,461'
Mud Weight (ppg)		9.5		9.4
Funnel Vis (sec/qt)	@ 110 °F	47		45
600 rpm		35		30
300 rpm		22		20
200 rpm		15		15
100 rpm		10		10
6 rpm		5		5
3 rpm		4		4
Plastic Viscosity (cp)	@ 150 °F	13		10
Yield Point (lb/100 ft²)	T0 = 3	9		10
Gel Strength (lb/100 ft²)	10 sec / 10 min	6/10		4/8
Gel Strength (lb/100 ft2)	30 min	14		10
HTHP Filtrate (cm/30 min)	@ 250 °F	10.0		9.0
HTHP Cake Thickness (32nds)		1.0		1.0
Retort Solids Content		12%		10%
Corrected Solids (vol%)		10.3%		7.9%
Retort Oil Content		65%		68%
Retort Water Content		23%		22%
O/W Ratio		74:26		76:24
Whole Mud Chlorides (mg/L)		44,000		52,000
Water Phase Salinity (ppm)		230,758		270,413
Whole Mud Alkalinity, Pom		5.0		3.0
Excess Lime (lb/bbl)		6.5 ppb		3.9 ppb
Electrical Stability (volts)		350 v		455 v
Average Specific Gravity of Solids		2.91		3.22
Percent Low Gravity Solids		7%		4%
ppb Low Gravity Solids		57 ppb		33 ppb
Percent Barite		3.3%		3.9%
ppb Barite		48 ppb		56 ppb
Estimated Total LCM in System				
Sample Taken By		A ROMAN		

MUD VOLUME (BBL)

In Pits	759 bbl
In Hole	389 bbl
Active	1148 bbl
Storage	1934 bbl
Tot. on Location	3082 bbl

PUMP #1

Liner Size	5.25
Stroke	12
bbl/stk	0.0763
stk/min	135
gal/min	433

PUMP #2

Liner Size	5.25
Stroke	12
bbl/stk	0.0763
stk/min	135
gal/min	433

RISER BOOSTER

Liner Size	5.25
Stroke	12
bbl/stk	0.0763
stk/min	
gal/min	

Mud Wt. = 9.5 PV=13 YP=9 **CIRCULATION DATA** n = 0.670 K = 172.1

Bit Depth = 4,323 ' | Washout = 5% | Pump Efficiency = 95%

Drill String Disp.							
28.2 bbl	Volume to Bit	76.8 bbl	Strokes To Bit	1,006	Time To Bit	4 min
	Bottoms Up Vol.	312.1 bbl	BottomsUp Stks	4,090	BottomsUp Time	15 min
	Riser Ann. Vol.	-2.6 bbl	Riser Strokes	-34	Riser Circ. Time	0 min

DRILLING ASSEMBLY DATA

Tubulars	OD (in.)	ID (in.)	Length	Top
Drill Pipe	5.000	4.276	4,323'	
Agitator	6.750	2.000		4,323'
Drill Pipe	5.000	4.276		4,323'
Dir. BHA	8.000	2.750		4,323'

CASING & HOLE DATA

Casing	OD (in.)	ID (in.)	Depth	Top
Riser	20		108'	
Surface	10 3/4	9.950	2,906'	108'
Int. Csg.				108'
Washout 1				
Washout 2				
Open Hole Size	10.369		4,323'	

ANNULAR GEOMETRY & RHEOLOGY

annular section	depth	velocity ft/min	flow reg	ECD lb/gal
0x5	108'	-848.4		9.96
9.95x5	2,906'	286.6	turb	10.22
10.369x5	4,323'	257.0	turb	10.49

BIT DATA Manuf./Type Ulterra SPL613

Size	Depth In	Hours	Footage	ROP ft/hr
9 7/8	2,916 ft			#DIV/0!

SOLIDS CONTROL

Unit	Screens	Hours
Shaker 1	140-80	
Shaker 2	140-80	
Shaker 3	140-80	
Desander		
Desilter		
Centrifuge 1	140	

VOLUME ACCOUNTING (bbls)

Prev. Total on Location	2963.1
Transferred In(+)/Out(-)	
Oil Added (+)	
Barite Added (+)	
Other Product Usage (+)	
Water Added (+)	
Left on Cuttings (-)	
Sand Trap Discharge	
Pit / Boat Cleaning (-)	
Est. Total on Location	2963.1
Est. Losses/Gains (-)/(+)	118.7

BIT HYDRAULICS DATA

Bit H.S.I.	Bit ΔP	Nozzles (32nds)		
1.95	296 psi	14	14	14
Bit Impact Force	Nozzle Velocity (ft/sec)	14	14	14
		16	16	16
796 lbs	186			

Motor/MWD	Calc. Circ. Pressure
1,350 psi	2,493 psi

Afternoon Remarks/Recommendations:

Beginning Volume = bbls

Todays Volume = bbls

Mud Lost To Cuttings = bbls

Mud Lost To Formation = bbls

Todays Losses = bbls Cumulative Losses = bbls

Afternoon Rig Activity:

Trip in hole with BHA #2, wash and ream cement and float equipment from 2766 to 2916 then drill 10' of new formation to 2926, circulate B/U perform FIT to 11.6 EMW - test good. Rotate and slide vertical hole section, pump 10 bbls LCM sweep every 300'. Adding diesel and water for volume and OWR adjustments. depth at time of report is 4323.

01/19/21 **Report #4**

110 Old Market St.
St Martinville, LA 70582
TEL: (337) 394-1078

OUTSOURCE FLUID SOLUTIONS LLC.

14.0° **7,095' TVD**

Operator	Contractor	County / Parish / Block	Engineer Start Date	24 hr ftg.	Drilled Depth
MAGNOLIA OIL & GAS	**PATTERSON**	**WASHINGTON**	**01/16/21**	**4,334 ft**	**7,250 ft**
Well Name and No.	Rig Name and No.	State	Spud Date	Current ROP	Activity
SABINE D 4-H	**248**	**TEXAS**	**01/16/21**	**228 ft/hr**	**Drilling Intr.**
Report for	Report for	Field / OCS-G #	Fluid Type	Circulating Rate	Circulating Pressure
JAMES DYER / JIM HARRISON	**Tool Pusher**	**GIDDIGNS**	**OBM**	**865 gpm**	**4,935 psi**

MUD PROPERTY SPECIFICATIONS

Weight	PV	YP	E.S.	CaCl2	GELS	HTHP
9-10.5	**5-20**	**4-15**	**>350**	**±265K**	**<10 <15**	**<10**
				1/19/21		1/18/21
Time Sample Taken				2:00		14:30
Sample Location				suction		shaker
Flowline Temperature °F				155 °F		125 °F
Depth (ft)				6,902'		4,461'
Mud Weight (ppg)				9.3		9.4
Funnel Vis (sec/qt)			@ 130 °F	44		45
600 rpm				34		30
300 rpm				22		20
200 rpm				18		15
100 rpm				13		10
6 rpm				7		5
3 rpm				6		4
Plastic Viscosity (cp)			@ 150 °F	12		10
Yield Point (lb/100 ft²)			T0 = 5	10		10
Gel Strength (lb/100 ft²)			10 sec/10 min	7/12		4/8
Gel Strength (lb/100 ft^2)			30 min	16		10
HTHP Filtrate (cm/30 min)			@ 250 °F	8.0		9.0
HTHP Cake Thickness (32nds)				2.0		1.0
Retort Solids Content				11%		10%
Corrected Solids (vol%)				9%		7.9%
Retort Oil Content				67%		68%
Retort Water Content				22%		22%
O/W Ratio				75:25		76:24
Whole Mud Chlorides (mg/L)				50,000		52,000
Water Phase Salinity (ppm)				262,745		270,413
Whole Mud Alkalinity, Pom				4.0		3.0
Excess Lime (lb/bbl)				5.2 ppb		3.9 ppb
Electrical Stability (volts)				422 v		455 v
Average Specific Gravity of Solids				2.83		3.22
Percent Low Gravity Solids				6.5%		4%
ppb Low Gravity Solids				54 ppb		33 ppb
Percent Barite				2.5%		3.9%
ppb Barite				35 ppb		56 ppb
Estimated Total LCM in System			ppb			
Sample Taken By				A ROMAN	0	M.Washburn

MUD VOLUME (BBL)

In Pits	783 bbl
In Hole	631 bbl
Active	1414 bbl
Storage	1934 bbl
Tot. on Location	3348 bbl

PUMP #1

Liner Size	5.25
Stroke	12
bbl/stk	0.0763
stk/min	135
gal/min	433

PUMP #2

Liner Size	5.25
Stroke	12
bbl/stk	0.0763
stk/min	135
gal/min	433

RISER BOOSTER

Liner Size	5.25
Stroke	12
bbl/stk	0.0763
stk/min	0
gal/min	0

PHHP = 2492 **CIRCULATION DATA** n = 0.628 K = 223.367

Bit Depth = 7,250 ' | Washout = 2% | Pump Efficiency = 95%

Drill String Disp.					
76.3 bbl	Volume to Bit	122.3 bbl	Strokes To Bit	1,603	Time To Bit 6 min
	Bottoms Up Vol.	509.0 bbl	BottomsUp Stks	6,671	BottomsUp Time 25 min
	TotalCirc.Vol.	1414.3 bbl	TotalCirc.Stks	18,535	Total Circ. Time 69 min

DRILLING ASSEMBLY DATA

Tubulars	OD (in.)	ID (in.)	Length	Top
Drill Pipe	5.000	4.276	4,577'	0'
Agitator	6.750	2.000	30'	4,577'
Drill Pipe	5.000	4.276	2,064'	4,607'
Dir. BHA	8.000	2.750	580'	6,670'

CASING & HOLE DATA

Casing	OD (in.)	ID (in.)	Depth	Top
Riser				
Surface	10 3/4	9.950	2,906'	0'
Int. Csg.				0'
Washout 1				
Washout 2				
Open Hole Size	10.073		7,250'	

ANNULAR GEOMETRY & RHEOLOGY

annular section	meas. depth	velocity ft/min	flow reg	ECD lb/gal
9.95x5	2,906'	286.6	turb	9.72
10.073x5	4,577'	277.4	turb	9.83
10.073x6.75	4,607'	379.4	turb	10.01
10.073x5	6,670'	277.4	turb	10.05
10.073x8	7,250'	566.1	turb	10.35

BIT DATA Manuf./Type Ulterra SPL613

Size	Depth In	Hours	Footage	ROP ft/hr
9 7/8	2,916 ft	19.0	4,334 ft	228.1

SOLIDS CONTROL

Unit	Screens	Hours
Shaker 1	140-80	24.0
Shaker 2	140-80	24.0
Shaker 3	140-80	24.0
Centrifuge 1	140	24.0

VOLUME ACCOUNTING (bbls)

Prev. Total on Location	2963.1
Transferred In(+)/Out(-)	481.0
Oil Added (+)	241.3
Barite Added (+)	0.0
Other Product Usage (+)	17.4
Water Added (+)	150.0
Left on Cuttings (-)	-405.8
Non-Recoverable Vol. (-)	-98.7
Est. Total on Location	3348.4
Est. Losses/Gains (-)/(+)	0.0

BIT HYDRAULICS DATA

Bit H.S.I.	Bit ΔP	Nozzles (32nds)		
1.90	288 psi	14	14	14
Bit Impact Force	Nozzle Velocity (ft/sec)	14	14	14
		16	16	16
776 lbs	186			

Motor/MWD	Calc. Circ. Pressure
1,330 psi	3,858 psi

Remarks/Recommendations:

OBM RECEIVED: 3444 bbls / OBM RETURNED: 0

OBM ON SURFACE--- 2679 bbls (Storage + Active)

OBM LOSS/GAIN--(Daily: -96bbls)----Total (-96bbls)

Rig Activity:

In the past 24hrs: TIH tag top of float collar, drill out shoe track and perform FIT to 11.6EMW. Circulate and condition mud while performing repairs to Mud lines. Resume drilling operations on Intermediate section. With initial pump rate at 660gpm, drill into new formation, once BHA got pass the shoe, increase Rate to 886gpm, ROP 750-1000ft/hr. Elevated pump rate, surpass the performance on the shakers, and Dryer Shakers, causing OBM overflow into cuttings tank. estimated recovery (10%+-) of the overflow. Agressive additions of Diesel & Water to offset such losses, and respective chemicals to maintain properties. Transfer OBM as needed to maintain Volume in active system. At this time: Continue Drilling (rotating/Sliding) on Intermediate section, Bit currently passing 7350'.

Eng. 1:	Mike Washburn	Eng. 2:	Adolfo Roman	WH 1:	MIDLAND	WH 2:	WH #2	Rig Phone:
Phone:	361-945-5777	Phone:	956-821-9994	Phone:	432-686-7361	Phone:	-	

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.

	Daily Total	Cumulative Cost
	$13,769.33	**$20,470.20**
INCLUDING 3RD PARTY CHARGES	**$31,462.53**	**$38,163.40**

OUTSOURCE FLUID SOLUTIONS LLC.

MATERIAL CONSUMPTION

Date	Operator	Well Name and No.	Rig Name and No.	Report No.
01/19/21	MAGNOLIA OIL & GAS	SABINE D 4-H	248	Report #4

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	10		10			30	$1,336.80
PHPA LIQUID (pail)	5 gal	$41.36	60		60			2	$82.72
EVO-LUBE	gal	$14.00	550		550				
NEW GEL (PREMIUM)	100# sk	$19.75	70		70				
ALUMINUM TRISTEARATE	25# sk	$162.83	19		19				
CACL2 (50)	50# sk	$14.32	260		224	36	$515.52	56	$801.92
LIME (50)	50# sk	$5.00	225		190	35	$175.00	60	$300.00
OPTI - G	50# sk	$30.59	165		120	45	$1,376.55	45	$1,376.55
BENTONE 38 (50)	50# sk	$163.94	19		15	4	$655.76	4	$655.76
BENTONE 910 (50)	50# sk	$59.40	40		40				
BENTONE 990 (50)	50# sk	$83.59	50		50				
OPTI - MUL	gal	$10.75	110		110			55	$591.25
OPTI - WET	gal	$8.34	440		385	55	$458.70	110	$917.40
NEW PHALT	50# sk	$38.72	200		160	40	$1,548.80	40	$1,548.80
OIL SORB (25)	25# sk	$4.75	40		40				
NEW CARB ULTIMIX	50# sk	$6.35	106		90	16	$101.60	16	$101.60
NEW CARB (M)	50# sk	$5.25	60		60				
CYBERSEAL	25# sk	$21.47							
MAGMAFIBER F (25)	25# sk	$28.05	240		220	20	$561.00	20	$561.00
MAGMAFIBER R (30)	30# sk	$28.05	38		38				
VARISEAL	50# sk	$26.50	24		20	4	$106.00	4	$106.00
FIBER PLUG	30# sk	$30.37							
NUT PLUG M (50)	50# sk	$12.04	75		65	10	$120.40	10	$120.40
NEW WATE (SACK BARITE)	100# sk	$11.50	180		180				
BARITE BULK (100)	100# sk	$7.00	1636		1636				
OPTI DRILL (OBM)	bbl	$65.00	2611	481	2996	96	$6,240.00	96	$6,240.00
DISCOUNTED OBM	bbl	$15.00	352		352				
ENGINEERING (24 HR)	each	$925.00				2	$1,850.00	6	$5,550.00
ENGINEERING (DIEM)	bbl	$30.00				2	$60.00	6	$180.00
ENGINEERING (MILES)	each	$1.00							
TRUCKING (cwt)	each	$2.65							
TRUCKING (min)	each	$795.00							
PALLETS (ea)	each	$12.00							
SHRINK WRAP (ea)	each	$12.00							

Daily Sub-Total $13,769.33	Cumulative Total $20,470.20	$20,470.20

THIRD PARTY COST SHEET

Date	Operator	Well Name and No.	Rig Name and No.	Report No.
01/19/21	**MAGNOLIA OIL & GAS**	**SABINE D 4-H**	**248**	**Report #4**

DAILY USAGE & COST								CUMULATIVE	
Item	Unit	Unit Cost	Previous Inventory	Received	Closing Inventory	Daily Usage	Daily Cost	Cum Usage	Cum Cost
TURBO CHEM / FIRST RESPONSE	25# sk	$41.75	120		120				
DIESEL DELIVERY 1-14-21	gal	$1.74	7000			7000	$12,180.00	7000	$12,180.00
DIESEL DELIVERY 1-15-21	gal	$1.79	7000		3920	3080	$5,513.20	3080	$5,513.20
						Daily Sub-Total	$17,693.20		$17,693.20

Cumulative Total AES & 3rd Party $38,163.40

OUTSOURCE FLUID SOLUTIONS LLC.

FLUID VOLUME ACCOUNTING

Operator:	MAGNOLIA OIL & GAS
Rig Name:	248
Well Name:	SABINE D 4-H

Grand Totals		WEEK 1							WEEK 2							WEEK 3						
	Date	1/18/21	1/19/21	1/20/21	1/21/21	1/22/21	1/23/21	1/24/21	1/25/21	1/26/21	1/27/21	1/28/21	1/29/21	1/30/21	1/31/21	2/1/21	2/2/21	2/3/21	2/4/21	2/5/21	2/6/21	2/7/21
		Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun
	Bit Size	9 7/8	9 7/8																			
	Starting Depth	2,916	2,916	7,250																		
	Ending Depth	2,916	7,250																			
4,334	Footage Drilled	-	4,334	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
411	New Hole Vol.	-	411	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Starting System Volume	2,480	2,963	3,348	3,348	3,348	3,348	3,348	3,348	3,348	3,348	3,348	3,348	3,348	3,348	3,348	3,348	3,348	3,348	3,348	3,348	3,348
23	Chemical Additions	6	17																			
241	Base Fluid Added	-	241																			
-	Barite Increase	-	-																			
958	Weighted Mud Added	477	481																			
-	Slurry Added	-	-																			
150	Water Added	-	150																			
-	Added for Washout	-	-																			
1,373	Total Additions	483	890	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
99	Surface Losses	-	99																			
-	Formation Loss	-	-																			
406	Mud Loss to Cuttings	-	406																			
-	Unrecoverable Volume	-	-																			
-	Centrifuge Losses	-	-																			
505	Total Losses	-	505	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	Mud Transferred Out																					
3,348	Ending System Volume	2,963	3,348	3,348	3,348	3,348	3,348	3,348	3,348	3,348	3,348	3,348	3,348	3,348	3,348	3,348	3,348	3,348	3,348	3,348	3,348	3,348
-	Mud Recovered																					

3,438

Comments:		Comments:	Comments:
1/18/21	Nipple up and test BOP, Fill up pits with OBM Pre Treat with CaCl2 and Lime. Opti Wet and Opti Mul. Screen up with 140's & 80's. NOV screens.	1/25/21	2/1/21
1/19/21	Drilling Intermeditate section. Massive GPM = losses at the shakers. Aggressive additions of Diesel-Water and chemicals.	1/26/21	2/2/21
1/20/21		1/27/21	2/3/21
1/21/21		1/28/21	2/4/21
1/22/21		1/29/21	2/5/21
1/23/21		1/30/21	2/6/21
1/24/21		1/31/21	2/7/21

1/19/2021 **Report 4 pm**

110 Old Market St.
St Martinville, LA 70582

TEL: (337) 394-1078

2.7° **8,999' TVD**

Operator	Contractor	County / Parish / Block	Engineer Start Date	24 hr ftg.	Drilled Depth
MAGNOLIA OIL & GAS	**PATTERSON**	**WASHINGTON**	**01/16/21**		**9,188 ft**
Well Name and No.	Rig Name and No.	State	Spud Date	Current ROP	Activity
SABINE D 4-H	**248**	**TEXAS**	**01/16/21**	**350 ft/hr**	**DRILLING**
Report for	Report for	Field / OSC-G #	Fluid Type	Circulating Rate	Circulating Pressure
JAMES DYER / JIM HARRISON	**Tool Pusher**	**GIDDIGNS**	**OBM**	**795 gpm**	**5,210 psi**

MUD PROPERTY SPECIFICATIONS

Weight	PV	YP	E.S.	CaCl2	GELS	HTHP
9-10.5	**5-20**	**4-15**	**>350**	**±265K**	**<10 <15**	**<10**

MUD PROPERTIES				
Time Sample Taken		2:00		15:30
Sample Location		suction		shaker
Flowline Temperature °F		155 °F		160 °F
Depth (ft)		6,902'		9,201'
Mud Weight (ppg)		9.3		9.5
Funnel Vis (sec/qt)	@ 135 °F	44		43
600 rpm		34		36
300 rpm		22		23
200 rpm		18		17
100 rpm		13		11
6 rpm		7		6
3 rpm		6		5
Plastic Viscosity (cp)	@ 150 °F	12		13
Yield Point (lb/100 ft²)	T0 = 5	10		10
Gel Strength (lb/100 ft²)	10 sec / 10 min	7/12		6/9
Gel Strength (lb/100 ft2)	30 min	16		11
HTHP Filtrate (cm/30 min)	@ 250 °F	8.0		7.2
HTHP Cake Thickness (32nds)		2.0		2.0
Retort Solids Content		11%		12%
Corrected Solids (vol%)		9%		10%
Retort Oil Content		67%		66%
Retort Water Content		22%		22%
O/W Ratio		75:25		75:25
Whole Mud Chlorides (mg/L)		50,000		51,000
Water Phase Salinity (ppm)		262,745		266,599
Whole Mud Alkalinity, Pom		4.0		2.8
Excess Lime (lb/bbl)		5.2 ppb		3.6 ppb
Electrical Stability (volts)		422 v		486 v
Average Specific Gravity of Solids		2.83		2.86
Percent Low Gravity Solids		6.5%		7.1%
ppb Low Gravity Solids		54 ppb		58 ppb
Percent Barite		2.5%		2.9%
ppb Barite		35 ppb		42 ppb
Estimated Total LCM in System				
Sample Taken By		A ROMAN		M.Washburn

MUD VOLUME (BBL)

In Pits	783 bbl
In Hole	810 bbl
Active	1593 bbl
Storage	1934 bbl
Tot. on Location	3527 bbl

PUMP #1

Liner Size	5.25
Stroke	12
bbl/stk	0.0763
stk/min	124
gal/min	397

PUMP #2

Liner Size	5.25
Stroke	12
bbl/stk	0.0763
stk/min	124
gal/min	397

RISER BOOSTER

Liner Size	5.25
Stroke	12
bbl/stk	0.0763
stk/min	
gal/min	

Mud Wt. = 9.3 PV=12 YP=10 **CIRCULATION DATA** n = 0.628 K = 223.4

Bit Depth = 9,188 ' | Washout = 2% | Pump Efficiency = 95%

Drill String Disp.							
88.9 bbl	Volume to Bit	156.7 bbl	Strokes To Bit	2,054	Time To Bit	8 min
	Bottoms Up Vol.	653.0 bbl	BottomsUp Stks	8,557	BottomsUp Time	35 min
	TotalCirc.Vol.	1592.7 bbl	TotalCirc.Stks	20,872	Total Circ. Time	84 min

DRILLING ASSEMBLY DATA

Tubulars	OD (in.)	ID (in.)	Length	Top
Drill Pipe	5.000	4.276	6,515'	
Agitator	6.750	2.000	30'	6,515'
Drill Pipe	5.000	4.276	2,064'	6,545'
Dir. BHA	8.000	2.750	580'	8,608'

CASING & HOLE DATA

Casing	OD (in.)	ID (in.)	Depth	Top
Riser				
Surface	10 3/4	9.950	2,906'	
Int. Csg.				
Washout 1				
Washout 2				
Open Hole Size	10.073		9,188'	

ANNULAR GEOMETRY & RHEOLOGY

annular section	depth	velocity ft/min	flow reg	ECD lb/gal
9.95x5	2,906'	263.2	turb	9.80
10.073x5	6,515'	254.8	lam	9.94
10.073x6.75	6,545'	348.5	turb	10.24
10.073x5	8,608'	254.8	lam	10.36
10.073x8	9,188'	520.0	turb	10.72

BIT DATA Manuf./Type Ulterra SPL613

Size	Depth In	Hours	Footage	ROP ft/hr
9 7/8	2,916 ft	19.0	4,334 ft	228.1

SOLIDS CONTROL

Unit	Screens	Hours
Shaker 1	140-80	
Shaker 2	140-80	
Shaker 3	140-80	
Centrifuge 1	140	

VOLUME ACCOUNTING (bbls)

Prev. Total on Location	3348.3
Transferred In(+)/Out(-)	
Oil Added (+)	
Barite Added (+)	
Other Product Usage (+)	
Water Added (+)	
Left on Cuttings (-)	
Non-Recoverable Vol. (-)	
Est. Total on Location	3348.3
Est. Losses/Gains (-)/(+)	178.4

BIT HYDRAULICS DATA

Bit H.S.I.	Bit ΔP	Nozzles (32nds)		
1.47	243 psi	14	14	14
Bit Impact Force	Nozzle Velocity (ft/sec)	14	14	14
		16	16	16
655 lbs	171			

Motor/MWD 1,330 psi | Calc. Circ. Pressure 3,794 psi

Afternoon Remarks/Recommendations:

Beginning Volume = bbls

Todays Volume = bbls

Mud Lost To Cuttings = bbls

Mud Lost To Formation = bbls

Todays Losses = bbls Cumulative Losses = bbls

Afternoon Rig Activity:

Drilling, rotate and slide, orienting angle in 9-7/8" verical hole section, maintain mud wt at 9.4 to 9.6 Pump 10 bbls LCM sweep every 300'. Adding diesel and fresh water for OWR, Lime and Optimul for alkalinty and ES, OptiG Gilsonite for HTHP control, and Newphalt for wellbore stability. Depth at time of report is 9346'. Recieve 480 bbls 0f 9.0 OBM from Newpark Madisonville WH.

01/20/21 **Report #5**

110 Old Market St.
St Martinville, LA 70582
TEL: (337) 394-1078

OUTSOURCE FLUID SOLUTIONS LLC.

0.7° **9,511' TVD**

Operator	Contractor	County / Parish / Block	Engineer Start Date	24 hr ftg.	Drilled Depth
MAGNOLIA OIL & GAS	**PATTERSON**	**WASHINGTON**	**01/16/21**	**2,674 ft**	**9,924 ft**
Well Name and No.	Rig Name and No.	State	Spud Date	Current ROP	Activity
SABINE D 4-H	**248**	**TEXAS**	**01/16/21**	**178 ft/hr**	**POOH**
Report for	Report for	Field / OCS-G #	Fluid Type	Circulating Rate	Circulating Pressure
JAMES DYER / JIM HARRISON	**Tool Pusher**	**GIDDIGNS**	**OBM**	**801 gpm**	**4,820 psi**

MUD PROPERTY SPECIFICATIONS						
Weight	PV	YP	E.S.	CaCl2	GELS	HTHP
9-10.5	**5-20**	**4-15**	**>350**	**±265K**	**<10 <15**	**<10**
				1/20/21		1/19/21
Time Sample Taken				2:00		15:30
Sample Location				suction		shaker
Flowline Temperature °F				160 °F		160 °F
Depth (ft)				9,826'		9,201'
Mud Weight (ppg)				9.6		9.5
Funnel Vis (sec/qt)			@ 135 °F	43		43
600 rpm				35		36
300 rpm				22		23
200 rpm				17		17
100 rpm				12		11
6 rpm				6		6
3 rpm				5		5
Plastic Viscosity (cp)			@ 150 °F	13		13
Yield Point (lb/100 ft²)			T0 = 4	9		10
Gel Strength (lb/100 ft²)			10 sec/10 min	7/11		6/9
Gel Strength (lb/100 ft^2)			30 min	14		11
HTHP Filtrate (cm/30 min)			@ 250 °F	7.0		7.2
HTHP Cake Thickness (32nds)				2.0		2.0
Retort Solids Content				12%		12%
Corrected Solids (vol%)				10%		10%
Retort Oil Content				67%		66%
Retort Water Content				21%		22%
O/W Ratio				76:24		75:25
Whole Mud Chlorides (mg/L)				50,000		51,000
Water Phase Salinity (ppm)				271,855		266,599
Whole Mud Alkalinity, Pom				3.0		2.8
Excess Lime (lb/bbl)				3.9 ppb		3.6 ppb
Electrical Stability (volts)				465 v		486 v
Average Specific Gravity of Solids				3.01		2.86
Percent Low Gravity Solids				6.2%		7.1%
ppb Low Gravity Solids				51 ppb		58 ppb
Percent Barite				3.8%		2.9%
ppb Barite				54 ppb		42 ppb
Estimated Total LCM in System			ppb			
Sample Taken By				A ROMAN	0	M.Washburn

MUD VOLUME (BBL)		PUMP #1		PUMP #2		RISER BOOSTER	
In Pits	639 bbl	Liner Size	5.25	Liner Size	5.25	Liner Size	5.25
In Hole	879 bbl	Stroke	12	Stroke	12	Stroke	12
Active	1496 bbl	bbl/stk	0.0763	bbl/stk	0.0763	bbl/stk	0.0763
Storage	2185 bbl	stk/min	125	stk/min	125	stk/min	0
Tot. on Location	3703 bbl	gal/min	401	gal/min	401	gal/min	0

CIRCULATION DATA

PHHP = 2253 n = 0.670 K = 172.089

Bit Depth = 9,700 ' Washout = 2% Pump Efficiency = 95%

Drill String Disp.					
92.3 bbl	Volume to Bit	165.8 bbl	Strokes To Bit	2,173	Time To Bit 9 min
	Bottoms Up Vol.	691.0 bbl	BottomsUp Stks	9,056	BottomsUp Time 36 min
	TotalCirc.Vol.	1495.8 bbl	TotalCirc.Stks	19,603	Total Circ. Time 78 min

DRILLING ASSEMBLY DATA

Tubulars	OD (in.)	ID (in.)	Length	Top
Drill Pipe	5.000	4.276	7,027'	0'
Agitator	6.750	2.000	30'	7,027'
Drill Pipe	5.000	4.276	2,064'	7,057'
Dir. BHA	8.000	2.750	580'	9,120'

CASING & HOLE DATA

Casing	OD (in.)	ID (in.)	Depth	Top
Riser				
Surface	10 3/4	9.950	2,906'	0'
Int. Csg.				0'
Washout 1				
Washout 2				
Open Hole Size	10.073		9,924'	

ANNULAR GEOMETRY & RHEOLOGY

annular section	meas. depth	velocity ft/min	flow reg	ECD lb/gal
9.95x5	2,906'	265.4	turb	9.96
10.073x5	7,027'	256.8	turb	10.02
10.073x6.75	7,057'	351.3	turb	10.17
10.073x5	9,120'	256.8	turb	10.24
10.073x8	9,700'	524.2	turb	10.47

BIT DATA Manuf./Type Ulterra SPL613

Size	Depth In	Hours	Footage	ROP ft/hr
9 7/8	2,916 ft	34.0	7,008 ft	206.1

SOLIDS CONTROL

Unit	Screens	Hours
Shaker 1	140-80	24.0
Shaker 2	140-80	24.0
Shaker 3	140-80	24.0
Centrifuge 1	140	24.0

VOLUME ACCOUNTING (bbls)

Prev. Total on Location	3348.3
Transferred In(+)/Out(-)	476.0
Oil Added (+)	175.6
Barite Added (+)	33.8
Other Product Usage (+)	7.6
Water Added (+)	50.0
Left on Cuttings (-)	-263.5
Non-Recoverable Vol. (-)	-74.9
Centrifuge/Evap	-50.0
Est. Total on Location	3702.9
Est. Losses/Gains (-)/(+)	0.0

BIT HYDRAULICS DATA

Bit H.S.I.	Bit ΔP	Nozzles (32nds)		
1.56	255 psi	14	14	14
Bit Impact Force	Nozzle Velocity (ft/sec)	14	14	14
		16	16	16
687 lbs	172			

Motor/MWD	Calc. Circ. Pressure
1,330 psi	4,019 psi

Remarks/Recommendations:

OBM RECEIVED: 3920 bbls / OBM RETURNED: 0

OBM ON SURFACE--- 2837 bbls (Storage + Active)

OBM LOSS/GAIN--(Daily: -96bbls)----Total (-96bbls)

Rig Activity:

In the past 24hrs: Drilling operations on Intermediate section. Maintain pump rate at 886gpm, ROP 400-600ft/hr. Maintain agressive additions of Diesel & Water to offset evaporation and mud lost to cuttings, & chemicals to maintain properties. Pump 10bbls LCM sweep (Magmafiber/NewPhalt/Nut Plug) 4ppb/ea. every 300'. Transfer OBM as needed to maintain Volume in active system. Perform Electrical repairs to Top Drive 4hrs. Maintain circulation during this time. Resume drilling for 100', MWD not acquiring data. Troubleshoot with no success. Pump Slug and start POOH to change out MWD. At this time: Continue POOH passing 9600'.

Eng. 1:	Mike Washburn	Eng. 2:	Adolfo Roman	WH 1:	MIDLAND	WH 2:	WH #2	Rig Phone:
Phone:	361-945-5777	Phone:	956-821-9994	Phone:	432-686-7361	Phone:	-	

W	P	Y	E	C	g	G	H	O
1	1	1	1	1	1	1	1	1

	Daily Total	Cumulative Cost
	$16,101.30	**$36,571.50**
INCLUDING 3RD PARTY CHARGES	**$29,034.10**	**$67,197.50**

OUTSOURCE FLUID SOLUTIONS LLC.

MATERIAL CONSUMPTION

Date	Operator	Well Name and No.	Rig Name and No.	Report No.
01/20/21	MAGNOLIA OIL & GAS	SABINE D 4-H	248	Report #5

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	10		10			30	$1,336.80
PHPA LIQUID (pail)	5 gal	$41.36	60		60			2	$82.72
EVO-LUBE	gal	$14.00	550		550				
NEW GEL (PREMIUM)	100# sk	$19.75	70		70				
ALUMINUM TRISTEARATE	25# sk	$162.83	19		19				
CACL2 (50)	50# sk	$14.32	224		224			56	$801.92
LIME (50)	50# sk	$5.00	190		170	20	$100.00	80	$400.00
OPTI - G	50# sk	$30.59	120		100	20	$611.80	65	$1,988.35
BENTONE 38 (50)	50# sk	$163.94	15		15			4	$655.76
BENTONE 910 (50)	50# sk	$59.40	40		40				
BENTONE 990 (50)	50# sk	$83.59	50		50				
OPTI - MUL	gal	$10.75	110		110			55	$591.25
OPTI - WET	gal	$8.34	385		330	55	$458.70	165	$1,376.10
NEW PHALT	50# sk	$38.72	160		140	20	$774.40	60	$2,323.20
OIL SORB (25)	25# sk	$4.75	40		40				
NEW CARB ULTIMIX	50# sk	$6.35	90		80	10	$63.50	26	$165.10
NEW CARB (M)	50# sk	$5.25	60		60				
CYBERSEAL	25# sk	$21.47							
MAGMAFIBER F (25)	25# sk	$28.05	220		210	10	$280.50	30	$841.50
MAGMAFIBER R (30)	30# sk	$28.05	38		38				
VARISEAL	50# sk	$26.50	20		20			4	$106.00
FIBER PLUG	30# sk	$30.37							
NUT PLUG M (50)	50# sk	$12.04	65		55	10	$120.40	20	$240.80
NEW WATE (SACK BARITE)	100# sk	$11.50	180		180				
BARITE BULK (100)	100# sk	$7.00	1636		1150	486	$3,402.00	486	$3,402.00
OPTI DRILL (OBM)	bbl	$65.00	2996	476	3350	122	$7,930.00	218	$14,170.00
DISCOUNTED OBM	bbl	$15.00	352		352				
ENGINEERING (24 HR)	each	$925.00				2	$1,850.00	8	$7,400.00
ENGINEERING (DIEM)	bbl	$30.00				2	$60.00	8	$240.00
ENGINEERING (MILES)	each	$1.00				450	$450.00	450	$450.00
TRUCKING (cwt)	each	$2.65							
TRUCKING (min)	each	$795.00							
PALLETS (ea)	each	$12.00							
SHRINK WRAP (ea)	each	$12.00							

Daily Sub-Total $16,101.30	Cumulative Total $36,571.50	$36,571.50

THIRD PARTY COST SHEET

Date	Operator	Well Name and No.	Rig Name and No.	Report No.
01/20/21	MAGNOLIA OIL & GAS	SABINE D 4-H	248	Report #5

DAILY USAGE & COST								CUMULATIVE	
Item	Unit	Unit Cost	Previous Inventory	Received	Closing Inventory	Daily Usage	Daily Cost	Cum Usage	Cum Cost
TURBO CHEM / FIRST RESPONSE	25# sk	$41.75	120		120				
DIESEL DELIVERY 1-14-21	gal	$1.74						7000	$12,180.00
DIESEL DELIVERY 1-15-21	gal	$1.79	3920			3920	$7,016.80	7000	$12,530.00
DIESEL DELIVERY 1-19-21	gal	$1.74		14400	11000	3400	$5,916.00	3400	$5,916.00
						Daily Sub-Total	$12,932.80		$30,626.00

Cumulative Total AES & 3rd Party $67,197.50

OUTSOURCE FLUID SOLUTIONS LLC.

FLUID VOLUME ACCOUNTING

Operator:	MAGNOLIA OIL & GAS
Rig Name:	248
Well Name:	SABINE D 4-H

Grand Totals		WEEK 1							WEEK 2							WEEK 3						
	Date	1/18/21	1/19/21	1/20/21	1/21/21	1/22/21	1/23/21	1/24/21	1/25/21	1/26/21	1/27/21	1/28/21	1/29/21	1/30/21	1/31/21	2/1/21	2/2/21	2/3/21	2/4/21	2/5/21	2/6/21	2/7/21
		Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun
	Bit Size	9 7/8	9 7/8	9 7/8																		
	Starting Depth	2,916	2,916	7,250	9,924																	
	Ending Depth	2,916	7,250	9,924																		
7,008	Footage Drilled	-	4,334	2,674	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
664	New Hole Vol.	-	411	253	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Starting System Volume	2,480	2,963	3,348	3,703	3,703	3,703	3,703	3,703	3,703	3,703	3,703	3,703	3,703	3,703	3,703	3,703	3,703	3,703	3,703	3,703	3,703
31	Chemical Additions	6	17	8																		
417	Base Fluid Added	-	241	176																		
34	Barite Increase	-	-	34																		
1,434	Weighted Mud Added	477	481	476																		
-	Slurry Added	-	-	-																		
200	Water Added	-	150	50																		
-	Added for Washout	-	-	-																		
2,116	Total Additions	483	890	743	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
174	Surface Losses	-	99	75																		
-	Formation Loss	-	-	-																		
669	Mud Loss to Cuttings	-	406	264																		
-	Unrecoverable Volume	-	-	-																		
50	Centrifuge Losses	-	-	50																		
893	Total Losses	-	505	388	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	Mud Transferred Out																					
3,703	Ending System Volume	2,963	3,348	3,703	3,703	3,703	3,703	3,703	3,703	3,703	3,703	3,703	3,703	3,703	3,703	3,703	3,703	3,703	3,703	3,703	3,703	3,703
-	Mud Recovered																					

3,914

Comments:		Comments:	Comments:
1/18/21	Nipple up and test BOP, Fill up pits with OBM Pre Treat with CaCl2 and Lime. Opti Wet and Opti Mul. Screen up with 140's & 80's. NOV screens.	1/25/21	2/1/21
1/19/21	Drilling Intermeditate section. Massive GPM = losses at the shakers. Aggressive additions of Diesel-Water and chemicals.	1/26/21	2/2/21
1/20/21	Drilling ahead on Intermedite section. At 9924' MWD fail to Sync. POOH to change out same.	1/27/21	2/3/21
1/21/21		1/28/21	2/4/21
1/22/21		1/29/21	2/5/21
1/23/21		1/30/21	2/6/21
1/24/21		1/31/21	2/7/21

1/20/2021 **Report 5 pm**

110 Old Market St.
St Martinville, LA 70582

TEL: (337) 394-1078

4.9° **968' TVD**

Operator	Contractor	County / Parish / Block	Engineer Start Date	24 hr ftg.	Drilled Depth
MAGNOLIA OIL & GAS	**PATTERSON**	**WASHINGTON**	**01/16/21**		**9,924 ft**
Well Name and No.	Rig Name and No.	State	Spud Date	Current ROP	Activity
SABINE D 4-H	**248**	**TEXAS**	**01/16/21**		**RIH**
Report for	Report for	Field / OSC-G #	Fluid Type	Circulating Rate	Circulating Pressure
JAMES DYER / JIM HARRISON	**Tool Pusher**	**GIDDIGNS**	**OBM**		

MUD PROPERTY SPECIFICATIONS						
Weight	PV	YP	E.S.	CaCl2	GELS	HTHP
9-10.5	**5-20**	**4-15**	**>350**	**±265K**	**<10 <15**	**<10**

MUD PROPERTIES			
Time Sample Taken	2:00		11:00
Sample Location	suction		suction
Flowline Temperature °F	160 °F		
Depth (ft)	9,826'		9,924'
Mud Weight (ppg)	9.6		9.6
Funnel Vis (sec/qt) @ 135 °F	43		45
600 rpm	35		36
300 rpm	22		23
200 rpm	17		17
100 rpm	12		11
6 rpm	6		6
3 rpm	5		5
Plastic Viscosity (cp) @ 150 °F	13		13
Yield Point (lb/100 ft²) T0 = 4	9		10
Gel Strength (lb/100 ft²) 10 sec / 10 min	7/11		7/10
Gel Strength (lb/100 ft2) 30 min	14		13
HTHP Filtrate (cm/30 min) @ 250 °F	7.0		7.0
HTHP Cake Thickness (32nds)	2.0		2.0
Retort Solids Content	12%		12%
Corrected Solids (vol%)	10%		10.1%
Retort Oil Content	67%		67%
Retort Water Content	21%		21%
O/W Ratio	76:24		76:24
Whole Mud Chlorides (mg/L)	50,000		49,000
Water Phase Salinity (ppm)	271,855		267,875
Whole Mud Alkalinity, Pom	3.0		2.8
Excess Lime (lb/bbl)	3.9 ppb		3.6 ppb
Electrical Stability (volts)	465 v		455 v
Average Specific Gravity of Solids	3.01		3.01
Percent Low Gravity Solids	6.2%		6.3%
ppb Low Gravity Solids	51 ppb		52 ppb
Percent Barite	3.8%		3.8%
ppb Barite	54 ppb		54 ppb
Estimated Total LCM in System			
Sample Taken By	A ROMAN		M.Meehan

MUD VOLUME (BBL)		PUMP #1		PUMP #2		RISER BOOSTER	
In Pits	582 bbl	Liner Size	5.25	Liner Size	5.25	Liner Size	5.25
In Hole	936 bbl	Stroke	12	Stroke	12	Stroke	12
Active	640 bbl	bbl/stk	0.0763	bbl/stk	0.0763	bbl/stk	0.0763
Storage	2185 bbl	stk/min		stk/min		stk/min	
Tot. on Location	3703 bbl	gal/min		gal/min		gal/min	

Mud Wt. = 9.6 PV=13 YP=9 **CIRCULATION DATA** n = 0.670 K = 172.1

Bit Depth = 969 ' | Washout = 2% | Pump Efficiency = 95%

Drill String Disp.	Volume to Bit	10.8 bbl	Strokes To Bit		Time To Bit	
	Bottoms Up Vol.	47.1 bbl	BottomsUp Stks		BottomsUp Time	
35.3 bbl	TotalCirc.Vol.	639.9 bbl	TotalCirc.Stks		Total Circ. Time	

DRILLING ASSEMBLY DATA

Tubulars	OD (in.)	ID (in.)	Length	Top
Drill Pipe	5.000	4.276	0'	
Agitator	6.750	2.000	30'	0'
Drill Pipe	5.000	4.276	359'	30'
Dir. BHA	8.000	2.750	580'	389'

CASING & HOLE DATA

Casing	OD (in.)	ID (in.)	Depth	Top
Riser				
Surface	10 3/4	9.950	2,906'	
Int. Csg.				
Washout 1				
Washout 2				
Open Hole Size	10.073		9,924'	

ANNULAR GEOMETRY & RHEOLOGY

annular section	depth	velocity ft/min	flow reg	ECD lb/gal
9.95x5	0'		lam	9.60
9.95x6.75	30'		lam	9.60
9.95x5	389'		lam	9.60
9.95x8	969'		lam	9.60

BIT DATA Manuf./Type Ulterra SPL613

Size	Depth In	Hours	Footage	ROP ft/hr
9 7/8	9,924 ft			#DIV/0!

SOLIDS CONTROL

Unit	Screens	Hours
Shaker 1	140-80	
Shaker 2	140-80	
Shaker 3	140-80	
Centrifuge 1	140	

VOLUME ACCOUNTING (bbls)

Prev. Total on Location	3702.9
Transferred In(+)/Out(-)	
Oil Added (+)	
Barite Added (+)	
Other Product Usage (+)	
Water Added (+)	
Left on Cuttings (-)	
Non-Recoverable Vol. (-)	
Centrifuge/Evap	
Est. Total on Location	3702.9
Est. Losses/Gains (-)/(+)	0.0

BIT HYDRAULICS DATA

Bit H.S.I.	Bit ΔP	Nozzles (32nds)		
		14	14	14
Bit Impact Force	Nozzle Velocity (ft/sec)	14	14	14
		16	16	16

Motor/MWD | Calc. Circ. Pressure: 17 psi

Afternoon Remarks/Recommendations:

Pump 10 bbl sweep every 300 ft. Sweep Contains: 10 ppb

CalCarb Medium, 10 ppb Newphalt and 10 ppb Magnafiber fine

Afternoon Rig Activity:

Continue to POOH. Laid down BHA. Make up new BHA with bit, mud motor and MWD. RIH.

01/21/21 **Report #6**

110 Old Market St.
St Martinville, LA 70582
TEL: (337) 394-1078

OUTSOURCE FLUID SOLUTIONS LLC.

0.0° **0' TVD**

Operator	Contractor	County / Parish / Block	Engineer Start Date	24 hr ftg.	Drilled Depth
MAGNOLIA OIL & GAS	**PATTERSON**	**WASHINGTON**	**01/16/21**	**247 ft**	**10,171 ft**
Well Name and No.	Rig Name and No.	State	Spud Date	Current ROP	Activity
SABINE D 4-H	**248**	**TEXAS**	**01/16/21**	**0 ft/hr**	**LD BHA**
Report for	Report for	Field / OCS-G #	Fluid Type	Circulating Rate	Circulating Pressure
Bobby Gwin/ Kevin Burt	**Tool Pusher**	**GIDDIGNS**	**OBM**	**0 gpm**	

MUD PROPERTY SPECIFICATIONS							MUD VOLUME (BBL)		PUMP #1		PUMP #2		RISER BOOSTER	
Weight	PV	YP	E.S.	CaCl2	GELS	HTHP	In Pits	425 bbl	Liner Size	5.25	Liner Size	5.25	Liner Size	5.25
9-10.5	**5-20**	**4-15**	**>350**	**±265K**	**<10 <15**	**<10**	In Hole	996 bbl	Stroke	12	Stroke	12	Stroke	12
				1/21/21		1/20/21	Active	425 bbl	bbl/stk	0.0763	bbl/stk	0.0763	bbl/stk	0.0763
Time Sample Taken				2:00		11:00	Storage	2185 bbl	stk/min		stk/min		stk/min	0
Sample Location				suction		suction	Tot. on Location	3606 bbl	gal/min	0	gal/min	0	gal/min	0
Flowline Temperature °F							PHHP = 0		**CIRCULATION DATA**				n = 0.670	K = 172.089
Depth (ft)				10,171'		9,924'	Bit Depth = '		Washout = 2%				Pump Efficiency = 95%	
Mud Weight (ppg)				9.5		9.6	Drill String Disp.	Volume to Bit 0.0 bbl	Strokes To Bit				Time To Bit	
Funnel Vis (sec/qt)			@ 125 °F	46		45		Bottoms Up Vol. 0.0 bbl	BottomsUp Stks				BottomsUp Time	
600 rpm				35		36	0.0 bbl	TotalCirc.Vol. 425.0 bbl	TotalCirc.Stks				Total Circ. Time	
300 rpm				22		23	**DRILLING ASSEMBLY DATA**						**SOLIDS CONTROL**	
200 rpm				17		17	Tubulars	OD (in.)	ID (in.)	Length	Top		Unit	Screens	Hours
100 rpm				12		11	Drill Pipe	5.000	4.276	0'	0'		Shaker 1	140-80	24.0
6 rpm				6		6	Agitator	6.750	2.000		0'		Shaker 2	140-80	24.0
3 rpm				5		5	Drill Pipe	5.000	4.276		0'		Shaker 3	140-80	24.0
Plastic Viscosity (cp)			@ 150 °F	13		13	Dir. BHA	8.000	2.750		0'				
Yield Point (lb/100 ft²)			T0 = 4	9		10	**CASING & HOLE DATA**								
Gel Strength (lb/100 ft²)			10 sec/10 min	7/10		7/10	Casing	OD (in.)	ID (in.)	Depth	Top		Centrifuge 1	140	3.0
Gel Strength (lb/100 ft²)			30 min	13		13	Riser						**VOLUME ACCOUNTING (bbls)**		
HTHP Filtrate (cm/30 min)			@ 250 °F	7.0		7.0	Surface	10 3/4	9.950	2,906'	0'		Prev. Total on Location		3702.9
HTHP Cake Thickness (32nds)				2.0		2.0	Int. Csg.				0'		Transferred In(+)/Out(-)		
Retort Solids Content				11.8%		12%	Washout 1						Oil Added (+)		107.4
Corrected Solids (vol%)				9.8%		10.1%	Washout 2						Barite Added (+)		0.0
Retort Oil Content				66.7%		67%	Open Hole Size	10.073	10,171'				Other Product Usage (+)		1.7
Retort Water Content				21.5%		21%	**ANNULAR GEOMETRY & RHEOLOGY**						Water Added (+)		
O/W Ratio				76:24		76:24	annular section	meas. depth	velocity ft/min	flow reg	ECD lb/gal		Left on Cuttings (-)		-24.3
Whole Mud Chlorides (mg/L)				49,000		49,000							Seepage		-153.2
Water Phase Salinity (ppm)				263,285		267,875							Cent/ Evap/ Pits		-29.0
Whole Mud Alkalinity, Pom				2.4		2.8							Est. Total on Location		3605.5
Excess Lime (lb/bbl)				3.1 ppb		3.6 ppb							Est. Losses/Gains (-)/(+)		0.0
Electrical Stability (volts)				465 v		455 v							**BIT HYDRAULICS DATA**		
Average Specific Gravity of Solids				2.93		3.01							Bit H.S.I.	Bit ΔP	Nozzles (32nds)
Percent Low Gravity Solids				6.6%		6.3%							0.00	psi	14 14 14
ppb Low Gravity Solids				54 ppb		52 ppb							Bit Impact Force	Nozzle Velocity (ft/sec)	14 14 14
Percent Barite				3.2%		3.8%									16 16 16
ppb Barite				46 ppb		54 ppb	**BIT DATA**		Manuf./Type	Ulterra SPL613			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				R. Bowlin	0	M.Meehan	9 7/8	9,924 ft	5.0	247 ft	49.4		psi		

Remarks/Recommendations:

OBM RECEIVED: 3920 bbls / OBM RETURNED: 0

OBM ON SURFACE--- 2610 bbls (Storage + Active)

OBM LOSS/GAIN--(Daily: -97bbls)----Total (-315bbls)

Rig Activity:

Made a BHA trip due to issues with the MWD tool, once on bottom drilled to interval TD at 10,171'MD. Pumped one 30bbl sweep for the clean up, pump slug and TOOH. KOP at 9,924'MD 9,734'TVD. Maintained pump rate at 800gpm while drilling the remaining 247', continued dilution rates as needed to maintain active MW at 9.45-9.5ppg. At the time of the morning report LD BHA

Eng. 1:	Eng. 2:	WH 1:	WH 2:	Rig Phone:	Daily Total	Cumulative Cost
Matt Meehan	Rob Bowlin	MIDLAND	WH #2	
Phone:	Phone: 22-990-1055	Phone: 432-686-7361	Phone: -		**$11,066.96**	**$47,638.46**

W 1 P 1 Y 1 E 1 C 1 g 1 G 1 H 1 O 1

INCLUDING 3RD PARTY CHARGES **$18,917.84** **$86,115.34**

1/21/2021 **Report 6 pm**

110 Old Market St.
St Martinville, LA 70582

TEL: (337) 394-1078

12.4° **2,397' TVD**

Operator	Contractor	County / Parish / Block	Engineer Start Date	24 hr ftg.	Drilled Depth
MAGNOLIA OIL & GAS	**PATTERSON**	**WASHINGTON**	**01/16/21**		**10,171 ft**
Well Name and No.	Rig Name and No.	State	Spud Date	Current ROP	Activity
SABINE D 4-H	**248**	**TEXAS**	**01/16/21**		**Run Casing**
Report for	Report for	Field / OSC-G #	Fluid Type	Circulating Rate	Circulating Pressure
Bobby Gwin/ Kevin Burt	**Tool Pusher**	**GIDDIGNS**	**OBM**		

MUD PROPERTY SPECIFICATIONS						
Weight	PV	YP	E.S.	CaCl2	GELS	HTHP
9-10.5	**5-20**	**4-15**	**>350**	**±265K**	**<10 <15**	**<10**

MUD PROPERTIES				
Time Sample Taken		2:00		11:00
Sample Location		suction		suction
Flowline Temperature °F				
Depth (ft)		10,171'		10,171'
Mud Weight (ppg)		9.5		9.6
Funnel Vis (sec/qt)	@ 125 °F	46		46
600 rpm		35		36
300 rpm		22		22
200 rpm		17		17
100 rpm		12		11
6 rpm		6		6
3 rpm		5		5
Plastic Viscosity (cp)	@ 150 °F	13		14
Yield Point (lb/100 ft²)	T0 = 4	9		8
Gel Strength (lb/100 ft²)	10 sec / 10 min	7/10		7/10
Gel Strength (lb/100 ft2)	30 min	13		13
HTHP Filtrate (cm/30 min)	@ 250 °F	7.0		7.0
HTHP Cake Thickness (32nds)		2.0		2.0
Retort Solids Content		11.8%		12%
Corrected Solids (vol%)		9.8%		10.1%
Retort Oil Content		66.7%		67%
Retort Water Content		21.5%		21%
O/W Ratio		76:24		76:24
Whole Mud Chlorides (mg/L)		49,000		49,000
Water Phase Salinity (ppm)		263,285		267,875
Whole Mud Alkalinity, Pom		2.4		2.2
Excess Lime (lb/bbl)		3.1 ppb		2.9 ppb
Electrical Stability (volts)		465 v		460 v
Average Specific Gravity of Solids		2.93		3.01
Percent Low Gravity Solids		6.6%		6.3%
ppb Low Gravity Solids		54 ppb		52 ppb
Percent Barite		3.2%		3.8%
ppb Barite		46 ppb		54 ppb
Estimated Total LCM in System				
Sample Taken By		R. Bowlin		M.Meehan

MUD VOLUME (BBL)		PUMP #1		PUMP #2		RISER BOOSTER	
In Pits	440 bbl	Liner Size	5.25	Liner Size	5.25	Liner Size	5.25
In Hole	970 bbl	Stroke	12	Stroke	12	Stroke	12
Active	646 bbl	bbl/stk	0.0763	bbl/stk	0.0763	bbl/stk	0.0763
Storage	2185 bbl	stk/min		stk/min		stk/min	
Tot. on Location	3595 bbl	gal/min		gal/min		gal/min	

Mud Wt. = 9.5 PV=13 YP=9 **CIRCULATION DATA** n = 0.670 K = 172.1

Bit Depth = 2,408 ' | Washout = 2% | Pump Efficiency = 95%

Drill String Disp.	Volume to Bit	110.6 bbl	Strokes To Bit	Time To Bit
	Bottoms Up Vol.	95.6 bbl	BottomsUp Stks	BottomsUp Time
25.4 bbl	TotalCirc.Vol.	646.1 bbl	TotalCirc.Stks	Total Circ. Time

DRILLING ASSEMBLY DATA

Tubulars	OD (in.)	ID (in.)	Length	Top
Drill Pipe	7.625	6.875	2,408'	
Agitator				2,408'
Drill Pipe				2,408'
Dir. BHA				2,408'

CASING & HOLE DATA

Casing	OD (in.)	ID (in.)	Depth	Top
Riser				
Surface	10 3/4	9.950	2,906'	
Int. Csg.				
Washout 1				
Washout 2				
Open Hole Size	10.073		10,171'	

ANNULAR GEOMETRY & RHEOLOGY

annular section	depth	velocity ft/min	flow reg	ECD lb/gal
9.95x7.625	2,408'		lam	9.50

BIT DATA Manuf./Type

Size	Depth In	Hours	Footage	ROP ft/hr
9 7/8	10,171 ft			

SOLIDS CONTROL

Unit	Screens	Hours
Shaker 1	140-80	
Shaker 2	140-80	
Shaker 3	140-80	
Centrifuge 1	140	

VOLUME ACCOUNTING (bbls)

Prev. Total on Location	3605.6
Transferred In(+)/Out(-)	
Oil Added (+)	
Barite Added (+)	
Other Product Usage (+)	
Water Added (+)	
Left on Cuttings (-)	
Seepage	
Cent/ Evap/ Pits	-10.4
Est. Total on Location	3595.2
Est. Losses/Gains (-)/(+)	0.0

BIT HYDRAULICS DATA

Bit H.S.I.	Bit ΔP	Nozzles (32nds)		
#DIV/0!	#DIV/0!			
Bit Impact Force	Nozzle Velocity (ft/sec)			
#DIV/0!				

Motor/MWD	Calc. Circ. Pressure
	#DIV/0!

Afternoon Remarks/Recommendations:

Pump 10 bbl sweep every 300 ft. Sweep Contains: 10 ppb

CalCarb Medium, 10 ppb Newphalt and 10 ppb Magnafiber fine

Afternoon Rig Activity:

Laid down BHA. Service the rig. Rigged up to run casing. Running 7 5/8" casing.

01/22/21 **Report #7**

110 Old Market St.
St Martinville, LA 70582
TEL: (337) 394-1078

OUTSOURCE FLUID SOLUTIONS LLC.

0.0° **0' TVD**

Operator	Contractor	County / Parish / Block	Engineer Start Date	24 hr ftg.	Drilled Depth
MAGNOLIA OIL & GAS	**PATTERSON**	**WASHINGTON**	**01/16/21**	**0 ft**	**10,171 ft**
Well Name and No.	Rig Name and No.	State	Spud Date	Current ROP	Activity
SABINE D 4-H	**248**	**TEXAS**	**01/16/21**	**0 ft/hr**	**Prep to Skid**
Report for	Report for	Field / OCS-G #	Fluid Type	Circulating Rate	Circulating Pressure
Bobby Gwin/ Kevin Burt	**Tool Pusher**	**GIDDIGNS**	**OBM**	**0 gpm**	

MUD PROPERTY SPECIFICATIONS							MUD VOLUME (BBL)		PUMP #1		PUMP #2		RISER BOOSTER	
Weight	PV	YP	E.S.	CaCl2	GELS	HTHP	In Pits		Liner Size	5.25	Liner Size	5.25	Liner Size	5.25
9-10.5	**5-20**	**4-15**	**>350**	**±265K**	**<10 <15**	**<10**	In Hole	466 bbl	Stroke	12	Stroke	12	Stroke	12
				1/23/21		1/21/21	Active	0 bbl	bbl/stk	0.0763	bbl/stk	0.0763	bbl/stk	0.0763
Time Sample Taken						11:00	Storage		stk/min		stk/min		stk/min	0
Sample Location				suction		suction	Tot. on Location	466 bbl	gal/min	0	gal/min	0	gal/min	0
Flowline Temperature °F							PHHP = 0		**CIRCULATION DATA**				n = 0.670	K = 172.089
Depth (ft)				10,171'		10,171'			Washout = 2%				Pump Efficiency = 95%	
Mud Weight (ppg)				9.5		9.6	Drill String Disp.	Volume to Bit 0.0 bbl	Strokes To Bit				Time To Bit	
Funnel Vis (sec/qt)		@ 122 °F		46		46		Bottoms Up Vol. 0.0 bbl	BottomsUp Stks				BottomsUp Time	
600 rpm				35		36	0.0 bbl	TotalCirc.Vol. 0.0 bbl	TotalCirc.Stks				Total Circ. Time	
300 rpm				22		22	**DRILLING ASSEMBLY DATA**						**SOLIDS CONTROL**	
200 rpm				17		17	Tubulars	OD (in.) ID (in.) Length Top					Unit	Screens Hours
100 rpm				12		11	Drill Pipe	0' 0'					Shaker 1	140-80 21.0
6 rpm				6		6	Agitator	0'					Shaker 2	140-80 21.0
3 rpm				5		5	Drill Pipe	0'					Shaker 3	140-80 21.0
Plastic Viscosity (cp)		@ 150 °F		13		14	Dir. BHA	0'						
Yield Point (lb/100 ft²)		T0 = 4		9		8	**CASING & HOLE DATA**							
Gel Strength (lb/100 ft²)		10 sec/10 min		7/10		7/10	Casing	OD (in.) ID (in.) Depth Top					Centrifuge 1	140
Gel Strength (lb/100 ft²)		30 min		13		13	Riser						**VOLUME ACCOUNTING (bbls)**	
HTHP Filtrate (cm/30 min)		@ 250 °F		7.0		7.0	Surface	10 3/4 2,906' 0'					Prev. Total on Location	3605.6
HTHP Cake Thickness (32nds)				2.0		2.0	Int. Csg.	7 5/8 6.875 10,148' 0'					Transferred In(+)/Out(-)	-3077.0
Retort Solids Content				11.5%		12%	Washout 1						Oil Added (+)	5.9
Corrected Solids (vol%)				9.5%		10.1%	Washout 2						Barite Added (+)	0.0
Retort Oil Content				67%		67%	Open Hole Size	0.000 10,171'					Other Product Usage (+)	0.0
Retort Water Content				21.5%		21%	**ANNULAR GEOMETRY & RHEOLOGY**						Water Added (+)	20.0
O/W Ratio				76:24		76:24	annular section	meas. depth	velocity ft/min	flow reg	ECD lb/gal		Left on Cuttings (-)	0.0
Whole Mud Chlorides (mg/L)				49,000		49,000							Seepage/ Interface	-72.5
Water Phase Salinity (ppm)				263,285		267,875							Evap/ Pits	-16.0
Whole Mud Alkalinity, Pom				2.4		2.2							Est. Total on Location	466.0
Excess Lime (lb/bbl)				3.1 ppb		2.9 ppb							Est. Losses/Gains (-)/(+)	0.0
Electrical Stability (volts)				465 v		460 v							**BIT HYDRAULICS DATA**	
Average Specific Gravity of Solids				2.99		3.01							Bit H.S.I. / Bit ΔP / Nozzles (32nds)	
Percent Low Gravity Solids				6%		6.3%								
ppb Low Gravity Solids				50 ppb		52 ppb							Bit Impact Force / Nozzle Velocity (ft/sec)	
Percent Barite				3.5%		3.8%								
ppb Barite				50 ppb		54 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				R. Bowlin	0	M.Meehan							psi	

Remarks/Recommendations:

OBM RECEIVED: 3920 bbls / OBM RETURNED: 0

OBM LOSS/GAIN--(Daily: -63bbls)----Total (-377bbls)

466bbls Left in casing

3077bbls Skid Vol.

Rig Activity:

Over the past 24 hours Patterson 248 ran the intermediate casing string, setting the shoe at 10,148'MD. Circulated one and a half casing volumes and cemented the same in good fashion. Observed 21bbls of interface contaminated OBM and 40bbls of spacer on surface this volume was diverted to the open top for disposal. Began to RD and prepare to skid to the C-3H. Left 466bbls of 9.0ppg OBM in the casing and 3077bbls will be the skid vol. Currently conditioning the active volume decreasing the density to 8.8-8.9ppg primarily with diesel. This will build volume and increase the oil% to be incorporated with the 40bbls of drill H2O in the surface casing string and blended with 10.0ppg OBM currently in the C-43 casing string.

Eng. 1:	Eng. 2:	WH 1:	WH 2:	Rig Phone:
Matt Meehan	Rob Bowlin	MIDLAND	WH #2	
Phone:	Phone: 22-990-1055	Phone: 432-686-7361	Phone: -	

W	P	Y	E	C	g	G	H	O
1	1	1	1	1	1	1	1	1

	Daily Total	Cumulative Cost
	$6,812.50	**$54,450.96**
INCLUDING 3RD PARTY CHARGES	**$7,244.02**	**$93,359.36**

OUTSOURCE FLUID SOLUTIONS LLC.

MATERIAL CONSUMPTION

Date	Operator	Well Name and No.	Rig Name and No.	Report No.
01/22/21	MAGNOLIA OIL & GAS	SABINE D 4-H	248	Report #7

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	10	-10				30	$1,336.80
PHPA LIQUID (pail)	5 gal	$41.36	60	-60				2	$82.72
EVO-LUBE	gal	$14.00	550	-550					
NEW GEL (PREMIUM)	100# sk	$19.75	70	-70					
ALUMINUM TRISTEARATE	25# sk	$162.83	19	-19					
CACL2 (50)	50# sk	$14.32	224	-224				56	$801.92
LIME (50)	50# sk	$5.00	470	-470				80	$400.00
OPTI - G	50# sk	$30.59	180	-180				65	$1,988.35
BENTONE 38 (50)	50# sk	$163.94	11	-11				8	$1,311.52
BENTONE 910 (50)	50# sk	$59.40	40	-40					
BENTONE 990 (50)	50# sk	$83.59	50	-50					
OPTI - MUL	gal	$10.75	550	-550				55	$591.25
OPTI - WET	gal	$8.34	550	-550				165	$1,376.10
NEW PHALT	50# sk	$38.72	130	-130				70	$2,710.40
OIL SORB (25)	25# sk	$4.75	40	-40					
NEW CARB ULTIMIX	50# sk	$6.35	80	-80				26	$165.10
NEW CARB (M)	50# sk	$5.25	180	-180					
CYBERSEAL	25# sk	$21.47							
MAGMAFIBER F (25)	25# sk	$28.05	200	-200				40	$1,122.00
MAGMAFIBER R (30)	30# sk	$28.05	38	-38					
VARISEAL	50# sk	$26.50	20	-20				4	$106.00
FIBER PLUG	30# sk	$30.37							
NUT PLUG M (50)	50# sk	$12.04	55	-55				20	$240.80
NEW WATE (SACK BARITE)	100# sk	$11.50	180	-180					
BARITE BULK (100)	100# sk	$7.00	1150	-1150				486	$3,402.00
OPTI DRILL (OBM)	bbl	$65.00	3254	-2725	466	63	$4,062.50	377	$24,505.00
DISCOUNTED OBM	bbl	$10.00	352	-352					
ENGINEERING (24 HR)	each	$925.00				2	$1,850.00	12	$11,100.00
ENGINEERING (DIEM)	bbl	$30.00				2	$60.00	12	$360.00
ENGINEERING (MILES)	each	$1.00				840	$840.00	1889	$1,889.00
TRUCKING (cwt)	each	$2.65							
TRUCKING (min)	each	$650.00						1	$650.00
PALLETS (ea)	each	$12.00						13	$156.00
SHRINK WRAP (ea)	each	$12.00						13	$156.00
		Daily Sub-Total $6,812.50			**Cumulative Total $54,450.96**			**$54,450.96**	

THIRD PARTY COST SHEET

Date	Operator	Well Name and No.	Rig Name and No.	Report No.
01/22/21	MAGNOLIA OIL & GAS	SABINE D 4-H	248	Report #7

DAILY USAGE & COST / **CUMULATIVE**

Item	Unit	Unit Cost	Previous Inventory	Received	Closing Inventory	Daily Usage	Daily Cost	Cum Usage	Cum Cost
TURBO CHEM / FIRST RESPONSE	25# sk	$41.75	120	-120					
DIESEL DELIVERY 1-14-21	gal	$1.74						7000	$12,180.00
DIESEL DELIVERY 1-15-21	gal	$1.79						7000	$12,530.00
DIESEL DELIVERY 1-19-21	gal	$1.74	6488	-6240		248	$431.52	8160	$14,198.40

Daily Sub-Total $431.52 | **$38,908.40**

Cumulative Total AES & 3rd Party $93,359.36

OUTSOURCE FLUID SOLUTIONS LLC.

FLUID VOLUME ACCOUNTING

Operator:	MAGNOLIA OIL & GAS
Rig Name:	248
Well Name:	SABINE D 4-H

		WEEK 1							WEEK 2							WEEK 3						
	Date	1/18/21	1/19/21	1/20/21	1/21/21	1/22/21	1/23/21	1/24/21	1/25/21	1/26/21	1/27/21	1/28/21	1/29/21	1/30/21	1/31/21	2/1/21	2/2/21	2/3/21	2/4/21	2/5/21	2/6/21	2/7/21
		Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun
	Bit Size	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8																
Grand Totals	Starting Depth	2,916	2,916	7,250	9,924	10,171	10,171															
	Ending Depth	2,916	7,250	9,924	10,171	10,171																
7,255	Footage Drilled	-	4,334	2,674	247	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
687	New Hole Vol.	-	411	253	23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Starting System Volume	2,480	2,963	3,348	3,703	3,610	471	471	471	471	471	471	471	471	471	471	471	471	471	471	471	471
38	Chemical Additions	6	17	8	2	6																
524	Base Fluid Added	-	241	176	107																	
34	Barite Increase	-	-	34																		
1,434	Weighted Mud Added	477	481	476																		
-	Slurry Added	-	-	-																		
220	Water Added	-	150	50		20																
-	Added for Washout	-	-	-																		
2,250	Total Additions	483	890	743	109	26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
204	Surface Losses	-	99	75	14	16																
174	Formation Loss	-	-	-	123	51																
693	Mud Loss to Cuttings	-	406	264	24																	
62	Unrecoverable Volume	-	-	-	40	22																
50	Centrifuge Losses	-	-	50																		
1,182	Total Losses	-	505	388	201	89	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3,077	Mud Transferred Out					3,077																
471	Ending System Volume	2,963	3,348	3,703	3,610	471	471	471	471	471	471	471	471	471	471	471	471	471	471	471	471	471
-	Mud Recovered																					

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Comments:		Comments:	Comments:
1/18/21	Nipple up and test BOP, Fill up pits with OBM Pre Treat with CaCl2 and Lime. Opti Wet and Opti Mul. Screen up with 140's & 80's. NOV screens.	1/25/21	2/1/21
1/19/21	Drilling Intermeditate section. Massive GPM = losses at the shakers. Aggressive additions of Diesel-Water and chemicals.	1/26/21	2/2/21
1/20/21	Drilling ahead on Intermedite section. At 9924' MWD fail to Sync. POOH to change out same.	1/27/21	2/3/21
1/21/21	Drilled to interval TD at 10,171'MD, (KOP at 9,924'MD 9,734'TVD	1/28/21	2/4/21
1/22/21	Cement the intermediate string with good returns. Skid Vol. 3077bbls/ 466bbls 9.0ppg left in casing.	1/29/21	2/5/21
1/23/21		1/30/21	2/6/21
1/24/21		1/31/21	2/7/21

03/13/21 **Report #8**

110 Old Market St.
St Martinville, LA 70582
TEL: (337) 394-1078

OUTSOURCE FLUID SOLUTIONS LLC.

4.2° **9,782' TVD**

Operator	Contractor	County / Parish / Block	Engineer Start Date	24 hr ftg.	Drilled Depth
MAGNOLIA OIL & GAS	**PATTERSON**	**WASHINGTON**	**01/16/21**	**0 ft**	**10,171 ft**
Well Name and No.	Rig Name and No.	State	Spud Date	Current ROP	Activity
SABINE D 4-H	**248**	**TEXAS**	**01/16/21**	**0 ft/hr**	**TIH / FIT / DRILLING**
Report for	Report for	Field / OCS-G #	Fluid Type	Circulating Rate	Circulating Pressure
JIM HARRISON/JAMES DYER	**Tool Pusher**	**GIDDIGNS**	**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	887 bbl	Liner Size	4.75	Liner Size	4.75	Liner Size	4.75
8.8-9.8	**5-20**	**4-15**	**>450**	**±275K**	**<10 <15**	**<10**	In Hole	407 bbl	Stroke	12	Stroke	12	Stroke	12
				3/13/21		1/21/21	Active	1285 bbl	bbl/stk	0.0625	bbl/stk	0.0625	bbl/stk	0.0625
Time Sample Taken				3:00		11:00	Storage	1268 bbl	stk/min	0	stk/min	0	stk/min	0
Sample Location				suction		suction	Tot. on Location	2562 bbl	gal/min	0	gal/min	0	gal/min	0
Flowline Temperature °F							PHHP = 0		**CIRCULATION DATA**				n = 0.637	K = 172.351
Depth (ft)				10,171'		10,171'	Bit Depth = 9,971 '		Washout = 1%				Pump Efficiency = 95%	
Mud Weight (ppg)				9.0		9.6	Drill String Disp.	Volume to Bit 138.9 bbl	Strokes To Bit				Time To Bit	
Funnel Vis (sec/qt)		@ 80 °F		44		46		Bottoms Up Vol. 259.1 bbl	BottomsUp Stks				BottomsUp Time	
600 rpm				28		36	59.8 bbl	TotalCirc.Vol. 1284.8 bbl	TotalCirc.Stks				Total Circ. Time	
300 rpm				18		22	**DRILLING ASSEMBLY DATA**						**SOLIDS CONTROL**	
200 rpm				14		17	Tubulars	OD (in.)	ID (in.)	Length	Top		Unit	Screens	Hours
100 rpm				11		11	Drill Pipe	4.500	3.826	7,234'	0'		Shaker 1	200	12.0
6 rpm				6		6	Agitator	5.375	3.000	29'	7,234'		Shaker 2	200	12.0
3 rpm				4		5	Drill Pipe	4.500	3.826	2,378'	7,263'		Shaker 3	200	12.0
Plastic Viscosity (cp)		@ 150 °F		10		14	Dir. BHA	5.250	2.500	330'	9,641'				
Yield Point (lb/100 ft²)		T0 = 2		8		8	**CASING & HOLE DATA**								
Gel Strength (lb/100 ft²)		10 sec/10 min		6/10		7/10	Casing	OD (in.)	ID (in.)	Depth	Top		Centrifuge 1	NOV	4.0
Gel Strength (lb/100 ft^2)		30 min		12		13	Riser						**VOLUME ACCOUNTING (bbls)**		
HTHP Filtrate (cm/30 min)		@ 250 °F		7.0		7.0	Surface	10 3/4		2,906'	0'		Prev. Total on Location		465.9
HTHP Cake Thickness (32nds)				2.0		2.0	Int. Csg.	7 5/8	6.875	10,148'	0'		Transferred In(+)/Out(-)		2083.0
Retort Solids Content				10%		12%							Oil Added (+)		38.1
Corrected Solids (vol%)				7.9%		10.1%							Barite Added (+)		0.0
Retort Oil Content				69%		67%	Open Hole Size		6.818	10,171'			Other Product Usage (+)		0.0
Retort Water Content				21%		21%	**ANNULAR GEOMETRY & RHEOLOGY**						Water Added (+)		
O/W Ratio				77:23		76:24	annular section	meas. depth	velocity ft/min	flow reg	ECD lb/gal		Left on Cuttings (-)		0.0
Whole Mud Chlorides (mg/L)				52,000		49,000							Evap & Centrifuge		-25.0
Water Phase Salinity (ppm)				279,688		267,875									
Whole Mud Alkalinity, Pom				1.8		2.2	6.875x4.5	7,234'	0.0	lam	9.04		Est. Total on Location		2562.0
Excess Lime (lb/bbl)				2.3 ppb		2.9 ppb	6.875x5.375	7,263'	0.0	lam	9.04		Est. Losses/Gains (-)/(+)		0.0
Electrical Stability (volts)				470 v		460 v	6.875x4.5	9,641'	0.0	lam	9.04		**BIT HYDRAULICS DATA**		
Average Specific Gravity of Solids				2.71		3.01	6.875x5.25	9,971'	0.0	lam	9.04		Bit H.S.I.	Bit ΔP	Nozzles (32nds)
Percent Low Gravity Solids				6.3%		6.3%							0.00	psi	18 18 18
ppb Low Gravity Solids				52 ppb		52 ppb							Bit Impact Force	Nozzle Velocity (ft/sec)	18 18 18
Percent Barite				1.6%		3.8%									
ppb Barite				23 ppb		54 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				A. ROMAN	0	0	6 3/4	10,171 ft					2,240 psi		

Remarks/Recommendations:

OBM RECEIVED: 2083 bbls / OBM RETURNED: 0

OBM LOSSES: (- bbls DAY) / (-377bbls Cumulative)

OBM on surface: 1268bbls (Storage) / 887bbls (Active pits)

Rig Activity:

Over the past 24 hours: Skid from the C-3H. Nipple up BOP's and test same with all surface control equipment. Transfer all sack material and OBM from the C 3-H and update OBM inventory with the 466bbls of 9.0ppg OBM in the casing. Perform Rig Service and repairs to Top Drive prior to pick up new BHA for upcoming Curve and Lateral drilling. Circulate Active system within and pre-condition with Lime and CaCl2 for drilling out. Apply centrifuge and diesel additions to reduce density from 9.4ppg down to 9ppg. As requested by Operations. Pick up BHA and TIH, to the top of the float collar. At the time of the report: Installing Rotating head prior to start drilling, currently bit at 9971'.

Eng. 1:	Mike Washburn	Eng. 2:	Adolfo Roman	WH 1:	MIDLAND	WH 2:	WH #2	Rig Phone:
Phone:	361-945-5777	Phone:	956-821-9994	Phone:	432-686-7361	Phone:	-	

W	P	Y	E	C	g	G	H	O
1	1	1	1	1	1	1	1	1

	Daily Total	Cumulative Cost
	$1,910.00	**$56,360.96**
INCLUDING 3RD PARTY CHARGES	**$5,590.00**	**$98,949.36**

OUTSOURCE FLUID SOLUTIONS LLC.

MATERIAL CONSUMPTION

Date	Operator	Well Name and No.	Rig Name and No.	Report No.
03/13/21	MAGNOLIA OIL & GAS	SABINE D 4-H	248	Report #8

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		10	10			30	$1,336.80
PHPA LIQUID (pail)	5 gal	$41.36		60	60			2	$82.72
EVO-LUBE	gal	$14.00							
NEW GEL (PREMIUM)	100# sk	$19.75		70	70				
ALUMINUM TRISTEARATE	25# sk	$162.83		19	19				
DYNA DET	5 gal	$32.23		34	34				
CACL2 (50)	50# sk	$14.32		252	252			56	$801.92
LIME (50)	50# sk	$5.00		325	325			80	$400.00
OPTI - G	50# sk	$30.59		160	160			65	$1,988.35
BENTONE 38 (50)	50# sk	$163.94		50	50			8	$1,311.52
BENTONE 910 (50)	50# sk	$59.40		50	50				
BENTONE 990 (50)	50# sk	$83.59		32	32				
OPTI - MUL	gal	$10.75		330	330			55	$591.25
OPTI - WET	gal	$8.34		495	495			165	$1,376.10
NEW PHALT	50# sk	$38.72		170	170			70	$2,710.40
OIL SORB (25)	25# sk	$4.75							
NEW CARB ULTIMIX	50# sk	$6.35		120	120			26	$165.10
NEW CARB (M)	50# sk	$5.25							
CYBERSEAL									
MAGMAFIBER F (25)	25# sk	$28.05		138	138			40	$1,122.00
MAGMAFIBER R (30)	30# sk	$28.05							
VARISEAL	50# sk	$26.50		20	20			4	$106.00
FIBER PLUG	30# sk	$30.37							
NUT PLUG M (50)	50# sk	$12.04		40	40			20	$240.80
NEW WATE (SACK BARITE)	100# sk	$11.50		180	180				
BARITE BULK (100)	100# sk	$7.00		1000	1000			486	$3,402.00
OPTI DRILL (OBM)	bbl	$65.00	466	1650	2116			377	$24,505.00
DISCOUNTED OBM	bbl	$10.00		79	79				
MAGNOLIA OBM (LGS)	bbl			354	354				
ENGINEERING (24 HR)	each	$925.00				2	$1,850.00	14	$12,950.00
ENGINEERING (DIEM)	bbl	$30.00				2	$60.00	14	$420.00
ENGINEERING (MILES)	each	$1.00						1889	$1,889.00
TRUCKING (cwt)	each	$2.65							
TRUCKING (min)	each	$650.00						1	$650.00
PALLETS (ea)	each	$12.00						13	$156.00
SHRINK WRAP (ea)	each	$12.00						13	$156.00
		Daily Sub-Total $1,910.00			**Cumulative Total $56,360.96**			**$56,360.96**	

THIRD PARTY COST SHEET

Date	Operator	Well Name and No.	Rig Name and No.	Report No.
03/13/21	**MAGNOLIA OIL & GAS**	**SABINE D 4-H**	**248**	**Report #8**

DAILY USAGE & COST								CUMULATIVE	
Item	Unit	Unit Cost	Previous Inventory	Received	Closing Inventory	Daily Usage	Daily Cost	Cum Usage	Cum Cost
TURBO CHEM / FIRST RESPONSE	25# sk	$41.75		100	100				
TURBO CHEM / SYNSEAL	25# sk	$85.00		100	100				
DIESEL DELIVERY 1-14-21	gal	$1.74						7000	$12,180.00
DIESEL DELIVERY 1-15-21	gal	$1.79						7000	$12,530.00
DIESEL DELIVERY 1-19-21	gal	$1.74						8160	$14,198.40
DIESEL TRANSFER F/C 3H	gal	$2.30		6502	4902	1600	$3,680.00	1600	$3,680.00
DIESEL TRANSFER F/C 3H	gal	$2.29		7200	7200				
DIESEL TRANSFER F/C 3H	gal	$2.37		1800	1800				
						Daily Sub-Total	**$3,680.00**		**$42,588.40**

Cumulative Total AES & 3rd Party $98,949.36

OUTSOURCE FLUID SOLUTIONS LLC.

FLUID VOLUME ACCOUNTING

Operator:	MAGNOLIA OIL & GAS
Rig Name:	248
Well Name:	SABINE D 4-H

		WEEK 1							WEEK 2							WEEK 3						
	Date	3/8/21	3/9/21	3/10/21	3/11/21	3/12/21	3/13/21	3/14/21	3/15/21	3/16/21	3/17/21	3/18/21	3/19/21	3/20/21	3/21/21	3/22/21	3/23/21	3/24/21	3/25/21	3/26/21	3/27/21	3/28/21
		Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun
	Bit Size	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	6 3/4															
Grand Totals	Starting Depth	2,916	2,916	7,250	9,924	10,171	10,171	10,171														
	Ending Depth	2,916	7,250	9,924	10,171	10,171	10,171															
7,255	Footage Drilled	-	4,334	2,674	247	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
687	New Hole Vol.	-	411	253	23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Starting System Volume	2,480	2,963	3,348	3,703	3,610	466	2,562	2,562	2,562	2,562	2,562	2,562	2,562	2,562	2,562	2,562	2,562	2,562	2,562	2,562	2,562
38	Chemical Additions	6	17	8	2	6	-															
562	Base Fluid Added	-	241	176	107		38															
34	Barite Increase	-	-	34			-															
3,517	Weighted Mud Added	477	481	476			2,083															
-	Slurry Added	-	-	-			-															
220	Water Added	-	150	50		20	-															
-	Added for Washout	-	-	-			-															
4,371	Total Additions	483	890	743	109	26	2,121	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
204	Surface Losses	-	99	75	14	16	-															
174	Formation Loss	-	-	-	123	51	-															
693	Mud Loss to Cuttings	-	406	264	24		-															
62	Unrecoverable Volume	-	-	-	40	22	-															
75	Centrifuge Losses	-	-	50			25															
1,207	Total Losses	-	505	388	201	89	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3,082	Mud Transferred Out					3,082																
2,562	Ending System Volume	2,963	3,348	3,703	3,610	466	2,562	2,562	2,562	2,562	2,562	2,562	2,562	2,562	2,562	2,562	2,562	2,562	2,562	2,562	2,562	2,562
-	Mud Recovered																					

	Comments:		Comments:		Comments:	
	3/8/21	Nipple up and test BOP, Fill up pits with OBM Pre Treat with CaCl2 and Lime. Opti Wet and Opti Mul. Screen up with 140's & 80's. NOV screens.	3/15/21		3/22/21	
2,915	3/9/21	Drilling Intermeditate section. Massive GPM = losses at the shakers. Aggressive additions of Diesel-Water and chemicals.	3/16/21		3/23/21	
	3/10/21	Drilling ahead on Intermedite section. At 9924' MWD fail to Sync. POOH to change out same.	3/17/21		3/24/21	
	3/11/21	Drilled to interval TD at 10,171'MD, (KOP at 9,924'MD 9,734'TVD	3/18/21		3/25/21	
	3/12/21	Cement the intermediate string with good returns. Skid Vol. 3077bbls/ 466bbls 9.0ppg left in casing.	3/19/21		3/26/21	
	3/13/21	Modify date on Volume accounting sheet. 2083bbls Transfer from C 3-H. Cut MW down to 9ppg w/Centrifuge & Diesel. Pick up BHA and TIH.	3/20/21		3/27/21	
	3/14/21		3/21/21		3/28/21	

3/13/2021 **Report 8 pm**

110 Old Market St.
St Martinville, LA 70582

TEL: (337) 394-1078

39.5° **10,300' TVD**

Operator	Contractor	County / Parish / Block	Engineer Start Date	24 hr ftg.	Drilled Depth
MAGNOLIA OIL & GAS	**PATTERSON**	**WASHINGTON**	**01/16/21**		**10,540 ft**
Well Name and No.	Rig Name and No.	State	Spud Date	Current ROP	Activity
SABINE D 4-H	**248**	**TEXAS**	**01/16/21**	**52 ft/hr**	**DRLG CURVE**
Report for	Report for	Field / OSC-G #	Fluid Type	Circulating Rate	Circulating Pressure
JIM HARRISON/JAMES DYER	**Tool Pusher**	**GIDDIGNS**	**OBM**	**388 gpm**	**3,600 psi**

MUD PROPERTY SPECIFICATIONS

Weight	PV	YP	E.S.	CaCl2	GELS	HTHP
8.8-9.8	**5-20**	**4-15**	**>450**	**±275K**	**<10 <15**	**<10**

MUD PROPERTIES

Time Sample Taken	3:00		14:00
Sample Location	suction		shaker
Flowline Temperature °F			126 °F
Depth (ft)	10,171'		10,540'
Mud Weight (ppg)	9.0		8.9
Funnel Vis (sec/qt) @ 116 °F	44		42
600 rpm	28		31
300 rpm	18		20
200 rpm	14		17
100 rpm	11		12
6 rpm	6		5
3 rpm	4		4
Plastic Viscosity (cp) @ 150 °F	10		11
Yield Point (lb/100 ft²) T0 = 2	8		9
Gel Strength (lb/100 ft²) 10 sec / 10 min	6/10		5/8
Gel Strength (lb/100 ft2) 30 min	12		11
HTHP Filtrate (cm/30 min) @ 250 °F	7.0		7.6
HTHP Cake Thickness (32nds)	2.0		2.0
Retort Solids Content	10%		10%
Corrected Solids (vol%)	7.9%		7.7%
Retort Oil Content	69%		67%
Retort Water Content	21%		23%
O/W Ratio	77:23		74:26
Whole Mud Chlorides (mg/L)	52,000		57,000
Water Phase Salinity (ppm)	279,688		279,856
Whole Mud Alkalinity, Pom	1.8		1.7
Excess Lime (lb/bbl)	2.3 ppb		2.2 ppb
Electrical Stability (volts)	470 v		480 v
Average Specific Gravity of Solids	2.71		2.41
Percent Low Gravity Solids	6.3%		7.5%
ppb Low Gravity Solids	52 ppb		61 ppb
Percent Barite	1.6%		0.3%
ppb Barite	23 ppb		4 ppb
Estimated Total LCM in System			
Sample Taken By	A. ROMAN		

MUD VOLUME (BBL)

In Pits	887 bbl
In Hole	421 bbl
Active	1308 bbl
Storage	1268 bbl
Tot. on Location	2576 bbl

PUMP #1

Liner Size	4.75
Stroke	12
bbl/stk	0.0625
stk/min	72
gal/min	189

PUMP #2

Liner Size	4.75
Stroke	12
bbl/stk	0.0625
stk/min	76
gal/min	199

RISER BOOSTER

Liner Size	4.75
Stroke	12
bbl/stk	0.0625
stk/min	
gal/min	

Mud Wt. = 9.0 PV=10 YP=8 **CIRCULATION DATA** n = 0.637 K = 172.4

Bit Depth = 10,540 ' | Washout = 1% | Pump Efficiency = 95%

Drill String Disp.							
62.9 bbl	Volume to Bit	147.0 bbl	Strokes To Bit	2,354	Time To Bit	16 min
	Bottoms Up Vol.	273.7 bbl	BottomsUp Stks	4,382	BottomsUp Time	30 min
	TotalCirc.Vol.	1307.6 bbl	TotalCirc.Stks	20,932	Total Circ. Time	141 min

DRILLING ASSEMBLY DATA

Tubulars	OD (in.)	ID (in.)	Length	Top
Drill Pipe	4.500	3.826	7,803'	
Agitator	5.375	3.000	29'	7,803'
Drill Pipe	4.500	3.826	2,378'	7,832'
Dir. BHA	5.250	2.500	330'	10,210'

CASING & HOLE DATA

Casing	OD (in.)	ID (in.)	Depth	Top
Riser				
Surface	10 3/4		2,906'	
Int. Csg.	7 5/8	6.875	10,148'	
Open Hole Size	6.818		10,540'	

ANNULAR GEOMETRY & RHEOLOGY

annular section	depth	velocity ft/min	flow reg	ECD lb/gal
6.875x4.5	7,803'	352.3	turb	9.90
6.875x5.375	7,832'	517.9	turb	9.95
6.875x4.5	10,148'	352.3	turb	9.97
6.818x4.5	10,210'	362.8	turb	10.01
6.818x5.25	10,540'	502.9	turb	10.11

BIT DATA Manuf./Type GTD64M

Size	Depth In	Hours	Footage	ROP ft/hr
6 3/4	10,171 ft			

SOLIDS CONTROL

Unit	Screens	Hours
Shaker 1	200	
Shaker 2	200	
Shaker 3	200	
Centrifuge 1	NOV	

VOLUME ACCOUNTING (bbls)

Prev. Total on Location	2562.0
Transferred In(+)/Out(-)	
Oil Added (+)	
Barite Added (+)	
Other Product Usage (+)	
Water Added (+)	
Left on Cuttings (-)	
Evap & Centrifuge	
Est. Total on Location	2562.0
Est. Losses/Gains (-)/(+)	13.6

BIT HYDRAULICS DATA

Bit H.S.I.	Bit ΔP	Nozzles (32nds)		
0.36	56 psi	18	18	18
Bit Impact Force	Nozzle Velocity (ft/sec)	18	18	18
152 lbs	84			

Motor/MWD	Calc. Circ. Pressure
2,240 psi	3,673 psi

Afternoon Remarks/Recommendations:

Pump 10 bbl sweep every 300 ft. Sweep Contains: 10 ppb

CalCarb Medium, 10 ppb Newphalt and 10 ppb Magnafiber fine

Afternoon Rig Activity:

Trip in hole with BHA #3, tag float collar @ 10557, drill cement, shoe, and 10' of new formation to 10181, perform F.I.T. to 2070 PSI, 13.0 EMW. Sliding and rotating 6-3/4" hole section, orienting curve last survey at 10474 MD 36.7 DEG INCL, 10251 TVD. Maintain mud wt at 8.9#, mix LCM sweep in preparation for lateral protocol. Adding Bentone clays to increase YP and low end rheologies, OptiG to reduce HTHP, Lime for alkalinities and CaCl for WPS. Receiving 9.0 OBM from Newpark Madisonville and Cotulla WH.

03/14/21 **Report #9**

110 Old Market St.
St Martinville, LA 70582
TEL: (337) 394-1078

OUTSOURCE FLUID SOLUTIONS LLC.

13.5° **5,598' TVD**

Operator	Contractor	County / Parish / Block	Engineer Start Date	24 hr ftg.	Drilled Depth
MAGNOLIA OIL & GAS	**PATTERSON**	**WASHINGTON**	**01/16/21**	**749 ft**	**10,920 ft**
Well Name and No.	Rig Name and No.	State	Spud Date	Current ROP	Activity
SABINE D 4-H	**248**	**TEXAS**	**01/16/21**	**58 ft/hr**	**POOH/TIH**
Report for	Report for	Field / OCS-G #	Fluid Type	Circulating Rate	Circulating Pressure
JIM HARRISON/JAMES DYER	**Tool Pusher**	**GIDDIGNS**	**OBM**	**388 gpm**	**3,863 psi**

MUD PROPERTY SPECIFICATIONS						
Weight	PV	YP	E.S.	CaCl2	GELS	HTHP
8.8-9.8	**5-20**	**4-15**	**>450**	**±275K**	**<10 <15**	**<10**
				3/14/21		3/13/21
Time Sample Taken				3:00		14:00
Sample Location				suction		shaker
Flowline Temperature °F						126 °F
Depth (ft)				10,920'		10,540'
Mud Weight (ppg)				8.9		8.9
Funnel Vis (sec/qt)			@ 100 °F	43		42
600 rpm				30		31
300 rpm				20		20
200 rpm				14		17
100 rpm				11		12
6 rpm				5		5
3 rpm				4		4
Plastic Viscosity (cp)			@ 150 °F	10		11
Yield Point (lb/100 ft²)			T0 = 3	10		9
Gel Strength (lb/100 ft²)			10 sec/10 min	5/9		5/8
Gel Strength (lb/100 ft^2)			30 min	12		11
HTHP Filtrate (cm/30 min)			@ 250 °F	7.0		7.6
HTHP Cake Thickness (32nds)				2.0		2.0
Retort Solids Content				9%		10%
Corrected Solids (vol%)				6.8%		7.7%
Retort Oil Content				69%		67%
Retort Water Content				22%		23%
O/W Ratio				76:24		74:26
Whole Mud Chlorides (mg/L)				55,000		57,000
Water Phase Salinity (ppm)				281,620		279,856
Whole Mud Alkalinity, Pom				2.2		1.7
Excess Lime (lb/bbl)				2.9 ppb		2.2 ppb
Electrical Stability (volts)				501 v		480 v
Average Specific Gravity of Solids				2.69		2.41
Percent Low Gravity Solids				5.4%		7.5%
ppb Low Gravity Solids				45 ppb		61 ppb
Percent Barite				1.3%		0.3%
ppb Barite				19 ppb		4 ppb
Estimated Total LCM in System			ppb			
Sample Taken By				A. ROMAN	0	0

MUD VOLUME (BBL)		PUMP #1		PUMP #2		RISER BOOSTER	
In Pits	789 bbl	Liner Size	4.75	Liner Size	4.75	Liner Size	4.75
In Hole	464 bbl	Stroke	12	Stroke	12	Stroke	12
Active	1015 bbl	bbl/stk	0.0625	bbl/stk	0.0625	bbl/stk	0.0625
Storage	1965 bbl	stk/min	72	stk/min	76	stk/min	0
Tot. on Location	3218 bbl	gal/min	189	gal/min	199	gal/min	0

CIRCULATION DATA — PHHP = 875 — n = 0.585 K = 265.629

Bit Depth = 5,710 ' — Washout = 1% — Pump Efficiency = 95%

Drill String Disp.					
36.6 bbl	Volume to Bit	78.3 bbl	Strokes To Bit	1,254	Time To Bit 8 min
	Bottoms Up Vol.	147.3 bbl	BottomsUp Stks	2,358	BottomsUp Time 16 min
	TotalCirc.Vol.	1014.6 bbl	TotalCirc.Stks	16,243	Total Circ. Time 110 min

DRILLING ASSEMBLY DATA

Tubulars	OD (in.)	ID (in.)	Length	Top
Drill Pipe	4.500	3.826	2,973'	0'
Agitator	5.375	3.000	29'	2,973'
Drill Pipe	4.500	3.826	2,378'	3,002'
Dir. BHA	5.250	2.500	330'	5,380'

CASING & HOLE DATA

Casing	OD (in.)	ID (in.)	Depth	Top
Riser				
Surface	10 3/4		2,906'	0'
Int. Csg.	7 5/8	6.875	10,148'	0'
Open Hole Size		6.818	10,920'	

ANNULAR GEOMETRY & RHEOLOGY

annular section	meas. depth	velocity ft/min	flow reg	ECD lb/gal
6.875x4.5	2,973'	352.3	turb	9.74
6.875x5.375	3,002'	517.9	turb	9.81
6.875x4.5	5,380'	352.3	turb	9.82
6.875x5.25	5,710'	483.0	turb	9.94

BIT DATA — Manuf./Type GTD64M

Size	Depth In	Hours	Footage	ROP ft/hr	Motor/MWD	Calc. Circ. Pressure
6 3/4	10,171 ft	13.0	749 ft	57.6	2,240 psi	3,114 psi

SOLIDS CONTROL

Unit	Screens	Hours
Shaker 1	200	20.0
Shaker 2	200	20.0
Shaker 3	200	20.0
Centrifuge 1	NOV	2.0

VOLUME ACCOUNTING (bbls)

Prev. Total on Location	2562.0
Transferred In(+)/Out(-)	657.0
Oil Added (+)	26.2
Barite Added (+)	10.4
Other Product Usage (+)	13.1
Water Added (+)	
Left on Cuttings (-)	-25.4
Evap & Centrifuge	-25.2
Est. Total on Location	3218.2
Est. Losses/Gains (-)/(+)	0.0

BIT HYDRAULICS DATA

Bit H.S.I.	Bit ΔP	Nozzles (32nds)		
0.35	56 psi	18	18	18
Bit Impact Force: 150 lbs	Nozzle Velocity (ft/sec): 84	18	18	18

Remarks/Recommendations:

OBM RECEIVED: 2083 bbls / OBM RETURNED: 0

OBM LOSSES: (- bbls DAY) / (-377bbls Cumulative)

OBM on surface: 1965bbls (Storage) / 789bbls (Active pits)

Rig Activity:

Over the past 24 hours: TIH and drill out Shoe track. perform FIT to 13EMW (2070psi). Resume Drilling 6.75" hole on curve section. MW balance out at 8.9ppg, maintain diesel additions for dilution, add necessary chemicals to maintain properties. As Drilling continues, MWD fail at 10920', attempts to reset same with unsuccesful results. Pump Slug and POOH to replace MWD. At 5710', Top drive start leaking oil. Trip stop and perfrom repairs on Top Drive. At the time of the report: Waiting on Mechanic to arrive on location for repairs. Bit at 5710'.

Eng. 1:	Mike Washburn	Eng. 2:	Adolfo Roman	WH 1:	MIDLAND	WH 2:	WH #2	Rig Phone:
Phone:	361-945-5777	Phone:	956-821-9994	Phone:	432-686-7361	Phone:	-	

W	P	Y	E	C	g	G	H	O
1	1	1	1	1	1	1	1	1

	Daily Total	Cumulative Cost
	$7,019.44	**$63,380.40**
INCLUDING 3RD PARTY CHARGES	**$9,554.04**	**$108,503.40**

OUTSOURCE FLUID SOLUTIONS LLC.

MATERIAL CONSUMPTION

Date	Operator	Well Name and No.	Rig Name and No.	Report No.
03/14/21	MAGNOLIA OIL & GAS	SABINE D 4-H	248	Report #9

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	10		10			30	$1,336.80
PHPA LIQUID (pail)	5 gal	$41.36	60		60			2	$82.72
EVO-LUBE	gal	$14.00							
NEW GEL (PREMIUM)	100# sk	$19.75	70		70				
ALUMINUM TRISTEARATE	25# sk	$162.83	19		19				
DYNA DET	5 gal	$32.23	34		34				
CACL2 (50)	50# sk	$14.32	252		196	56	$801.92	112	$1,603.84
LIME (50)	50# sk	$5.00	325		295	30	$150.00	110	$550.00
OPTI - G	50# sk	$30.59	160		140	20	$611.80	85	$2,600.15
BENTONE 38 (50)	50# sk	$163.94	50		46	4	$655.76	12	$1,967.28
BENTONE 910 (50)	50# sk	$59.40	50		50				
BENTONE 990 (50)	50# sk	$83.59	32		28	4	$334.36	4	$334.36
OPTI - MUL	gal	$10.75	330		330			55	$591.25
OPTI - WET	gal	$8.34	495		495			165	$1,376.10
NEW PHALT	50# sk	$38.72	170		140	30	$1,161.60	100	$3,872.00
OIL SORB (25)	25# sk	$4.75							
NEW CARB ULTIMIX	50# sk	$6.35	120		110	10	$63.50	36	$228.60
NEW CARB (M)	50# sk	$5.25							
CYBERSEAL									
MAGMAFIBER F (25)	25# sk	$28.05	138		128	10	$280.50	50	$1,402.50
MAGMAFIBER R (30)	30# sk	$28.05							
VARISEAL	50# sk	$26.50	20		20			4	$106.00
FIBER PLUG	30# sk	$30.37							
NUT PLUG M (50)	50# sk	$12.04	40		40			20	$240.80
NEW WATE (SACK BARITE)	100# sk	$11.50	180		180				
BARITE BULK (100)	100# sk	$7.00	1000		850	150	$1,050.00	636	$4,452.00
OPTI DRILL (OBM)	bbl	$65.00	2116	657	2773			377	$24,505.00
DISCOUNTED OBM	bbl	$10.00	79		79				
MAGNOLIA OBM (LGS)	bbl		354		354				
MAGNOLIA OBM EXCESS	bbl			12	12				
ENGINEERING (24 HR)	each	$925.00				2	$1,850.00	16	$14,800.00
ENGINEERING (DIEM)	bbl	$30.00				2	$60.00	16	$480.00
ENGINEERING (MILES)	each	$1.00						1889	$1,889.00
TRUCKING (cwt)	each	$2.65							
TRUCKING (min)	each	$650.00						1	$650.00
PALLETS (ea)	each	$12.00						13	$156.00
SHRINK WRAP (ea)	each	$12.00						13	$156.00
		Daily Sub-Total $7,019.44			**Cumulative Total $63,380.40**			**$63,380.40**	

THIRD PARTY COST SHEET

Date	Operator	Well Name and No.	Rig Name and No.	Report No.
03/14/21	MAGNOLIA OIL & GAS	SABINE D 4-H	248	Report #9

DAILY USAGE & COST								CUMULATIVE	
Item	Unit	Unit Cost	Previous Inventory	Received	Closing Inventory	Daily Usage	Daily Cost	Cum Usage	Cum Cost
TURBO CHEM / FIRST RESPONSE	25# sk	$41.75	100		100				
TURBO CHEM / SYNSEAL	25# sk	$85.00	100		100				
DIESEL DELIVERY 1-14-21	gal	$1.74						7000	$12,180.00
DIESEL DELIVERY 1-15-21	gal	$1.79						7000	$12,530.00
DIESEL DELIVERY 1-19-21	gal	$1.74						8160	$14,198.40
DIESEL TRANSFER F/C 3H	gal	$2.30	4902		3800	1102	$2,534.60	2702	$6,214.60
DIESEL TRANSFER F/C 3H	gal	$2.29	7200		7200				
DIESEL TRANSFER F/C 3H	gal	$2.37	1800		1800				
						Daily Sub-Total	$2,534.60		$45,123.00

Cumulative Total AES & 3rd Party $108,503.40

OUTSOURCE FLUID SOLUTIONS LLC.

FLUID VOLUME ACCOUNTING

Operator:	MAGNOLIA OIL & GAS
Rig Name:	248
Well Name:	SABINE D 4-H

		WEEK 1							WEEK 2							WEEK 3						
	Date	3/8/21	3/9/21	3/10/21	3/11/21	3/12/21	3/13/21	3/14/21	3/15/21	3/16/21	3/17/21	3/18/21	3/19/21	3/20/21	3/21/21	3/22/21	3/23/21	3/24/21	3/25/21	3/26/21	3/27/21	3/28/21
		Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun
	Bit Size	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	6 3/4	6 3/4														
Grand Totals	Starting Depth	2,916	2,916	7,250	9,924	10,171	10,171	10,171	10,920													
	Ending Depth	2,916	7,250	9,924	10,171	10,171	10,171	10,920														
8,004	Footage Drilled	-	4,334	2,674	247	-	-	749	-	-	-	-	-	-	-	-	-	-	-	-	-	-
720	New Hole Vol.	-	411	253	23	-	-	33	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Starting System Volume	2,480	2,963	3,348	3,703	3,610	466	2,562	3,218	3,218	3,218	3,218	3,218	3,218	3,218	3,218	3,218	3,218	3,218	3,218	3,218	3,218
51	Chemical Additions	6	17	8	2	6	-	13														
588	Base Fluid Added	-	241	176	107		38	26														
44	Barite Increase	-	-	34			-	10														
4,174	Weighted Mud Added	477	481	476			2,083	657														
-	Slurry Added	-	-	-			-	-														
220	Water Added	-	150	50		20	-	-														
-	Added for Washout	-	-	-			-	-														
5,078	Total Additions	483	890	743	109	26	2,121	707	-	-	-	-	-	-	-	-	-	-	-	-	-	-
204	Surface Losses	-	99	75	14	16	-	-														
174	Formation Loss	-	-	-	123	51	-	-														
719	Mud Loss to Cuttings	-	406	264	24		-	25														
62	Unrecoverable Volume	-	-	-	40	22	-	-														
100	Centrifuge Losses	-	-	50			25	25														
1,258	Total Losses	-	505	388	201	89	25	51	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3,082	Mud Transferred Out					3,082																
3,218	Ending System Volume	2,963	3,348	3,703	3,610	466	2,562	3,218	3,218	3,218	3,218	3,218	3,218	3,218	3,218	3,218	3,218	3,218	3,218	3,218	3,218	3,218
-	Mud Recovered																					

3,572

Comments:		Comments:	Comments:
3/8/21	Nipple up and test BOP, Fill up pits with OBM Pre Treat with CaCl2 and Lime. Opti Wet and Opti Mul. Screen up with 140's & 80's. NOV screens.	3/15/21	3/22/21
3/9/21	Drilling Intermeditate section. Massive GPM = losses at the shakers. Aggressive additions of Diesel-Water and chemicals.	3/16/21	3/23/21
3/10/21	Drilling ahead on Intermedite section. At 9924' MWD fail to Sync. POOH to change out same.	3/17/21	3/24/21
3/11/21	Drilled to interval TD at 10,171'MD, (KOP at 9,924'MD 9,734'TVD	3/18/21	3/25/21
3/12/21	Cement the intermediate string with good returns. Skid Vol. 3077bbls/ 466bbls 9.0ppg left in casing.	3/19/21	3/26/21
3/13/21	Modify date on Volume accounting sheet. 2083bbls Transfer from C 3-H. Cut MW down to 9ppg w/Centrifuge & Diesel. Pick up BHA and TIH.	3/20/21	3/27/21
3/14/21	Drill out shoe track. FIT 13EMW. Drilled ahead on curve section to 10920'. MWD fail, POOH to replace. Top drive down for repairs at 5710'. Wait on Mechanic.	3/21/21	3/28/21

03/15/21 **Report #10**

110 Old Market St.
St Martinville, LA 70582
TEL: (337) 394-1078

OUTSOURCE FLUID SOLUTIONS LLC.

11.4° **10,007' TVD**

Operator	Contractor	County / Parish / Block	Engineer Start Date	24 hr ftg.	Drilled Depth
MAGNOLIA OIL & GAS	**PATTERSON**	**WASHINGTON**	**01/16/21**	**0 ft**	**10,920 ft**
Well Name and No.	Rig Name and No.	State	Spud Date	Current ROP	Activity
SABINE D 4-H	**248**	**TEXAS**	**01/16/21**	**0 ft/hr**	**TIH**
Report for	Report for	Field / OCS-G #	Fluid Type	Circulating Rate	Circulating Pressure
JIM HARRISON/JAMES DYER	**Tool Pusher**	**GIDDIGNS**	**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	801 bbl	Liner Size	4.75	Liner Size	4.75	Liner Size	4.75
8.8-9.8	**5-20**	**4-15**	**>450**	**±275K**	**<10 <15**	**<10**	In Hole	440 bbl	Stroke	12	Stroke	12	Stroke	12
				3/15/21		3/14/21	Active	1208 bbl	bbl/stk	0.0625	bbl/stk	0.0625	bbl/stk	0.0625
Time Sample Taken				3:00		14:00	Storage	1965 bbl	stk/min	0	stk/min	0	stk/min	0
Sample Location				suction		suction	Tot. on Location	3206 bbl	gal/min	0	gal/min	0	gal/min	0
Flowline Temperature °F							PHHP = 0		**CIRCULATION DATA**				n = 0.628	K = 223.367
Depth (ft)				10,920'		10,920'	Bit Depth = 10,200 '		Washout = 1%				Pump Efficiency = 95%	
Mud Weight (ppg)				9.1		8.9	Drill String Disp.	Volume to Bit 142.2 bbl	Strokes To Bit				Time To Bit	
Funnel Vis (sec/qt)		@ 80 °F		47		42		Bottoms Up Vol. 265.0 bbl	BottomsUp Stks				BottomsUp Time	
600 rpm				34		31	61.1 bbl	TotalCirc.Vol. 1208.2 bbl	TotalCirc.Stks				Total Circ. Time	
300 rpm				22		21	**DRILLING ASSEMBLY DATA**						**SOLIDS CONTROL**	
200 rpm				16		16	Tubulars	OD (in.)	ID (in.)	Length	Top		Unit	Screens	Hours
100 rpm				12		12	Drill Pipe	4.500	3.826	7,460'	0'		Shaker 1	200	12.0
6 rpm				6		5	Agitator	5.375	3.000	29'	7,460'		Shaker 2	200	12.0
3 rpm				4		4	Drill Pipe	4.500	3.826	2,378'	7,489'		Shaker 3	200	12.0
Plastic Viscosity (cp)		@ 150 °F		12		10	Dir. BHA	5.250	2.500	333'	9,867'				
Yield Point (lb/100 ft²)		T0 = 2		10		11	**CASING & HOLE DATA**								
Gel Strength (lb/100 ft²)		10 sec/10 min		6/11		5/9	Casing	OD (in.)	ID (in.)	Depth	Top		Centrifuge 1	NOV	
Gel Strength (lb/100 ft^2)		30 min		14		11	Riser						**VOLUME ACCOUNTING (bbls)**		
HTHP Filtrate (cm/30 min)		@ 250 °F		7.0		7.0	Surface	10 3/4		2,906'	0'		Prev. Total on Location		3218.2
HTHP Cake Thickness (32nds)				2.0		2.0	Int. Csg.	7 5/8	6.875	10,148'	0'		Transferred In(+)/Out(-)		
Retort Solids Content				11%		9%							Oil Added (+)		0.0
Corrected Solids (vol%)				8.8%		6.8%							Barite Added (+)		0.0
Retort Oil Content				67%		69%	Open Hole Size		6.818	10,920'			Other Product Usage (+)		0.0
Retort Water Content				22%		22%	**ANNULAR GEOMETRY & RHEOLOGY**						Water Added (+)		
O/W Ratio				75:25		76:24	annular section	meas. depth	velocity ft/min	flow reg	ECD lb/gal		Left on Cuttings (-)		0.0
Whole Mud Chlorides (mg/L)				54,000		54,500							Evap & Centrifuge		
Water Phase Salinity (ppm)				277,923		279,776							Non-Recoverable Vol. (-)		-12.5
Whole Mud Alkalinity, Pom				2.0		2.0	6.875x4.5	7,460'	0.0	lam	9.10		Est. Total on Location		3205.7
Excess Lime (lb/bbl)				2.6 ppb		2.6 ppb	6.875x5.375	7,489'	0.0	lam	9.10		Est. Losses/Gains (-)/(+)		0.0
Electrical Stability (volts)				485 v		495 v	6.875x4.5	9,867'	0.0	lam	9.10		**BIT HYDRAULICS DATA**		
Average Specific Gravity of Solids				2.55		2.68	6.875x5.25	10,148'	0.0	lam	9.10		Bit H.S.I.	Bit ΔP	Nozzles (32nds)
Percent Low Gravity Solids				7.8%		5.5%	6.818x5.25	10,200'	0.0	lam	9.10		0.00	psi	18 18 18
ppb Low Gravity Solids				64 ppb		45 ppb							Bit Impact Force	Nozzle Velocity (ft/sec)	18 18 18
Percent Barite				1%		1.3%									
ppb Barite				14 ppb		19 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				A. ROMAN	0	M Washburn	6 3/4	10,920 ft	0.0	0 ft	#DIV/0!		2,240 psi		

Remarks/Recommendations:

OBM RECEIVED: 2083 bbls / OBM RETURNED: 0

OBM LOSSES: (- bbls DAY) / (-377bbls Cumulative)

OBM on surface: 1965bbls (Storage) / 789bbls (Active pits)

Rig Activity:

Over the past 24 hours: Repairs to Top Drive rotating link adapter completed. Refill Hydraulic and Gear oil, dress up Top drive and all corresponding hydraulic lines. Function test and release from repairs. As well is been shut in for the repairs (18hrs), Casing pressure 0psi, open well up and monitor for flow. Well in static conditions, resume POOH to change out MWD, Mud Motor and Bit. TIH with new BHA to resume Drilling operations. As previously pumped slug has been displaced from wellbore, reflected an increase in the MW and such solids incresed. Will treat and dilute accordingly as circulation is resotre. At the time of the report: Continue TIH, Bit passing 10322'.

Eng. 1:	Mike Washburn	Eng. 2:	Adolfo Roman	WH 1:	MIDLAND	WH 2:	WH #2	Rig Phone:	Daily Total	Cumulative Cost
Phone:	361-945-5777	Phone:	956-821-9994	Phone:	432-686-7361	Phone:	-			
W P Y E C g G H O 1 1 1 1 1 1 1 1 1									**$1,910.00**	**$65,290.40**

INCLUDING 3RD PARTY CHARGES	**$1,910.00**	**$110,413.40**

OUTSOURCE FLUID SOLUTIONS LLC.

MATERIAL CONSUMPTION

Date	Operator	Well Name and No.	Rig Name and No.	Report No.
03/15/21	MAGNOLIA OIL & GAS	SABINE D 4-H	248	Report #10

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	10		10			30	$1,336.80
PHPA LIQUID (pail)	5 gal	$41.36	60		60			2	$82.72
EVO-LUBE	gal	$14.00							
NEW GEL (PREMIUM)	100# sk	$19.75	70		70				
ALUMINUM TRISTEARATE	25# sk	$162.83	19		19				
DYNA DET	5 gal	$32.23	34		34				
CACL2 (50)	50# sk	$14.32	196		196			112	$1,603.84
LIME (50)	50# sk	$5.00	295		295			110	$550.00
OPTI - G	50# sk	$30.59	140		140			85	$2,600.15
BENTONE 38 (50)	50# sk	$163.94	46		46			12	$1,967.28
BENTONE 910 (50)	50# sk	$59.40	50		50				
BENTONE 990 (50)	50# sk	$83.59	28		28			4	$334.36
OPTI - MUL	gal	$10.75	330		330			55	$591.25
OPTI - WET	gal	$8.34	495		495			165	$1,376.10
NEW PHALT	50# sk	$38.72	140		140			100	$3,872.00
OIL SORB (25)	25# sk	$4.75							
NEW CARB ULTIMIX	50# sk	$6.35	110		110			36	$228.60
NEW CARB (M)	50# sk	$5.25							
CYBERSEAL									
MAGMAFIBER F (25)	25# sk	$28.05	128		128			50	$1,402.50
MAGMAFIBER R (30)	30# sk	$28.05							
VARISEAL	50# sk	$26.50	20		20			4	$106.00
FIBER PLUG	30# sk	$30.37							
NUT PLUG M (50)	50# sk	$12.04	40		40			20	$240.80
NEW WATE (SACK BARITE)	100# sk	$11.50	180		180				
BARITE BULK (100)	100# sk	$7.00	850		850			636	$4,452.00
OPTI DRILL (OBM)	bbl	$65.00	2773		2773			377	$24,505.00
DISCOUNTED OBM	bbl	$10.00	79		79				
MAGNOLIA OBM (LGS)	bbl		354		354				
MAGNOLIA OBM EXCESS	bbl		12			12		12	
ENGINEERING (24 HR)	each	$925.00				2	$1,850.00	18	$16,650.00
ENGINEERING (DIEM)	bbl	$30.00				2	$60.00	18	$540.00
ENGINEERING (MILES)	each	$1.00						1889	$1,889.00
TRUCKING (cwt)	each	$2.65							
TRUCKING (min)	each	$650.00						1	$650.00
PALLETS (ea)	each	$12.00						13	$156.00
SHRINK WRAP (ea)	each	$12.00						13	$156.00
		Daily Sub-Total $1,910.00			**Cumulative Total $65,290.40**			**$65,290.40**	

THIRD PARTY COST SHEET

Date	Operator	Well Name and No.	Rig Name and No.	Report No.
03/15/21	**MAGNOLIA OIL & GAS**	**SABINE D 4-H**	**248**	**Report #10**

DAILY USAGE & COST								**CUMULATIVE**	
Item	Unit	Unit Cost	Previous Inventory	Received	Closing Inventory	Daily Usage	Daily Cost	Cum Usage	Cum Cost
TURBO CHEM / FIRST RESPONSE	25# sk	$41.75	100		100				
TURBO CHEM / SYNSEAL	25# sk	$85.00	100		100				
DIESEL DELIVERY 1-14-21	gal	$1.74						7000	$12,180.00
DIESEL DELIVERY 1-15-21	gal	$1.79						7000	$12,530.00
DIESEL DELIVERY 1-19-21	gal	$1.74						8160	$14,198.40
DIESEL TRANSFER F/C 3H	gal	$2.30	3800		3800			2702	$6,214.60
DIESEL TRANSFER F/C 3H	gal	$2.29	7200		7200				
DIESEL TRANSFER F/C 3H	gal	$2.37	1800		1800				
									$45,123.00

Cumulative Total AES & 3rd Party $110,413.40

OUTSOURCE FLUID SOLUTIONS LLC.

FLUID VOLUME ACCOUNTING

Operator:	MAGNOLIA OIL & GAS
Rig Name:	248
Well Name:	SABINE D 4-H

		WEEK 1							WEEK 2							WEEK 3						
	Date	3/8/21	3/9/21	3/10/21	3/11/21	3/12/21	3/13/21	3/14/21	3/15/21	3/16/21	3/17/21	3/18/21	3/19/21	3/20/21	3/21/21	3/22/21	3/23/21	3/24/21	3/25/21	3/26/21	3/27/21	3/28/21
		Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun
	Bit Size	9 7/8	9 7/8	9 7/8	9 7/8	9 7/8	6 3/4	6 3/4	6 3/4													
Grand Totals	Starting Depth	2,916	2,916	7,250	9,924	10,171	10,171	10,171	10,920	10,920												
	Ending Depth	2,916	7,250	9,924	10,171	10,171	10,171	10,920	10,920													
8,004	Footage Drilled	-	4,334	2,674	247	-	-	749	-	-	-	-	-	-	-	-	-	-	-	-	-	-
720	New Hole Vol.	-	411	253	23	-	-	33	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Starting System Volume	2,480	2,963	3,348	3,703	3,610	466	2,562	3,218	3,206	3,206	3,206	3,206	3,206	3,206	3,206	3,206	3,206	3,206	3,206	3,206	3,206
51	Chemical Additions	6	17	8	2	6	-	13	-													
588	Base Fluid Added	-	241	176	107		38	26	-													
44	Barite Increase	-	-	34			-	10	-													
4,174	Weighted Mud Added	477	481	476			2,083	657	-													
-	Slurry Added	-	-	-			-	-	-													
220	Water Added	-	150	50		20	-	-	-													
-	Added for Washout	-	-	-			-	-	-													
5,078	Total Additions	483	890	743	109	26	2,121	707	-	-	-	-	-	-	-	-	-	-	-	-	-	-
216	Surface Losses	-	99	75	14	16	-	-	12													
174	Formation Loss	-	-	-	123	51	-	-	-													
719	Mud Loss to Cuttings	-	406	264	24		-	25	-													
62	Unrecoverable Volume	-	-	-	40	22	-	-	-													
100	Centrifuge Losses	-	-	50			25	25	-													
1,270	Total Losses	-	505	388	201	89	25	51	12	-	-	-	-	-	-	-	-	-	-	-	-	-
3,082	Mud Transferred Out					3,082																
3,206	Ending System Volume	2,963	3,348	3,703	3,610	466	2,562	3,218	3,206	3,206	3,206	3,206	3,206	3,206	3,206	3,206	3,206	3,206	3,206	3,206	3,206	3,206
-	Mud Recovered																					

3,572

Comments:		Comments:		Comments:	
3/8/21	Nipple up and test BOP, Fill up pits with OBM Pre Treat with CaCl2 and Lime. Opti Wet and Opti Mul. Screen up with 140's & 80's. NOV screens.	3/15/21	Repairs completed. POOH and change out BHA. Start TIH,	3/22/21	
3/9/21	Drilling Intermeditate section. Massive GPM = losses at the shakers. Aggressive additions of Diesel-Water and chemicals.	3/16/21		3/23/21	
3/10/21	Drilling ahead on Intermedite section. At 9924' MWD fail to Sync. POOH to change out same.	3/17/21		3/24/21	
3/11/21	Drilled to interval TD at 10,171'MD, (KOP at 9,924'MD 9,734'TVD	3/18/21		3/25/21	
3/12/21	Cement the intermediate string with good returns. Skid Vol. 3077bbls/ 466bbls 9.0ppg left in casing.	3/19/21		3/26/21	
3/13/21	Modify date on Volume accounting sheet. 2083bbls Transfer from C 3-H. Cut MW down to 9ppg w/Centrifuge & Diesel. Pick up BHA and TIH.	3/20/21		3/27/21	
3/14/21	Drill out shoe track. FIT 13EMW. Drilled ahead on curve section to 10920'. MWD fail, POOH to replace. Top drive down for repairs at 5710'. Wait on Mechanic.	3/21/21		3/28/21	

3/15/2021 **Report 10 pm**

110 Old Market St.
St Martinville, LA 70582

TEL: (337) 394-1078

86.8° **10,630' TVD**

Operator	Contractor	County / Parish / Block	Engineer Start Date	24 hr ftg.	Drilled Depth
MAGNOLIA OIL & GAS	**PATTERSON**	**WASHINGTON**	**01/16/21**		**12,120 ft**
Well Name and No.	Rig Name and No.	State	Spud Date	Current ROP	Activity
SABINE D 4-H	**248**	**TEXAS**	**01/16/21**	**308 ft/hr**	**DRLG LATERAL**
Report for	Report for	Field / OSC-G #	Fluid Type	Circulating Rate	Circulating Pressure
JIM HARRISON/JAMES DYER	**Tool Pusher**	**GIDDIGNS**	**OBM**	**386 gpm**	**4,670 psi**

MUD PROPERTY SPECIFICATIONS

Weight	PV	YP	E.S.	CaCl2	GELS	HTHP
8.8-9.8	**5-20**	**4-15**	**>450**	**±275K**	**<10 <15**	**<10**

MUD PROPERTIES

Time Sample Taken	3:00		13:00
Sample Location	suction		suction
Flowline Temperature °F			136 °F
Depth (ft)	10,920'		12,110'
Mud Weight (ppg)	9.1		9.0
Funnel Vis (sec/qt) @ 122 °F	47		44
600 rpm	34		30
300 rpm	22		20
200 rpm	16		16
100 rpm	12		12
6 rpm	6		6
3 rpm	4		5
Plastic Viscosity (cp) @ 150 °F	12		10
Yield Point (lb/100 ft²) T0 = 2	10		10
Gel Strength (lb/100 ft²) 10 sec / 10 min	6/11		5/10
Gel Strength (lb/100 ft2) 30 min	14		12
HTHP Filtrate (cm/30 min) @ 250 °F	7.0		6.4
HTHP Cake Thickness (32nds)	2.0		2.0
Retort Solids Content	11%		11%
Corrected Solids (vol%)	8.8%		8.8%
Retort Oil Content	67%		67%
Retort Water Content	22%		22%
O/W Ratio	75:25		75:25
Whole Mud Chlorides (mg/L)	54,000		55,000
Water Phase Salinity (ppm)	277,923		281,620
Whole Mud Alkalinity, Pom	2.0		2.0
Excess Lime (lb/bbl)	2.6 ppb		2.6 ppb
Electrical Stability (volts)	485 v		445 v
Average Specific Gravity of Solids	2.55		2.40
Percent Low Gravity Solids	7.8%		8.6%
ppb Low Gravity Solids	64 ppb		70 ppb
Percent Barite	1%		0.2%
ppb Barite	14 ppb		4 ppb
Estimated Total LCM in System			
Sample Taken By	A. ROMAN		M Washburn

MUD VOLUME (BBL)

In Pits	801 bbl
In Hole	483 bbl
Active	1284 bbl
Storage	1965 bbl
Tot. on Location	3249 bbl

PUMP #1

Liner Size	4.75
Stroke	12
bbl/stk	0.0625
stk/min	75
gal/min	197

PUMP #2

Liner Size	4.75
Stroke	12
bbl/stk	0.0625
stk/min	72
gal/min	189

RISER BOOSTER

Liner Size	4.75
Stroke	12
bbl/stk	0.0625
stk/min	
gal/min	

Mud Wt. = 9.1 PV=12 YP=10 **CIRCULATION DATA** n = 0.628 K = 223.4

Bit Depth = 12,120 ' | Washout = 1% | Pump Efficiency = 95%

Drill String Disp.							
71.5 bbl	Volume to Bit	169.5 bbl	Strokes To Bit	2,713	Time To Bit	18 min
	Bottoms Up Vol.	314.0 bbl	BottomsUp Stks	5,026	BottomsUp Time	34 min
	TotalCirc.Vol.	1284.4 bbl	TotalCirc.Stks	20,562	Total Circ. Time	140 min

DRILLING ASSEMBLY DATA

Tubulars	OD (in.)	ID (in.)	Length	Top
Drill Pipe	4.500	3.826	9,380'	
Agitator	5.375	3.000	29'	9,380'
Drill Pipe	4.500	3.826	2,378'	9,409'
Dir. BHA	5.250	2.500	333'	11,787'

CASING & HOLE DATA

Casing	OD (in.)	ID (in.)	Depth	Top
Riser				
Surface	10 3/4		2,906'	
Int. Csg.	7 5/8	6.875	10,148'	
Open Hole Size	6.818		12,120'	

ANNULAR GEOMETRY & RHEOLOGY

annular section	depth	velocity ft/min	flow reg	ECD lb/gal
6.875x4.5	9,380'	349.9	turb	10.20
6.875x5.375	9,409'	514.4	turb	10.47
6.875x4.5	10,148'	349.9	turb	10.69
6.818x4.5	11,787'	360.3	turb	10.99
6.818x5.25	12,120'	499.5	turb	11.33

BIT DATA Manuf./Type GTD64M

Size	Depth In	Hours	Footage	ROP ft/hr
6 3/4	10,920 ft			#DIV/0!

SOLIDS CONTROL

Unit	Screens	Hours
Shaker 1	200	
Shaker 2	200	
Shaker 3	200	
Centrifuge 1	NOV	

VOLUME ACCOUNTING (bbls)

Prev. Total on Location	3205.7
Transferred In(+)/Out(-)	
Oil Added (+)	
Barite Added (+)	
Other Product Usage (+)	
Water Added (+)	
Left on Cuttings (-)	
Evap & Centrifuge	
Non-Recoverable Vol. (-)	
Est. Total on Location	3205.7
Est. Losses/Gains (-)/(+)	43.7

BIT HYDRAULICS DATA

Bit H.S.I.	Bit ΔP	Nozzles (32nds)		
0.35	56 psi	18	18	18

Bit Impact Force	Nozzle Velocity (ft/sec)			
151 lbs	83	18	18	18

Motor/MWD	Calc. Circ. Pressure
2,240 psi	3,920 psi

Afternoon Remarks/Recommendations:

Pump 10 bbl sweep every 300 ft. Sweep Contains: 10 ppb

CalCarb Medium, 10 ppb Newphalt and 10 ppb Magnafiber fine

Afternoon Rig Activity:

Drilling 6-3/4" lateral hole section, land curve at 11297 MD, 86 deg INCL, 10588 TVD, Maintain mud wt at 9.0, adding diesel and water for OWR maintenance, Lime and primary emulsifier for ES and alkalinities, CaCl for WPS, OptiG and Newphalt for HTHP reduction and wellbore stability. Pump 10 bbls LCM sweep every 300', samples at 12120' were 100% Austin Chalk.

03/16/21 **Report #11**

110 Old Market St.
St Martinville, LA 70582
TEL: (337) 394-1078

OUTSOURCE FLUID SOLUTIONS LLC.

96.1° **10,680' TVD**

Operator	Contractor	County / Parish / Block	Engineer Start Date	24 hr ftg.	Drilled Depth
MAGNOLIA OIL & GAS	**PATTERSON**	**WASHINGTON**	**01/16/21**	**2,472 ft**	**13,392 ft**
Well Name and No.	Rig Name and No.	State	Spud Date	Current ROP	Activity
SABINE D 4-H	**248**	**TEXAS**	**01/16/21**	**112 ft/hr**	**DRLG LATERAL**
Report for	Report for	Field / OCS-G #	Fluid Type	Circulating Rate	Circulating Pressure
JIM HARRISON/JAMES DYER	**Tool Pusher**	**GIDDIGNS**	**OBM**	**399 gpm**	**4,670 psi**

MUD PROPERTY SPECIFICATIONS							MUD VOLUME (BBL)		PUMP #1		PUMP #2		RISER BOOSTER	
Weight	PV	YP	E.S.	CaCl2	GELS	HTHP	In Pits	735 bbl	Liner Size	4.75	Liner Size	4.75	Liner Size	4.75
8.8-9.8	**5-20**	**4-15**	**>400**	**±280K**	**<10 <15**	**<10**	In Hole	534 bbl	Stroke	12	Stroke	12	Stroke	12
				3/16/21		3/15/21	Active	1269 bbl	bbl/stk	0.0625	bbl/stk	0.0625	bbl/stk	0.0625
Time Sample Taken				3:00		13:00	Storage	2312 bbl	stk/min	76	stk/min	76	stk/min	0
Sample Location				suction		suction	Tot. on Location	3581 bbl	gal/min	199	gal/min	199	gal/min	0
Flowline Temperature °F				145 °F		136 °F	PHHP = 1087		CIRCULATION DATA				n = 0.608	K = 242.063
Depth (ft)				13,332'		12,110'	Bit Depth = 13,392 '		Washout = 1%		Pump Efficiency = 95%			
Mud Weight (ppg)				9.1		9.0	Drill String Disp.	Volume to Bit 187.6 bbl	Strokes To Bit 3,003		Time To Bit 20 min			
Funnel Vis (sec/qt)		@ 122 °F		47		44		Bottoms Up Vol. 346.4 bbl	BottomsUp Stks 5,545		BottomsUp Time 36 min			
600 rpm				32		30	78.5 bbl	TotalCirc.Vol. 1269.0 bbl	TotalCirc.Stks 20,314		Total Circ. Time 134 min			
300 rpm				21		20	DRILLING ASSEMBLY DATA						SOLIDS CONTROL	
200 rpm				16		16	Tubulars	OD (in.)	ID (in.)	Length	Top		Unit	Screens	Hours
100 rpm				11		12	Drill Pipe	4.500	3.826	10,652'	0'		Shaker 1	200	24.0
6 rpm				7		6	Agitator	5.375	3.000	29'	10,652'		Shaker 2	200	24.0
3 rpm				6		5	Drill Pipe	4.500	3.826	2,378'	10,681'		Shaker 3	200	24.0
Plastic Viscosity (cp)		@ 150 °F		11		10	Dir. BHA	5.250	2.500	333'	13,059'				
Yield Point (lb/100 ft²)		T0 = 5		10		10	CASING & HOLE DATA								
Gel Strength (lb/100 ft²)		10 sec/10 min		6/12		5/10	Casing	OD (in.)	ID (in.)	Depth	Top		Centrifuge 1	NOV	5.0
Gel Strength (lb/100 ft^2)		30 min		15		12	Riser						VOLUME ACCOUNTING (bbls)		
HTHP Filtrate (cm/30 min)		@ 250 °F		6.0		6.4	Surface	10 3/4		2,906'	0'		Prev. Total on Location		3205.7
HTHP Cake Thickness (32nds)				2.0		2.0	Int. Csg.	7 5/8	6.875	10,148'	0'		Transferred In(+)/Out(-)		334.0
Retort Solids Content				11%		11%							Oil Added (+)		118.6
Corrected Solids (vol%)				8.8%		8.8%							Barite Added (+)		0.0
Retort Oil Content				68%		67%	Open Hole Size	6.818	13,392'				Other Product Usage (+)		23.0
Retort Water Content				21%		22%	ANNULAR GEOMETRY & RHEOLOGY						Water Added (+)		40.0
O/W Ratio				76:24		75:25	annular section	meas. depth	velocity ft/min	flow reg	ECD lb/gal		Left on Cuttings (-)		-83.7
Whole Mud Chlorides (mg/L)				53,000		55,000							Evap & Centrifuge		-30.0
Water Phase Salinity (ppm)				283,542		281,620							Non-Recoverable Vol. (-)		-26.7
Whole Mud Alkalinity, Pom				3.5		2.0	6.875x4.5	10,148'	361.8	turb	10.06		Est. Total on Location		3580.9
Excess Lime (lb/bbl)				4.6 ppb		2.6 ppb	6.818x4.5	10,652'	372.6	turb	10.16		Est. Losses/Gains (-)/(+)		0.0
Electrical Stability (volts)				585 v		445 v	6.818x5.375	10,681'	555.5	turb	10.26		BIT HYDRAULICS DATA		
Average Specific Gravity of Solids				2.57		2.40	6.818x4.5	13,059'	372.6	turb	10.53		Bit H.S.I.	Bit ΔP	Nozzles (32nds)
Percent Low Gravity Solids				7.7%		8.6%	6.818x5.25	13,392'	516.5	turb	10.71		0.39	60 psi	18 18 18
ppb Low Gravity Solids				63 ppb		70 ppb							Bit Impact Force	Nozzle Velocity (ft/sec)	18 18 18
Percent Barite				1.1%		0.2%									
ppb Barite				16 ppb		4 ppb	BIT DATA		Manuf./Type		GTD64M		161 lbs	86	
Estimated Total LCM in System		ppb					Size	Depth In	Hours	Footage	ROP ft/hr		Motor/MWD		Calc. Circ. Pressure
Sample Taken By				A. ROMAN	0	M Washburn	6 3/4	10,920 ft	22.0	2,472 ft	112.4		2,240 psi		4,145 psi

Remarks/Recommendations:

OBM RECEIVED: 2417 bbls / OBM RETURNED: 0

OBM LOSSES: (- bbls DAY) / (-377bbls Cumulative)

OBM on surface: 2312bbls (Storage) / 735bbls (Active pits)

SWEEP: 10ppb (2-MagmafiberF / 4-CalCarb M / 4-Newphalt)

Rig Activity:

Over the past 24 hours: Resume Drilling operations, Landed curve @11297'MD /10588' TVD / 86deg. Continue drilling in lateral section, start on LCM Sweeps as planed, 10bbls/300' drilled. Mud Weight maintained at 9ppg, additions of Diesel and water for dilution, and Run Centrifuge 1hr every 3hrs to assist with solids removal. Chemical additions to Increase Rheology and to maintain properties. At 13150' cuttings showed 30%Chalk / 70%Shale. While sliding continues, @13200' (20:80%), 13300' (50:50%). Pending samples from last connection. Will treat and dilute accordingly as drilling continues. At the time of the report: Drilling ahead on lateral section, Bit passing 13,390' / 96deg / 395gpm.

Eng. 1:	Mike Washburn	Eng. 2:	Adolfo Roman	WH 1:	MIDLAND	WH 2:	WH #2	Rig Phone:
Phone:	361-945-5777	Phone:	956-821-9994	Phone:	432-686-7361	Phone:	-	

W	P	Y	E	C	g	G	H	O
1	1	1	1	1	1	1	1	1

	Daily Total	Cumulative Cost
	$11,225.25	**$76,515.65**
INCLUDING 3RD PARTY CHARGES	**$22,200.29**	**$132,613.69**

OUTSOURCE FLUID SOLUTIONS LLC.

MATERIAL CONSUMPTION

Date	Operator	Well Name and No.	Rig Name and No.	Report No.
03/16/21	MAGNOLIA OIL & GAS	SABINE D 4-H	248	Report #11

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	10		10			30	$1,336.80
PHPA LIQUID (pail)	5 gal	$41.36	60		60			2	$82.72
EVO-LUBE	gal	$14.00							
NEW GEL (PREMIUM)	100# sk	$19.75	70		70				
ALUMINUM TRISTEARATE	25# sk	$162.83	19		19				
DYNA DET	5 gal	$32.23	34		14	20	$644.60	20	$644.60
CACL2 (50)	50# sk	$14.32	196		168	28	$400.96	140	$2,004.80
LIME (50)	50# sk	$5.00	295		220	75	$375.00	185	$925.00
OPTI - G	50# sk	$30.59	140		80	60	$1,835.40	145	$4,435.55
BENTONE 38 (50)	50# sk	$163.94	46		38	8	$1,311.52	20	$3,278.80
BENTONE 910 (50)	50# sk	$59.40	50		50				
BENTONE 990 (50)	50# sk	$83.59	28		20	8	$668.72	12	$1,003.08
OPTI - MUL	gal	$10.75	330		275	55	$591.25	110	$1,182.50
OPTI - WET	gal	$8.34	495		345	150	$1,251.00	315	$2,627.10
NEW PHALT	50# sk	$38.72	140		100	40	$1,548.80	140	$5,420.80
OIL SORB (25)	25# sk	$4.75							
NEW CARB ULTIMIX	50# sk	$6.35	110		90	20	$127.00	56	$355.60
NEW CARB (M)	50# sk	$5.25							
CYBERSEAL									
MAGMAFIBER F (25)	25# sk	$28.05	128		108	20	$561.00	70	$1,963.50
MAGMAFIBER R (30)	30# sk	$28.05							
VARISEAL	50# sk	$26.50	20		20			4	$106.00
FIBER PLUG	30# sk	$30.37							
NUT PLUG M (50)	50# sk	$12.04	40		40			20	$240.80
NEW WATE (SACK BARITE)	100# sk	$11.50	180		180				
BARITE BULK (100)	100# sk	$7.00	850		850			636	$4,452.00
OPTI DRILL (OBM)	bbl	$65.00	2773	334	3107			377	$24,505.00
DISCOUNTED OBM	bbl	$10.00	79		79				
MAGNOLIA OBM (LGS)	bbl		354		354				
MAGNOLIA OBM EXCESS	bbl			41	41			12	
ENGINEERING (24 HR)	each	$925.00				2	$1,850.00	20	$18,500.00
ENGINEERING (DIEM)	bbl	$30.00				2	$60.00	20	$600.00
ENGINEERING (MILES)	each	$1.00						1889	$1,889.00
TRUCKING (cwt)	each	$2.65							
TRUCKING (min)	each	$650.00						1	$650.00
PALLETS (ea)	each	$12.00						13	$156.00
SHRINK WRAP (ea)	each	$12.00						13	$156.00
		Daily Sub-Total $11,225.25			**Cumulative Total $76,515.65**			**$76,515.65**	

THIRD PARTY COST SHEET

Date	Operator	Well Name and No.	Rig Name and No.	Report No.
03/16/21	MAGNOLIA OIL & GAS	SABINE D 4-H	248	Report #11

DAILY USAGE & COST / **CUMULATIVE**

Item	Unit	Unit Cost	Previous Inventory	Received	Closing Inventory	Daily Usage	Daily Cost	Cum Usage	Cum Cost
TURBO CHEM / FIRST RESPONSE	25# sk	$41.75	100		100				
TURBO CHEM / SYNSEAL	25# sk	$85.00	100		100				
DIESEL DELIVERY 1-14-21	gal	$1.74						7000	$12,180.00
DIESEL DELIVERY 1-15-21	gal	$1.79						7000	$12,530.00
DIESEL DELIVERY 1-19-21	gal	$1.74						8160	$14,198.40
DIESEL TRANSFER F/C 3H	gal	$2.30	3800			3800	$8,740.00	6502	$14,954.60
DIESEL TRANSFER F/C 3H	gal	$2.29	7200		6224	976	$2,235.04	976	$2,235.04
DIESEL TRANSFER F/C 3H	gal	$2.37	1800		1800				

Daily Sub-Total $10,975.04 | **$56,098.04**

Cumulative Total AES & 3rd Party $132,613.69

OUTSOURCE FLUID SOLUTIONS LLC.

FLUID VOLUME ACCOUNTING

Operator:	MAGNOLIA OIL & GAS
Rig Name:	248
Well Name:	SABINE D 4-H

Grand Totals		WEEK 1							WEEK 2							WEEK 3						
	Date	3/8/21	3/9/21	3/10/21	3/11/21	3/12/21	3/13/21	3/14/21	3/15/21	3/16/21	3/17/21	3/18/21	3/19/21	3/20/21	3/21/21	3/22/21	3/23/21	3/24/21	3/25/21	3/26/21	3/27/21	3/28/21
		Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun
	Bit Size	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												
	Starting Depth	2,916	2,916	7,250	9,924	10,171	10,171	10,171	10,920	10,920	13,392											
	Ending Depth	2,916	7,250	9,924	10,171	10,171	10,171	10,920	10,920	13,392												
10,476	Footage Drilled	-	4,334	2,674	247	-	-	749	-	2,472	-	-	-	-	-	-	-	-	-	-	-	-
830	New Hole Vol.	-	411	253	23	-	-	33	-	109	-	-	-	-	-	-	-	-	-	-	-	-
	Starting System Volume	2,480	2,963	3,348	3,703	3,610	466	2,562	3,218	3,206	3,581	3,581	3,581	3,581	3,581	3,581	3,581	3,581	3,581	3,581	3,581	3,581
74	Chemical Additions	6	17	8	2	6	-	13	-	23												
707	Base Fluid Added	-	241	176	107		38	26	-	119												
44	Barite Increase	-	-	34			-	10	-	-												
4,508	Weighted Mud Added	477	481	476			2,083	657	-	334												
-	Slurry Added	-	-	-			-	-	-	-												
260	Water Added	-	150	50		20	-	-	-	40												
-	Added for Washout	-	-	-			-	-	-	-												
5,594	Total Additions	483	890	743	109	26	2,121	707	-	516	-	-	-	-	-	-	-	-	-	-	-	-
216	Surface Losses	-	99	75	14	16	-	-	12	-												
174	Formation Loss	-	-	-	123	51	-	-	-	-												
802	Mud Loss to Cuttings	-	406	264	24		-	25	-	84												
88	Unrecoverable Volume	-	-	-	40	22	-	-	-	27												
130	Centrifuge Losses	-	-	50			25	25	-	30												
1,410	Total Losses	-	505	388	201	89	25	51	12	140	-	-	-	-	-	-	-	-	-	-	-	-
3,082	Mud Transferred Out					3,082																
3,581	Ending System Volume	2,963	3,348	3,703	3,610	466	2,562	3,218	3,206	3,581	3,581	3,581	3,581	3,581	3,581	3,581	3,581	3,581	3,581	3,581	3,581	3,581
-	Mud Recovered																					

3,906

Comments:		Comments:		Comments:	
3/8/21	Nipple up and test BOP, Fill up pits with OBM Pre Treat with CaCl2 and Lime. Opti Wet and Opti Mul. Screen up with 140's & 80's. NOV screens.	3/15/21	Repairs completed. POOH and change out BHA. Start TIH,	3/22/21	
3/9/21	Drilling Intermeditate section. Massive GPM = losses at the shakers. Aggressive additions of Diesel-Water and chemicals.	3/16/21	Resume drilling, landed curve and continue with lateral section. At 13100' shale coming up on cuttings. (Eagleford) start sliding updip away from formation. @13300 50:50 on cuttings.	3/23/21	
3/10/21	Drilling ahead on Intermedite section. At 9924' MWD fail to Sync. POOH to change out same.	3/17/21		3/24/21	
3/11/21	Drilled to interval TD at 10,171'MD, (KOP at 9,924'MD 9,734'TVD	3/18/21		3/25/21	
3/12/21	Cement the intermediate string with good returns. Skid Vol. 3077bbls/ 466bbls 9.0ppg left in casing.	3/19/21		3/26/21	
3/13/21	Modify date on Volume accounting sheet. 2083bbls Transfer from C 3-H. Cut MW down to 9ppg w/Centrifuge & Diesel. Pick up BHA and TIH.	3/20/21		3/27/21	
3/14/21	Drill out shoe track. FIT 13EMW. Drilled ahead on curve section to 10920'. MWD fail, POOH to replace. Top drive down for repairs at 5710'. Wait on Mechanic.	3/21/21		3/28/21	

3/16/2021 **Report 11 pm**

110 Old Market St.
St Martinville, LA 70582

TEL: (337) 394-1078

88.6° **10,686' TVD**

Operator	Contractor	County / Parish / Block	Engineer Start Date	24 hr ftg.	Drilled Depth
MAGNOLIA OIL & GAS	**PATTERSON**	**WASHINGTON**	**01/16/21**		**13,867 ft**
Well Name and No.	Rig Name and No.	State	Spud Date	Current ROP	Activity
SABINE D 4-H	**248**	**TEXAS**	**01/16/21**	**24 ft/hr**	**DRLG LATERAL**
Report for	Report for	Field / OSC-G #	Fluid Type	Circulating Rate	Circulating Pressure
JIM HARRISON/JAMES DYER	**Tool Pusher**	**GIDDIGNS**	**OBM**	**399 gpm**	**4,060 psi**

MUD PROPERTY SPECIFICATIONS

Weight	PV	YP	E.S.	CaCl2	GELS	HTHP
8.8-9.8	**5-20**	**4-15**	**>400**	**±280K**	**<10 <15**	**<10**

MUD PROPERTIES

Time Sample Taken	3:00		13:00
Sample Location	suction		shaker
Flowline Temperature °F	145 °F		122 °F
Depth (ft)	13,332'		13,867'
Mud Weight (ppg)	9.1		9.1
Funnel Vis (sec/qt) @ 95 °F	47		47
600 rpm	32		37
300 rpm	21		24
200 rpm	16		17
100 rpm	11		12
6 rpm	7		7
3 rpm	6		6
Plastic Viscosity (cp) @ 150 °F	11		13
Yield Point (lb/100 ft²) T0 = 5	10		11
Gel Strength (lb/100 ft²) 10 sec / 10 min	6/12		6/11
Gel Strength (lb/100 ft2) 30 min	15		13
HTHP Filtrate (cm/30 min) @ 250 °F	6.0		5.0
HTHP Cake Thickness (32nds)	2.0		2.0
Retort Solids Content	11%		11%
Corrected Solids (vol%)	8.8%		8.7%
Retort Oil Content	68%		67%
Retort Water Content	21%		22%
O/W Ratio	76:24		75:25
Whole Mud Chlorides (mg/L)	53,000		58,000
Water Phase Salinity (ppm)	283,542		292,488
Whole Mud Alkalinity, Pom	3.5		3.1
Excess Lime (lb/bbl)	4.6 ppb		4 ppb
Electrical Stability (volts)	585 v		445 v
Average Specific Gravity of Solids	2.57		2.52
Percent Low Gravity Solids	7.7%		7.8%
ppb Low Gravity Solids	63 ppb		64 ppb
Percent Barite	1.1%		0.9%
ppb Barite	16 ppb		12 ppb
Estimated Total LCM in System			
Sample Taken By	A. ROMAN		M Washburn

MUD VOLUME (BBL)

In Pits	735 bbl
In Hole	553 bbl
Active	1288 bbl
Storage	2312 bbl
Tot. on Location	3600 bbl

PUMP #1

Liner Size	4.75
Stroke	12
bbl/stk	0.0625
stk/min	76
gal/min	199

PUMP #2

Liner Size	4.75
Stroke	12
bbl/stk	0.0625
stk/min	76
gal/min	199

RISER BOOSTER

Liner Size	4.75
Stroke	12
bbl/stk	0.0625
stk/min	
gal/min	

Mud Wt. = 9.1 PV=11 YP=10 **CIRCULATION DATA** n = 0.608 K = 242.1

Bit Depth = 13,867 ' | Washout = 1% | Pump Efficiency = 95%

Drill String Disp.							
81.1 bbl	Volume to Bit	194.3 bbl	Strokes To Bit	3,111	Time To Bit	20 min
	Bottoms Up Vol.	358.5 bbl	BottomsUp Stks	5,739	BottomsUp Time	38 min
	TotalCirc.Vol.	1287.8 bbl	TotalCirc.Stks	20,616	Total Circ. Time	136 min

DRILLING ASSEMBLY DATA

Tubulars	OD (in.)	ID (in.)	Length	Top
Drill Pipe	4.500	3.826	11,127'	
Agitator	5.375	3.000	29'	11,127'
Drill Pipe	4.500	3.826	2,378'	11,156'
Dir. BHA	5.250	2.500	333'	13,534'

CASING & HOLE DATA

Casing	OD (in.)	ID (in.)	Depth	Top
Riser				
Surface	10 3/4		2,906'	
Int. Csg.	7 5/8	6.875	10,148'	
Open Hole Size	6.818		13,867'	

ANNULAR GEOMETRY & RHEOLOGY

annular section	depth	velocity ft/min	flow reg	ECD lb/gal
6.875x4.5	10,148'	361.8	turb	9.99
6.818x4.5	11,127'	372.6	turb	10.05
6.818x5.375	11,156'	555.5	turb	10.07
6.818x4.5	13,534'	372.6	turb	10.29
6.818x5.25	13,867'	516.5	turb	10.39

BIT DATA Manuf./Type GTD64M

Size	Depth In	Hours	Footage	ROP ft/hr
6 3/4	10,920 ft	22.0	2,472 ft	112.4

SOLIDS CONTROL

Unit	Screens	Hours
Shaker 1	200	
Shaker 2	200	
Shaker 3	200	
Centrifuge 1	NOV	

VOLUME ACCOUNTING (bbls)

Prev. Total on Location	3581.0
Transferred In(+)/Out(-)	
Oil Added (+)	
Barite Added (+)	
Other Product Usage (+)	
Water Added (+)	
Left on Cuttings (-)	
Evap & Centrifuge	
Non-Recoverable Vol. (-)	
Est. Total on Location	3581.0
Est. Losses/Gains (-)/(+)	18.9

BIT HYDRAULICS DATA

Bit H.S.I.	Bit ΔP	Nozzles (32nds)		
0.39	60 psi	18	18	18
Bit Impact Force	Nozzle Velocity (ft/sec)	18	18	18
161 lbs	86			

Motor/MWD	Calc. Circ. Pressure
2,240 psi	4,205 psi

Afternoon Remarks/Recommendations:

Pump 10 bbl sweep every 300 ft. Sweep Contains: 10 ppb

CalCarb Medium, 10 ppb Newphalt and 10 ppb Magnafiber fine

Afternoon Rig Activity:

Drilling 6-3/4" lateral hole section, samples at 13150 showed 30% AC / 70% SHALE, at 13460 samples were 100% AC, at 13760 samples contained 70% AC / 30% ASH. Maintain mud wt at 9.0# - 9.1# in response to wellbore exposure to Eagleford Shale and Volcanic Ash reduce HTHP to <5 with additions of OPTIG, gilsonite and elevate WPS to 290,000 with CaCl salt. Pumping 15 bbls LCM sweep every 300' or as needed. Running mud chiller system MWD Temperature 275 degrees F. .

03/17/21 **Report #12**

110 Old Market St.
St Martinville, LA 70582
TEL: (337) 394-1078

OUTSOURCE FLUID SOLUTIONS LLC.

92.4° **10,742' TVD**

Operator	Contractor	County / Parish / Block	Engineer Start Date	24 hr ftg.	Drilled Depth
MAGNOLIA OIL & GAS	**PATTERSON**	**WASHINGTON**	**01/16/21**	**1,456 ft**	**14,848 ft**
Well Name and No.	Rig Name and No.	State	Spud Date	Current ROP	Activity
SABINE D 4-H	**248**	**TEXAS**	**01/16/21**	**66 ft/hr**	**DRLG LATERAL**
Report for	Report for	Field / OCS-G #	Fluid Type	Circulating Rate	Circulating Pressure
JIM HARRISON/JAMES DYER	**Tool Pusher**	**GIDDIGNS**	**OBM**	**399 gpm**	**5,320 psi**

MUD PROPERTY SPECIFICATIONS							MUD VOLUME (BBL)		PUMP #1		PUMP #2		RISER BOOSTER	
Weight	PV	YP	E.S.	CaCl2	GELS	HTHP	In Pits	674 bbl	Liner Size	4.75	Liner Size	4.75	Liner Size	4.75
8.8-9.8	**5-20**	**4-15**	**>400**	**±290K**	**<10 <15**	**<10**	In Hole	592 bbl	Stroke	12	Stroke	12	Stroke	12
				3/17/21		3/16/21	Active	1266 bbl	bbl/stk	0.0625	bbl/stk	0.0625	bbl/stk	0.0625
Time Sample Taken				3:00		13:00	Storage	2312 bbl	stk/min	76	stk/min	76	stk/min	0
Sample Location				suction		shaker	Tot. on Location	3578 bbl	gal/min	199	gal/min	199	gal/min	0
Flowline Temperature °F				125 °F		122 °F	PHHP = 1238		CIRCULATION DATA				n = 0.632	K = 197.766
Depth (ft)				14,806'		13,867'	Bit Depth = 14,848 '		Washout = 1%		Pump Efficiency = 95%			
Mud Weight (ppg)				9.1		9.1	Drill String Disp.	Volume to Bit 208.3 bbl	Strokes To Bit	3,334	Time To Bit	22 min		
Funnel Vis (sec/qt)		@ 80 °F		48		47		Bottoms Up Vol. 383.5 bbl	BottomsUp Stks	6,139	BottomsUp Time	40 min		
600 rpm				31		37	86.4 bbl	TotalCirc.Vol. 1265.8 bbl	TotalCirc.Stks	20,263	Total Circ. Time	133 min		
300 rpm				20		24	DRILLING ASSEMBLY DATA				SOLIDS CONTROL			
200 rpm				15		17	Tubulars	OD (in.)	ID (in.)	Length	Top	Unit	Screens	Hours
100 rpm				10		12	Drill Pipe	4.500	3.826	12,108'	0'	Shaker 1	200	24.0
6 rpm				6		7	Agitator	5.375	3.000	29'	12,108'	Shaker 2	200	24.0
3 rpm				5		6	Drill Pipe	4.500	3.826	2,378'	12,137'	Shaker 3	200	24.0
Plastic Viscosity (cp)		@ 150 °F		11		13	Dir. BHA	5.250	2.500	333'	14,515'			
Yield Point (lb/100 ft²)		T0 = 4		9		11	CASING & HOLE DATA							
Gel Strength (lb/100 ft²)		10 sec/10 min		6/12		6/11	Casing	OD (in.)	ID (in.)	Depth	Top	Centrifuge 1	NOV	4.0
Gel Strength (lb/100 ft^2)		30 min		14		13	Riser					VOLUME ACCOUNTING (bbls)		
HTHP Filtrate (cm/30 min)		@ 250 °F		4.5		5.0	Surface	10 3/4		2,906'	0'	Prev. Total on Location		3581.0
HTHP Cake Thickness (32nds)				2.0		2.0	Int. Csg.	7 5/8	6.875	10,148'	0'	Transferred In(+)/Out(-)		0.0
Retort Solids Content				10.1%		11%						Oil Added (+)		37.5
Corrected Solids (vol%)				7.6%		8.7%						Barite Added (+)		0.0
Retort Oil Content				67.7%		67%	Open Hole Size	6.818	14,848'			Other Product Usage (+)		30.2
Retort Water Content				22.2%		22%	ANNULAR GEOMETRY & RHEOLOGY					Water Added (+)		0.0
O/W Ratio				75:25		75:25	annular section	meas. depth	velocity ft/min	flow reg	ECD lb/gal	Left on Cuttings (-)		-49.3
Whole Mud Chlorides (mg/L)				60,000		58,000						Evap & Centrifuge		-21.5
Water Phase Salinity (ppm)				297,657		292,488						Non-Recoverable Vol. (-)		
Whole Mud Alkalinity, Pom				3.8		3.1	6.875x4.5	10,148'	361.8	turb	10.07	Est. Total on Location		3577.8
Excess Lime (lb/bbl)				4.9 ppb		4 ppb	6.818x4.5	12,108'	372.6	turb	10.24	Est. Losses/Gains (-)/(+)		0.0
Electrical Stability (volts)				595 v		445 v	6.818x5.375	12,137'	555.5	turb	10.30	BIT HYDRAULICS DATA		
Average Specific Gravity of Solids				2.78		2.52	6.818x4.5	14,515'	372.6	turb	10.55	Bit H.S.I.	Bit ΔP	Nozzles (32nds)
Percent Low Gravity Solids				5.8%		7.8%	6.818x5.25	14,848'	516.5	turb	10.69	0.39	60 psi	18 18 18
ppb Low Gravity Solids				47 ppb		64 ppb						Bit Impact Force	Nozzle Velocity (ft/sec)	18 18 18
Percent Barite				1.9%		0.9%								
ppb Barite				27 ppb		12 ppb	BIT DATA		Manuf./Type		GTD64M	162 lbs	86	
Estimated Total LCM in System		ppb					Size	Depth In	Hours	Footage	ROP ft/hr	Motor/MWD	Calc. Circ. Pressure	
Sample Taken By				A. ROMAN	0	M Washburn	6 3/4	10,920 ft	44.0	3,928 ft	89.3	2,240 psi	4,335 psi	

Remarks/Recommendations:

OBM RECEIVED: 2417 bbls / OBM RETURNED: 0

OBM LOSSES: (- bbls DAY) / (-377bbls Cumulative)

OBM on surface: 2312bbls (Storage) / 735bbls (Active pits)

SWEEP: 10ppb (2-MagmafiberF / 4-CalCarb M / 4-Newphalt)

Rig Activity:

Over the past 24 hours: Continue drilling ahead on lateral section, Mud Weight maintained at 9.1ppg. As drilling away from EF, cross through Ash, Cuttings showing 30%Ash @13790'. 10%Ash @14100'. 100% AC @14200'. Adjust Chemical treatment to OBM as Formations change on wellbore. Maintain Diesel additions for dilution (NO WATER) , Run Centrifuge 1hr every 3hrs to assist with solids removal. At the time of the report: Drilling ahead on lateral section, Bit passing 14,842' / 92deg / 395gpm. Cuttings @14700'-100%AC.

Eng. 1:	Mike Washburn	Eng. 2:	Adolfo Roman	WH 1:	MIDLAND	WH 2:	WH #2	Rig Phone:
Phone:	361-945-5777	Phone:	956-821-9994	Phone:	432-686-7361	Phone:	-	

W	P	Y	E	C	g	G	H	O
1	1	1	1	1	1	1	1	1

	Daily Total	Cumulative Cost
	$12,236.87	**$88,752.52**
INCLUDING 3RD PARTY CHARGES	**$15,429.13**	**$148,042.82**

OUTSOURCE FLUID SOLUTIONS LLC.

MATERIAL CONSUMPTION

Date	Operator	Well Name and No.	Rig Name and No.	Report No.
03/17/21	MAGNOLIA OIL & GAS	SABINE D 4-H	248	Report #12

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	10		10			30	$1,336.80
PHPA LIQUID (pail)	5 gal	$41.36	60		60			2	$82.72
EVO-LUBE	gal	$14.00							
NEW GEL (PREMIUM)	100# sk	$19.75	70		70				
ALUMINUM TRISTEARATE	25# sk	$162.83	19		19				
DYNA DET	5 gal	$32.23	14			14	$451.22	34	$1,095.82
CACL2 (50)	50# sk	$14.32	168		56	112	$1,603.84	252	$3,608.64
LIME (50)	50# sk	$5.00	220		150	70	$350.00	255	$1,275.00
OPTI - G	50# sk	$30.59	80			80	$2,447.20	225	$6,882.75
BENTONE 38 (50)	50# sk	$163.94	38		33	5	$819.70	25	$4,098.50
BENTONE 910 (50)	50# sk	$59.40	50		50				
BENTONE 990 (50)	50# sk	$83.59	20		16	4	$334.36	16	$1,337.44
OPTI - MUL	gal	$10.75	275		220	55	$591.25	165	$1,773.75
OPTI - WET	gal	$8.34	345		220	125	$1,042.50	440	$3,669.60
NEW PHALT	50# sk	$38.72	100		60	40	$1,548.80	180	$6,969.60
OIL SORB (25)	25# sk	$4.75							
NEW CARB ULTIMIX	50# sk	$6.35	90		70	20	$127.00	76	$482.60
NEW CARB (M)	50# sk	$5.25		20	20				
CYBERSEAL									
MAGMAFIBER F (25)	25# sk	$28.05	108		88	20	$561.00	90	$2,524.50
MAGMAFIBER R (30)	30# sk	$28.05							
VARISEAL	50# sk	$26.50	20		20			4	$106.00
FIBER PLUG	30# sk	$30.37							
NUT PLUG M (50)	50# sk	$12.04	40		40			20	$240.80
NEW WATE (SACK BARITE)	100# sk	$11.50	180		180				
BARITE BULK (100)	100# sk	$7.00	850		850			636	$4,452.00
OPTI DRILL (OBM)	bbl	$65.00	3107		3107			377	$24,505.00
DISCOUNTED OBM	bbl	$10.00	79		79				
MAGNOLIA OBM (LGS)	bbl		354		354				
MAGNOLIA OBM EXCESS	bbl		41		41			12	
ENGINEERING (24 HR)	each	$925.00				2	$1,850.00	22	$20,350.00
ENGINEERING (DIEM)	bbl	$30.00				2	$60.00	22	$660.00
ENGINEERING (MILES)	each	$1.00				450	$450.00	2339	$2,339.00
TRUCKING (cwt)	each	$2.65							
TRUCKING (min)	each	$650.00						1	$650.00
PALLETS (ea)	each	$12.00						13	$156.00
SHRINK WRAP (ea)	each	$12.00						13	$156.00
		Daily Sub-Total $12,236.87			**Cumulative Total $88,752.52**			**$88,752.52**	

THIRD PARTY COST SHEET

Date	Operator	Well Name and No.	Rig Name and No.	Report No.
03/17/21	**MAGNOLIA OIL & GAS**	**SABINE D 4-H**	**248**	**Report #12**

DAILY USAGE & COST								**CUMULATIVE**	
Item	Unit	Unit Cost	Previous Inventory	Received	Closing Inventory	Daily Usage	Daily Cost	Cum Usage	Cum Cost
TURBO CHEM / FIRST RESPONSE	25# sk	$41.75	100		100				
TURBO CHEM / SYNSEAL	25# sk	$85.00	100		100				
DIESEL DELIVERY 1-14-21	gal	$1.74						7000	$12,180.00
DIESEL DELIVERY 1-15-21	gal	$1.79						7000	$12,530.00
DIESEL DELIVERY 1-19-21	gal	$1.74						8160	$14,198.40
DIESEL TRANSFER F/C 3H	gal	$2.30						6502	$14,954.60
DIESEL TRANSFER F/C 3H	gal	$2.29	6224		4830	1394	$3,192.26	2370	$5,427.30
DIESEL TRANSFER F/C 3H	gal	$2.37	1800		1800				
DIESEL DELIVERY 3-16-21	gal	$2.39		7200	7200				
						Daily Sub-Total	**$3,192.26**		**$59,290.30**

Cumulative Total AES & 3rd Party $148,042.82

OUTSOURCE FLUID SOLUTIONS LLC.

FLUID VOLUME ACCOUNTING

Operator:	MAGNOLIA OIL & GAS
Rig Name:	248
Well Name:	SABINE D 4-H

Grand Totals		WEEK 1							WEEK 2							WEEK 3						
	Date	3/8/21	3/9/21	3/10/21	3/11/21	3/12/21	3/13/21	3/14/21	3/15/21	3/16/21	3/17/21	3/18/21	3/19/21	3/20/21	3/21/21	3/22/21	3/23/21	3/24/21	3/25/21	3/26/21	3/27/21	3/28/21
		Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun
	Bit Size	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	2,916	2,916	7,250	9,924	10,171	10,171	10,171	10,920	10,920	13,392	14,848										
	Ending Depth	2,916	7,250	9,924	10,171	10,171	10,171	10,920	10,920	13,392	14,848											
11,932	Footage Drilled	-	4,334	2,674	247	-	-	749	-	2,472	1,456	-	-	-	-	-	-	-	-	-	-	-
894	New Hole Vol.	-	411	253	23	-	-	33	-	109	64	-	-	-	-	-	-	-	-	-	-	-
	Starting System Volume	2,480	2,963	3,348	3,703	3,610	466	2,562	3,218	3,206	3,581	3,578	3,578	3,578	3,578	3,578	3,578	3,578	3,578	3,578	3,578	3,578
105	Chemical Additions	6	17	8	2	6	-	13	-	23	30											
745	Base Fluid Added	-	241	176	107		38	26	-	119	38											
44	Barite Increase	-	-	34			-	10	-	-	-											
4,508	Weighted Mud Added	477	481	476			2,083	657	-	334	-											
-	Slurry Added	-	-	-			-	-	-	-	-											
260	Water Added	-	150	50		20	-	-	-	40	-											
-	Added for Washout	-	-	-			-	-	-	-	-											
5,662	Total Additions	483	890	743	109	26	2,121	707	-	516	68	-	-	-	-	-	-	-	-	-	-	-
216	Surface Losses	-	99	75	14	16	-	-	12	-	-											
174	Formation Loss	-	-	-	123	51	-	-	-	-	-											
852	Mud Loss to Cuttings	-	406	264	24		-	25	-	84	49											
88	Unrecoverable Volume	-	-	-	40	22	-	-	-	27	-											
152	Centrifuge Losses	-	-	50			25	25	-	30	22											
1,481	Total Losses	-	505	388	201	89	25	51	12	140	71	-	-	-	-	-	-	-	-	-	-	-
3,082	Mud Transferred Out					3,082																
3,578	Ending System Volume	2,963	3,348	3,703	3,610	466	2,562	3,218	3,206	3,581	3,578	3,578	3,578	3,578	3,578	3,578	3,578	3,578	3,578	3,578	3,578	3,578
-	Mud Recovered																					

3,906

Comments:		Comments:		Comments:	
3/8/21	Nipple up and test BOP, Fill up pits with OBM Pre Treat with CaCl2 and Lime. Opti Wet and Opti Mul. Screen up with 140's & 80's. NOV screens.	3/15/21	Repairs completed. POOH and change out BHA. Start TIH,	3/22/21	
3/9/21	Drilling Intermeditate section. Massive GPM = losses at the shakers. Aggressive additions of Diesel-Water and chemicals.	3/16/21	Resume drilling, landed curve and continue with lateral section. At 13100' shale coming up on cuttings. (Eagleford) start sliding updip away from formation. @13300 50:50 on cuttings.	3/23/21	
3/10/21	Drilling ahead on Intermedite section. At 9924' MWD fail to Sync. POOH to change out same.	3/17/21	Drilling ahead on lateral section. Adjust properties as drilled pass EF and Ash. At the time of report 100% AC	3/24/21	
3/11/21	Drilled to interval TD at 10,171'MD, (KOP at 9,924'MD 9,734'TVD	3/18/21		3/25/21	
3/12/21	Cement the intermediate string with good returns. Skid Vol. 3077bbls/ 466bbls 9.0ppg left in casing.	3/19/21		3/26/21	
3/13/21	Modify date on Volume accounting sheet. 2083bbls Transfer from C 3-H. Cut MW down to 9ppg w/Centrifuge & Diesel. Pick up BHA and TIH.	3/20/21		3/27/21	
3/14/21	Drill out shoe track. FIT 13EMW. Drilled ahead on curve section to 10920'. MWD fail, POOH to replace. Top drive down for repairs at 5710'. Wait on Mechanic.	3/21/21		3/28/21	

03/18/21 **Report #13**

110 Old Market St.
St Martinville, LA 70582
TEL: (337) 394-1078

OUTSOURCE FLUID SOLUTIONS LLC.

89.0° **10,752' TVD**

Operator	Contractor	County / Parish / Block	Engineer Start Date	24 hr ftg.	Drilled Depth
MAGNOLIA OIL & GAS	**PATTERSON**	**WASHINGTON**	**01/16/21**	**6 ft**	**14,574 ft**
Well Name and No.	Rig Name and No.	State	Spud Date	Current ROP	Activity
SABINE D 4-H ST01	**248**	**TEXAS**	**01/16/21**	**1 ft/hr**	**Time Drill**
Report for	Report for	Field / OCS-G #	Fluid Type	Circulating Rate	Circulating Pressure
JIM HARRISON/JAMES DYER	**Tool Pusher**	**GIDDIGNS**	**OBM**	**399 gpm**	**4,019 psi**

MUD PROPERTY SPECIFICATIONS

Weight	PV	YP	E.S.	CaCl2	GELS	HTHP
8.8-9.8	**5-20**	**4-15**	**>400**	**±290K**	**<10 <15**	**<10**
				3/18/21	3/17/21	3/17/21
Time Sample Taken				2:00	18:30	12:00
Sample Location				suction	suction	shaker
Flowline Temperature °F				107 °F		127 °F
Depth (ft)				14,571'	14,568'	15,209'
Mud Weight (ppg)				8.9	9.1	9.0
Funnel Vis (sec/qt)			@ 85 °F	52	58	52
600 rpm				28	37	35
300 rpm				18	23	22
200 rpm				15	17	17
100 rpm				11	13	12
6 rpm				5	6	7
3 rpm				4	5	6
Plastic Viscosity (cp)			@ 150 °F	10	14	13
Yield Point (lb/100 ft²)			T0 = 3	8	9	9
Gel Strength (lb/100 ft²)			10 sec/10 min	5/9	6/10	6/11
Gel Strength (lb/100 ft^2)			30 min	12	13	14
HTHP Filtrate (cm/30 min)			@ 300 °F	4.0	4.0	4.0
HTHP Cake Thickness (32nds)				2.0	2.0	2.0
Retort Solids Content				9.5%	10.6%	9.5%
Corrected Solids (vol%)				7.2%	8.4%	7.1%
Retort Oil Content				68.5%	67.2%	68.5%
Retort Water Content				22%	22.2%	22%
O/W Ratio				76:24	75:25	76:24
Whole Mud Chlorides (mg/L)				57,000	56,000	59,000
Water Phase Salinity (ppm)				288,902	283,438	296,038
Whole Mud Alkalinity, Pom				2.9	2.6	3.0
Excess Lime (lb/bbl)				3.8 ppb	3.4 ppb	3.9 ppb
Electrical Stability (volts)				491 v	486 v	512 v
Average Specific Gravity of Solids				2.55	2.61	2.70
Percent Low Gravity Solids				6.3%	7.1%	5.7%
ppb Low Gravity Solids				52 ppb	59 ppb	47 ppb
Percent Barite				0.8%	1.2%	1.4%
ppb Barite				12 ppb	18 ppb	21 ppb
Estimated Total LCM in System			ppb			
Sample Taken By				R. Bowlin	R. Bowlin	M.Meehan

MUD VOLUME (BBL)

In Pits	697 bbl
In Hole	581 bbl
Active	1278 bbl
Storage	2312 bbl
Tot. on Location	3590 bbl

PUMP #1

Liner Size	4.75
Stroke	12
bbl/stk	0.0625
stk/min	76
gal/min	199

PUMP #2

Liner Size	4.75
Stroke	12
bbl/stk	0.0625
stk/min	76
gal/min	199

RISER BOOSTER

Liner Size	4.75
Stroke	12
bbl/stk	0.0625
stk/min	0
gal/min	0

CIRCULATION DATA

PHHP = 935 n = 0.637 K = 172.351

Bit Depth = 14,574 ' Washout = 1% Pump Efficiency = 95%

Drill String Disp.					
84.9 bbl	Volume to Bit	204.4 bbl	Strokes To Bit	3,272	Time To Bit 22 min
	Bottoms Up Vol.	376.5 bbl	BottomsUp Stks	6,028	BottomsUp Time 40 min
	TotalCirc.Vol.	1277.9 bbl	TotalCirc.Stks	20,457	Total Circ. Time 135 min

DRILLING ASSEMBLY DATA

Tubulars	OD (in.)	ID (in.)	Length	Top
Drill Pipe	4.500	3.826	11,834'	0'
Agitator	5.375	3.000	29'	11,834'
Drill Pipe	4.500	3.826	2,378'	11,863'
Dir. BHA	5.250	2.500	333'	14,241'

CASING & HOLE DATA

Casing	OD (in.)	ID (in.)	Depth	Top
Riser				
Surface	10 3/4		2,906'	0'
Int. Csg.	7 5/8	6.875	10,148'	0'
Open Hole Size		6.818	14,574'	

ANNULAR GEOMETRY & RHEOLOGY

annular section	meas. depth	velocity ft/min	flow reg	ECD lb/gal
6.875x4.5	10,148'	361.8	turb	9.74
6.818x4.5	11,834'	372.6	turb	9.83
6.818x5.375	11,863'	555.5	turb	9.84
6.818x4.5	14,241'	372.6	turb	10.03
6.818x5.25	14,574'	516.5	turb	10.10

BIT DATA Manuf./Type GTD64M

Size	Depth In	Hours	Footage	ROP ft/hr
6 3/4	10,920 ft	62.0	4,297 ft	69.3

SOLIDS CONTROL

Unit	Screens	Hours
Shaker 1	200	24.0
Shaker 2	200	24.0
Shaker 3	200	24.0
Centrifuge 1	NOV	7.0

VOLUME ACCOUNTING (bbls)

Prev. Total on Location	3577.8
Transferred In(+)/Out(-)	
Oil Added (+)	76.0
Barite Added (+)	0.0
Other Product Usage (+)	6.5
Water Added (+)	
Left on Cuttings (-)	-0.3
Evap & Centrifuge	-34.0
Non-Recoverable Vol. (-)	-36.0
Est. Total on Location	3589.9
Est. Losses/Gains (-)/(+)	0.0

BIT HYDRAULICS DATA

Bit H.S.I.	Bit ΔP	Nozzles (32nds)		
0.38	59 psi	18	18	18
Bit Impact Force	Nozzle Velocity (ft/sec)	18	18	18
158 lbs	86			

Motor/MWD	Calc. Circ. Pressure
2,050 psi	4,023 psi

Remarks/Recommendations:

OBM RECEIVED: 2417 bbls / OBM RETURNED: 0

OBM LOSSES: (- bbls DAY) / (-327bbls Cumulative)

OBM on surface: 2312bbls (Storage) / 697bbls (Active pits)

SWEEP: 10ppb (2-MagmafiberF / 4-CalCarb M / 4-Newphalt)

Rig Activity:

Over the past 24 hours Patterson 248 continued drilling ahead on the lateral section from 14,848' MD to 15,209'MD experiencing tight hole conditions with increased Ash in the surface samples. Samples at 15,209'MD showed 60% AC / 40% ASH. Made a wiper trip from 14,568 to 13,584'MD in an attempt to open the hole and reduce tight hole. Began troughing at 14,538 to 14,568'MD. No sweeps while attempting to sidetrack. Maintained active density at 8.9-9.0ppg with diesel dilutions, no drill H2O currently. Processed active system for 7hrs to remove LGS attributed to the Ash drilled and the carbonic acid converted into calcium carbonate. At the time of the am report time drilling at 14,574'MD.

Eng. 1:	Eng. 2:	WH 1:	WH 2:	Rig Phone:
Matt Meehan	Rob Bowlin	MIDLAND	WH #2	
Phone:	Phone: 228-990-1055	Phone: 432-686-7361	Phone: -	

W	P	Y	E	C	g	G	H	O
1	1	1	1	1	1	1	1	1

	Daily Total	Cumulative Cost
	$1,285.87	**$90,038.39**
INCLUDING 3RD PARTY CHARGES	**$8,483.07**	**$156,525.89**

3/18/2021 **Report 13 pm**

110 Old Market St.
St Martinville, LA 70582

TEL: (337) 394-1078

92.4° **10,745' TVD**

Operator	Contractor	County / Parish / Block	Engineer Start Date	24 hr ftg.	Drilled Depth
MAGNOLIA OIL & GAS	**PATTERSON**	**WASHINGTON**	**01/16/21**	**209 ft**	**14,783 ft**
Well Name and No.	Rig Name and No.	State	Spud Date	Current ROP	Activity
SABINE D 4-H ST01	**248**	**TEXAS**	**01/16/21**	**112 ft/hr**	**Drilling**
Report for	Report for	Field / OSC-G #	Fluid Type	Circulating Rate	Circulating Pressure
Bobby Gwin/ Kevin Burt	**Tool Pusher**	**GIDDIGNS**	**OBM**	**399 gpm**	**4,498 psi**

MUD PROPERTY SPECIFICATIONS						
Weight	PV	YP	E.S.	CaCl2	GELS	HTHP
8.8-9.8	**5-20**	**4-15**	**>400**	**±290K**	**<10 <15**	**<10**

MUD PROPERTIES				
Time Sample Taken		2:00	18:30	11:00
Sample Location		suction	suction	shaker
Flowline Temperature °F		107 °F		110 °F
Depth (ft)		14,571'	14,568'	14,783'
Mud Weight (ppg)		8.9	9.1	9.0
Funnel Vis (sec/qt)	@ 85 °F	52	58	54
600 rpm		28	37	41
300 rpm		18	23	25
200 rpm		15	17	17
100 rpm		11	13	12
6 rpm		5	6	6
3 rpm		4	5	5
Plastic Viscosity (cp)	@ 150 °F	10	14	16
Yield Point (lb/100 ft²)	T0 = 3	8	9	9
Gel Strength (lb/100 ft²)	10 sec / 10 min	5/9	6/10	6/10
Gel Strength (lb/100 ft2)	30 min	12	13	13
HTHP Filtrate (cm/30 min)	@ 300 °F	4.0	4.0	4.0
HTHP Cake Thickness (32nds)		2.0	2.0	2.0
Retort Solids Content		9.5%	10.6%	10%
Corrected Solids (vol%)		7.2%	8.4%	7.6%
Retort Oil Content		68.5%	67.2%	67%
Retort Water Content		22%	22.2%	23%
O/W Ratio		76:24	75:25	74:26
Whole Mud Chlorides (mg/L)		57,000	56,000	59,000
Water Phase Salinity (ppm)		288,902	283,438	286,859
Whole Mud Alkalinity, Pom		2.9	2.6	3.0
Excess Lime (lb/bbl)		3.8 ppb	3.4 ppb	3.9 ppb
Electrical Stability (volts)		491 v	486 v	506 v
Average Specific Gravity of Solids		2.55	2.61	2.55
Percent Low Gravity Solids		6.3%	7.1%	6.7%
ppb Low Gravity Solids		52 ppb	59 ppb	55 ppb
Percent Barite		0.8%	1.2%	0.9%
ppb Barite		12 ppb	18 ppb	13 ppb
Estimated Total LCM in System				
Sample Taken By		R. Bowlin	R. Bowlin	M.Meehan

MUD VOLUME (BBL)		PUMP #1		PUMP #2		RISER BOOSTER	
In Pits	669 bbl	Liner Size	4.75	Liner Size	4.75	Liner Size	4.75
In Hole	589 bbl	Stroke	12	Stroke	12	Stroke	12
Active	1258 bbl	bbl/stk	0.0625	bbl/stk	0.0625	bbl/stk	0.0625
Storage	2312 bbl	stk/min	76	stk/min	76	stk/min	
Tot. on Location	3570 bbl	gal/min	199	gal/min	199	gal/min	

Mud Wt. = 8.9 PV=10 YP=8 **CIRCULATION DATA** n = 0.637 K = 172.4

Bit Depth = 14,783 ' | Washout = 1% | Pump Efficiency = 95%

Drill String Disp.					
86.1 bbl	Volume to Bit	207.3 bbl	Strokes To Bit	3,319	Time To Bit 22 min
	Bottoms Up Vol.	381.8 bbl	BottomsUp Stks	6,113	BottomsUp Time 40 min
	TotalCirc.Vol.	1258.2 bbl	TotalCirc.Stks	20,142	Total Circ. Time 133 min

DRILLING ASSEMBLY DATA

Tubulars	OD (in.)	ID (in.)	Length	Top
Drill Pipe	4.500	3.826	12,043'	
Agitator	5.375	3.000	29'	12,043'
Drill Pipe	4.500	3.826	2,378'	12,072'
Dir. BHA	5.250	2.500	333'	14,450'

CASING & HOLE DATA

Casing	OD (in.)	ID (in.)	Depth	Top
Riser				
Surface	10 3/4		2,906'	
Int. Csg.	7 5/8	6.875	10,148'	
Open Hole Size	6.818		14,783'	

ANNULAR GEOMETRY & RHEOLOGY

annular section	depth	velocity ft/min	flow reg	ECD lb/gal
6.875x4.5	10,148'	361.8	turb	9.83
6.818x4.5	12,043'	372.6	turb	10.03
6.818x5.375	12,072'	555.5	turb	10.13
6.818x4.5	14,450'	372.6	turb	10.41
6.818x5.25	14,783'	516.5	turb	10.59

BIT DATA Manuf./Type GTD64M

Size	Depth In	Hours	Footage	ROP ft/hr
6 3/4	10,920 ft	62.0	4,506 ft	72.7

SOLIDS CONTROL

Unit	Screens	Hours
Shaker 1	200	12.0
Shaker 2	200	12.0
Shaker 3	200	12.0
Centrifuge 1	NOV	2.0

VOLUME ACCOUNTING (bbls)

Prev. Total on Location	3589.9
Transferred In(+)/Out(-)	
Oil Added (+)	
Barite Added (+)	
Other Product Usage (+)	
Water Added (+)	
Left on Cuttings (-)	-9.4
Evap & Centrifuge	
Non-Recoverable Vol. (-)	-10.3
Est. Total on Location	3570.1
Est. Losses/Gains (-)/(+)	0.0

BIT HYDRAULICS DATA

Bit H.S.I.	Bit ΔP	Nozzles (32nds)		
0.38	59 psi	18	18	18
Bit Impact Force	Nozzle Velocity (ft/sec)	18	18	18
158 lbs	86			

Motor/MWD	Calc. Circ. Pressure
2,500 psi	4,498 psi

Afternoon Remarks/Recommendations:

Pump 10 bbl sweep every 300 ft. Sweep Contains: 10 ppb

CalCarb Medium, 10 ppb Newphalt and 10 ppb Magnafiber fine

Afternoon Rig Activity:

Drilling 6-3/4" lateral hole section. Samples at 14700 showed 90% Austin Chalk and 10% Shale. Maintain mud wt at 9.0 ppg. Maintain the HTHP to <5 with additions of OPTI-G. Pumping 10 bbls LCM sweep every 300' or as needed. Running mud chiller system MWD Temperature 275 degrees F. Running the centrifuge as needed to maintain the mud wt.

03/19/21 **Report #14**

110 Old Market St.
St Martinville, LA 70582
TEL: (337) 394-1078

OUTSOURCE FLUID SOLUTIONS LLC.

93.3° **10,728' TVD**

Operator	Contractor	County / Parish / Block	Engineer Start Date	24 hr ftg.	Drilled Depth
MAGNOLIA OIL & GAS	**PATTERSON**	**WASHINGTON**	**01/16/21**	**633 ft**	**15,207 ft**
Well Name and No.	Rig Name and No.	State	Spud Date	Current ROP	Activity
SABINE D 4-H ST01	**248**	**TEXAS**	**01/16/21**	**0 ft/hr**	**Wiper Trip**
Report for	Report for	Field / OCS-G #	Fluid Type	Circulating Rate	Circulating Pressure
Bobby Gwin/ Kevin Burt	**Tool Pusher**	**GIDDIGNS**	**OBM**	**399 gpm**	**3,722 psi**

MUD PROPERTY SPECIFICATIONS							MUD VOLUME (BBL)		PUMP #1		PUMP #2		RISER BOOSTER	
Weight	PV	YP	E.S.	CaCl2	GELS	HTHP	In Pits	740 bbl	Liner Size	4.75	Liner Size	4.75	Liner Size	4.75
8.8-9.8	**5-20**	**4-15**	**>400**	**±290K**	**<10 <15**	**<10**	In Hole	607 bbl	Stroke	12	Stroke	12	Stroke	12
				3/19/21		3/18/21	Active	1339 bbl	bbl/stk	0.0625	bbl/stk	0.0625	bbl/stk	0.0625
Time Sample Taken				3:00		11:00	Storage	2312 bbl	stk/min	76	stk/min	76	stk/min	0
Sample Location				suction		shaker	Tot. on Location	3659 bbl	gal/min	199	gal/min	199	gal/min	0
Flowline Temperature °F				104 °F		110 °F	PHHP = 866		CIRCULATION DATA				n = 0.646	K = 208.293
Depth (ft)				15,207'		14,783'	Bit Depth = 15,018 '		Washout = 1%		Pump Efficiency = 95%			
Mud Weight (ppg)				9.0		9.0	Drill String Disp.	Volume to Bit 210.7 bbl	Strokes To Bit 3,373		Time To Bit 22 min			
Funnel Vis (sec/qt)			@ 88 °F	54		54		Bottoms Up Vol. 387.8 bbl	BottomsUp Stks 6,209		BottomsUp Time 41 min			
600 rpm				36		41	87.3 bbl	TotalCirc.Vol. 1338.5 bbl	TotalCirc.Stks 21,428		Total Circ. Time 141 min			
300 rpm				23		25	DRILLING ASSEMBLY DATA				SOLIDS CONTROL			
200 rpm				18		17	Tubulars	OD (in.)	ID (in.)	Length	Top	Unit	Screens	Hours
100 rpm				12		12	Drill Pipe	4.500	3.826	12,278'	0'	Shaker 1	200	24.0
6 rpm				6		6	Agitator	5.375	3.000	29'	12,278'	Shaker 2	200	24.0
3 rpm				5		5	Drill Pipe	4.500	3.826	2,378'	12,307'	Shaker 3	200	24.0
Plastic Viscosity (cp)			@ 150 °F	13		16	Dir. BHA	5.250	2.500	333'	14,685'			
Yield Point (lb/100 ft²)			T0 = 4	10		9	CASING & HOLE DATA							
Gel Strength (lb/100 ft²)			10 sec/10 min	6/11		6/10	Casing	OD (in.)	ID (in.)	Depth	Top	Centrifuge 1	NOV	2.0
Gel Strength (lb/100 ft^2)			30 min	13		13	Riser					VOLUME ACCOUNTING (bbls)		
HTHP Filtrate (cm/30 min)			@ 300 °F	4.4		4.0	Surface	10 3/4		2,906'	0'	Prev. Total on Location		3589.9
HTHP Cake Thickness (32nds)				2.0		2.0	Int. Csg.	7 5/8	6.875	10,148'	0'	Transferred In(+)/Out(-)		
Retort Solids Content				9.9%		10%						Oil Added (+)		82.6
Corrected Solids (vol%)				7.7%		7.6%						Barite Added (+)		0.0
Retort Oil Content				68.3%		67%	Open Hole Size		6.818	15,207'		Other Product Usage (+)		10.6
Retort Water Content				21.8%		23%	ANNULAR GEOMETRY & RHEOLOGY					Water Added (+)		
O/W Ratio				76:24		74:26	annular section	meas. depth	velocity ft/min	flow reg	ECD lb/gal	Left on Cuttings (-)		-20.0
Whole Mud Chlorides (mg/L)				55,000		59,000						Evap & Centrifuge		-4.1
Water Phase Salinity (ppm)				283,471		286,859						Non-Recoverable Vol. (-)		
Whole Mud Alkalinity, Pom				2.8		3.0	6.875x4.5	10,148'	361.8	turb	9.90	Est. Total on Location		3659.0
Excess Lime (lb/bbl)				3.6 ppb		3.9 ppb	6.818x4.5	12,278'	372.6	turb	10.04	Est. Losses/Gains (-)/(+)		0.0
Electrical Stability (volts)				478 v		506 v	6.818x5.375	12,307'	555.5	turb	10.05	BIT HYDRAULICS DATA		
Average Specific Gravity of Solids				2.64		2.55	6.818x4.5	14,685'	372.6	turb	10.25	Bit H.S.I.	Bit ΔP	Nozzles (32nds)
Percent Low Gravity Solids				6.4%		6.7%	6.818x5.25	15,018'	516.5	turb	10.34	0.39	59 psi	18 18 18
ppb Low Gravity Solids				53 ppb		55 ppb						Bit Impact Force	Nozzle Velocity (ft/sec)	18 18 18
Percent Barite				1.2%		0.9%								
ppb Barite				18 ppb		13 ppb	BIT DATA		Manuf./Type		GTD64M	160 lbs	86	
Estimated Total LCM in System			ppb				Size	Depth In	Hours	Footage	ROP ft/hr	Motor/MWD	Calc. Circ. Pressure	
Sample Taken By				R. Bowlin	0	M.Meehan	6 3/4	10,920 ft	86.0	5,139 ft	59.8	1,700 psi	3,879 psi	

Remarks/Recommendations:

OBM RECEIVED: 3484 bbls / OBM RETURNED: 0

OBM LOSSES: (- bbls DAY) / (-258bbls Cumulative)

OBM on surface: 2312bbls (Storage) / 740bbls (Active pits)

SWEEP: 10ppb (2-MagmafiberF / 4-CalCarb M / 4-Newphalt)

Rig Activity:

Over the past 24 hours completed sidetracking the wellbore achieving separation from the previous wellbore. Maintained active density at 8.9-9.0ppg with diesel dilutions, no drill H2O over the past 24 hours. Minimal chemical treatments have been made to maintain the drilling fluid within the recommended parameters. Resumed pumping 10bbl LCM laden sweeps every 300' drilled down. At the time of the am report drilled to 15,207'MD. Currently making a 3 stand wiper trip due to poor ROP.

Eng. 1:	Eng. 2:	WH 1:	WH 2:	Rig Phone:	Daily Total	Cumulative Cost
Matt Meehan	Rob Bowlin	MIDLAND	WH #2	
Phone: 985-351-7561	Phone: 228-990-1055	Phone: 432-686-7361	Phone: -			
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.				**$593.68**	**$90,632.07**
					INCLUDING 3RD PARTY CHARGES	**$8,539.98**	**$165,065.87**

03/20/21 **Report #15**

110 Old Market St.
St Martinville, LA 70582
TEL: (337) 394-1078

OUTSOURCE FLUID SOLUTIONS LLC.

87.9° **10,605' TVD**

Operator	Contractor	County / Parish / Block	Engineer Start Date	24 hr ftg.	Drilled Depth
MAGNOLIA OIL & GAS	**PATTERSON**	**WASHINGTON**	**01/16/21**	**3 ft**	**15,210 ft**
Well Name and No.	Rig Name and No.	State	Spud Date	Current ROP	Activity
SABINE D 4-H ST01	**248**	**TEXAS**	**01/16/21**		**Survey**
Report for	Report for	Field / OCS-G #	Fluid Type	Circulating Rate	Circulating Pressure
Bobby Gwin/ Kevin Burt	**Tool Pusher**	**GIDDIGNS**	**OBM**	**197 gpm**	

MUD PROPERTY SPECIFICATIONS							MUD VOLUME (BBL)		PUMP #1		PUMP #2		RISER BOOSTER	
Weight	PV	YP	E.S.	CaCl2	GELS	HTHP	In Pits	745 bbl	Liner Size	4.75	Liner Size	4.75	Liner Size	4.75
8.8-9.8	**5-20**	**4-15**	**>400**	**±290K**	**<10 <15**	**<10**	In Hole	626 bbl	Stroke	12	Stroke	12	Stroke	12
				3/20/21		3/19/21	Active	1207 bbl	bbl/stk	0.0625	bbl/stk	0.0625	bbl/stk	0.0625
Time Sample Taken				2:00		11:00	Storage	2300 bbl	stk/min	75	stk/min		stk/min	0
Sample Location				suction		shaker	Tot. on Location	3671 bbl	gal/min	197	gal/min	0	gal/min	0
Flowline Temperature °F							PHHP = 0		**CIRCULATION DATA**				n = 0.646	K = 208.293
Depth (ft)				15,210'		15,210'	Bit Depth = 11,573 '		Washout = 1%				Pump Efficiency = 95%	
Mud Weight (ppg)				9.3		9.0	Drill String Disp.	Volume to Bit 161.7 bbl		Strokes To Bit 2,589			Time To Bit 35 min	
Funnel Vis (sec/qt)			@ 78 °F	59		55		Bottoms Up Vol. 300.0 bbl		BottomsUp Stks 4,803			BottomsUp Time 64 min	
600 rpm				36		38	68.6 bbl	TotalCirc.Vol. 1206.7 bbl		TotalCirc.Stks 19,318			Total Circ. Time 258 min	
300 rpm				23		24	**DRILLING ASSEMBLY DATA**						**SOLIDS CONTROL**	
200 rpm				17		18	Tubulars	OD (in.)	ID (in.)	Length	Top		Unit	Screens	Hours
100 rpm				12		12	Drill Pipe	4.500	3.826	8,833'	0'		Shaker 1	200	24.0
6 rpm				6		6	Agitator	5.375	3.000	29'	8,833'		Shaker 2	200	24.0
3 rpm				5		5	Drill Pipe	4.500	3.826	2,378'	8,862'		Shaker 3	200	24.0
Plastic Viscosity (cp)			@ 150 °F	13		14	Dir. BHA	5.250	2.500	333'	11,240'				
Yield Point (lb/100 ft²)			T0 = 4	10		10	**CASING & HOLE DATA**								
Gel Strength (lb/100 ft²)			10 sec/10 min	6/11		6/10	Casing	OD (in.)	ID (in.)	Depth	Top		Centrifuge 1	NOV	
Gel Strength (lb/100 ft^2)			30 min	13		13	Riser						**VOLUME ACCOUNTING (bbls)**		
HTHP Filtrate (cm/30 min)			@ 300 °F	4.4		4.0	Surface	10 3/4		2,906'	0'		Prev. Total on Location		3659.0
HTHP Cake Thickness (32nds)				2.0		2.0	Int. Csg.	7 5/8	6.875	10,148'	0'		Transferred In(+)/Out(-)		
Retort Solids Content				11%		10%							Oil Added (+)		24.8
Corrected Solids (vol%)				8.8%		7.8%							Barite Added (+)		0.0
Retort Oil Content				67%		68%	Open Hole Size		6.818	15,210'			Other Product Usage (+)		0.0
Retort Water Content				22%		22%	**ANNULAR GEOMETRY & RHEOLOGY**						Water Added (+)		
O/W Ratio				75:25		76:24	annular section	meas. depth	velocity ft/min	flow reg	ECD lb/gal		Left on Cuttings (-)		-0.1
Whole Mud Chlorides (mg/L)				55,000		56,000							Evap & Centrifuge		
Water Phase Salinity (ppm)				281,620		285,280							Seepage Surge PSI		-12.7
Whole Mud Alkalinity, Pom				2.2		2.7	6.875x4.5	8,833'	178.5	lam	9.77		Est. Total on Location		3671.0
Excess Lime (lb/bbl)				2.9 ppb		3.5 ppb	6.875x5.375	8,862'	262.5	lam	9.77		Est. Losses/Gains (-)/(+)		0.0
Electrical Stability (volts)				481 v		498 v	6.875x4.5	10,148'	178.5	lam	9.77		**BIT HYDRAULICS DATA**		
Average Specific Gravity of Solids				2.82		2.59	6.818x4.5	11,240'	183.8	lam	9.79		Bit H.S.I.	Bit ΔP	Nozzles (32nds)
Percent Low Gravity Solids				6.4%		6.7%	6.818x5.25	11,573'	254.9	lam	9.81		0.05	15 psi	18 18 18
ppb Low Gravity Solids				53 ppb		55 ppb							Bit Impact Force	Nozzle Velocity (ft/sec)	18 18 18
Percent Barite				2.3%		1.1%									
ppb Barite				33 ppb		16 ppb	**BIT DATA**		Manuf./Type		U613S		40 lbs	42	
Estimated Total LCM in System			ppb				Size	Depth In	Hours	Footage	ROP ft/hr		Motor/MWD	Calc. Circ. Pressure	
Sample Taken By				R. Bowlin	0	M.Meehan	6 3/4	15,210 ft	0.0	0 ft	#DIV/0!			640 psi	

Remarks/Recommendations:

OBM RECEIVED: 3484 bbls / OBM RETURNED: 0

OBM LOSSES: (- bbls DAY) / (-258bbls Cumulative)

OBM on surface: 2300bbls (Storage) / 745bbls (Active pits)

SWEEP: 10ppb (2-MagmafiberF / 4-CalCarb M / 4-Newphalt)

Rig Activity:

Over the past 24 hours Patterson 248 has wash and ream out of the hole to the shoe at 10,148'MD. At this depth spotted 50bbls of 16.0ppg kill mud with no SICP and the well flowing at 2BPH. From 10,148'MD striped out to the top of the kill mud at 9,009'MD, observed zero flow or SICP and continued to TOOH conventionally. LD BHA #5 and PU BHA #6, performed surface tests and TIH to 9,024'MD slip and cut. TIH to 11,330'MD and circulated out the mud cap. Began diverting to the open tops at 11ppg highest MW out at 14.3ppg, diverted for reuse 76bbls total. At the time of the am report TIH at 11,572'MD currently pumping up a survey.

Eng. 1:	Eng. 2:	WH 1:	WH 2:	Rig Phone:	Daily Total	Cumulative Cost
Matt Meehan	Rob Bowlin	MIDLAND	WH #2	
Phone: 985-351-7561	Phone: 228-990-1055	Phone: 432-686-7361	Phone: -		**$1,910.00**	**$92,542.07**

W 1 P 1 Y 1 E 1 C 1 g 1 G 1 H 1 O 1

INCLUDING 3RD PARTY CHARGES	**$4,387.60**	**$169,453.47**

3/20/2021 **Report 15 pm**

110 Old Market St.
St Martinville, LA 70582

TEL: (337) 394-1078

93.2° **10,712' TVD**

Operator	Contractor	County / Parish / Block	Engineer Start Date	24 hr ftg.	Drilled Depth
MAGNOLIA OIL & GAS	**PATTERSON**	**WASHINGTON**	**01/16/21**	**84 ft**	**15,294 ft**
Well Name and No.	Rig Name and No.	State	Spud Date	Current ROP	Activity
SABINE D 4-H ST01	**248**	**TEXAS**	**01/16/21**	**45 ft/hr**	**Drilling**
Report for	Report for	Field / OSC-G #	Fluid Type	Circulating Rate	Circulating Pressure
Bobby Gwin/ Kevin Burt	**Tool Pusher**	**GIDDIGNS**	**OBM**	**394 gpm**	**4,218 psi**

MUD PROPERTY SPECIFICATIONS

Weight	PV	YP	E.S.	CaCl2	GELS	HTHP
8.8-9.8	**5-20**	**4-15**	**>400**	**±290K**	**<10 <15**	**<10**

MUD PROPERTIES				
Time Sample Taken		2:00		11:00
Sample Location		suction		shaker
Flowline Temperature °F				110 °F
Depth (ft)		15,210'		15,294'
Mud Weight (ppg)		9.3		9.0
Funnel Vis (sec/qt)	@ 78 °F	59		54
600 rpm		36		39
300 rpm		23		24
200 rpm		17		18
100 rpm		12		12
6 rpm		6		6
3 rpm		5		5
Plastic Viscosity (cp)	@ 150 °F	13		15
Yield Point (lb/100 ft²)	T0 = 4	10		9
Gel Strength (lb/100 ft²)	10 sec / 10 min	6/11		6/10
Gel Strength (lb/100 ft2)	30 min	13		13
HTHP Filtrate (cm/30 min)	@ 300 °F	4.4		4.4
HTHP Cake Thickness (32nds)		2.0		2.0
Retort Solids Content		11%		10%
Corrected Solids (vol%)		8.8%		7.7%
Retort Oil Content		67%		68%
Retort Water Content		22%		22%
O/W Ratio		75:25		76:24
Whole Mud Chlorides (mg/L)		55,000		57,000
Water Phase Salinity (ppm)		281,620		288,902
Whole Mud Alkalinity, Pom		2.2		2.5
Excess Lime (lb/bbl)		2.9 ppb		3.3 ppb
Electrical Stability (volts)		481 v		470 v
Average Specific Gravity of Solids		2.82		2.59
Percent Low Gravity Solids		6.4%		6.6%
ppb Low Gravity Solids		53 ppb		55 ppb
Percent Barite		2.3%		1.1%
ppb Barite		33 ppb		15 ppb
Estimated Total LCM in System				
Sample Taken By		R. Bowlin		M.Meehan

MUD VOLUME (BBL)

In Pits	747 bbl
In Hole	609 bbl
Active	1356 bbl
Storage	2300 bbl
Tot. on Location	3656 bbl

PUMP #1

Liner Size	4.75
Stroke	12
bbl/stk	0.0625
stk/min	75
gal/min	197

PUMP #2

Liner Size	4.75
Stroke	12
bbl/stk	0.0625
stk/min	75
gal/min	197

RISER BOOSTER

Liner Size	4.75
Stroke	12
bbl/stk	0.0625
stk/min	
gal/min	

Mud Wt. = 9.3 PV=13 YP=10 **CIRCULATION DATA** n = 0.646 K = 208.3

Bit Depth = 15,294 ' | Washout = 1% | Pump Efficiency = 95%

Drill String Disp.							
88.9 bbl	Volume to Bit	214.6 bbl	Strokes To Bit	3,436	Time To Bit	23 min
	Bottoms Up Vol.	394.9 bbl	BottomsUp Stks	6,321	BottomsUp Time	42 min
	TotalCirc.Vol.	1356.5 bbl	TotalCirc.Stks	21,715	Total Circ. Time	145 min

DRILLING ASSEMBLY DATA

Tubulars	OD (in.)	ID (in.)	Length	Top
Drill Pipe	4.500	3.826	12,554'	
Agitator	5.375	3.000	29'	12,554'
Drill Pipe	4.500	3.826	2,378'	12,583'
Dir. BHA	5.250	2.500	333'	14,961'

CASING & HOLE DATA

Casing	OD (in.)	ID (in.)	Depth	Top
Riser				
Surface	10 3/4		2,906'	
Int. Csg.	7 5/8	6.875	10,148'	
Open Hole Size	6.818		15,294'	

ANNULAR GEOMETRY & RHEOLOGY

annular section	depth	velocity ft/min	flow reg	ECD lb/gal
6.875x4.5	10,148'	357.0	turb	10.24
6.818x4.5	12,554'	367.7	turb	10.44
6.818x5.375	12,583'	548.2	turb	10.48
6.818x4.5	14,961'	367.7	turb	10.72
6.818x5.25	15,294'	509.7	turb	10.85

BIT DATA Manuf./Type U613S

Size	Depth In	Hours	Footage	ROP ft/hr
6 3/4	15,210 ft	2.0	84 ft	42.0

SOLIDS CONTROL

Unit	Screens	Hours
Shaker 1	200	6.0
Shaker 2	200	6.0
Shaker 3	200	6.0
Centrifuge 1	NOV	3.0

VOLUME ACCOUNTING (bbls)

Prev. Total on Location	3671.0
Transferred In(+)/Out(-)	
Oil Added (+)	
Barite Added (+)	
Other Product Usage (+)	
Water Added (+)	
Left on Cuttings (-)	-3.8
Evap & Centrifuge	-10.7
Seepage Surge PSI	
Est. Total on Location	3656.5
Est. Losses/Gains (-)/(+)	0.0

BIT HYDRAULICS DATA

Bit H.S.I.	Bit ΔP	Nozzles (32nds)		
0.38	60 psi	18	18	18
Bit Impact Force	Nozzle Velocity (ft/sec)	18	18	18
161 lbs	85			

Motor/MWD	Calc. Circ. Pressure
2,000 psi	4,218 psi

Afternoon Remarks/Recommendations:

Pump 10 bbl sweep every 300 ft. Sweep Contains: 10 ppb

CalCarb Medium, 10 ppb Newphalt and 10 ppb Magnafiber fine

Afternoon Rig Activity:

RIH to 14500 ft. Wash and ream to bottom. Drilling ahead and sliding as needed to maintain the angle in the lateral hole section. Pumping a 10 bbl LCM sweep every 300 ft. Reduced the mud wt. from 9.3 ppg to 9.0 ppg through use of the centrifuge and additions of diesel. Maximum gas at B/U was 3381 units. Making additions of Lime to increase the alkalinity. Maintaining the rheology with additions of Bentone 38 and Bentone 990. Maintaining the chlorides with additions of CaCL2. Max temp at the MWD is 293 degrees.

03/21/21 **Report #16**

110 Old Market St.
St Martinville, LA 70582
TEL: (337) 394-1078

OUTSOURCE FLUID SOLUTIONS LLC.

82.3° **10,830' TVD**

Operator	Contractor	County / Parish / Block	Engineer Start Date	24 hr ftg.	Drilled Depth
MAGNOLIA OIL & GAS	**PATTERSON**	**WASHINGTON**	**01/16/21**	**1,228 ft**	**16,438 ft**
Well Name and No.	Rig Name and No.	State	Spud Date	Current ROP	Activity
SABINE D 4-H ST01	**248**	**TEXAS**	**01/16/21**	**197 ft/hr**	**Drilling**
Report for	Report for	Field / OCS-G #	Fluid Type	Circulating Rate	Circulating Pressure
Bobby Gwin/ Kevin Burt	**Tool Pusher**	**GIDDIGNS**	**OBM**	**299 gpm**	**3,379 psi**

MUD PROPERTY SPECIFICATIONS

Weight	PV	YP	E.S.	CaCl2	GELS	HTHP
8.8-9.8	**5-20**	**4-15**	**>400**	**±290K**	**<10 <15**	**<10**
				3/21/21		3/20/21
Time Sample Taken				2:00		11:00
Sample Location				suction		shaker
Flowline Temperature °F				90 °F		110 °F
Depth (ft)				16,290'		15,294'
Mud Weight (ppg)				8.8		9.0
Funnel Vis (sec/qt)			@ 72 °F	51		54
600 rpm				24		39
300 rpm				16		24
200 rpm				12		18
100 rpm				10		12
6 rpm				5		6
3 rpm				4		5
Plastic Viscosity (cp)			@ 150 °F	8		15
Yield Point (lb/100 ft²)			T0 = 3	8		9
Gel Strength (lb/100 ft²)			10 sec/10 min	4/9		6/10
Gel Strength (lb/100 ft^2)			30 min	10		13
HTHP Filtrate (cm/30 min)			@ 300 °F	5.2		4.4
HTHP Cake Thickness (32nds)				2.0		2.0
Retort Solids Content				8.7%		10%
Corrected Solids (vol%)				6.5%		7.7%
Retort Oil Content				69.5%		68%
Retort Water Content				21.8%		22%
O/W Ratio				76:24		76:24
Whole Mud Chlorides (mg/L)				54,000		57,000
Water Phase Salinity (ppm)				279,759		288,902
Whole Mud Alkalinity, Pom				2.4		2.5
Excess Lime (lb/bbl)				3.1 ppb		3.3 ppb
Electrical Stability (volts)				493 v		470 v
Average Specific Gravity of Solids				2.60		2.59
Percent Low Gravity Solids				5.6%		6.6%
ppb Low Gravity Solids				46 ppb		55 ppb
Percent Barite				0.9%		1.1%
ppb Barite				13 ppb		15 ppb
Estimated Total LCM in System			ppb			
Sample Taken By				R. Bowlin	0	M.Meehan

MUD VOLUME (BBL)

In Pits	668 bbl
In Hole	655 bbl
Active	1323 bbl
Storage	2296 bbl
Tot. on Location	3619 bbl

PUMP #1

Liner Size	4.75
Stroke	12
bbl/stk	0.0625
stk/min	57
gal/min	150

PUMP #2

Liner Size	4.75
Stroke	12
bbl/stk	0.0625
stk/min	57
gal/min	150

RISER BOOSTER

Liner Size	4.75
Stroke	12
bbl/stk	0.0625
stk/min	0
gal/min	0

CIRCULATION DATA

PHHP = 590 n = 0.585 K = 212.503

Bit Depth = 16,438 ' Washout = 1% Pump Efficiency = 95%

Drill String Disp.					
95.1 bbl	Volume to Bit	230.9 bbl	Strokes To Bit	3,696	Time To Bit 32 min
	Bottoms Up Vol.	424.0 bbl	BottomsUp Stks	6,788	BottomsUp Time 60 min
	TotalCirc.Vol.	1322.9 bbl	TotalCirc.Stks	21,178	Total Circ. Time 186 min

DRILLING ASSEMBLY DATA

Tubulars	OD (in.)	ID (in.)	Length	Top
Drill Pipe	4.500	3.826	13,698'	0'
Agitator	5.375	3.000	29'	13,698'
Drill Pipe	4.500	3.826	2,378'	13,727'
Dir. BHA	5.250	2.500	333'	16,105'

CASING & HOLE DATA

Casing	OD (in.)	ID (in.)	Depth	Top
Riser				
Surface	10 3/4		2,906'	0'
Int. Csg.	7 5/8	6.875	10,148'	0'
Open Hole Size		6.818	16,438'	

ANNULAR GEOMETRY & RHEOLOGY

annular section	meas. depth	velocity ft/min	flow reg	ECD lb/gal
6.875x4.5	10,148'	271.3	turb	9.50
6.818x4.5	13,698'	279.4	turb	9.85
6.818x5.375	13,727'	416.6	turb	10.08
6.818x4.5	16,105'	279.4	turb	10.40
6.818x5.25	16,438'	387.4	turb	10.67

BIT DATA Manuf./Type U613S

Size	Depth In	Hours	Footage	ROP ft/hr
6 3/4	15,210 ft	18.0	1,228 ft	68.2

SOLIDS CONTROL

Unit	Screens	Hours
Shaker 1	200	24.0
Shaker 2	200	24.0
Shaker 3	200	24.0
Centrifuge 1	NOV	10.0

VOLUME ACCOUNTING (bbls)

Prev. Total on Location	3671.0
Transferred In(+)/Out(-)	
Oil Added (+)	212.0
Barite Added (+)	0.0
Other Product Usage (+)	12.2
Water Added (+)	
Left on Cuttings (-)	-44.4
Evap & Centrifuge	-35.0
Partial Losses	-196.9
Est. Total on Location	3618.9
Est. Losses/Gains (-)/(+)	0.0

BIT HYDRAULICS DATA

Bit H.S.I.	Bit ΔP	Nozzles (32nds)		
0.16	33 psi	18	18	18
Bit Impact Force	Nozzle Velocity (ft/sec)	18	18	18
88 lbs	64			

Motor/MWD	Calc. Circ. Pressure
2,050 psi	3,295 psi

Remarks/Recommendations:

OBM RECEIVED: 3484 bbls / OBM RETURNED: 0

OBM LOSSES: (- 40bbls DAY) / (-298bbls Cumulative)

OBM on surface: 2300bbls (Storage) / 668bbls (Active pits)

Rig Activity:

Finish TIH worked the BHA through the sidetrack pumps off and pumped up a survey to confirm reentry into the sidetrack. Drill/ Slide from 15,210'MD to 16,438'MD. Pumping 10bbl/10ppb LCM laden sweeps every 300' drilled down. Maintaining active density at 9.0ppg. At 15,800'MD began to observe partial losses at 36bph, proactively began background LCM additions of First Response and Ultimix CalCarb at 5sx each every 15 min in the suction. Decreased the active density from 9.0ppg to 8.8ppg and slowed the pumps to 352GPM losses decreased to 20-25BPH once an 8.85 was back to surface. Increased the sweep frequency to 10bbls every stand. At the time of the am report observed losses at 23BPH at 300GPM.

Eng. 1:	Matt Meehan	Eng. 2:	Rob Bowlin	WH 1:	MIDLAND	WH 2:	WH #2	Rig Phone:
Phone:	985-351-7561	Phone:	228-990-1055	Phone:	432-686-7361	Phone:	-	

W	P	Y	E	C	g	G	H	O
1	1	1	1	0	1	1	1	1

	Daily Total	Cumulative Cost
	$8,421.92	**$100,963.99**
INCLUDING 3RD PARTY CHARGES	**$34,800.87**	**$204,254.34**

3/21/2021 **Report 16 pm**

110 Old Market St.
St Martinville, LA 70582

TEL: (337) 394-1078

79.2° **10,889' TVD**

Operator	Contractor	County / Parish / Block	Engineer Start Date	24 hr ftg.	Drilled Depth
MAGNOLIA OIL & GAS	**PATTERSON**	**WASHINGTON**	**01/16/21**	**382 ft**	**16,820 ft**
Well Name and No.	Rig Name and No.	State	Spud Date	Current ROP	Activity
SABINE D 4-H ST01	**248**	**TEXAS**	**01/16/21**		**Circulate**
Report for	Report for	Field / OSC-G #	Fluid Type	Circulating Rate	Circulating Pressure
Bobby Gwin/ Kevin Burt	**Tool Pusher**	**GIDDIGNS**	**OBM**	**289 gpm**	**2,994 psi**

MUD PROPERTY SPECIFICATIONS						
Weight	PV	YP	E.S.	CaCl2	GELS	HTHP
8.8-9.8	**5-20**	**4-15**	**>400**	**±290K**	**<10 <15**	**<10**

MUD PROPERTIES				
Time Sample Taken		2:00		11:00
Sample Location		suction		shaker
Flowline Temperature °F		90 °F		100 °F
Depth (ft)		16,290'		16,820'
Mud Weight (ppg)		8.8		9.0
Funnel Vis (sec/qt)	@ 72 °F	51		53
600 rpm		24		29
300 rpm		16		19
200 rpm		12		13
100 rpm		10		11
6 rpm		5		5
3 rpm		4		4
Plastic Viscosity (cp)	@ 150 °F	8		10
Yield Point (lb/100 ft²)	T0 = 3	8		9
Gel Strength (lb/100 ft²)	10 sec / 10 min	4/9		5/9
Gel Strength (lb/100 ft2)	30 min	10		12
HTHP Filtrate (cm/30 min)	@ 300 °F	5.2		5.2
HTHP Cake Thickness (32nds)		2.0		2.0
Retort Solids Content		8.7%		9.5%
Corrected Solids (vol%)		6.5%		7.3%
Retort Oil Content		69.5%		68.5%
Retort Water Content		21.8%		22%
O/W Ratio		76:24		76:24
Whole Mud Chlorides (mg/L)		54,000		56,000
Water Phase Salinity (ppm)		279,759		285,280
Whole Mud Alkalinity, Pom		2.4		2.2
Excess Lime (lb/bbl)		3.1 ppb		2.9 ppb
Electrical Stability (volts)		493 v		473 v
Average Specific Gravity of Solids		2.60		2.72
Percent Low Gravity Solids		5.6%		5.7%
ppb Low Gravity Solids		46 ppb		47 ppb
Percent Barite		0.9%		1.5%
ppb Barite		13 ppb		22 ppb
Estimated Total LCM in System				
Sample Taken By		R. Bowlin		M.Meehan

MUD VOLUME (BBL)		PUMP #1		PUMP #2		RISER BOOSTER	
In Pits	668 bbl	Liner Size	4.75	Liner Size	4.75	Liner Size	4.75
In Hole	670 bbl	Stroke	12	Stroke	12	Stroke	12
Active	1338 bbl	bbl/stk	0.0625	bbl/stk	0.0625	bbl/stk	0.0625
Storage	1986 bbl	stk/min	56	stk/min	54	stk/min	
Tot. on Location	3324 bbl	gal/min	147	gal/min	142	gal/min	

Mud Wt. = 8.8 PV=8 YP=8 **CIRCULATION DATA** n = 0.585 K = 212.5

Bit Depth = 16,820 ' Washout = 1% Pump Efficiency = 95%

Drill String Disp.							
97.2 bbl	Volume to Bit	236.3 bbl	Strokes To Bit	3,783	Time To Bit	34 min
	Bottoms Up Vol.	433.8 bbl	BottomsUp Stks	6,944	BottomsUp Time	63 min
	TotalCirc.Vol.	1338.1 bbl	TotalCirc.Stks	21,421	Total Circ. Time	195 min

DRILLING ASSEMBLY DATA

Tubulars	OD (in.)	ID (in.)	Length	Top
Drill Pipe	4.500	3.826	14,080'	
Agitator	5.375	3.000	29'	14,080'
Drill Pipe	4.500	3.826	2,378'	14,109'
Dir. BHA	5.250	2.500	333'	16,487'

CASING & HOLE DATA

Casing	OD (in.)	ID (in.)	Depth	Top
Riser				
Surface	10 3/4		2,906'	
Int. Csg.	7 5/8	6.875	10,148'	
Open Hole Size	6.818		16,820'	

ANNULAR GEOMETRY & RHEOLOGY

annular section	depth	velocity ft/min	flow reg	ECD lb/gal
6.875x4.5	10,148'	261.8	turb	9.25
6.818x4.5	14,080'	269.6	turb	9.39
6.818x5.375	14,109'	402.0	turb	9.39
6.818x4.5	16,487'	269.6	turb	9.49
6.818x5.25	16,820'	373.8	turb	9.53

BIT DATA Manuf./Type U613S

Size	Depth In	Hours	Footage	ROP ft/hr
6 3/4	15,210 ft	28.0	1,610 ft	57.5

SOLIDS CONTROL

Unit	Screens	Hours
Shaker 1	200	12.0
Shaker 2	200	12.0
Shaker 3	200	12.0
Centrifuge 1	NOV	4.0

VOLUME ACCOUNTING (bbls)

Prev. Total on Location	3618.9
Transferred In(+)/Out(-)	
Oil Added (+)	61.7
Barite Added (+)	
Other Product Usage (+)	
Water Added (+)	
Left on Cuttings (-)	-13.8
Evap & Centrifuge	-22.7
Lost Returns (-)	-320.0
Est. Total on Location	3324.1
Est. Losses/Gains (-)/(+)	0.0

BIT HYDRAULICS DATA

Bit H.S.I.	Bit ΔP	Nozzles (32nds)		
0.14	30 psi	18	18	18
Bit Impact Force	Nozzle Velocity (ft/sec)	18	18	18
82 lbs	62			

Motor/MWD	Calc. Circ. Pressure
1,800 psi	2,994 psi

Afternoon Remarks/Recommendations:

Pump 10 bbl sweep every 300 ft. Sweep Contains: 10 ppb

CalCarb Medium, 10 ppb Newphalt and 10 ppb Magnafiber fine

Afternoon Rig Activity:

Drilling ahead in the lateral section to TD at 16820 ft. Pumped a series of three 30 bbl LCM sweeps and are circulating the hole clean. At 16720 gas increased to 3964 units. Circulated and raised the mud wt. to 9.0 ppg. Continued drilling to TD. Losses averaged 35 bbl per hour. Current loss rate is 20 bbl per hour. Adding 5 sacks per hour Newcarb, Newphalt, First Response and Syn Seal to the system. Maintaining the alkalinity with additions of Lime. Lowering the HTHP with additions of Opti-G. Maintaining the Rheology with additions of Bentone 38 and Bentone 990.

03/22/21 **Report #17**

110 Old Market St.
St Martinville, LA 70582
TEL: (337) 394-1078

OUTSOURCE FLUID SOLUTIONS LLC.

15.5° **3,337' TVD**

Operator	Contractor	County / Parish / Block	Engineer Start Date	24 hr ftg.	Drilled Depth
MAGNOLIA OIL & GAS	**PATTERSON**	**WASHINGTON**	**01/16/21**	**382 ft**	**16,820 ft**
Well Name and No.	Rig Name and No.	State	Spud Date	Current ROP	Activity
SABINE D 4-H ST01	**248**	**TEXAS**	**01/16/21**		**TOOH/LDDP**
Report for	Report for	Field / OCS-G #	Fluid Type	Circulating Rate	Circulating Pressure
Bobby Gwin/ Kevin Burt	**Tool Pusher**	**GIDDIGNS**	**OBM**	**0 gpm**	**psi**

MUD PROPERTY SPECIFICATIONS

Weight	PV	YP	E.S.	CaCl2	GELS	HTHP
8.8-9.8	**5-20**	**4-15**	**>400**	**±290K**	**<10 <15**	**<10**
				3/22/21		3/21/21
Time Sample Taken				2:00		11:00
Sample Location				suction		shaker
Flowline Temperature °F						100 °F
Depth (ft)				16,820'		16,820'
Mud Weight (ppg)				9.2		9.0
Funnel Vis (sec/qt)			@ 70 °F	55		53
600 rpm				28		29
300 rpm				19		19
200 rpm				14		13
100 rpm				11		11
6 rpm				5		5
3 rpm				4		4
Plastic Viscosity (cp)			@ 150 °F	9		10
Yield Point (lb/100 ft²)			T0 = 3	10		9
Gel Strength (lb/100 ft²)			10 sec/10 min	5/11		5/9
Gel Strength (lb/100 ft^2)			30 min	13		12
HTHP Filtrate (cm/30 min)			@ 300 °F	4.8		5.2
HTHP Cake Thickness (32nds)				2.0		2.0
Retort Solids Content				10.3%		9.5%
Corrected Solids (vol%)				8%		7.3%
Retort Oil Content				67.7%		68.5%
Retort Water Content				22%		22%
O/W Ratio				75:25		76:24
Whole Mud Chlorides (mg/L)				57,000		56,000
Water Phase Salinity (ppm)				288,902		285,280
Whole Mud Alkalinity, Pom				1.8		2.2
Excess Lime (lb/bbl)				2.3 ppb		2.9 ppb
Electrical Stability (volts)				480 v		473 v
Average Specific Gravity of Solids				2.83		2.72
Percent Low Gravity Solids				5.8%		5.7%
ppb Low Gravity Solids				47 ppb		47 ppb
Percent Barite				2.2%		1.5%
ppb Barite				32 ppb		22 ppb
Estimated Total LCM in System			ppb			
Sample Taken By				R. Bowlin	0	M.Meehan

MUD VOLUME (BBL)

In Pits	527 bbl
In Hole	743 bbl
Active	658 bbl
Storage	1958 bbl
Tot. on Location	3228 bbl

PUMP #1

Liner Size	4.75
Stroke	12
bbl/stk	0.0625
stk/min	0
gal/min	0

PUMP #2

Liner Size	4.75
Stroke	12
bbl/stk	0.0625
stk/min	0
gal/min	0

RISER BOOSTER

Liner Size	4.75
Stroke	12
bbl/stk	0.0625
stk/min	0
gal/min	0

CIRCULATION DATA

PHHP = 0 n = 0.559 K = 295.909

Bit Depth = 3,377 ' Washout = 1% Pump Efficiency = 95%

Drill String Disp.				
23.9 bbl	Volume to Bit	45.2 bbl	Strokes To Bit	Time To Bit
	Bottoms Up Vol.	86.0 bbl	BottomsUp Stks	BottomsUp Time
	TotalCirc.Vol.	658.2 bbl	TotalCirc.Stks	Total Circ. Time

DRILLING ASSEMBLY DATA

Tubulars	OD (in.)	ID (in.)	Length	Top
Drill Pipe	4.500	3.826	637'	0'
Agitator	5.375	3.000	29'	637'
Drill Pipe	4.500	3.826	2,378'	666'
Dir. BHA	5.250	2.500	333'	3,044'

CASING & HOLE DATA

Casing	OD (in.)	ID (in.)	Depth	Top
Riser				
Surface	10 3/4		2,906'	0'
Int. Csg.	7 5/8	6.875	10,148'	0'
Open Hole Size		6.818	16,820'	

ANNULAR GEOMETRY & RHEOLOGY

annular section	meas. depth	velocity ft/min	flow reg	ECD lb/gal
6.875x4.5	637'	0.0	lam	9.20
6.875x5.375	666'	0.0	lam	9.20
6.875x4.5	3,044'	0.0	lam	9.20
6.875x5.25	3,377'	0.0	lam	9.20

BIT DATA Manuf./Type U613S

Size	Depth In	Hours	Footage	ROP ft/hr
6 3/4	15,210 ft	28.0	1,610 ft	57.5

SOLIDS CONTROL

Unit	Screens	Hours
Shaker 1	200	24.0
Shaker 2	200	24.0
Shaker 3	200	24.0
Centrifuge 1	NOV	4.0

VOLUME ACCOUNTING (bbls)

Prev. Total on Location	3618.9
Transferred In(+)/Out(-)	
Oil Added (+)	61.7
Barite Added (+)	45.6
Other Product Usage (+)	10.0
Water Added (+)	
Left on Cuttings (-)	-13.8
Evap & Centrifuge	-22.7
Lost Returns (-)	-471.3
Est. Total on Location	3228.3
Est. Losses/Gains (-)/(+)	0.0

BIT HYDRAULICS DATA

Bit H.S.I.	Bit ΔP	Nozzles (32nds)		
0.00	psi	18	18	18
Bit Impact Force	Nozzle Velocity (ft/sec)	18	18	18
0 lbs	0			

Motor/MWD	Calc. Circ. Pressure
1,800 psi	

Remarks/Recommendations:

OBM RECEIVED: 3484 bbls / OBM RETURNED: 0

OBM LOSSES: (- 391bbls DAY) / (-689bbls Cumulative)

OBM on surface: 1958bbls (Storage) / 527bbls (Active pits)

Rig Activity:

Drilling F 16,438' T 16,724' with 20-30BPH losses, whereas an influx and observed casing PSI increase to 1300PSI gain of 10-15bbls. Shut well in and circ gas from the well. Increased MW from 8.7ppg T 9.0ppg with a gas cut to 8.3ppg. Resumed drilling, drilled to TD at 16,820' and performed the clean up pump (3) 30bbls sweeps in tandem. After 2.5 BU recorded SICP of 698PSI continued clean up (Max Gas 3380). Recorded SICP at 455PSI. W&R T 14,568' work through the side track pumped a survey. Strip to 10,148' and circ BU, lost 47bbls. Record SICP of 505PSI bled off to 475PSI, spot 116bbls of 16.0ppg Kill mud (Zero SICP). Strip to the top of the mud cap check flow, pumped a slug and TOOH conventionally LDDP at 2,978'MD.

Eng. 1:	Eng. 2:	WH 1:	WH 2:	Rig Phone:
Matt Meehan	Rob Bowlin	MIDLAND	WH #2	
Phone: 985-351-7561	Phone: 228-990-1055	Phone: 432-686-7361	Phone: -	

W	P	Y	E	C	g	G	H	O
1	1	1	1	1	1	1	1	1

	Daily Total	Cumulative Cost
	$38,644.24	**$139,608.23**
INCLUDING 3RD PARTY CHARGES	**$48,085.64**	**$252,339.98**

03/23/21 **Report #18**

110 Old Market St.
St Martinville, LA 70582
TEL: (337) 394-1078

OUTSOURCE FLUID SOLUTIONS LLC.

83.5° **10,707' TVD**

Operator	Contractor	County / Parish / Block	Engineer Start Date	24 hr ftg.	Drilled Depth
MAGNOLIA OIL & GAS	**PATTERSON**	**WASHINGTON**	**01/16/21**		**16,820 ft**
Well Name and No.	Rig Name and No.	State	Spud Date	Current ROP	Activity
SABINE D 4-H ST01	**248**	**TEXAS**	**01/16/21**		**Prod Casing**
Report for	Report for	Field / OCS-G #	Fluid Type	Circulating Rate	Circulating Pressure
Bobby Gwin/ Kevin Burt	**Tool Pusher**	**GIDDIGNS**	**OBM**	**0 gpm**	

MUD PROPERTY SPECIFICATIONS							MUD VOLUME (BBL)		PUMP #1		PUMP #2		RISER BOOSTER	
Weight	PV	YP	E.S.	CaCl2	GELS	HTHP	In Pits	596 bbl	Liner Size	5.25	Liner Size	4.75	Liner Size	4.75
8.8-9.8	**5-20**	**4-15**	**>400**	**±290K**	**<10 <15**	**<10**	In Hole	663 bbl	Stroke	12	Stroke	12	Stroke	12
				3/23/21		3/22/21	Active	1138 bbl	bbl/stk	0.0763	bbl/stk	0.0625	bbl/stk	0.0625
Time Sample Taken				2:00		11:00	Storage	1850 bbl	stk/min		stk/min		stk/min	
Sample Location				suction		shaker	Tot. on Location	3109 bbl	gal/min	0	gal/min	0	gal/min	0
Flowline Temperature °F							PHHP = 0		**CIRCULATION DATA**				n = 0.610	K = 215.795
Depth (ft)				16,820'		16,820'	Bit Depth = 14,136 '		Washout = 1%		Pump Efficiency = 95%			
Mud Weight (ppg)				9.3		9.2	Drill String Disp.	Volume to Bit 275.2 bbl	Strokes To Bit		Time To Bit			
Funnel Vis (sec/qt)		@ 82 °F		54		56		Bottoms Up Vol. 266.8 bbl	BottomsUp Stks		BottomsUp Time			
600 rpm				29		29	104.0 bbl	TotalCirc.Vol. 1138.0 bbl	TotalCirc.Stks		Total Circ. Time			
300 rpm				19		19	**DRILLING ASSEMBLY DATA**						**SOLIDS CONTROL**	
200 rpm				13		14	Tubulars	OD (in.)	ID (in.)	Length	Top		Unit	Screens	Hours
100 rpm				11		11	Casing	5.500	4.670	7,053'	0'		Shaker 1	200	24.0
6 rpm				5		5	Casing	5.000	4.276	7,083'	7,053'		Shaker 2	200	24.0
3 rpm				4		4					14,136'		Shaker 3	200	24.0
Plastic Viscosity (cp)		@ 150 °F		10		10					14,136'				
Yield Point (lb/100 ft²)		T0 = 3		9		9	**CASING & HOLE DATA**								
Gel Strength (lb/100 ft²)		10 sec/10 min		5/11		5/10	Casing	OD (in.)	ID (in.)	Depth	Top		Centrifuge 1	NOV	1.0
Gel Strength (lb/100 ft^2)		30 min		13		13	Riser						**VOLUME ACCOUNTING (bbls)**		
HTHP Filtrate (cm/30 min)		@ 300 °F		4.8		4.8	Surface	10 3/4		2,906'	0'		Prev. Total on Location		3228.3
HTHP Cake Thickness (32nds)				2.0		2.0	Int. Csg.	7 5/8	6.875	10,148'	0'		Transferred In(+)/Out(-)		50.0
Retort Solids Content				10.5%		10%	Prod.						Oil Added (+)		41.9
Corrected Solids (vol%)				8.2%		7.8%	Prod.						Barite Added (+)		0.0
Retort Oil Content				67.5%		68%	Open Hole Size		6.818	16,820'			Other Product Usage (+)		0.0
Retort Water Content				22%		22%	**ANNULAR GEOMETRY & RHEOLOGY**						Water Added (+)		
O/W Ratio				75:25		76:24	annular section	meas. depth	velocity ft/min	flow reg	ECD lb/gal		Left on Cuttings (-)		0.0
Whole Mud Chlorides (mg/L)				56,000		56,000							Non-Recoverable Vol. (-)		-2.1
Water Phase Salinity (ppm)				285,280		285,280							Lost Returns (-)		-209.0
Whole Mud Alkalinity, Pom				1.8		2.2	6.875x5.5	7,053'	0.0	lam	9.30		Est. Total on Location		3109.2
Excess Lime (lb/bbl)				2.3 ppb		2.9 ppb	6.875x5	10,148'	0.0	lam	9.30		Est. Losses/Gains (-)/(+)		0.0
Electrical Stability (volts)				466 v		473 v	6.818x5	14,136'	0.0	lam	9.30		**BIT HYDRAULICS DATA**		
Average Specific Gravity of Solids				2.93		2.90							Bit H.S.I.	Bit ΔP	Nozzles (32nds)
Percent Low Gravity Solids				5.5%		5.3%									
ppb Low Gravity Solids				45 ppb		44 ppb							Bit Impact Force	Nozzle Velocity (ft/sec)	
Percent Barite				2.7%		2.5%									
ppb Barite				39 ppb		35 ppb	**BIT DATA**		Manuf./Type		U613S				
Estimated Total LCM in System		ppb					Size	Depth In	Hours	Footage	ROP ft/hr		Motor/MWD		Calc. Circ. Pressure
Sample Taken By				R. Bowlin	0	M.Meehan	6 3/4	16,820 ft							

Remarks/Recommendations:

OBM RECEIVED: 3484 bbls / OBM RETURNED: 0

OBM LOSSES: (-119bbls DAY) / (-808bbls Cumulative)

OBM on surface: 1850bbls (Storage) / 596bbls (Active pits)

Rig Activity:

Finished TOOH laying down the drill string, RU Franks casing crew and make up the shoe track. Run 7,083' of 5" production and began running 5.5" production casing. Stop at 9,000'MD and broke circulation, pumped 50bbls and lost 19bbls. Continue in the hole to 10,208"MD circulate kill mud from the well, losing 62bbls during circulation. Observed 10.2ppg dumping 105bbls to the open top for reuse, mud cap had channeled and blended with the 9.2ppg never observing a density higher than 10.2ppg. Run casing in the hole to 11,398'MD again circulate a bottoms up, lost 128bbls during circulation, observing 10-12ppg density dumping 46bbls of the same for reuse. At the time of the morning report running production casing at 14,136'MD.

Eng. 1:	Eng. 2:	WH 1:	WH 2:	Rig Phone:
Matt Meehan	Rob Bowlin	MIDLAND	WH #2	
Phone: 985-351-7561	Phone: 228-990-1055	Phone: 432-686-7361	Phone: -	

W	P	Y	E	C	g	G	H	O
1	1	1	1	1	1	1	1	1

	Daily Total	Cumulative Cost
	$9,645.00	**$149,253.23**
INCLUDING 3RD PARTY CHARGES	**$13,534.60**	**$265,874.58**

03/24/21 **Report #19**

110 Old Market St.
St Martinville, LA 70582
TEL: (337) 394-1078

OUTSOURCE FLUID SOLUTIONS LLC.

0.0° **0' TVD**

Operator	Contractor	County / Parish / Block	Engineer Start Date	24 hr ftg.	Drilled Depth
MAGNOLIA OIL & GAS	**PATTERSON**	**WASHINGTON**	**01/16/21**		**16,820 ft**
Well Name and No.	Rig Name and No.	State	Spud Date	Current ROP	Activity
SABINE D 4-H ST01	**248**	**TEXAS**	**01/16/21**		**Wait on Cement**
Report for	Report for	Field / OCS-G #	Fluid Type	Circulating Rate	Circulating Pressure
Bobby Gwin/ Kevin Burt	**Tool Pusher**	**GIDDIGNS**	**OBM**	**0 gpm**	

MUD PROPERTY SPECIFICATIONS							MUD VOLUME (BBL)		PUMP #1		PUMP #2		RISER BOOSTER	
Weight	PV	YP	E.S.	CaCl2	GELS	HTHP	In Pits	347 bbl	Liner Size	5.25	Liner Size	4.75	Liner Size	4.75
8.8-9.8	**5-20**	**4-15**	**>400**	**±290K**	**<10 <15**	**<10**	In Hole	0 bbl	Stroke	12	Stroke	12	Stroke	12
				3/24/21		3/23/21	Active	347 bbl	bbl/stk	0.0763	bbl/stk	0.0625	bbl/stk	0.0625
Time Sample Taken				2:00		11:00	Storage	2451 bbl	stk/min		stk/min		stk/min	
Sample Location				suction		shaker	Tot. on Location	2798 bbl	gal/min	0	gal/min	0	gal/min	0
Flowline Temperature °F							PHHP = 0		**CIRCULATION DATA**				n = 0.585	K = 239.066
Depth (ft)				16,820'		16,820'			Washout =		Pump Efficiency = 95%			
Mud Weight (ppg)				9.0		9.0	Drill String Disp.	Volume to Bit	0.0 bbl	Strokes To Bit		Time To Bit		
Funnel Vis (sec/qt)			@ 88 °F	51		53		Bottoms Up Vol.	0.0 bbl	BottomsUp Stks		BottomsUp Time		
600 rpm				27		27	0.0 bbl	TotalCirc.Vol.	347.0 bbl	TotalCirc.Stks		Total Circ. Time		
300 rpm				18		18	**DRILLING ASSEMBLY DATA**						**SOLIDS CONTROL**	
200 rpm				13		13	Tubulars	OD (in.)	ID (in.)	Length	Top		Unit	Screens	Hours
100 rpm				10		11				0'	0'		Shaker 1	200	24.0
6 rpm				5		5					0'		Shaker 2	200	24.0
3 rpm				4		4					0'		Shaker 3	200	24.0
Plastic Viscosity (cp)			@ 150 °F	9		9					0'				
Yield Point (lb/100 ft²)			T0 = 3	9		9	**CASING & HOLE DATA**								
Gel Strength (lb/100 ft²)			10 sec/10 min	5/9		5/10	Casing	OD (in.)	ID (in.)	Depth	Top		Centrifuge 1	NOV	3.0
Gel Strength (lb/100 ft^2)			30 min	11		13	Riser						**VOLUME ACCOUNTING (bbls)**		
HTHP Filtrate (cm/30 min)			@ 300 °F	4.8		4.8	Surface	10 3/4			0'		Prev. Total on Location		3109.2
HTHP Cake Thickness (32nds)				2.0		2.0	Int. Csg.	7 5/8			0'		Transferred In(+)/Out(-)		768.0
Retort Solids Content				9.5%		9.5%	Prod.	5 1/2	4.670	9,443'	0'		Oil Added (+)		91.8
Corrected Solids (vol%)				7.2%		7.3%	Prod.	5	4.276	16,526'	9,443'		Barite Added (+)		40.5
Retort Oil Content				68.5%		68.5%	Open Hole Size		0.000	16,820'			Other Product Usage (+)		0.0
Retort Water Content				22%		22%	**ANNULAR GEOMETRY & RHEOLOGY**						Water Added (+)		
O/W Ratio				76:24		76:24	annular section	meas. depth	velocity ft/min	flow reg	ECD lb/gal		Left on Cuttings (-)		0.0
Whole Mud Chlorides (mg/L)				56,000		56,000							Evap/ Cent		-22.0
Water Phase Salinity (ppm)				285,280		285,280							Lost Returns (-)		-1189.5
Whole Mud Alkalinity, Pom				1.6		2.0							Est. Total on Location		2798.0
Excess Lime (lb/bbl)				2.1 ppb		2.6 ppb							Est. Losses/Gains (-)/(+)		0.0
Electrical Stability (volts)				475 v		470 v							**BIT HYDRAULICS DATA**		
Average Specific Gravity of Solids				2.72		2.72							Bit H.S.I.	Bit ΔP	Nozzles (32nds)
Percent Low Gravity Solids				5.7%		5.7%									
ppb Low Gravity Solids				47 ppb		47 ppb							Bit Impact Force	Nozzle Velocity (ft/sec)	
Percent Barite				1.5%		1.5%									
ppb Barite				22 ppb		22 ppb	**BIT DATA**		Manuf./Type		U613S				
Estimated Total LCM in System			ppb				Size	Depth In	Hours	Footage	ROP ft/hr		Motor/MWD		Calc. Circ. Pressure
Sample Taken By				R. Bowlin	0	M.Meehan									

Remarks/Recommendations:

OBM RECEIVED: 3484 bbls / OBM RETURNED: 0

OBM LOSSES: (-1069bbls DAY) / (-1887bbls Cumulative)

OBM on surface: 2451bbls (Storage) / 347bbls (Active pits)

Rig Activity:

Run in with 5.5" casing from 14136' T 16809' at 50FPM landed. PU cement head and est. circ with approximetly 25% returns, RD casing crew while circ BU. Decrease MW from 9.3-9.0ppg. Decision was made to stage out of the hole to 16500' LD 5.5" casing to regain full returns (10-15% returns). Decision made to perform a two stage cement job, make up landing joint and land the casing/shoe at 16526'. Pump first stage of cement @ 5BPH pumping 40bbls spacer and 141bbls cement, while displacing cement from the casing observed 60% returns. Built 17.0ppg OBM in slug pit to assit in obtaining injection rates, pump 80bbls 17.0ppg broke over at 1550PSI. Cement second stage (TOP JOB)

Eng. 1:	Matt Meehan	Eng. 2:	Rob Bowlin	WH 1:	MIDLAND	WH 2:	WH #2	Rig Phone:	Daily Total	Cumulative Cost
Phone:	985-351-7561	Phone:	228-990-1055	Phone:	432-686-7361	Phone:	-			

W	P	Y	E	C	g	G	H	O
1	1	1	1	1	1	1	1	1

$77,190.09 **$226,443.32**

INCLUDING 3RD PARTY CHARGES **$88,770.49** **$354,645.07**

03/25/21 **Report #20**

110 Old Market St.
St Martinville, LA 70582
TEL: (337) 394-1078

OUTSOURCE FLUID SOLUTIONS LLC.

0.0° **0' TVD**

Operator	Contractor	County / Parish / Block	Engineer Start Date	24 hr ftg.	Drilled Depth
MAGNOLIA OIL & GAS	**PATTERSON**	**WASHINGTON**	**01/16/21**		**16,820 ft**
Well Name and No.	Rig Name and No.	State	Spud Date	Current ROP	Activity
SABINE D 4-H ST01	**248**	**TEXAS**	**01/16/21**		**LD DP/ RD**
Report for	Report for	Field / OCS-G #	Fluid Type	Circulating Rate	Circulating Pressure
Bobby Gwin/ Kevin Burt	**Tool Pusher**	**GIDDIGNS**	**OBM**	**0 gpm**	

MUD PROPERTY SPECIFICATIONS

Weight	PV	YP	E.S.	CaCl2	GELS	HTHP
8.8-9.8	**5-20**	**4-15**	**>400**	**±290K**	**<10 <15**	**<10**
				3/25/21		
Time Sample Taken						
Sample Location				NO MUD		
Flowline Temperature °F						
Depth (ft)						
Mud Weight (ppg)						
Funnel Vis (sec/qt) @ 0 °F						
600 rpm						
300 rpm						
200 rpm						
100 rpm						
6 rpm						
3 rpm						
Plastic Viscosity (cp) @ 0 °F						
Yield Point (lb/100 ft²) T0 =						
Gel Strength (lb/100 ft²) 10 sec/10 min						
Gel Strength (lb/100 ft^2) 30 min						
HTHP Filtrate (cm/30 min) @ 0 °F						
HTHP Cake Thickness (32nds)						
Retort Solids Content						
Corrected Solids (vol%)						
Retort Oil Content						
Retort Water Content						
O/W Ratio						
Whole Mud Chlorides (mg/L)						
Water Phase Salinity (ppm)						
Whole Mud Alkalinity, Pom						
Excess Lime (lb/bbl)						
Electrical Stability (volts)						
Average Specific Gravity of Solids						
Percent Low Gravity Solids						
ppb Low Gravity Solids						
Percent Barite						
ppb Barite						
Estimated Total LCM in System ppb						
Sample Taken By	R. Bowlin	0	M.Meehan			

MUD VOLUME (BBL)

In Pits	0 bbl
In Hole	0 bbl
Active	0 bbl
Storage	
Tot. on Location	0 bbl

PUMP #1

Liner Size	5.25
Stroke	12
bbl/stk	0.0763
stk/min	
gal/min	0

PUMP #2

Liner Size	4.75
Stroke	12
bbl/stk	0.0625
stk/min	
gal/min	0

RISER BOOSTER

Liner Size	4.75
Stroke	12
bbl/stk	0.0625
stk/min	
gal/min	0

PHHP = 0

CIRCULATION DATA

Washout = | Pump Efficiency = 95%

Drill String Disp.				
0.0 bbl	Volume to Bit	0.0 bbl	Strokes To Bit	Time To Bit
	Bottoms Up Vol.	0.0 bbl	BottomsUp Stks	BottomsUp Time
	TotalCirc.Vol.	0.0 bbl	TotalCirc.Stks	Total Circ. Time

DRILLING ASSEMBLY DATA

Tubulars	OD (in.)	ID (in.)	Length	Top
			0'	0'
				0'
				0'
				0'

CASING & HOLE DATA

Casing	OD (in.)	ID (in.)	Depth	Top
Riser				
Surface	10 3/4			0'
Int. Csg.	7 5/8			0'
Prod.	5 1/2	4.670	9,443'	0'
Prod.	5	4.276	16,526'	9,443'
Open Hole Size		0.000	16,820'	

ANNULAR GEOMETRY & RHEOLOGY

annular section	meas. depth	velocity ft/min	flow reg	ECD lb/gal

BIT DATA Manuf./Type

Size	Depth In	Hours	Footage	ROP ft/hr	Motor/MWD	Calc. Circ. Pressure

SOLIDS CONTROL

Unit	Screens	Hours
Shaker 1	200	
Shaker 2	200	
Shaker 3	200	
Centrifuge 1	NOV	

VOLUME ACCOUNTING (bbls)

Prev. Total on Location	2798.0
Transferred In(+)/Out(-)	-2644.0
Oil Added (+)	0.0
Barite Added (+)	0.0
Other Product Usage (+)	0.0
Water Added (+)	
Left on Cuttings (-)	0.0
Pits/ Fracs/ Trucking I	-154.0
Est. Total on Location	0.0
Est. Losses/Gains (-)/(+)	0.0

BIT HYDRAULICS DATA

Bit H.S.I.	Bit ΔP	Nozzles (32nds)		
Bit Impact Force	Nozzle Velocity (ft/sec)			

Remarks/Recommendations:

OBM RECEIVED: 3484 bbls Returned +/-260bbls 10.9ppg

354bbls Magnolia Owned LGS Discounted OBM

Skid Vol. 1951bbls @ $65.00_79bbls @ $10.00

Rig Activity:

Secured the well installed the night cap. Cleaned rig pits and the back yard. Transferred +/- 2384bbls/8.8-9.0ppg total OBM to the Castlewood pad. Skid volumes are as follows 1951bbls @ $65.00, 79bbls at $10.00, 354bbls Magnolia owned discounted OBM and returned 260bbls to NewPark Madisonville. Rig crew is laying the down the remainder of the drill pipe. The final mud report will be generated this afternoon after we receive the totals for the Barite, OBM returns and release the rig.

Eng. 1:	Eng. 2:	WH 1:	WH 2:	Rig Phone:
Matt Meehan	Rob Bowlin	MIDLAND	WH #2	
Phone: 985-351-7561	Phone: 228-990-1055	Phone: 432-686-7361	Phone: -	

W P Y E C g G H O
0 2 2 0 2 1 1 1 1

	Daily Total	Cumulative Cost
	$11,920.00	**$238,363.32**
INCLUDING 3RD PARTY CHARGES	**$11,920.00**	**$366,565.07**