4/22/2020 **Report #1**

110 Old Market St.
St Martinville, LA 70582

OUTSOURCE FLUID SOLUTIONS LLC.

TEL: (337) 394-1078

0.0° **0' TVD**

Operator	Contractor	County / Parish / Block	Engineer Start Date	24 hr ftg.	Depth
enervest	**PATTERSON**	**Karnea**	**04/22/20**	**0 ft**	**0 ft**
Well Name and No.	Rig Name and No.	State	Spud Date	Current ROP	Activity
LEVI GOODRICH UNIT 2 - 2H	**248**	**TEXAS**	**04/27/20**	**0 ft/hr**	**Rig Down/Move**
Report for	Report for	Field / OSC-G #	Fluid Type	Circulating Rate	Circulating Pressure
JAMES DYER / BOBBY GWINN	**Tool Pusher**	**GIDDINGS**	**WBM**	**0 gpm**	**psi**

MUD PROPERTY SPECIFICATIONS

Weight	PV	YP	GELS	pH	API fl	% Solids
8.4-9.4	**2-10**	**2-10**	**<5 <15**	**8.8-9**	**<30**	**2-10**

MUD PROPERTIES

Time Sample Taken	0:00	0:00	0:00
Sample Location	No Mud	0	0
Flowline Temperature °F	0 °F	0 °F	0 °F
Depth (ft)	0'	0'	0'
Mud Weight (ppg)	0.0	0.0	0.0
Funnel Vis (sec/qt) @ 0 °F	0	0	0
600 rpm	0	0	0
300 rpm	0	0	0
200 rpm	0	0	0
100 rpm	0	0	0
6 rpm	0	0	0
3 rpm	0	0	0
Plastic Viscosity (cp) @ 120 °F	0	0	0
Yield Point (lb/100 ft²) T0 = 0	0	0	0
Gel Strength (lb/100 ft²) 10 sec / 10 min			
Gel Strength (lb/100 ft2) 30 min	0	0	0
API Filtrate / Cake Thickness @ 0 °F			
HTHP Filtrate / Cake Thickness @ 0 °F			
Retort Solids Content	0.0	0.0	0.0
Retort Oil Content	0.0	0.0	0.0
Retort Water Content	0.0	0.0	0.0
Sand Content	0.0	0.0	0.0
M.B.T. (Methylene Blue Capacity) (ppb)			
pH	0	0	0
Alkalinity, Mud Pm	0	0	0
Alkalinities, Filtrate Pf/Mf			
Chlorides (mg/L)	0.00	0.00	0.00
Calcium (ppm)	0	0	0
Excess Lime (lb/bbl)	0.00	0.00	0.00
Average Specific Gravity of Solids	2.60	2.60	2.60
Percent Low Gravity Solids	0.0	0.0	0.0
Percent Drill Solids	0.0	0.0	0.0
PPA Spurt / Total (ml) @ @ 0 °F			
Estimated Total LCM in System @ 0 °F	0.0	0.0	0.0
Sample Taken By	0	0	0

MUD VOLUME (BBL)

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

PUMP #1

Liner Size	0
Stroke	0
bbl/stk	0.0000
stk/min	0
gal/min	0

PUMP #2

Liner Size	0
Stroke	0
bbl/stk	0.0000
stk/min	0
gal/min	0

RISER BOOSTER

Liner Size	0
Stroke	0
bbl/stk	0.0000
stk/min	0
gal/min	0

Mud Wt. = 0.0 PV=0 YP=0 **CIRCULATION DATA** #VALUE! #VALUE!

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
	TotalCirc.Vol.	0.0 bbl	TotalCirc.Stks	0	Total Circ. Time 0 min

DRILLING ASSEMBLY DATA

Tubulars	OD (in.)	ID (in.)	Length	Top
Drill Pipe	0.000	0.000	0'	0'
Hevi Wt	0.000	0.000	0'	0'
Drill Pipe	0.000	0.000	0'	0'
Collars	0.000	0.000	0'	0'

CASING & HOLE DATA

Casing	OD (in.)	ID (in.)	Depth	Top
Riser	0	0.000	0'	
Surface	0	0.000	0'	0'
Int. Csg.	0	0.000	0'	0'
Washout 1	0	0.000	0'	0'
Washout 2	0	0.000	0'	0'
Open Hole Size		0.000	0'	

ANNULAR GEOMETRY & RHEOLOGY

annular section	depth	velocity ft/min	flow reg	ECD lb/gal
0	0'	0.0	0	0.00
0	0'	0.0	0	0.00
0	0'	0.0	0	0.00
0	0'	0.0	0	0.00
0	0'	0.0	0	0.00
0	0'	0.0	0	0.00
0	0'	0.0	0	0.00

0 Manuf./Type 0

Size	Depth In	Hours	Footage	ROP ft/hr
0	0 ft	0.0	0 ft	0.0

SOLIDS CONTROL

Unit	Screens	Hours
Shaker 1	170	0.0
Shaker 2	170	0.0
Shaker 3	170	0.0
Desander	0	0.0
Desilter	0	0.0
Centrifuge 1	0	0.0

VOLUME ACCOUNTING (bbls)

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

BIT HYDRAULICS DATA

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

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

Remarks/Recommendations:

RIG MOVE

0

0

0

0

Rig Activity:

At this time we continue to rig down and make preparations to move rig to new location. Levi Goodrich Unit 2 - 2H

Eng. 1:	Eng. 2:	WH 1:	WH 2:	Rig Phone:
Mike Washburn	Adolfo Roman	MIDLAND	WH #2	0
Phone: 361-945-5777	Phone: 956-821-9994	Phone: 432-685-4023	Phone: -	

W P Y g G p A S C
0 2 2 1 1 0 1 0 0

	Daily Total	Cumulative Cost
	$1,910.00	**$1,910.00**
INCLUDING 3RD PARTY CHARGES	**$1,910.00**	**$1,910.00**

Previous Cost **$0.00**

4/23/2020 **Report #2**

110 Old Market St.
St Martinville, LA 70582

TEL: (337) 394-1078

0.0° **0' TVD**

Operator	Contractor	County / Parish / Block	Engineer Start Date	24 hr ftg.	Depth
enervest	**PATTERSON**	**Karnea**	**04/22/20**	**0 ft**	**0 ft**
Well Name and No.	Rig Name and No.	State	Spud Date	Current ROP	Activity
LEVI GOODRICH UNIT 2 - 2H	**248**	**TEXAS**	**04/27/20**	**0 ft/hr**	**RIG MOVE**
Report for	Report for	Field / OSC-G #	Fluid Type	Circulating Rate	Circulating Pressure
JAMES DYER / BOBBY GWINN	**Tool Pusher**	**GIDDINGS**	**WBM**	**0 gpm**	**psi**

MUD PROPERTY SPECIFICATIONS

Weight	PV	YP	GELS	pH	API fl	% Solids
8.4-9.4	**2-10**	**2-10**	**<5 <15**	**8.8-9**	**<30**	**2-10**

MUD PROPERTIES

Time Sample Taken	0:00	0:00	0:00
Sample Location	No Mud	0	0
Flowline Temperature °F	0 °F	0 °F	0 °F
Depth (ft)	0'	0'	0'
Mud Weight (ppg)	0.0	0.0	0.0
Funnel Vis (sec/qt) @ 0 °F	0	0	0
600 rpm	0	0	0
300 rpm	0	0	0
200 rpm	0	0	0
100 rpm	0	0	0
6 rpm	0	0	0
3 rpm	0	0	0
Plastic Viscosity (cp) @ 120 °F	0	0	0
Yield Point (lb/100 ft²) T0 = 0	0	0	0
Gel Strength (lb/100 ft²) 10 sec / 10 min			
Gel Strength (lb/100 ft2) 30 min	0	0	0
API Filtrate / Cake Thickness @ 0 °F			
HTHP Filtrate / Cake Thickness @ 0 °F			
Retort Solids Content	0.0	0.0	0.0
Retort Oil Content	0.0	0.0	0.0
Retort Water Content	0.0	0.0	0.0
Sand Content	0.0	0.0	0.0
M.B.T. (Methylene Blue Capacity) (ppb)			
pH	0	0	0
Alkalinity, Mud Pm	0	0	0
Alkalinities, Filtrate Pf/Mf			
Chlorides (mg/L)	0.00	0.00	0.00
Calcium (ppm)	0	0	0
Excess Lime (lb/bbl)	0.00	0.00	0.00
Average Specific Gravity of Solids	2.60	2.60	2.60
Percent Low Gravity Solids	0.0	0.0	0.0
Percent Drill Solids	0.0	0.0	0.0
PPA Spurt / Total (ml) @ @ 0 °F			
Estimated Total LCM in System @ 0 °F	0.0	0.0	0.0
Sample Taken By	0	0	0

MUD VOLUME (BBL)

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

PUMP #1

Liner Size	0
Stroke	0
bbl/stk	0.0000
stk/min	0
gal/min	0

PUMP #2

Liner Size	0
Stroke	0
bbl/stk	0.0000
stk/min	0
gal/min	0

RISER BOOSTER

Liner Size	0
Stroke	0
bbl/stk	0.0000
stk/min	0
gal/min	0

Mud Wt. = 0.0 PV=0 YP=0 **CIRCULATION DATA** #VALUE! #VALUE!

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
	TotalCirc.Vol.	0.0 bbl	TotalCirc.Stks	0	Total Circ. Time 0 min

DRILLING ASSEMBLY DATA

Tubulars	OD (in.)	ID (in.)	Length	Top
Drill Pipe	0.000	0.000	0'	0'
Hevi Wt	0.000	0.000	0'	0'
Drill Pipe	0.000	0.000	0'	0'
Collars	0.000	0.000	0'	0'

CASING & HOLE DATA

Casing	OD (in.)	ID (in.)	Depth	Top
Riser	0	0.000	0'	
Surface	0	0.000	0'	0'
Int. Csg.	0	0.000	0'	0'
Washout 1	0	0.000	0'	0'
Washout 2	0	0.000	0'	0'
Open Hole Size		0.000	0'	

ANNULAR GEOMETRY & RHEOLOGY

annular section	depth	velocity ft/min	flow reg	ECD lb/gal
0	0'	0.0	0	0.00
0	0'	0.0	0	0.00
0	0'	0.0	0	0.00
0	0'	0.0	0	0.00
0	0'	0.0	0	0.00
0	0'	0.0	0	0.00
0	0'	0.0	0	0.00

0 Manuf./Type 0

Size	Depth In	Hours	Footage	ROP ft/hr
0	0 ft	0.0	0 ft	0.0

SOLIDS CONTROL

Unit	Screens	Hours
Shaker 1	170	0.0
Shaker 2	170	0.0
Shaker 3	170	0.0
Desander	0	0.0
Desilter	0	0.0
Centrifuge 1	0	0.0

VOLUME ACCOUNTING (bbls)

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

BIT HYDRAULICS DATA

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

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

Remarks/Recommendations:

RIG MOVE

0

0

0

0

Rig Activity:

Continue with Rig Move rig operations to new location. Levi Goodrich Unit 2-2H. Recived Sack material for surface drilling. OBM on order 9.5ppg to displace surface Cement for Casing set.

Eng. 1:	Eng. 2:	WH 1:	WH 2:	Rig Phone:
Mike Washburn	Adolfo Roman	MIDLAND	WH #2	0
Phone: 361-945-5777	Phone: 956-821-9994	Phone: 432-685-4023	Phone: -	

W P Y g G p A S C
0 2 2 1 1 0 1 0 0

	Daily Total	Cumulative Cost
	$3,244.75	**$5,154.75**
INCLUDING 3RD PARTY CHARGES	**$3,244.75**	**$5,154.75**

Previous Cost **$1,910.00**

04/24/20 **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**	**04/22/20**	**0 ft**	**0 ft**
Well Name and No.	Rig Name and No.	State	Spud Date	Current ROP	Activity
LEVI GOODRICH UNIT 2 - 2H	**248**	**TEXAS**	**04/27/20**	**0 ft/hr**	**Rig Up/Move**
Report for	Report for	Field / OCS-G #	Fluid Type	Circulating Rate	Circulating Pressure
JAMES DYER / BOBBY GWINN	**Tool Pusher**	**GIDDINGS**	**WBM**	**0 gpm**	**psi**

MUD PROPERTY SPECIFICATIONS

Weight	PV	YP	GELS	pH	API fl	% Solids
8.4-9.4	**2-10**	**2-10**	**<5 <15**	**8.8-9**	**<30**	**2-10**
Time Sample Taken						
Sample Location				No Mud	No Mud	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) @ 120 °F						
Yield Point (lb/100 ft²) T0 =						
Gel Strength (lb/100 ft²) 10 sec/10 min						
Gel Strength (lb/100 ft^2) 30 min						
API Filtrate / Cake Thickness						
HTHP Filtrate / Cake Thickness @ 0 °F						
Retort Solids Content						
Retort Oil Content						
Retort Water Content						
Sand Content						
M.B.T. (Methylene Blue Capacity) (ppb)						
pH						
Alkalinity, Mud Pm						
Alkalinities, Filtrate Pf/Mf						
Chlorides (mg/L)						
Calcium (ppm)						
Excess Lime (lb/bbl)						
Average Specific Gravity of Solids				2.60	2.60	2.60
Percent Low Gravity Solids						
Percent Drill Solids						
PPA Spurt / Total (ml) @ @ 0 °F						
Estimated Total LCM in System ppb						
Sample Taken By						

MUD VOLUME (BBL)

In Pits	
In Hole	38 bbl
Active	0 bbl
Storage	
Tot. on Location	38 bbl

PUMP #1

Liner Size	6
Stroke	12
bbl/stk	0.0997
stk/min	
gal/min	0

PUMP #2

Liner Size	6
Stroke	12
bbl/stk	0.0997
stk/min	
gal/min	0

RISER BOOSTER

Liner Size	
Stroke	
bbl/stk	0.0000
stk/min	
gal/min	0

PHHP = 0

CIRCULATION DATA

Bit Depth = ' Washout = 5% 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
	Riser Ann. Vol.	0.0 bbl	Riser Strokes	Riser Circ. Time

DRILLING ASSEMBLY DATA

Tubulars	OD (in.)	ID (in.)	Length	Top
Drill Pipe			0'	0'
Hevi Wt				0'
Dir. BHA				0'
				0'

CASING & HOLE DATA

Casing	OD (in.)	ID (in.)	Depth	Top
Riser	20	19.124	108'	
Surface				108'
Int. Csg.				108'

Open Hole Size 0.000 0'

ANNULAR GEOMETRY & RHEOLOGY

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

SOLIDS CONTROL

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

VOLUME ACCOUNTING (bbls)

Prev. Total on Location	0.0
Transferred In(+)/Out(-)	
Oil Added (+)	0.0
Barite Added (+)	0.0
Other Product Usage (+)	0.0
Water Added (+)	
Left on Cuttings (-)	0.0
Non-Recoverable Vol. (-)	
Discharged (-)	
Est. Total on Location	0.0
Est. Losses/Gains (-)/(+)	38.4

BIT HYDRAULICS DATA

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

BIT DATA

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

Remarks/Recommendations:

Rig Activity:

At this time we continue with Rig Up operations on the Levi Goodrich Unit 2-2H. Reciving OBM from Madisonville Mud Plant, 9.5ppg, storing same on Frac tanks on location.

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:	432-685-4023	Phone:	-	

W P Y g G p A S C
0 2 2 1 1 0 1 0 0

	Daily Total	Cumulative Cost
	$1,910.00	**$7,064.75**
INCLUDING 3RD PARTY CHARGES	**$1,910.00**	**$7,064.75**

OUTSOURCE FLUID SOLUTIONS LLC.

MATERIAL CONSUMPTION

Date	Operator	Well Name and No.	Rig Name and No.	Report No.
04/24/20	MAGNOLIA OIL & GAS	LEVI GOODRICH UNIT 2 - 2H	248	Report #3

DAILY USAGE & COST								CUMULATIVE	
Item	Unit	Unit Cost	Previous Inventory	Received	Closing Inventory	Daily Usage	Daily Cost	Cum Usage	Cum Cost
ALUMINUM TRISTEARATE	25# sk	$162.83	40		40				
SAPP (50)	50# sk	$44.50	126		126				
PHPA LIQUID (pail)	5 gal		64		64				
DYNA DET	pail	$32.23	32		32				
CACL2 (50)	50# sk	$16.60	112		112				
LIME (50)	50# sk	$5.00	100		100				
NEW-WATE (SACK BARITE)	100# sk	$11.50	160		160				
BARITE BULK (100)	100# sk	$7.00							
OPTI DRILL (OBM)	bbl	$65.00							
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	$2.50						390	$974.75
TRUCKING (min)	each	$795.00							
PALLETS (ea)	each	$12.00						15	$180.00
SHRINK WRAP (ea)	each	$12.00						15	$180.00
		Daily Sub-Total $1,910.00			**Cumulative Total $7,064.75**			**$7,064.75**	

THIRD PARTY COST SHEET

Date	Operator	Well Name and No.	Rig Name and No.	Report No.
04/24/20	**MAGNOLIA OIL & GAS**	**LEVI GOODRICH UNIT 2 - 2H**	**248**	**Report #3**

DAILY USAGE & COST								**CUMULATIVE**	
Item	Unit	Unit Cost	Previous Inventory	Received	Closing Inventory	Daily Usage	Daily Cost	Cum Usage	Cum Cost

Cumulative Total AES & 3rd Party $7,064.75

04/25/20 **Report #4**

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**	**04/22/20**	**0 ft**	**0 ft**
Well Name and No.	Rig Name and No.	State	Spud Date	Current ROP	Activity
LEVI GOODRICH UNIT 2 - 2H	**248**	**TEXAS**	**04/27/20**	**0 ft/hr**	**Rig Up**
Report for	Report for	Field / OCS-G #	Fluid Type	Circulating Rate	Circulating Pressure
JAMES DYER / BOBBY GWINN	**Tool Pusher**	**GIDDINGS**	**WBM**	**0 gpm**	**psi**

MUD PROPERTY SPECIFICATIONS

Weight	PV	YP	GELS	pH	API fl	% Solids
8.4-9.4	**2-10**	**2-10**	**<5 <15**	**8.8-9**	**<30**	**2-10**

Time Sample Taken			
Sample Location	No Mud	No Mud	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) @ 120 °F			
Yield Point (lb/100 ft²) T0 =			
Gel Strength (lb/100 ft²) 10 sec/10 min			
Gel Strength (lb/100 ft²) 30 min			
API Filtrate / Cake Thickness			
HTHP Filtrate / Cake Thickness @ 0 °F			
Retort Solids Content			
Retort Oil Content			
Retort Water Content			
Sand Content			
M.B.T. (Methylene Blue Capacity) (ppb)			
pH			
Alkalinity, Mud Pm			
Alkalinities, Filtrate Pf/Mf			
Chlorides (mg/L)			
Calcium (ppm)			
Excess Lime (lb/bbl)			
Average Specific Gravity of Solids	2.60	2.60	2.60
Percent Low Gravity Solids			
Percent Drill Solids			
PPA Spurt / Total (ml) @ @ 0 °F			
Estimated Total LCM in System ppb			
Sample Taken By			

MUD VOLUME (BBL)		PUMP #1		PUMP #2		RISER BOOSTER	
In Pits		Liner Size	6	Liner Size	6	Liner Size	
In Hole	0 bbl	Stroke	12	Stroke	12	Stroke	
Active	0 bbl	bbl/stk	0.0997	bbl/stk	0.0997	bbl/stk	0.0000
Storage		stk/min		stk/min		stk/min	
Tot. on Location	0 bbl	gal/min	0	gal/min	0	gal/min	0

CIRCULATION DATA

PHHP = 0

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

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

DRILLING ASSEMBLY DATA

Tubulars	OD (in.)	ID (in.)	Length	Top
Drill Pipe			0'	0'
Hevi Wt				0'
Dir. BHA				0'
				0'

CASING & HOLE DATA

Casing	OD (in.)	ID (in.)	Depth	Top
Riser	20		108'	
Surface				108'
Int. Csg.				108'
Open Hole Size	0.000		0'	

ANNULAR GEOMETRY & RHEOLOGY

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

SOLIDS CONTROL

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

VOLUME ACCOUNTING (bbls)

Prev. Total on Location	0.0
Transferred In(+)/Out(-)	
Oil Added (+)	0.0
Barite Added (+)	0.0
Other Product Usage (+)	0.0
Water Added (+)	
Left on Cuttings (-)	0.0
Non-Recoverable Vol. (-)	
Discharged (-)	
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)	

BIT DATA Manuf./Type

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

Remarks/Recommendations:

OBM RECEIVED: 1786 bbls

Rig Activity:

At this time we continue with Rig Up operations on the Levi Goodrich Unit 2-2H. Reciving OBM from Madisonville Mud Plant, 9.5ppg, storing same on Frac tanks on location.

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:	432-685-4023	Phone:	-		**$4,136.50**	**$11,201.25**

W	P	Y	g	G	p	A	S	C
0	2	2	1	1	0	1	0	0

INCLUDING 3RD PARTY CHARGES **$4,136.50** **$11,201.25**

OUTSOURCE FLUID SOLUTIONS LLC.

MATERIAL CONSUMPTION

Date	Operator	Well Name and No.	Rig Name and No.	Report No.
04/25/20	MAGNOLIA OIL & GAS	LEVI GOODRICH UNIT 2 - 2H	248	Report #4

DAILY USAGE & COST								CUMULATIVE	
Item	Unit	Unit Cost	Previous Inventory	Received	Closing Inventory	Daily Usage	Daily Cost	Cum Usage	Cum Cost
ALUMINUM TRISTEARATE	25# sk	$162.83	40		40				
SAPP (50)	50# sk	$44.50	126		126				
PHPA LIQUID (pail)	5 gal		64		64				
DYNA DET	pail	$32.23	32		32				
CACL2 (50)	50# sk	$16.60	112		112				
LIME (50)	50# sk	$5.00	100		100				
NEW-WATE (SACK BARITE)	100# sk	$11.50	160		160				
BARITE BULK (100)	100# sk	$7.00		890	890				
OPTI DRILL (OBM)	bbl	$65.00		1786	1786				
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							
TRUCKING (cwt)	each	$2.50				891	$2,226.50	1281	$3,201.25
TRUCKING (min)	each	$795.00							
PALLETS (ea)	each	$12.00						15	$180.00
SHRINK WRAP (ea)	each	$12.00						15	$180.00
		Daily Sub-Total $4,136.50			Cumulative Total $11,201.25			$11,201.25	

THIRD PARTY COST SHEET

Date	Operator	Well Name and No.	Rig Name and No.	Report No.
04/25/20	MAGNOLIA OIL & GAS	LEVI GOODRICH UNIT 2 - 2H	248	Report #4

DAILY USAGE & COST								CUMULATIVE	
Item	Unit	Unit Cost	Previous Inventory	Received	Closing Inventory	Daily Usage	Daily Cost	Cum Usage	Cum Cost

Cumulative Total AES & 3rd Party $11,201.25

04/26/20 **Report #5**

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**	**04/22/20**	**0 ft**	**0 ft**
Well Name and No.	Rig Name and No.	State	Spud Date	Current ROP	Activity
LEVI GOODRICH UNIT 2 - 2H	**248**	**TEXAS**	**04/27/20**	**0 ft/hr**	**Rig Repairs**
Report for	Report for	Field / OCS-G #	Fluid Type	Circulating Rate	Circulating Pressure
JAMES DYER / BOBBY GWINN	**Tool Pusher**	**GIDDINGS**	**WBM**	**0 gpm**	

MUD PROPERTY SPECIFICATIONS

Weight	PV	YP	GELS	pH	API fl	% Solids
8.4-9.4	**2-10**	**2-10**	**<5 <15**	**8.8-9**	**<30**	**2-10**
Time Sample Taken						
Sample Location				No Mud	No Mud	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) @ 120 °F						
Yield Point (lb/100 ft²) T0 =						
Gel Strength (lb/100 ft²) 10 sec/10 min						
Gel Strength (lb/100 ft^2) 30 min						
API Filtrate / Cake Thickness						
HTHP Filtrate / Cake Thickness @ 0 °F						
Retort Solids Content						
Retort Oil Content						
Retort Water Content						
Sand Content						
M.B.T. (Methylene Blue Capacity) (ppb)						
pH						
Alkalinity, Mud Pm						
Alkalinities, Filtrate Pf/Mf						
Chlorides (mg/L)						
Calcium (ppm)						
Excess Lime (lb/bbl)						
Average Specific Gravity of Solids				2.60	2.60	2.60
Percent Low Gravity Solids						
Percent Drill Solids						
PPA Spurt / Total (ml) @ @ 0 °F						
Estimated Total LCM in System ppb						
Sample Taken By						

MUD VOLUME (BBL)

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

PUMP #1

Liner Size	6		
Stroke	12		
bbl/stk	0.0997		
stk/min			
gal/min	0		

PUMP #2

Liner Size	6		
Stroke	12		
bbl/stk	0.0997		
stk/min			
gal/min	0		

RISER BOOSTER

Liner Size	
Stroke	
bbl/stk	0.0000
stk/min	
gal/min	0

CIRCULATION DATA

PHHP = 0

Bit Depth = ' Washout = 5% 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
	Riser Ann. Vol.	0.0 bbl	Riser Strokes	Riser Circ. Time

DRILLING ASSEMBLY DATA

Tubulars	OD (in.)	ID (in.)	Length	Top
Drill Pipe			0'	0'
Hevi Wt				0'
Dir. BHA				0'
				0'

CASING & HOLE DATA

Casing	OD (in.)	ID (in.)	Depth	Top
Riser	20		108'	
Surface				108'
Int. Csg.				108'
Open Hole Size	0.000		0'	

ANNULAR GEOMETRY & RHEOLOGY

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

SOLIDS CONTROL

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

VOLUME ACCOUNTING (bbls)

Prev. Total on Location	0.0
Transferred In(+)/Out(-)	
Oil Added (+)	0.0
Barite Added (+)	0.0
Other Product Usage (+)	0.0
Water Added (+)	
Left on Cuttings (-)	0.0
Non-Recoverable Vol. (-)	
Discharged (-)	
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)			

BIT DATA

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

Remarks/Recommendations:

OBM RECEIVED: 1786 bbls

Rig Activity:

Continue with Rig Up operations, Rig up transfer lines for OBM / WBM and fresh water. NOV technician perfomr Shakers Inspection. Shakers out of specs, worn out baskets on all 3. Rig down shakers and change out with 3 from the Patters yard. At this time we continue working on shakrs and Pick up 3000' of 5" DP and rack back same on derrick. 1786 bbls of 9.5# OBM received on location.

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:	432-685-4023	Phone:	-	

W P Y g G p A S C
0 2 2 1 1 0 1 0 0

	Daily Total	Cumulative Cost
	$1,910.00	**$13,111.25**
INCLUDING 3RD PARTY CHARGES	**$1,910.00**	**$13,111.25**

OUTSOURCE FLUID SOLUTIONS LLC.

MATERIAL CONSUMPTION

Date	Operator	Well Name and No.	Rig Name and No.	Report No.
04/26/20	MAGNOLIA OIL & GAS	LEVI GOODRICH UNIT 2 - 2H	248	Report #5

DAILY USAGE & COST								CUMULATIVE	
Item	Unit	Unit Cost	Previous Inventory	Received	Closing Inventory	Daily Usage	Daily Cost	Cum Usage	Cum Cost
ALUMINUM TRISTEARATE	25# sk	$162.83	40		40				
SAPP (50)	50# sk	$44.50	126		126				
PHPA LIQUID (pail)	5 gal		64		64				
DYNA DET	pail	$32.23	32		32				
CACL2 (50)	50# sk	$16.60	112		112				
LIME (50)	50# sk	$5.00	100		100				
NEW-WATE (SACK BARITE)	100# sk	$11.50	160		160				
BARITE BULK (100)	100# sk	$7.00	890		890				
OPTI DRILL (OBM)	bbl	$65.00	1786		1786				
ENGINEERING (24 HR)	each	$925.00				2	$1,850.00	10	$9,250.00
ENGINEERING (DIEM)	bbl	$30.00				2	$60.00	10	$300.00
ENGINEERING (MILES)	each	$1.00							
TRUCKING (cwt)	each	$2.50						1281	$3,201.25
TRUCKING (min)	each	$795.00							
PALLETS (ea)	each	$12.00						15	$180.00
SHRINK WRAP (ea)	each	$12.00						15	$180.00
		Daily Sub-Total $1,910.00			**Cumulative Total $13,111.25**			**$13,111.25**	

THIRD PARTY COST SHEET

Date	Operator	Well Name and No.	Rig Name and No.	Report No.
04/26/20	MAGNOLIA OIL & GAS	LEVI GOODRICH UNIT 2 - 2H	248	Report #5

DAILY USAGE & COST | **CUMULATIVE**

Item	Unit	Unit Cost	Previous Inventory	Received	Closing Inventory	Daily Usage	Daily Cost	Cum Usage	Cum Cost

Cumulative Total AES & 3rd Party $13,111.25

05/09/20 **Report #8**

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

OUTSOURCE FLUID SOLUTIONS LLC.

8.6° **4,881' TVD**

Operator	Contractor	County / Parish / Block	Engineer Start Date	24 hr ftg.	Drilled Depth
MAGNOLIA OIL & GAS	**PATTERSON**	**WASHINGTON**	**04/22/20**	**1,915 ft**	**4,915 ft**
Well Name and No.	Rig Name and No.	State	Spud Date	Current ROP	Activity
LEVI GOODRICH UNIT 2 - 2H	**248**	**TEXAS**	**04/26/20**	**639 ft/hr**	**Drilling Ahead**
Report for	Report for	Field / OCS-G #	Fluid Type	Circulating Rate	Circulating Pressure
Kevin Burt/ Jim Harrison	**Tool Pusher**	**GIDDINGS**	**OBM**	**823 gpm**	**4,637 psi**

MUD PROPERTY SPECIFICATIONS

Weight	PV	YP	E.S.	CaCl2	GELS	HTHP
9.5-10	**8-20**	**8-10**	**>400**	**±250K**	**<10 <25**	**<8**
				5/8/20	5/8/20	
Time Sample Taken				1:00	22:47	
Sample Location				Suction	Shaker	
Flowline Temperature °F				132 °F	114 °F	
Depth (ft)				4,249'	3,317'	
Mud Weight (ppg)				9.6	9.5	
Funnel Vis (sec/qt)			@ 104 °F	52	56	
600 rpm				43	45	
300 rpm				27	28	
200 rpm				22	21	
100 rpm				15	14	
6 rpm				7	6	
3 rpm				6	5	
Plastic Viscosity (cp)			@ 150 °F	16	17	
Yield Point (lb/100 ft²)			T0 = 5	11	11	
Gel Strength (lb/100 ft²)			10 sec/10 min	7/9	5/8	
Gel Strength (lb/100 ft^2)			30 min	11	11	
HTHP Filtrate (cm/30 min)			@ 300 °F	6.0	5.6	
HTHP Cake Thickness (32nds)				2.0	2.0	
Retort Solids Content				11.5%	11%	
Corrected Solids (vol%)				9.5%	9.1%	
Retort Oil Content				66%	67%	
Retort Water Content				22.5%	22%	
O/W Ratio				75:25	75:25	
Whole Mud Chlorides (mg/L)				50,000	49,000	
Water Phase Salinity (ppm)				258,415	258,850	
Whole Mud Alkalinity, Pom				1.8	1.8	
Excess Lime (lb/bbl)				2.3 ppb	2.3 ppb	
Electrical Stability (volts)				400 v	375 v	
Average Specific Gravity of Solids				3.09	3.09	
Percent Low Gravity Solids				5.5%	5.2%	
ppb Low Gravity Solids				45 ppb	43 ppb	
Percent Barite				4%	3.8%	
ppb Barite				58 ppb	55 ppb	
Estimated Total LCM in System			ppb			
Sample Taken By				R. Bowlin	R. Bowlin	M. Meehan

MUD VOLUME (BBL)

In Pits	881 bbl
In Hole	427 bbl
Active	1308 bbl
Storage	1087 bbl
Tot. on Location	2395 bbl

PUMP #1

Liner Size	5.75
Stroke	12
bbl/stk	0.0915
stk/min	107
gal/min	411

PUMP #2

Liner Size	5.75
Stroke	12
bbl/stk	0.0915
stk/min	107
gal/min	411

RISER BOOSTER

Liner Size	
Stroke	
bbl/stk	0.0000
stk/min	
gal/min	0

PHHP = 2226 **CIRCULATION DATA** n = 0.671 K = 209.200

Bit Depth = 4,915 ' | Washout = 2% | Pump Efficiency = 95%

Drill String Disp.							
50.0 bbl	Volume to Bit	80.7 bbl	Strokes To Bit	882	Time To Bit	4 min
	Bottoms Up Vol.	346.6 bbl	BottomsUp Stks	3,787	BottomsUp Time	18 min
	TotalCirc.Vol.	1308.3 bbl	TotalCirc.Stks	14,293	Total Circ. Time	67 min

DRILLING ASSEMBLY DATA

Tubulars	OD (in.)	ID (in.)	Length	Top
Drill Pipe	5.000	4.276	4,303'	0'
Hevi Wt	6.500	3.000	277'	4,303'
Collars	6.563	2.438	296'	4,580'
Dir. BHA	8.000	2.000	39'	4,876'

CASING & HOLE DATA

Casing	OD (in.)	ID (in.)	Depth	Top
Riser	0		0'	
Surface	10 1/2	9.950	2,991'	0'
Int. Csg.				0'

Open Hole Size 10.073 4,915'

ANNULAR GEOMETRY & RHEOLOGY

annular section	meas. depth	velocity ft/min	flow reg	ECD lb/gal
9.95x5	2,991'	272.5	turb	10.34
10.073x5	4,303'	263.7	turb	10.69
10.073x6.5	4,580'	340.5	turb	11.17
10.073x6.563	4,876'	345.3	turb	11.62
10.073x8	4,915'	538.2	turb	12.13

BIT DATA Manuf./Type Ultera SPL-613

Size	Depth In	Hours	Footage	ROP ft/hr
9 7/8	2,991 ft	5.0	1,915 ft	383.0

SOLIDS CONTROL

Unit	Screens	Hours
Shaker 1	140	6.0
Shaker 2	140	6.0
Shaker 3	140	6.0
Centrifuge 1		4.0

VOLUME ACCOUNTING (bbls)

Prev. Total on Location	287.7
Transferred In(+)/Out(-)	2101.0
Oil Added (+)	129.5
Barite Added (+)	0.0
Other Product Usage (+)	11.9
Water Added (+)	16.0
Left on Cuttings (-)	-132.1
Evap/ Cent	-18.6
Non-Recoverable Vol. (-)	
Est. Total on Location	2395.3
Est. Losses/Gains (-)/(+)	0.0

BIT HYDRAULICS DATA

Bit H.S.I.	Bit ΔP	Nozzles (32nds)		
1.69	269 psi	14	14	14
Bit Impact Force	Nozzle Velocity (ft/sec)	14	14	14
		16	16	16
724 lbs	177			

Motor/MWD	Calc. Circ. Pressure
2,400 psi	4,677 psi

Remarks/Recommendations:

OBM RECEIVED: (2395) bbls-----9.5ppg-9.8ppg

OBM On Hand (2395)

Gain/Loss: () bbls

Diesel 7-10 BPH Drill H2O 3-3.5 BPH

Pumping 10-bbls Preventative LCM sweeps every 300'

Rig Activity:

Skid to the 2H, RU, NU change out rams and test BOP's. TIH tagged up float at 2,908' MD, drilled shoe track and 10' of new formation and performed a FIT to 11.6ppg EMW with a 9.5ppg active MW at 330PSI/3,003'TVD. Pumping 10-bbl preventative LCM sweep to seal off permeable formations every 300'. AT the time of the am report drilling ahead at 4,915MD. Aggressive dilutions to maintain volume and aid in controlling unwanted drill solids.

Eng. 1:	Eng. 2:	WH 1:	WH 2:	Rig Phone:
Matt Meehan	Rob Bowlin	MIDLAND	WH #2	
Phone:	Phone: 228-990-1055	Phone: 432-685-4023	Phone: -	

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

	Daily Total	Cumulative Cost
	$6,106.00	**$22,718.39**
INCLUDING 3RD PARTY CHARGES	**$10,826.14**	**$27,438.53**

05/10/20 **Report #9**

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

OUTSOURCE FLUID SOLUTIONS LLC.

14.3° **10,047' TVD**

Operator	Contractor	County / Parish / Block	Engineer Start Date	24 hr ftg.	Drilled Depth
MAGNOLIA OIL & GAS	**PATTERSON**	**WASHINGTON**	**04/22/20**	**5,187 ft**	**10,102 ft**
Well Name and No.	Rig Name and No.	State	Spud Date	Current ROP	Activity
LEVI GOODRICH UNIT 2 - 2H	**248**	**TEXAS**	**04/26/20**	**83 ft/hr**	**Drilling Ahead**
Report for	Report for	Field / OCS-G #	Fluid Type	Circulating Rate	Circulating Pressure
Kevin Burt/ Jim Harrison	**Tool Pusher**	**GIDDINGS**	**OBM**	**738 gpm**	**4,357 psi**

MUD PROPERTY SPECIFICATIONS

Weight	PV	YP	E.S.	CaCl2	GELS	HTHP
9.5-10	**8-20**	**8-10**	**>300**	**±250K**	**<10 <25**	**<8**
				5/10/20	5/9/20	5/9/20
Time Sample Taken				1:30	19:30	11:00
Sample Location				Suction	Shaker	suction
Flowline Temperature °F				168 °F	160 °F	150 °F
Depth (ft)				10,102'	9,541'	7,667'
Mud Weight (ppg)				9.9	9.7	9.6
Funnel Vis (sec/qt)			@ 146 °F	44	43	51
600 rpm				45	47	47
300 rpm				28	29	29
200 rpm				21	24	23
100 rpm				15	17	16
6 rpm				7	8	8
3 rpm				6	7	7
Plastic Viscosity (cp)			@ 150 °F	17	18	18
Yield Point (lb/100 ft²)			T0 = 5	11	11	11
Gel Strength (lb/100 ft²)			10 sec/10 min	7/9	8/10	8/11
Gel Strength (lb/100 ft^2)			30 min	11	12	13
HTHP Filtrate (cm/30 min)			@ 300 °F	5.4	5.4	5.4
HTHP Cake Thickness (32nds)				2.0	2.0	2.0
Retort Solids Content				12.5%	11.5%	11%
Corrected Solids (vol%)				10.6%	9.7%	9.1%
Retort Oil Content				64.5%	65.5%	67%
Retort Water Content				23%	23%	22%
O/W Ratio				74:26	74:26	75:25
Whole Mud Chlorides (mg/L)				48,000	47,000	48,000
Water Phase Salinity (ppm)				246,564	242,674	254,914
Whole Mud Alkalinity, Pom				1.5	1.5	2.1
Excess Lime (lb/bbl)				2 ppb	2 ppb	2.7 ppb
Electrical Stability (volts)				411 v	388 v	428 v
Average Specific Gravity of Solids				3.21	3.20	3.22
Percent Low Gravity Solids				5.4%	5%	4.6%
ppb Low Gravity Solids				44 ppb	41 ppb	38 ppb
Percent Barite				5.2%	4.7%	4.6%
ppb Barite				75 ppb	68 ppb	65 ppb
Estimated Total LCM in System			ppb			
Sample Taken By				R. Bowlin	R. Bowlin	M. Meehan

MUD VOLUME (BBL)

In Pits	820 bbl
In Hole	905 bbl
Active	1725 bbl
Storage	800 bbl
Tot. on Location	2525 bbl

PUMP #1

Liner Size	5.75
Stroke	12
bbl/stk	0.0915
stk/min	96
gal/min	369

PUMP #2

Liner Size	5.75
Stroke	12
bbl/stk	0.0915
stk/min	96
gal/min	369

RISER BOOSTER

Liner Size	
Stroke	
bbl/stk	0.0000
stk/min	
gal/min	0

CIRCULATION DATA

PHHP = 1876 n = 0.684 K = 199.903

Bit Depth = 10,102 ' Washout = 2% Pump Efficiency = 95%

Drill String Disp.							
83.8 bbl	Volume to Bit	172.8 bbl	Strokes To Bit	1,888	Time To Bit	10 min
	Bottoms Up Vol.	731.9 bbl	BottomsUp Stks	7,996	BottomsUp Time	42 min
	TotalCirc.Vol.	1724.8 bbl	TotalCirc.Stks	18,842	Total Circ. Time	98 min

DRILLING ASSEMBLY DATA

Tubulars	OD (in.)	ID (in.)	Length	Top
Drill Pipe	5.000	4.276	9,490'	0'
Hevi Wt	6.500	3.000	277'	9,490'
Collars	6.563	2.438	296'	9,767'
Dir. BHA	8.000	2.000	39'	10,063'

CASING & HOLE DATA

Casing	OD (in.)	ID (in.)	Depth	Top
Riser	0		0'	
Surface	10 1/2	9.950	2,991'	0'
Int. Csg.				0'

Open Hole Size 10.073 10,102'

ANNULAR GEOMETRY & RHEOLOGY

annular section	meas. depth	velocity ft/min	flow reg	ECD lb/gal
9.95x5	2,991'	244.5	lam	10.20
10.073x5	9,490'	236.6	lam	10.22
10.073x6.5	9,767'	305.5	turb	10.30
10.073x6.563	10,063'	309.8	turb	10.38
10.073x8	10,102'	482.9	turb	10.46

BIT DATA Manuf./Type Ultera SPL-613

Size	Depth In	Hours	Footage	ROP ft/hr
9 7/8	2,991 ft	27.0	7,111 ft	263.4

SOLIDS CONTROL

Unit	Screens	Hours
Shaker 1	140	24.0
Shaker 2	140	24.0
Shaker 3	140	24.0
Centrifuge 1		6.0

VOLUME ACCOUNTING (bbls)

Prev. Total on Location	2395.3
Transferred In(+)/Out(-)	148.6
Oil Added (+)	304.0
Barite Added (+)	28.2
Other Product Usage (+)	16.8
Water Added (+)	56.4
Left on Cuttings (-)	-383.4
Evap/ Cent	-41.2
Non-Recoverable Vol. (-)	
Est. Total on Location	2524.7
Est. Losses/Gains (-)/(+)	0.0

BIT HYDRAULICS DATA

Bit H.S.I.	Bit ΔP	Nozzles (32nds)		
1.26	223 psi	14	14	14
Bit Impact Force	Nozzle Velocity (ft/sec)	14	14	14
		16	16	16
601 lbs	159			

Motor/MWD	Calc. Circ. Pressure
2,100 psi	4,843 psi

Remarks/Recommendations:

OBM RECEIVED: (2395) bbls-----9.5ppg-9.9ppg

OBM On Hand (2395)

Gain/Loss: (+129.7) bbls MWD TEMP: 230 Deg.

Diesel 7-BPH Drill H2O 2-BPH

Pumping 10-bbls Preventative LCM sweeps every 300'

Rig Activity:

Over the past 24 hours Patterson 248 has continued drilling ahead on the intermediate section F-4,915' T-10,102'MD at the time of the am report. Pumping 10-bbls preventative LCM sweeps every 300', sweeps consist of MagmaFiber, NewCarb M and NewPhalt. Maintaining active volume with additions of diesel and drill H2O. Minimal treatments have been made to maintain the drilling fluid within the recommended parameters. Once interval TD has been reached plan forward will be to pump (2) 30-bbls sweeps for the clean up cycle. Decreased drill H2O dilutions at 21:00hrs due to observed increase in H2O percentage on the shaker check. At 10,000'MD increased active MW to 9.8-9.9ppg

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: 432-685-4023	Phone: -	

W P Y E C g G H O
1 1 2 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
	$8,894.80	**$31,613.19**
INCLUDING 3RD PARTY CHARGES	**$20,844.88**	**$48,283.41**

5/10/2020 **Report 9 pm**

110 Old Market St.
St Martinville, LA 70582

TEL: (337) 394-1078

8.0° **2,591' TVD**

Operator	Contractor	County / Parish / Block	Engineer Start Date	24 hr ftg.	Drilled Depth
MAGNOLIA OIL & GAS	**PATTERSON**	**WASHINGTON**	**04/22/20**	**182 ft**	**10,284 ft**
Well Name and No.	Rig Name and No.	State	Spud Date	Current ROP	Activity
LEVI GOODRICH UNIT 2 - 2H	**248**	**TEXAS**	**04/26/20**		**L/D Pipe**
Report for	Report for	Field / OSC-G #	Fluid Type	Circulating Rate	Circulating Pressure
Kevin Burt/ Jim Harrison	**Tool Pusher**	**GIDDINGS**	**OBM**		

MUD PROPERTY SPECIFICATIONS

Weight	PV	YP	E.S.	CaCl2	GELS	HTHP
9.5-10	**8-20**	**8-10**	**>300**	**±250K**	**<10 <25**	**<8**

MUD PROPERTIES

Time Sample Taken	1:30	19:30	11:00
Sample Location	Suction	Shaker	suction
Flowline Temperature °F	168 °F	160 °F	
Depth (ft)	10,102'	9,541'	10,284'
Mud Weight (ppg)	9.9	9.7	10.0
Funnel Vis (sec/qt) @ 146 °F	44	43	49
600 rpm	45	47	47
300 rpm	28	29	29
200 rpm	21	24	22
100 rpm	15	17	16
6 rpm	7	8	8
3 rpm	6	7	7
Plastic Viscosity (cp) @ 150 °F	17	18	18
Yield Point (lb/100 ft²) T0 = 5	11	11	11
Gel Strength (lb/100 ft²) 10 sec / 10 min	7/9	8/10	8/10
Gel Strength (lb/100 ft2) 30 min	11	12	12
HTHP Filtrate (cm/30 min) @ 300 °F	5.4	5.4	5.8
HTHP Cake Thickness (32nds)	2.0	2.0	2.0
Retort Solids Content	12.5%	11.5%	12.5%
Corrected Solids (vol%)	10.6%	9.7%	10.6%
Retort Oil Content	64.5%	65.5%	64.5%
Retort Water Content	23%	23%	23%
O/W Ratio	74:26	74:26	74:26
Whole Mud Chlorides (mg/L)	48,000	47,000	49,000
Water Phase Salinity (ppm)	246,564	242,674	250,414
Whole Mud Alkalinity, Pom	1.5	1.5	1.6
Excess Lime (lb/bbl)	2 ppb	2 ppb	2.1 ppb
Electrical Stability (volts)	411 v	388 v	442 v
Average Specific Gravity of Solids	3.21	3.20	3.32
Percent Low Gravity Solids	5.4%	5%	4.7%
ppb Low Gravity Solids	44 ppb	41 ppb	39 ppb
Percent Barite	5.2%	4.7%	5.9%
ppb Barite	75 ppb	68 ppb	84 ppb
Estimated Total LCM in System			
Sample Taken By	R. Bowlin	R. Bowlin	M. Meehan

MUD VOLUME (BBL)

In Pits	772 bbl
In Hole	972 bbl
Active	987 bbl
Storage	800 bbl
Tot. on Location	2544 bbl

PUMP #1

Liner Size	5.75
Stroke	12
bbl/stk	0.0915
stk/min	
gal/min	

PUMP #2

Liner Size	5.75
Stroke	12
bbl/stk	0.0915
stk/min	
gal/min	

RISER BOOSTER

Liner Size
Stroke
bbl/stk
stk/min
gal/min

Mud Wt. = 9.9 PV=17 YP=11 **CIRCULATION DATA** n = 0.684 K = 199.9

Bit Depth = 2,594 ' | Washout = 2% | Pump Efficiency = 95%

Drill String Disp.	Volume to Bit	Strokes To Bit	Time To Bit
34.8 bbl	Bottoms Up Vol. 175.2 bbl	BottomsUp Stks	BottomsUp Time
	TotalCirc.Vol. 986.7 bbl	TotalCirc.Stks	Total Circ. Time

DRILLING ASSEMBLY DATA

Tubulars	OD (in.)	ID (in.)	Length	Top
Drill Pipe	5.000	4.276	1,982'	
Hevi Wt	6.500	3.000	277'	1,982'
Collars	6.563	2.438	296'	2,259'
Dir. BHA	8.000	2.000	39'	2,555'

CASING & HOLE DATA

Casing	OD (in.)	ID (in.)	Depth	Top
Riser				
Surface	10 1/2	9.950	2,991'	
Int. Csg.				
Open Hole Size	10.073		10,284'	

ANNULAR GEOMETRY & RHEOLOGY

annular section	depth	velocity ft/min	flow reg	ECD lb/gal
9.95x5	1,982'		lam	9.90
9.95x6.5	2,259'		lam	9.90
9.95x6.563	2,555'		lam	9.90
9.95x8	2,594'		lam	9.90

BIT DATA Manuf./Type Ultera SPL-613

Size	Depth In	Hours	Footage	ROP ft/hr
9 7/8	2,991 ft	30.0	7,293 ft	243.1

SOLIDS CONTROL

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

VOLUME ACCOUNTING (bbls)

Prev. Total on Location	2524.8
Transferred In(+)/Out(-)	
Oil Added (+)	34.3
Barite Added (+)	13.9
Other Product Usage (+)	
Water Added (+)	
Left on Cuttings (-)	-13.5
Evap/ Cent	
Non-Recoverable Vol. (-)	-15.8
Est. Total on Location	2543.7
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
	32 psi

Afternoon Remarks/Recommendations:

Pumping 10 bbl sweep every 300 ft. Sweep Contains:

10 ppb NewCarb, 10 ppb Newphalt and 10 ppb Magnafiber fine.

Afternoon Rig Activity:

Drilling ahead and sliding as needed to maintain the angle in the vertical to sectionTD at 10284 ft. Pumped two 30 bbl LCM sweeps and circulated the hole clean. Pumped a slug. POOH while laying down drill pipe.

05/11/20 **Report #10**

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

OUTSOURCE FLUID SOLUTIONS LLC.

8.8° **4,819' TVD**

Operator	Contractor	County / Parish / Block	Engineer Start Date	24 hr ftg.	Drilled Depth
MAGNOLIA OIL & GAS	**PATTERSON**	**WASHINGTON**	**04/22/20**	**182 ft**	**10,284 ft**
Well Name and No.	Rig Name and No.	State	Spud Date	Current ROP	Activity
LEVI GOODRICH UNIT 2 - 2H	**248**	**TEXAS**	**04/26/20**	**0 ft/hr**	**Run Casing**
Report for	Report for	Field / OCS-G #	Fluid Type	Circulating Rate	Circulating Pressure
Kevin Burt/ Jim Harrison	**Tool Pusher**	**GIDDINGS**	**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	697 bbl	Liner Size	5.75	Liner Size	5.75	Liner Size	
9.5-10	**8-20**	**8-10**	**>300**	**±250K**	**<10 <25**	**<8**	In Hole	998 bbl	Stroke	12	Stroke	12	Stroke	
				5/11/20		5/10/20	Active	1128 bbl	bbl/stk	0.0915	bbl/stk	0.0915	bbl/stk	0.0000
Time Sample Taken				1:30		11:00	Storage	334 bbl	stk/min		stk/min		stk/min	
Sample Location				Suction		suction	Tot. on Location	2029 bbl	gal/min	0	gal/min	0	gal/min	0
Flowline Temperature °F							PHHP = 0		**CIRCULATION DATA**				n = 0.684	K = 199.903
Depth (ft)				10,284'		10,284'	Bit Depth = 4,852 '		Washout = 5%		Pump Efficiency = 95%			
Mud Weight (ppg)				9.9		10.0	Drill String Disp.	Volume to Bit 222.8 bbl	Strokes To Bit		Time To Bit			
Funnel Vis (sec/qt)	@ 109 °F			54		49		Bottoms Up Vol. 208.0 bbl	BottomsUp Stks		BottomsUp Time			
600 rpm				45		47	51.3 bbl	TotalCirc.Vol. 1127.8 bbl	TotalCirc.Stks		Total Circ. Time			
300 rpm				28		29	**DRILLING ASSEMBLY DATA**						**SOLIDS CONTROL**	
200 rpm				22		22	Tubulars	OD (in.)	ID (in.)	Length	Top		Unit	Screens	Hours
100 rpm				15		16	Casing	7.625	6.875	4,852'	0'		Shaker 1	140	8.0
6 rpm				6		8					4,852'		Shaker 2	140	8.0
3 rpm				5		7					4,852'		Shaker 3	140	8.0
Plastic Viscosity (cp)	@ 150 °F			17		18					4,852'		Centrifuge 1		2.0
Yield Point (lb/100 ft²)	T0 = 4			11		11	**CASING & HOLE DATA**								
Gel Strength (lb/100 ft²)	10 sec/10 min			6/9		8/10	Casing	OD (in.)	ID (in.)	Depth	Top				
Gel Strength (lb/100 ft^2)	30 min			11		12	Riser	0		0'			**VOLUME ACCOUNTING (bbls)**		
HTHP Filtrate (cm/30 min)	@ 300 °F			5.6		5.8	Surface	10 1/2	9.950	2,991'	0'		Prev. Total on Location		2524.8
HTHP Cake Thickness (32nds)				2.0		2.0	Int. Csg.				0'		Transferred In(+)/Out(-)		-382.0
Retort Solids Content				12.2%		12.5%							Oil Added (+)		34.3
Corrected Solids (vol%)				10.3%		10.6%							Barite Added (+)		9.7
Retort Oil Content				64.8%		64.5%	Open Hole Size	10.369	10,284'				Other Product Usage (+)		0.0
Retort Water Content				23%		23%	**ANNULAR GEOMETRY & RHEOLOGY**						Water Added (+)		
O/W Ratio				74:26		74:26	annular section	meas. depth	velocity ft/min	flow reg	ECD lb/gal		Left on Cuttings (-)		-19.0
Whole Mud Chlorides (mg/L)				48,500		49,000							Evap/Cent/Truck/TOOH		-78.5
Water Phase Salinity (ppm)				248,494		250,414							Formation/ Shaker Run off		-60.2
Whole Mud Alkalinity, Pom				1.5		1.6	9.95x7.625	2,991'	0.0	lam	9.90		Est. Total on Location		2029.1
Excess Lime (lb/bbl)				2 ppb		2.1 ppb	10.369x7.625	4,852'	0.0	lam	9.90		Est. Losses/Gains (-)/(+)		0.0
Electrical Stability (volts)				462 v		442 v							**BIT HYDRAULICS DATA**		
Average Specific Gravity of Solids				3.28		3.32							Bit H.S.I.	Bit ΔP	Nozzles (32nds)
Percent Low Gravity Solids				4.8%		4.7%									
ppb Low Gravity Solids				39 ppb		39 ppb							Bit Impact Force	Nozzle Velocity (ft/sec)	
Percent Barite				5.5%		5.9%									
ppb Barite				79 ppb		84 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	R. Bowlin	M. Meehan	9 7/8								

Remarks/Recommendations:

OBM RECEIVED: (2395) bbls-----9.5ppg-9.9ppg

OBM On Hand (2029) Returned (382) bbls To Newpark

MWD TEMP:

Rig Activity:

Drilled the intermediate section to TD at 10,284'MD. Pumped (2) 30-bbls sweeps for the clean up cycle. Trip out of the hole laying down the 5" DP, experienced issues with the Catwalk and had to rack back the drill string in the derrick. Made the necessary repairs to the same prior to beginning the 7.625" casing run. At the time of the am report running casing with Express casing crew at 4,852'MD.

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: 432-685-4023	Phone: -		**$4,041.00**	**$35,654.19**

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

INCLUDING 3RD PARTY CHARGES	**$5,423.40**	**$53,706.81**

5/11/2020 **Report 10 pm**

110 Old Market St.
St Martinville, LA 70582

TEL: (337) 394-1078

Operator	Contractor	County / Parish / Block	Engineer Start Date	24 hr ftg.	Drilled Depth
MAGNOLIA OIL & GAS	**PATTERSON**	**WASHINGTON**	**04/22/20**		**10,284 ft**
Well Name and No.	Rig Name and No.	State	Spud Date	Current ROP	Activity
LEVI GOODRICH UNIT 2 - 2H	**248**	**TEXAS**	**04/26/20**		**R/D Cementers**
Report for	Report for	Field / OSC-G #	Fluid Type	Circulating Rate	Circulating Pressure
Kevin Burt/ Jim Harrison	**Tool Pusher**	**GIDDINGS**	**OBM**		

MUD PROPERTY SPECIFICATIONS						
Weight	PV	YP	E.S.	CaCl2	GELS	HTHP
9.5-10	**8-20**	**8-10**	**>300**	**±250K**	**<10 <25**	**<8**

MUD PROPERTIES				
Time Sample Taken		1:30		12:00
Sample Location		Suction		suction
Flowline Temperature °F				
Depth (ft)		10,284'		10,284'
Mud Weight (ppg)		9.9		10.1
Funnel Vis (sec/qt)	@ 109 °F	54		53
600 rpm		45		50
300 rpm		28		30
200 rpm		22		23
100 rpm		15		16
6 rpm		6		7
3 rpm		5		6
Plastic Viscosity (cp)	@ 150 °F	17		20
Yield Point (lb/100 ft²)	T0 = 4	11		10
Gel Strength (lb/100 ft²)	10 sec / 10 min	6/9		7/10
Gel Strength (lb/100 ft2)	30 min	11		12
HTHP Filtrate (cm/30 min)	@ 300 °F	5.6		6.4
HTHP Cake Thickness (32nds)		2.0		2.0
Retort Solids Content		12.2%		13%
Corrected Solids (vol%)		10.3%		11.1%
Retort Oil Content		64.8%		64%
Retort Water Content		23%		23%
O/W Ratio		74:26		74:26
Whole Mud Chlorides (mg/L)		48,500		49,000
Water Phase Salinity (ppm)		248,494		250,414
Whole Mud Alkalinity, Pom		1.5		1.5
Excess Lime (lb/bbl)		2 ppb		2 ppb
Electrical Stability (volts)		462 v		394 v
Average Specific Gravity of Solids		3.28		3.31
Percent Low Gravity Solids		4.8%		5%
ppb Low Gravity Solids		39 ppb		41 ppb
Percent Barite		5.5%		6.1%
ppb Barite		79 ppb		88 ppb
Estimated Total LCM in System				
Sample Taken By		R. Bowlin	R. Bowlin	M. Meehan

MUD VOLUME (BBL)	
In Pits	708 bbl
In Hole	473 bbl
Active	708 bbl
Storage	1218 bbl
Tot. on Location	2399 bbl

PUMP #1	
Liner Size	5.25
Stroke	12
bbl/stk	0.0763
stk/min	
gal/min	

PUMP #2	
Liner Size	5.25
Stroke	12
bbl/stk	0.0763
stk/min	
gal/min	

RISER BOOSTER
Liner Size
Stroke
bbl/stk
stk/min
gal/min

Mud Wt. = 9.9 PV=17 YP=11 **CIRCULATION DATA** n = 0.684 K = 199.9

Washout = 2% Pump Efficiency = 95%

Drill String Disp.	Volume to Bit	Strokes To Bit	Time To Bit
	Bottoms Up Vol.	BottomsUp Stks	BottomsUp Time
	TotalCirc.Vol. 708.0 bbl	TotalCirc.Stks	Total Circ. Time

DRILLING ASSEMBLY DATA

Tubulars	OD (in.)	ID (in.)	Length	Top
Casing	7.625	6.875		

SOLIDS CONTROL

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

CASING & HOLE DATA

Casing	OD (in.)	ID (in.)	Depth	Top
Riser				
Surface	10 1/2	9.950	2,991'	
Int. Csg.	7 5/8	6.875	10,273'	
Open Hole Size	10.073		10,284'	

VOLUME ACCOUNTING (bbls)

Prev. Total on Location	2029.1
Transferred In(+)/Out(-)	421.0
Oil Added (+)	
Barite Added (+)	
Other Product Usage (+)	
Water Added (+)	
Left on Cuttings (-)	
Non-Recoverable Vol. (-)	-10.0
Discharged (-)	-41.3
Est. Total on Location	2398.8
Est. Losses/Gains (-)/(+)	0.0

ANNULAR GEOMETRY & RHEOLOGY

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

BIT HYDRAULICS DATA

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

BIT DATA Manuf./Type

Size	Depth In	Hours	Footage	ROP ft/hr	Motor/MWD	Calc. Circ. Pressure
9 7/8						#DIV/0!

Afternoon Remarks/Recommendations:

Pumping 10 bbl sweep every 300 ft. Sweep Contains:

10 ppb NewCarb, 10 ppb Newphalt and 10 ppb Magnafiber fine.

Afternoon Rig Activity:

Ran the 7.625" casing to bottom. Circulated the casing. Rigged up cementers. Cemented in casing. Dumped 42 bbl of spacer contaminated mud at surface. Rolling mud pits and adding diesel and centrifuging to reduce the mud wt. to 9.6 ppg. Will change the shale shaker screens to 170 mesh.

05/12/20 **Report #11**

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**	**04/22/20**	**0 ft**	**10,284 ft**
Well Name and No.	Rig Name and No.	State	Spud Date	Current ROP	Activity
LEVI GOODRICH UNIT 2 - 2H	**248**	**TEXAS**	**04/26/20**	**0 ft/hr**	**LD 5" DP**
Report for	Report for	Field / OCS-G #	Fluid Type	Circulating Rate	Circulating Pressure
Kevin Burt/ Jim Harrison	**Tool Pusher**	**GIDDINGS**	**OBM**	**0 gpm**	

MUD PROPERTY SPECIFICATIONS

Weight	PV	YP	E.S.	CaCl2	GELS	HTHP
9.5-10	**8-20**	**8-10**	**>300**	**±250K**	**<10 <25**	**<8**
				5/12/20		5/11/20
Time Sample Taken				1:30		12:00
Sample Location				Suction		suction
Flowline Temperature °F						
Depth (ft)				10,284'		10,284'
Mud Weight (ppg)				9.6		10.1
Funnel Vis (sec/qt)			@ 87 °F	53		53
600 rpm				37		50
300 rpm				23		30
200 rpm				17		23
100 rpm				12		16
6 rpm				5		7
3 rpm				4		6
Plastic Viscosity (cp)			@ 150 °F	14		20
Yield Point (lb/100 ft²)			T0 = 3	9		10
Gel Strength (lb/100 ft²)			10 sec/10 min	5/6		7/10
Gel Strength (lb/100 ft^2)			30 min	8		12
HTHP Filtrate (cm/30 min)			@ 300 °F	8.0		6.4
HTHP Cake Thickness (32nds)				2.0		2.0
Retort Solids Content				10%		13%
Corrected Solids (vol%)				8.2%		11.1%
Retort Oil Content				67%		64%
Retort Water Content				23%		23%
O/W Ratio				74:26		74:26
Whole Mud Chlorides (mg/L)				46,000		49,000
Water Phase Salinity (ppm)				238,743		250,414
Whole Mud Alkalinity, Pom				1.4		1.5
Excess Lime (lb/bbl)				1.8 ppb		2 ppb
Electrical Stability (volts)				423 v		394 v
Average Specific Gravity of Solids				3.50		3.31
Percent Low Gravity Solids				2.8%		5%
ppb Low Gravity Solids				23 ppb		41 ppb
Percent Barite				5.4%		6.1%
ppb Barite				77 ppb		88 ppb
Estimated Total LCM in System			ppb			
Sample Taken By				R. Bowlin	R. Bowlin	M. Meehan

MUD VOLUME (BBL)

In Pits	756 bbl
In Hole	472 bbl
Active	756 bbl
Storage	1218 bbl
Tot. on Location	2446 bbl

PUMP #1

Liner Size	
Stroke	12
bbl/stk	0.0000
stk/min	
gal/min	0

PUMP #2

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

RISER BOOSTER

Liner Size	
Stroke	
bbl/stk	0.0000
stk/min	
gal/min	0

PHHP = 0 **CIRCULATION DATA** n = 0.686 K = 162.785

Bit Depth = ' | Washout = 0% | 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.	756.1 bbl	TotalCirc.Stks	Total Circ. Time

DRILLING ASSEMBLY DATA

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

CASING & HOLE DATA

Casing	OD (in.)	ID (in.)	Depth	Top
Riser	0		0'	
Surface	10 1/2		2,991'	0'
Int. Csg.	7 5/8	6.875	10,273'	0'
Open Hole Size		0.000	10,284'	

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	140	
Shaker 2	140	
Shaker 3	140	
Centrifuge 1		

VOLUME ACCOUNTING (bbls)

Prev. Total on Location	2029.1
Transferred In(+)/Out(-)	421.0
Oil Added (+)	47.0
Barite Added (+)	0.0
Other Product Usage (+)	0.0
Water Added (+)	
Left on Cuttings (-)	0.0
Non-Recoverable Vol. (-)	-10.0
Discharged (-)	-41.3
Est. Total on Location	2445.8
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: (2816) bbls-----9.5ppg-9.9ppg

OBM On Hand (2445.8) Returned (382) bbls To Newpark

Rec. (421) bbls 16.0 Kill /Lost 13bbls to Trucking

Rig Activity:

Ran the 7.625" casing to bottom, setting the shoe at 10,273'MD. Circulated 1X the casing volume. Rigged up cementers and cement the same. Dumped 42 bbl of spacer contaminated mud at surface. Conditioned the surface volume with diesel and centrifuging to reduce the mud wt. to 9.6 ppg. Once the 9.6ppg surface volume blends with hole volume of 9.9ppg target MW will be 9.8ppg for drill out. Once circulation resumes the fluid will be maintained within the recommended parameters. At the time of the am report repairs to the Catwalk have been completed and the crew has resumed 5" DP LD opps. Waiting on parts for the wellhead, rams were swapped out from casing to DP rams.

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: 432-685-4023	Phone: -	

W P Y E C g G H O
1 1 1 1 0 1 1 2 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
	$3,400.33	**$39,054.52**
INCLUDING 3RD PARTY CHARGES	**$5,313.17**	**$59,019.98**

5/12/2020 **Report 11 pm**

110 Old Market St.
St Martinville, LA 70582

TEL: (337) 394-1078

Operator	Contractor	County / Parish / Block	Engineer Start Date	24 hr ftg.	Drilled Depth
MAGNOLIA OIL & GAS	**PATTERSON**	**WASHINGTON**	**04/22/20**		**10,284 ft**
Well Name and No.	Rig Name and No.	State	Spud Date	Current ROP	Activity
LEVI GOODRICH UNIT 2 - 2H	**248**	**TEXAS**	**04/26/20**		**L/D DP**
Report for	Report for	Field / OSC-G #	Fluid Type	Circulating Rate	Circulating Pressure
Kevin Burt/ Jim Harrison	**Tool Pusher**	**GIDDINGS**	**OBM**		

MUD PROPERTY SPECIFICATIONS						
Weight	PV	YP	E.S.	CaCl2	GELS	HTHP
9.5-10	**8-20**	**8-10**	**>300**	**±250K**	**<10 <25**	**<8**

MUD PROPERTIES			
Time Sample Taken	1:30		11:00
Sample Location	Suction		suction
Flowline Temperature °F			
Depth (ft)	10,284'		10,284'
Mud Weight (ppg)	9.6		9.6
Funnel Vis (sec/qt) @ 87 °F	53		53
600 rpm	37		38
300 rpm	23		23
200 rpm	17		17
100 rpm	12		12
6 rpm	5		5
3 rpm	4		4
Plastic Viscosity (cp) @ 150 °F	14		15
Yield Point (lb/100 ft²) T0 = 3	9		8
Gel Strength (lb/100 ft²) 10 sec / 10 min	5/6		5/7
Gel Strength (lb/100 ft2) 30 min	8		8
HTHP Filtrate (cm/30 min) @ 300 °F	8.0		6.8
HTHP Cake Thickness (32nds)	2.0		2.0
Retort Solids Content	10%		10.5%
Corrected Solids (vol%)	8.2%		8.6%
Retort Oil Content	67%		66.5%
Retort Water Content	23%		23%
O/W Ratio	74:26		74:26
Whole Mud Chlorides (mg/L)	46,000		49,000
Water Phase Salinity (ppm)	238,743		250,414
Whole Mud Alkalinity, Pom	1.4		2.1
Excess Lime (lb/bbl)	1.8 ppb		2.7 ppb
Electrical Stability (volts)	423 v		445 v
Average Specific Gravity of Solids	3.50		3.34
Percent Low Gravity Solids	2.8%		3.8%
ppb Low Gravity Solids	23 ppb		31 ppb
Percent Barite	5.4%		4.8%
ppb Barite	77 ppb		69 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	757 bbl	Liner Size	5.25	Liner Size	5.25	Liner Size
In Hole	472 bbl	Stroke	12	Stroke	12	Stroke
Active	757 bbl	bbl/stk	0.0763	bbl/stk	0.0763	bbl/stk
Storage	1218 bbl	stk/min		stk/min		stk/min
Tot. on Location	2447 bbl	gal/min		gal/min		gal/min

Mud Wt. = 9.6 PV=14 YP=9 **CIRCULATION DATA** n = 0.686 K = 162.8

Washout = Pump Efficiency = 95%

Drill String Disp.	Volume to Bit	Strokes To Bit	Time To Bit
	Bottoms Up Vol.	BottomsUp Stks	BottomsUp Time
	TotalCirc.Vol. 757.0 bbl	TotalCirc.Stks	Total Circ. Time

DRILLING ASSEMBLY DATA

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

CASING & HOLE DATA

Casing	OD (in.)	ID (in.)	Depth	Top
Riser				
Surface	10 1/2		2,991'	
Int. Csg.	7 5/8	6.875	10,273'	
Open Hole Size			10,284'	

ANNULAR GEOMETRY & RHEOLOGY

annular section	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
						#DIV/0!

SOLIDS CONTROL

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

VOLUME ACCOUNTING (bbls)

Prev. Total on Location	2445.8
Transferred In(+)/Out(-)	
Oil Added (+)	4.8
Barite Added (+)	
Other Product Usage (+)	6.3
Water Added (+)	
Left on Cuttings (-)	
Non-Recoverable Vol. (-)	-10.2
Discharged (-)	
Est. Total on Location	2446.7
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!				

Afternoon Remarks/Recommendations:

Pumping 10 bbl sweep every 300 ft. Sweep Contains:

10 ppb NewCarb, 10 ppb Newphalt and 10 ppb Magnafiber fine.

Afternoon Rig Activity:

Completed repairs to the Catwalk. Continue laying down 5" drill pipe. Treated the mud in the system for drilling out the shoe. Added Optimul and Lime to increase the emulsion. Added Optiwet to help oil wet cuttings. Lowered the HTHP fluid loss with Opti-G. Increased the salinity with additions of Calcium Chloride.

05/13/20 **Report #12**

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**	**04/22/20**	**0 ft**	**10,284 ft**
Well Name and No.	Rig Name and No.	State	Spud Date	Current ROP	Activity
LEVI GOODRICH UNIT 2 - 2H	**248**	**TEXAS**	**04/26/20**	**0 ft/hr**	**L/D DP**
Report for	Report for	Field / OCS-G #	Fluid Type	Circulating Rate	Circulating Pressure
Kevin Burt/ Jim Harrison	**Tool Pusher**	**GIDDINGS**	**OBM**	**0 gpm**	

MUD PROPERTY SPECIFICATIONS

Weight	PV	YP	E.S.	CaCl2	GELS	HTHP
9.5-10	**8-20**	**8-10**	**>300**	**±250K**	**<10 <25**	**<8**
				5/13/20		5/12/20
Time Sample Taken				1:30		11:00
Sample Location				Suction		suction
Flowline Temperature °F						
Depth (ft)				10,284'		10,284'
Mud Weight (ppg)				9.6		9.6
Funnel Vis (sec/qt)			@ 88 °F	55		53
600 rpm				37		38
300 rpm				23		23
200 rpm				16		17
100 rpm				11		12
6 rpm				5		5
3 rpm				4		4
Plastic Viscosity (cp)			@ 150 °F	14		15
Yield Point (lb/100 ft²)			T0 = 3	9		8
Gel Strength (lb/100 ft²)			10 sec/10 min	4/6		5/7
Gel Strength (lb/100 ft^2)			30 min	9		8
HTHP Filtrate (cm/30 min)			@ 300 °F	4.6		6.8
HTHP Cake Thickness (32nds)				2.0		2.0
Retort Solids Content				10%		10.5%
Corrected Solids (vol%)				8.1%		8.6%
Retort Oil Content				66.5%		66.5%
Retort Water Content				23.5%		23%
O/W Ratio				74:26		74:26
Whole Mud Chlorides (mg/L)				48,500		49,000
Water Phase Salinity (ppm)				244,499		250,414
Whole Mud Alkalinity, Pom				1.9		2.1
Excess Lime (lb/bbl)				2.5 ppb		2.7 ppb
Electrical Stability (volts)				419 v		445 v
Average Specific Gravity of Solids				3.49		3.34
Percent Low Gravity Solids				2.8%		3.8%
ppb Low Gravity Solids				23 ppb		31 ppb
Percent Barite				5.3%		4.8%
ppb Barite				76 ppb		69 ppb
Estimated Total LCM in System			ppb			
Sample Taken By				R. Bowlin	0	M. Meehan

MUD VOLUME (BBL)

In Pits	746 bbl
In Hole	472 bbl
Active	746 bbl
Storage	1520 bbl
Tot. on Location	2738 bbl

PUMP #1

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

PUMP #2

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

RISER BOOSTER

Liner Size	
Stroke	
bbl/stk	0.0000
stk/min	
gal/min	0

CIRCULATION DATA

PHHP = 0 n = 0.686 K = 162.785

Bit Depth = ' Washout = 0% 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.	746.0 bbl	TotalCirc.Stks	Total Circ. Time

DRILLING ASSEMBLY DATA

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

CASING & HOLE DATA

Casing	OD (in.)	ID (in.)	Depth	Top
Riser	0		0'	
Surface	10 1/2		2,991'	0'
Int. Csg.	7 5/8	6.875	10,273'	0'
Open Hole Size		0.000	10,284'	

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	170	
Shaker 2	170	
Shaker 3	170	
Centrifuge 1		

VOLUME ACCOUNTING (bbls)

Prev. Total on Location	2445.8
Transferred In(+)/Out(-)	291.0
Oil Added (+)	4.8
Barite Added (+)	0.0
Other Product Usage (+)	6.3
Water Added (+)	
Left on Cuttings (-)	0.0
Non-Recoverable Vol. (-)	-10.2
Discharged (-)	
Est. Total on Location	2737.7
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: (2816) bbls-----9.5ppg-9.9ppg

OBM On Hand (2445.8) Returned (382) bbls To Newpark

Rec (291) bbls Discounted $15/bbl High LGS OBM

Rig Activity:

Continued to LD the 5.00" DP while waiting on parts for the wellhead, made necessary repairs to the wellhead due to being washed out. Changed out the Catwalk due to unsuccessful attempts to repair the same. Rec. 291-bbls of discounted high LGS OBM for use as a mud cap and sweeps if total losses are encountered. This volume is in Frac #1 and will be kept isolated from the rest of the OBM volumes. Surface volume was conditioned during the day tour in preparation for upcoming drill out. Minimal treatments will be made as necessary to maintain the chemical properties within the recommended parameters. At the time of the morning report LD 5" DP.

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: 432-685-4023	Phone: -	

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

	Daily Total	Cumulative Cost
	$4,970.80	**$44,025.32**
INCLUDING 3RD PARTY CHARGES	**$4,970.80**	**$63,990.78**

OUTSOURCE FLUID SOLUTIONS LLC.

MATERIAL CONSUMPTION

Date	Operator	Well Name and No.	Rig Name and No.	Report No.
05/13/20	MAGNOLIA OIL & GAS	LEVI GOODRICH UNIT 2 - 2H	248	Report #12

DAILY USAGE & COST								CUMULATIVE	
Item	Unit	Unit Cost	Previous Inventory	Received	Closing Inventory	Daily Usage	Daily Cost	Cum Usage	Cum Cost
ALUMINUM TRISTEARATE	25# sk	$162.83							
SAPP (50)	50# sk	$44.50						31	$1,379.50
PHPA LIQUID (pail)	5 gal	$41.36						2	$82.72
DYNA DET	pail	$32.23						4	$128.92
CACL2 (50)	50# sk	$16.60	168		143	25	$415.00	165	$2,739.00
LIME (50)	50# sk	$5.00	200		175	25	$125.00	125	$625.00
BENTONE 910 (50)	50# sk	$59.94	30		30				
BENTONE 990 (50)	50# sk	$83.59	40		40				
OPTI G	50# sk	$30.59	140		120	20	$611.80	40	$1,223.60
OPTI MUL HP	gal	$10.75	500		400	100	$1,075.00	250	$2,687.50
OPTI WET	gal	$8.34	665		565	100	$834.00	250	$2,085.00
NEW PHALT	50# sk	$38.72	120		120			40	$1,548.80
NEWCARB 200	50# sk	$5.25	150		150			20	$105.00
MAGMAFIBER F (25)	25# sk	$28.05	84		84			14	$392.70
OIL SORB (25)	25# sk	$4.75	40		40				
PHPA LIQUID (pail)	5 gal	$41.36	32		32				
GEL (100)	100# sk		70		70				
BENTONE 38 (50)	50# sk	$163.94	40		40				
NEW-WATE (SACK BARITE)	100# sk	$11.50	160		160				
BARITE BULK (100)	100# sk	$7.00	1600		1600			545	$3,815.00
OPTI DRILL (OBM)	bbl	$65.00	2434		2434				
Magnolia Owned OBM	bbl		12		12			118	
Discounted High LGS OBM	bbl	$15.00		291	291				
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							
TRUCKING (cwt)	each	$2.50						2159	$5,398.58
TRUCKING (min)	each	$795.00							
PALLETS (ea)	each	$12.00						35	$420.00
SHRINK WRAP (ea)	each	$12.00						32	$384.00
		Daily Sub-Total $4,970.80			Cumulative Total $44,025.32			$44,025.32	

THIRD PARTY COST SHEET

Date	Operator	Well Name and No.	Rig Name and No.	Report No.
05/13/20	**MAGNOLIA OIL & GAS**	**LEVI GOODRICH UNIT 2 - 2H**	**248**	**Report #12**

DAILY USAGE & COST								**CUMULATIVE**	
Item	Unit	Unit Cost	Previous Inventory	Received	Closing Inventory	Daily Usage	Daily Cost	Cum Usage	Cum Cost
Diesel 4/25/20	gal	$0.91							
Diesel 5/6/20	gal	$0.90						5040	$4,536.00
Diesel 5/8/20	gal	$0.93						7302	$6,790.86
Diesel 5/9/20	gal	$0.96						7006	$6,725.76
Diesel 5/10/20	gal	$0.97	5328		5328			1972	$1,912.84
									$19,965.46

Cumulative Total AES & 3rd Party $63,990.78

OUTSOURCE FLUID SOLUTIONS LLC.

FLUID VOLUME ACCOUNTING

Operator:	MAGNOLIA OIL & GAS
Rig Name:	248
Well Name:	LEVI GOODRICH UNIT 2 - 2H

Grand Totals		WEEK 1							WEEK 2							WEEK 3						
	Date	5/9/20	5/10/20	5/11/20	5/12/20	5/13/20	5/14/20	5/15/20	5/16/20	5/17/20	5/18/20	5/19/20	5/20/20	5/21/20	5/22/20	5/23/20	5/24/20	5/25/20	5/26/20	5/27/20	5/28/20	5/29/20
		Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri
	Bit Size	9 7/8	9 7/8	9 7/8	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4													
	Starting Depth	3,000	4,915	10,102	10,284	10,284	10,284															
	Ending Depth	4,915	10,102	10,284	10,284	10,284																
7,284	Footage Drilled	1,915	5,187	182	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
690	New Hole Vol.	181	491	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Starting System Volume	2,395	2,448	2,477	2,029	2,445	2,747	2,747	2,747	2,747	2,747	2,747	2,747	2,747	2,747	2,747	2,747	2,747	2,747	2,747	2,747	2,747
34	Chemical Additions	11	17			6																
519	Base Fluid Added	129	304	34	47	5																
38	Barite Increase		28	10																		
712	Weighted Mud Added				421	291																
-	Slurry Added																					
72	Water Added	16	56																			
144	Added for Washout	48	48	48																		
1,519	Total Additions	204	453	92	468	302	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
114	Surface Losses	7	23	74	10																	
18	Formation Loss			18																		
535	Mud Loss to Cuttings	132	383	19																		
84	Unrecoverable Volume			42	42																	
35	Centrifuge Losses	12	18	5																		
785	Total Losses	151	425	158	52	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
382	Mud Transferred Out			382																		
2,747	Ending System Volume	2,448	2,477	2,029	2,445	2,747	2,747	2,747	2,747	2,747	2,747	2,747	2,747	2,747	2,747	2,747	2,747	2,747	2,747	2,747	2,747	2,747
130	Mud Recovered		130																			

2,725

Comments:		Comments:	Comments:
5/9/20	Trans in 2101bbls skid vol. Casing had 293bbls F surface displacement. Mud lost to Cuttings 132.1bbls, Evap 6.6, Cent 12bbls	5/16/20	5/23/20
5/10/20	Mud lost to Cuttings 383.4-bbls, Evap 23.2-bbls and Cent. 18-bbls. Mud recovered from, shaker tank runoff due to sweeps and ROC's 129.7-bbls	5/17/20	5/24/20
5/11/20	Returned 382-bbls to Newpark. Mud Lost Cuttings 19-bbls, Cent 5-bbls, Evap 12.5, TOOH/TIH 35-bbls, Shaker Run off 42.2-bbls and Trucking 26-bbls	5/18/20	5/25/20
5/12/20	Rec. 421-bbls 16.0 (KILL) lost 10-bbls to Trucking In… Mud lost to spacer contamination 42-bbls	5/19/20	5/26/20
5/13/20	Lost 10.2-bbls to Pit Settlement	5/20/20	5/27/20
5/14/20		5/21/20	5/28/20
5/15/20		5/22/20	5/29/20

5/13/2020 **Report 12 pm**

110 Old Market St.
St Martinville, LA 70582

TEL: (337) 394-1078

9.2° **3,285' TVD**

Operator	Contractor	County / Parish / Block	Engineer Start Date	24 hr ftg.	Drilled Depth
MAGNOLIA OIL & GAS	**PATTERSON**	**WASHINGTON**	**04/22/20**		**10,284 ft**
Well Name and No.	Rig Name and No.	State	Spud Date	Current ROP	Activity
LEVI GOODRICH UNIT 2 - 2H	**248**	**TEXAS**	**04/26/20**		**P/U Drill Pipe**
Report for	Report for	Field / OSC-G #	Fluid Type	Circulating Rate	Circulating Pressure
Kevin Burt/ Jim Harrison	**Tool Pusher**	**GIDDINGS**	**OBM**		

MUD PROPERTY SPECIFICATIONS

Weight	PV	YP	E.S.	CaCl2	GELS	HTHP
9.5-10	**8-20**	**8-10**	**>300**	**±250K**	**<10 <25**	**<8**

MUD PROPERTIES

Time Sample Taken	1:30		11:00
Sample Location	Suction		suction
Flowline Temperature °F			
Depth (ft)	10,284'		10,284'
Mud Weight (ppg)	9.6		9.6
Funnel Vis (sec/qt) @ 88 °F	55		55
600 rpm	37		37
300 rpm	23		23
200 rpm	16		17
100 rpm	11		12
6 rpm	5		5
3 rpm	4		4
Plastic Viscosity (cp) @ 150 °F	14		14
Yield Point (lb/100 ft²) T0 = 3	9		9
Gel Strength (lb/100 ft²) 10 sec / 10 min	4/6		5/6
Gel Strength (lb/100 ft2) 30 min	9		8
HTHP Filtrate (cm/30 min) @ 300 °F	4.6		4.6
HTHP Cake Thickness (32nds)	2.0		2.0
Retort Solids Content	10%		10.5%
Corrected Solids (vol%)	8.1%		8.6%
Retort Oil Content	66.5%		66%
Retort Water Content	23.5%		23.5%
O/W Ratio	74:26		74:26
Whole Mud Chlorides (mg/L)	48,500		49,000
Water Phase Salinity (ppm)	244,499		246,399
Whole Mud Alkalinity, Pom	1.9		2.0
Excess Lime (lb/bbl)	2.5 ppb		2.6 ppb
Electrical Stability (volts)	419 v		422 v
Average Specific Gravity of Solids	3.49		3.32
Percent Low Gravity Solids	2.8%		3.8%
ppb Low Gravity Solids	23 ppb		31 ppb
Percent Barite	5.3%		4.8%
ppb Barite	76 ppb		69 ppb
Estimated Total LCM in System			
Sample Taken By	R. Bowlin		M. Meehan

MUD VOLUME (BBL)

In Pits	786 bbl
In Hole	432 bbl
Active	897 bbl
Storage	1520 bbl
Tot. on Location	2738 bbl

PUMP #1

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

PUMP #2

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

RISER BOOSTER

Liner Size
Stroke
bbl/stk
stk/min
gal/min

Mud Wt. = 9.6 PV=14 YP=9 **CIRCULATION DATA** n = 0.686 K = 162.8

Bit Depth = 3,296 ' | Washout = | Pump Efficiency = 95%

Drill String Disp.	Volume to Bit	25.5 bbl	Strokes To Bit	Time To Bit
	Bottoms Up Vol.	85.6 bbl	BottomsUp Stks	BottomsUp Time
40.2 bbl	TotalCirc.Vol.	897.1 bbl	TotalCirc.Stks	Total Circ. Time

DRILLING ASSEMBLY DATA

Tubulars	OD (in.)	ID (in.)	Length	Top
Drill Pipe	4.500	3.826	652'	
Hevi Wt	4.500	2.500	2,500'	652'
Collars	5.167	2.750	144'	3,152'
				3,296'

CASING & HOLE DATA

Casing	OD (in.)	ID (in.)	Depth	Top
Riser				
Surface	10 1/2		2,991'	
Int. Csg.	7 5/8	6.875	10,273'	
Open Hole Size		6.875	10,284'	

ANNULAR GEOMETRY & RHEOLOGY

annular section	depth	velocity ft/min	flow reg	ECD lb/gal
6.875x4.5	652'		lam	9.60
6.875x4.5	3,152'		lam	9.60
6.875x5.167	3,296'		lam	9.60

BIT DATA Manuf./Type Ulterra 6115

Size	Depth In	Hours	Footage	ROP ft/hr	Motor/MWD	Calc. Circ. Pressure
6 7/8	10,284 ft					64 psi

SOLIDS CONTROL

Unit	Screens	Hours
Shaker 1	170	
Shaker 2	170	
Shaker 3	170	
Centrifuge 1		

VOLUME ACCOUNTING (bbls)

Prev. Total on Location	2737.7
Transferred In(+)/Out(-)	
Oil Added (+)	
Barite Added (+)	
Other Product Usage (+)	
Water Added (+)	0.3
Left on Cuttings (-)	
Non-Recoverable Vol. (-)	
Discharged (-)	
Est. Total on Location	2738.0
Est. Losses/Gains (-)/(+)	0.0

BIT HYDRAULICS DATA

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

Afternoon Remarks/Recommendations:

Pumping 10 bbl sweep every 300 ft. Sweep Contains:

10 ppb NewCarb, 10 ppb Newphalt and 10 ppb Magnafiber fine.

Afternoon Rig Activity:

Made up BHA with bit, mud motor and MWD. RIH while picking up the 4 1/2" drill pipe.

05/14/20 **Report #13**

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

OUTSOURCE FLUID SOLUTIONS LLC.

37.6° **10,294' TVD**

Operator	Contractor	County / Parish / Block	Engineer Start Date	24 hr ftg.	Drilled Depth
MAGNOLIA OIL & GAS	**PATTERSON**	**WASHINGTON**	**04/22/20**	**96 ft**	**10,380 ft**
Well Name and No.	Rig Name and No.	State	Spud Date	Current ROP	Activity
LEVI GOODRICH UNIT 2 - 2H	**248**	**TEXAS**	**04/26/20**	**68 ft/hr**	**Build Section**
Report for	Report for	Field / OCS-G #	Fluid Type	Circulating Rate	Circulating Pressure
Kevin Burt/ Jim Harrison	**Tool Pusher**	**GIDDINGS**	**OBM**	**298 gpm**	**3,276 psi**

MUD PROPERTY SPECIFICATIONS

Weight	PV	YP	E.S.	CaCl2	GELS	HTHP
9.5-10	**8-20**	**8-10**	**>300**	**±250K**	**<10 <25**	**<8**
				5/14/20		5/13/20
Time Sample Taken				1:30		11:00
Sample Location				Suction		suction
Flowline Temperature °F				129 °F		
Depth (ft)				10,325'		10,284'
Mud Weight (ppg)				9.8		9.6
Funnel Vis (sec/qt)			@ 111 °F	56		55
600 rpm				42		37
300 rpm				26		23
200 rpm				18		17
100 rpm				11		12
6 rpm				6		5
3 rpm				5		4
Plastic Viscosity (cp)			@ 150 °F	16		14
Yield Point (lb/100 ft²)			T0 = 4	10		9
Gel Strength (lb/100 ft²)			10 sec/10 min	5/7		5/6
Gel Strength (lb/100 ft^2)			30 min	10		8
HTHP Filtrate (cm/30 min)			@ 300 °F	5.2		4.6
HTHP Cake Thickness (32nds)				2.0		2.0
Retort Solids Content				11%		10.5%
Corrected Solids (vol%)				9%		8.6%
Retort Oil Content				65.5%		66%
Retort Water Content				23.5%		23.5%
O/W Ratio				74:26		74:26
Whole Mud Chlorides (mg/L)				50,000		49,000
Water Phase Salinity (ppm)				250,170		246,399
Whole Mud Alkalinity, Pom				2.1		2.0
Excess Lime (lb/bbl)				2.7 ppb		2.6 ppb
Electrical Stability (volts)				429 v		422 v
Average Specific Gravity of Solids				3.46		3.32
Percent Low Gravity Solids				3.3%		3.8%
ppb Low Gravity Solids				27 ppb		31 ppb
Percent Barite				5.7%		4.8%
ppb Barite				82 ppb		69 ppb
Estimated Total LCM in System			ppb			
Sample Taken By				R. Bowlin	0	M. Meehan

MUD VOLUME (BBL)

In Pits	838 bbl		
In Hole	398 bbl		
Active	1235 bbl		
Storage	1520 bbl		
Tot. on Location	2755 bbl		

PUMP #1

Liner Size	5.25
Stroke	12
bbl/stk	0.0763
stk/min	93
gal/min	298

PUMP #2

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

RISER BOOSTER

Liner Size	
Stroke	
bbl/stk	0.0000
stk/min	
gal/min	0

CIRCULATION DATA

PHHP = 570 n = 0.692 K = 177.275

Bit Depth = 10,380 ' Washout = 0% Pump Efficiency = 95%

Drill String Disp.							
78.8 bbl	Volume to Bit	126.2 bbl	Strokes To Bit	1,654	Time To Bit	18 min
	Bottoms Up Vol.	271.5 bbl	BottomsUp Stks	3,558	BottomsUp Time	38 min
	TotalCirc.Vol.	1235.3 bbl	TotalCirc.Stks	16,189	Total Circ. Time	174 min

DRILLING ASSEMBLY DATA

Tubulars	OD (in.)	ID (in.)	Length	Top
Drill Pipe	4.500	3.826	7,736'	0'
Hevi Wt	4.500	2.500	2,500'	7,736'
Collars	5.167	2.750	144'	10,236'
				10,380'

CASING & HOLE DATA

Casing	OD (in.)	ID (in.)	Depth	Top
Riser	0		0'	
Surface	10 1/2		2,991'	0'
Int. Csg.	7 5/8	6.875	10,273'	0'
Open Hole Size		6.875	10,380'	

ANNULAR GEOMETRY & RHEOLOGY

annular section	meas. depth	velocity ft/min	flow reg	ECD lb/gal
6.875x4.5	7,736'	270.4	turb	10.41
6.875x4.5	10,236'	270.4	turb	10.46
6.875x5.167	10,273'	355.2	turb	10.54
6.875x5.167	10,380'	355.2	turb	10.62

BIT DATA Manuf./Type Ulterra 6115

Size	Depth In	Hours	Footage	ROP ft/hr
6 7/8	10,284 ft	3.0	96 ft	32.0

SOLIDS CONTROL

Unit	Screens	Hours
Shaker 1	170	24.0
Shaker 2	170	24.0
Shaker 3	170	24.0
Centrifuge 1		

VOLUME ACCOUNTING (bbls)

Prev. Total on Location	2737.7
Transferred In(+)/Out(-)	
Oil Added (+)	26.3
Barite Added (+)	7.0
Other Product Usage (+)	3.9
Water Added (+)	
Left on Cuttings (-)	-3.5
Non-Recoverable Vol. (-)	-6.0
Discharged (-)	-10.0
Est. Total on Location	2755.4
Est. Losses/Gains (-)/(+)	0.0

BIT HYDRAULICS DATA

Bit H.S.I.	Bit ΔP	Nozzles (32nds)		
0.27	58 psi	16	16	16
Bit Impact Force	Nozzle Velocity (ft/sec)	16	16	16
123 lbs	81			

Motor/MWD	Calc. Circ. Pressure
1,600 psi	3,348 psi

Remarks/Recommendations:

OBM RECEIVED: (2816) bbls-----9.5ppg-9.9ppg

On Hand (2,755) bbls Returned (382) bbls

Diesel at 5-BPH Currently No H2O Until Oil % Increases

MW @ 9.8ppg No Sweeps until curve have been landed.

Rig Activity:

PU 6.875" directional BHA and 4.50" DP. Drilled track and 10' of new formation to 10,294'MD. Performed a FIT to 13.0ppg EMW with 9.8ppg active MW @ 1,700 PSI at 10,206'TVD. Drilled ahead on the build section to 10,380'MD at the time of the pm report. No sweeps until build section has been landed. Chemical treatments will be kept to a minimum as necessary to maintain the drilling fluid within the recommended parameters. Currently making additions of Lime, CaCl2 and Diesel.

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: 432-685-4023	Phone: -	

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

	Daily Total	Cumulative Cost
	$3,726.85	**$47,752.17**
INCLUDING 3RD PARTY CHARGES	**$4,751.17**	**$68,741.95**

5/14/2020 **Report 13 pm**

110 Old Market St.
St Martinville, LA 70582

TEL: (337) 394-1078

78.4° **10,608' TVD**

Operator	Contractor	County / Parish / Block	Engineer Start Date	24 hr ftg.	Drilled Depth
MAGNOLIA OIL & GAS	**PATTERSON**	**WASHINGTON**	**04/22/20**	**679 ft**	**11,059 ft**
Well Name and No.	Rig Name and No.	State	Spud Date	Current ROP	Activity
LEVI GOODRICH UNIT 2 - 2H	**248**	**TEXAS**	**04/26/20**	**89 ft/hr**	**Sliding**
Report for	Report for	Field / OSC-G #	Fluid Type	Circulating Rate	Circulating Pressure
Kevin Burt/ Jim Harrison	**Tool Pusher**	**GIDDINGS**	**OBM**	**391 gpm**	**3,910 psi**

MUD PROPERTY SPECIFICATIONS

Weight	PV	YP	E.S.	CaCl2	GELS	HTHP
9.5-10	**8-20**	**8-10**	**>300**	**±250K**	**<10 <25**	**<8**

MUD PROPERTIES				
Time Sample Taken		1:30		11:00
Sample Location		Suction		suction
Flowline Temperature °F		129 °F		148 °F
Depth (ft)		10,325'		11,059'
Mud Weight (ppg)		9.8		9.8
Funnel Vis (sec/qt)	@ 111 °F	56		46
600 rpm		42		44
300 rpm		26		27
200 rpm		18		19
100 rpm		11		12
6 rpm		6		6
3 rpm		5		5
Plastic Viscosity (cp)	@ 150 °F	16		17
Yield Point (lb/100 ft²)	T0 = 4	10		10
Gel Strength (lb/100 ft²)	10 sec / 10 min	5/7		6/8
Gel Strength (lb/100 ft2)	30 min	10		10
HTHP Filtrate (cm/30 min)	@ 300 °F	5.2		5.2
HTHP Cake Thickness (32nds)		2.0		2.0
Retort Solids Content		11%		11%
Corrected Solids (vol%)		9%		9.1%
Retort Oil Content		65.5%		65.5%
Retort Water Content		23.5%		23.5%
O/W Ratio		74:26		74:26
Whole Mud Chlorides (mg/L)		50,000		50,000
Water Phase Salinity (ppm)		250,170		250,170
Whole Mud Alkalinity, Pom		2.1		1.8
Excess Lime (lb/bbl)		2.7 ppb		2.3 ppb
Electrical Stability (volts)		429 v		409 v
Average Specific Gravity of Solids		3.46		3.45
Percent Low Gravity Solids		3.3%		3.4%
ppb Low Gravity Solids		27 ppb		28 ppb
Percent Barite		5.7%		5.7%
ppb Barite		82 ppb		82 ppb
Estimated Total LCM in System				
Sample Taken By		R. Bowlin		M. Meehan

MUD VOLUME (BBL)

In Pits	833 bbl
In Hole	425 bbl
Active	1258 bbl
Storage	1520 bbl
Tot. on Location	2778 bbl

PUMP #1

Liner Size	5.25
Stroke	12
bbl/stk	0.0763
stk/min	61
gal/min	196

PUMP #2

Liner Size	5.25
Stroke	12
bbl/stk	0.0763
stk/min	61
gal/min	196

RISER BOOSTER

Liner Size
Stroke
bbl/stk
stk/min
gal/min

Mud Wt. = 9.8 PV=16 YP=10 **CIRCULATION DATA** n = 0.692 K = 177.3

Bit Depth = 11,059 ' | Washout = | Pump Efficiency = 95%

Drill String Disp.							
82.6 bbl	Volume to Bit	135.9 bbl	Strokes To Bit	1,781	Time To Bit	15 min
	Bottoms Up Vol.	289.3 bbl	BottomsUp Stks	3,792	BottomsUp Time	31 min
	TotalCirc.Vol.	1258.2 bbl	TotalCirc.Stks	16,489	Total Circ. Time	135 min

DRILLING ASSEMBLY DATA

Tubulars	OD (in.)	ID (in.)	Length	Top
Drill Pipe	4.500	3.826	8,415'	
Hevi Wt	4.500	2.500	2,500'	8,415'
Collars	5.167	2.750	144'	10,915'
				11,059'

CASING & HOLE DATA

Casing	OD (in.)	ID (in.)	Depth	Top
Riser				
Surface	10 1/2		2,991'	
Int. Csg.	7 5/8	6.875	10,273'	
Open Hole Size	6.875		11,059'	

ANNULAR GEOMETRY & RHEOLOGY

annular section	depth	velocity ft/min	flow reg	ECD lb/gal
6.875x4.5	8,415'	354.7	turb	10.81
6.875x4.5	10,273'	354.7	turb	10.87
6.875x4.5	10,915'	354.7	turb	10.96
6.875x5.167	11,059'	465.9	turb	11.06

BIT DATA Manuf./Type Ulterra 6115

Size	Depth In	Hours	Footage	ROP ft/hr	Motor/MWD	Calc. Circ. Pressure
6 7/8	10,284 ft	13.0	775 ft	59.6	1,000 psi	3,910 psi

SOLIDS CONTROL

Unit	Screens	Hours
Shaker 1	170	10.0
Shaker 2	170	10.0
Shaker 3	170	10.0
Centrifuge 1		

VOLUME ACCOUNTING (bbls)

Prev. Total on Location	2755.3
Transferred In(+)/Out(-)	
Oil Added (+)	43.4
Barite Added (+)	
Other Product Usage (+)	4.3
Water Added (+)	0.1
Left on Cuttings (-)	-24.9
Non-Recoverable Vol. (-)	
Discharged (-)	
Est. Total on Location	2778.2
Est. Losses/Gains (-)/(+)	0.0

BIT HYDRAULICS DATA

Bit H.S.I.	Bit ΔP	Nozzles (32nds)		
0.61	99 psi	16	16	16
Bit Impact Force	Nozzle Velocity (ft/sec)	16	16	16
211 lbs	106			

Afternoon Remarks/Recommendations:

Pumping 10 bbl sweep every 300 ft. Sweep Contains:

10 ppb NewCarb, 10 ppb Newphalt and 10 ppb Magnafiber fine.

Afternoon Rig Activity:

Sliding ahead while increasing the angle in the build section. Adding Bentone 910 and Bentone 990 to increase the Yield Point and 6/3 RPM readings in the build section. Added Lime to maintain the alkalinity. Added Calcium Chloride to maintain the CaCL2. The HTHP is being maintained with Opti-G.

05/15/20 **Report #14**

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

OUTSOURCE FLUID SOLUTIONS LLC.

78.4° **10,787' TVD**

Operator	Contractor	County / Parish / Block	Engineer Start Date	24 hr ftg.	Drilled Depth
MAGNOLIA OIL & GAS	**PATTERSON**	**WASHINGTON**	**04/22/20**	**1,590 ft**	**11,970 ft**
Well Name and No.	Rig Name and No.	State	Spud Date	Current ROP	Activity
LEVI GOODRICH UNIT 2 - 2H	**248**	**TEXAS**	**04/26/20**	**0 ft/hr**	**Circulating**
Report for	Report for	Field / OCS-G #	Fluid Type	Circulating Rate	Circulating Pressure
Kevin Burt/ Jim Harrison	**Tool Pusher**	**GIDDINGS**	**OBM**	**391 gpm**	**3,209 psi**

MUD PROPERTY SPECIFICATIONS							MUD VOLUME (BBL)		PUMP #1		PUMP #2		RISER BOOSTER	
Weight	PV	YP	E.S.	CaCl2	GELS	HTHP	In Pits	768 bbl	Liner Size	5.25	Liner Size	5.25	Liner Size	
9.5-10	**8-20**	**8-12**	**>300**	**±250K**	**<10 <25**	**<6**	In Hole	465 bbl	Stroke	12	Stroke	12	Stroke	
				5/15/20		5/14/20	Active	1232 bbl	bbl/stk	0.0763	bbl/stk	0.0763	bbl/stk	0.0000
Time Sample Taken				0:30		11:00	Storage	1520 bbl	stk/min	61	stk/min	61	stk/min	
Sample Location				Suction		suction	Tot. on Location	2753 bbl	gal/min	196	gal/min	196	gal/min	0
Flowline Temperature °F				148 °F		148 °F	PHHP = 732		**CIRCULATION DATA**				n = 0.684	K = 199.903
Depth (ft)				11,970'		11,059'	Bit Depth = 11,946 '		Washout = 2%				Pump Efficiency = 95%	
Mud Weight (ppg)				9.8		9.8	Drill String Disp.	Volume to Bit 148.5 bbl	Strokes To Bit 1,946				Time To Bit 16 min	
Funnel Vis (sec/qt)		@ 124 °F		45		46		Bottoms Up Vol. 315.7 bbl	BottomsUp Stks 4,137				BottomsUp Time 34 min	
600 rpm				45		44	87.4 bbl	TotalCirc.Vol. 1232.2 bbl	TotalCirc.Stks 16,148				Total Circ. Time 132 min	
300 rpm				28		27	**DRILLING ASSEMBLY DATA**						**SOLIDS CONTROL**	
200 rpm				21		19	Tubulars	OD (in.)	ID (in.)	Length	Top		Unit	Screens	Hours
100 rpm				14		12	Drill Pipe	4.500	3.826	9,302'	0'		Shaker 1	170	24.0
6 rpm				6		6	Hevi Wt	4.500	2.500	2,500'	9,302'		Shaker 2	170	24.0
3 rpm				5		5	Collars	5.167	2.750	144'	11,802'		Shaker 3	170	24.0
Plastic Viscosity (cp)		@ 150 °F		17		17					11,946'		Centrifuge 1		3.0
Yield Point (lb/100 ft²)		T0 = 4		11		10	**CASING & HOLE DATA**								
Gel Strength (lb/100 ft²)		10 sec/10 min		7/10		6/8	Casing	OD (in.)	ID (in.)	Depth	Top				
Gel Strength (lb/100 ft^2)		30 min		13		10	Riser	0		0'			**VOLUME ACCOUNTING (bbls)**		
HTHP Filtrate (cm/30 min)		@ 300 °F		5.6		5.2	Surface	10 1/2		2,991'	0'		Prev. Total on Location		2755.3
HTHP Cake Thickness (32nds)				2.0		2.0	Int. Csg.	7 5/8	6.875	10,273'	0'		Transferred In(+)/Out(-)		
Retort Solids Content				11.5%		11%							Oil Added (+)		184.5
Corrected Solids (vol%)				9.5%		9.1%							Barite Added (+)		26.4
Retort Oil Content				65%		65.5%	Open Hole Size		7.013	11,970'			Other Product Usage (+)		7.7
Retort Water Content				23.5%		23.5%	**ANNULAR GEOMETRY & RHEOLOGY**						Water Added (+)		
O/W Ratio				73:27		74:26	annular section	meas. depth	velocity ft/min	flow reg	ECD lb/gal		Left on Cuttings (-)		-76.0
Whole Mud Chlorides (mg/L)				50,000		50,000							Evap/Pits/Cent.		-40.0
Water Phase Salinity (ppm)				250,170		250,170							Partial Losses		-104.7
Whole Mud Alkalinity, Pom				2.0		1.8	6.875x4.5	9,302'	354.7	turb	10.76		Est. Total on Location		2753.4
Excess Lime (lb/bbl)				2.6 ppb		2.3 ppb	6.875x4.5	10,273'	354.7	turb	10.76		Est. Losses/Gains (-)/(+)		0.0
Electrical Stability (volts)				415 v		409 v	7.013x4.5	11,802'	331.2	turb	10.82		**BIT HYDRAULICS DATA**		
Average Specific Gravity of Solids				3.32		3.45	7.013x5.167	11,946'	426.2	turb	10.84		Bit H.S.I.	Bit ΔP	Nozzles (32nds)
Percent Low Gravity Solids				4.2%		3.4%							0.61	99 psi	16 16 16
ppb Low Gravity Solids				35 ppb		28 ppb							Bit Impact Force	Nozzle Velocity (ft/sec)	16 16 16
Percent Barite				5.3%		5.7%									
ppb Barite				76 ppb		82 ppb	**BIT DATA**		Manuf./Type		Ulterra 6115		211 lbs	106	
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 7/8	10,284 ft	25.0	1,686 ft	67.4		1,200 psi		4,254 psi

Remarks/Recommendations:

OBM RECEIVED: (2816) bbls-----9.5ppg-9.9ppg

OBM On Hand (2,754) bbls

Partial Losses after being shut in (56)-bbls initially/113.7bbls total.

Diesel at 7-BPH While Drilling Ahead

MW @ 9.8ppg/Resumed Sweeps pumping 10bbls Every 500'

Rig Activity:

Continued drilling the build section to landing point at 11,056'MD. Drilled ahead on the production section to 11,970'MD at the time of the am report. Decision has been made to TOOH due to a suspected wash out in the drill string. Observed partial losses during the day tour after being shut in for rig service. Pumped a 25-bbls LCM sweep and decreased active MW to 9.7ppg, losses subsided. Again increased MW to 9.8ppg to replace ECD while in a static condition during the TOOH. At the time of report building a 14.oppg slug and increasing MW of the 16.0ppg kill mud to 17.0ppg.

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: 432-685-4023	Phone: -		**$6,449.82**	**$54,201.99**

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

INCLUDING 3RD PARTY CHARGES	**$13,988.38**	**$82,730.33**

5/15/2020 **Report 14 pm**

110 Old Market St.
St Martinville, LA 70582

TEL: (337) 394-1078

0.6° **239' TVD**

Operator	Contractor	County / Parish / Block	Engineer Start Date	24 hr ftg.	Drilled Depth
MAGNOLIA OIL & GAS	**PATTERSON**	**WASHINGTON**	**04/22/20**		**11,970 ft**
Well Name and No.	Rig Name and No.	State	Spud Date	Current ROP	Activity
LEVI GOODRICH UNIT 2 - 2H	**248**	**TEXAS**	**04/26/20**		**POOH**
Report for	Report for	Field / OSC-G #	Fluid Type	Circulating Rate	Circulating Pressure
Kevin Burt/ Jim Harrison	**Tool Pusher**	**GIDDINGS**	**OBM**		

MUD PROPERTY SPECIFICATIONS

Weight	PV	YP	E.S.	CaCl2	GELS	HTHP
9.5-10	**8-20**	**8-12**	**>300**	**±250K**	**<10 <25**	**<6**

MUD PROPERTIES

Time Sample Taken	0:30		12:30
Sample Location	Suction		suction
Flowline Temperature °F	148 °F		
Depth (ft)	11,970'		11,970'
Mud Weight (ppg)	9.8		10.0
Funnel Vis (sec/qt) @ 124 °F	45		49
600 rpm	45		47
300 rpm	28		29
200 rpm	21		21
100 rpm	14		14
6 rpm	6		6
3 rpm	5		5
Plastic Viscosity (cp) @ 150 °F	17		18
Yield Point (lb/100 ft²) T0 = 4	11		11
Gel Strength (lb/100 ft²) 10 sec / 10 min	7/10		7/10
Gel Strength (lb/100 ft2) 30 min	13		12
HTHP Filtrate (cm/30 min) @ 300 °F	5.6		5.6
HTHP Cake Thickness (32nds)	2.0		2.0
Retort Solids Content	11.5%		12%
Corrected Solids (vol%)	9.5%		10.1%
Retort Oil Content	65%		64.5%
Retort Water Content	23.5%		23.5%
O/W Ratio	73:27		73:27
Whole Mud Chlorides (mg/L)	50,000		50,000
Water Phase Salinity (ppm)	250,170		250,170
Whole Mud Alkalinity, Pom	2.0		1.8
Excess Lime (lb/bbl)	2.6 ppb		2.3 ppb
Electrical Stability (volts)	415 v		411 v
Average Specific Gravity of Solids	3.32		3.43
Percent Low Gravity Solids	4.2%		3.8%
ppb Low Gravity Solids	35 ppb		32 ppb
Percent Barite	5.3%		6.2%
ppb Barite	76 ppb		89 ppb
Estimated Total LCM in System			
Sample Taken By	R. Bowlin		M. Meehan

MUD VOLUME (BBL)

In Pits	670 bbl
In Hole	549 bbl
Active	677 bbl
Storage	1325 bbl
Tot. on Location	2544 bbl

PUMP #1

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

PUMP #2

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

RISER BOOSTER

Liner Size
Stroke
bbl/stk
stk/min
gal/min

Mud Wt. = 9.8 PV=17 YP=11 **CIRCULATION DATA** n = 0.684 K = 199.9

Bit Depth = 239 ' | Washout = 2% | Pump Efficiency = 95%

Drill String Disp.	Volume to Bit	1.6 bbl	Strokes To Bit	Time To Bit
	Bottoms Up Vol.	5.4 bbl	BottomsUp Stks	BottomsUp Time
4.0 bbl	TotalCirc.Vol.	677.0 bbl	TotalCirc.Stks	Total Circ. Time

DRILLING ASSEMBLY DATA

Tubulars	OD (in.)	ID (in.)	Length	Top
Drill Pipe	4.500	3.826		
Hevi Wt	4.500	2.500	95'	
Collars	5.167	2.750	144'	95'
				239'

CASING & HOLE DATA

Casing	OD (in.)	ID (in.)	Depth	Top
Riser				
Surface	10 1/2		2,991'	
Int. Csg.	7 5/8	6.875	10,273'	
Open Hole Size	7.013		11,970'	

ANNULAR GEOMETRY & RHEOLOGY

annular section	depth	velocity ft/min	flow reg	ECD lb/gal
6.875x4.5	95'		lam	9.80
6.875x5.167	239'		lam	9.80

BIT DATA Manuf./Type Ulterra 6115

Size	Depth In	Hours	Footage	ROP ft/hr
6 7/8	10,284 ft	25.0	1,686 ft	67.4

SOLIDS CONTROL

Unit	Screens	Hours
Shaker 1	170	
Shaker 2	170	
Shaker 3	170	
Centrifuge 1		

VOLUME ACCOUNTING (bbls)

Prev. Total on Location	2753.4
Transferred In(+)/Out(-)	
Oil Added (+)	71.6
Barite Added (+)	
Other Product Usage (+)	
Water Added (+)	
Left on Cuttings (-)	
Evap/Pits/Cent.	
Partial Losses	-281.2
Est. Total on Location	2543.7
Est. Losses/Gains (-)/(+)	0.0

BIT HYDRAULICS DATA

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

Motor/MWD	Calc. Circ. Pressure
900 psi	907 psi

Afternoon Remarks/Recommendations:

Pumping 10 bbl sweep every 300 ft. Sweep Contains:

10 ppb NewCarb, 10 ppb Newphalt and 10 ppb Magnafiber fine.

Afternoon Rig Activity:

POOH while pumping 17.0 ppg mud down the annulus. Built 8.9 ppg mud in the slug pit. Reducing the mud wt.in the system to 9.8 ppg with additions of diesel. Will catch the 17.0 ppg mud in the trip tank and transfer to reserve when RIH.

05/16/20 **Report #15**

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

OUTSOURCE FLUID SOLUTIONS LLC.

94.3° **10,543' TVD**

Operator	Contractor	County / Parish / Block	Engineer Start Date	24 hr ftg.	Drilled Depth
MAGNOLIA OIL & GAS	**PATTERSON**	**WASHINGTON**	**04/22/20**	**0 ft**	**11,970 ft**
Well Name and No.	Rig Name and No.	State	Spud Date	Current ROP	Activity
LEVI GOODRICH UNIT 2 - 2H	**248**	**TEXAS**	**04/26/20**	**0 ft/hr**	**Circulating**
Report for	Report for	Field / OCS-G #	Fluid Type	Circulating Rate	Circulating Pressure
Kevin Burt/ Jim Harrison	**Tool Pusher**	**GIDDINGS**	**OBM**	**596 gpm**	**3,056 psi**

MUD PROPERTY SPECIFICATIONS

Weight	PV	YP	E.S.	CaCl2	GELS	HTHP
9.5-10	**8-20**	**8-12**	**>300**	**±250K**	**<10 <25**	**<6**
				5/16/20		5/15/20
Time Sample Taken				1:30		12:30
Sample Location				Suction		suction
Flowline Temperature °F						
Depth (ft)				11,970'		11,970'
Mud Weight (ppg)				10.0		10.0
Funnel Vis (sec/qt)			@ 106 °F	49		49
600 rpm				47		47
300 rpm				28		29
200 rpm				20		21
100 rpm				14		14
6 rpm				6		6
3 rpm				5		5
Plastic Viscosity (cp)			@ 150 °F	19		18
Yield Point (lb/100 ft²)			T0 = 4	9		11
Gel Strength (lb/100 ft²)			10 sec/10 min	6/9		7/10
Gel Strength (lb/100 ft^2)			30 min	12		12
HTHP Filtrate (cm/30 min)			@ 300 °F	6.4		5.6
HTHP Cake Thickness (32nds)				2.0		2.0
Retort Solids Content				12%		12%
Corrected Solids (vol%)				10.1%		10.1%
Retort Oil Content				65.5%		64.5%
Retort Water Content				22.5%		23.5%
O/W Ratio				74:26		73:27
Whole Mud Chlorides (mg/L)				48,000		50,000
Water Phase Salinity (ppm)				250,669		250,170
Whole Mud Alkalinity, Pom				1.4		1.8
Excess Lime (lb/bbl)				1.8 ppb		2.3 ppb
Electrical Stability (volts)				478 v		411 v
Average Specific Gravity of Solids				3.46		3.43
Percent Low Gravity Solids				3.7%		3.8%
ppb Low Gravity Solids				30 ppb		32 ppb
Percent Barite				6.4%		6.2%
ppb Barite				92 ppb		89 ppb
Estimated Total LCM in System			ppb			
Sample Taken By				R. Bowlin	0	M. Meehan

MUD VOLUME (BBL)

In Pits	786 bbl
In Hole	482 bbl
Active	1268 bbl
Storage	1080 bbl
Tot. on Location	2348 bbl

PUMP #1

Liner Size	5.25
Stroke	12
bbl/stk	0.0763
stk/min	91
gal/min	292

PUMP #2

Liner Size	5.25
Stroke	12
bbl/stk	0.0763
stk/min	95
gal/min	304

RISER BOOSTER

Liner Size	
Stroke	
bbl/stk	0.0000
stk/min	
gal/min	0

PHHP = 1063 **CIRCULATION DATA** n = 0.747 K = 135.177

Bit Depth = 11,970 ' | Washout = 2% | Pump Efficiency = 95%

Drill String Disp.						
67.9 bbl	Volume to Bit	168.4 bbl	Strokes To Bit	2,207	Time To Bit	12 min
	Bottoms Up Vol.	313.5 bbl	BottomsUp Stks	4,108	BottomsUp Time	22 min
	TotalCirc.Vol.	1267.9 bbl	TotalCirc.Stks	16,616	Total Circ. Time	89 min

DRILLING ASSEMBLY DATA

Tubulars	OD (in.)	ID (in.)	Length	Top
Drill Pipe	4.500	3.826	11,731'	0'
Hevi Wt	4.500	2.500	95'	11,731'
Collars	5.167	2.750	144'	11,826'
				11,970'

CASING & HOLE DATA

Casing	OD (in.)	ID (in.)	Depth	Top
Riser	0		0'	
Surface	10 1/2		2,991'	0'
Int. Csg.	7 5/8	6.875	10,273'	0'
Open Hole Size		6.885	11,970'	

ANNULAR GEOMETRY & RHEOLOGY

annular section	meas. depth	velocity ft/min	flow reg	ECD lb/gal
6.875x4.5	10,273'	540.8	turb	12.09
6.885x4.5	11,731'	538.1	turb	12.30
6.885x4.5	11,826'	538.1	turb	12.32
6.885x5.167	11,970'	705.7	turb	12.39

BIT DATA Manuf./Type Security GDT

Size	Depth In	Hours	Footage	ROP ft/hr
6 3/4	11,970 ft	1.0	6 ft	6.0

SOLIDS CONTROL

Unit	Screens	Hours
Shaker 1	170	24.0
Shaker 2	170	24.0
Shaker 3	170	24.0
Centrifuge 1		

VOLUME ACCOUNTING (bbls)

Prev. Total on Location	2753.4
Transferred In(+)/Out(-)	
Oil Added (+)	118.4
Barite Added (+)	25.7
Other Product Usage (+)	0.7
Water Added (+)	
Left on Cuttings (-)	0.0
Evap/Pits/Trips.	-50.4
Partial Losses	-500.0
Est. Total on Location	2347.9
Est. Losses/Gains (-)/(+)	0.0

BIT HYDRAULICS DATA

Bit H.S.I.	Bit ΔP	Nozzles (32nds)		
2.29	236 psi	16	16	16
Bit Impact Force	Nozzle Velocity (ft/sec)	16	16	16
501 lbs	162			

Motor/MWD	Calc. Circ. Pressure
900 psi	5,001 psi

Remarks/Recommendations:

OBM RECEIVED: (2816) bbls-----9.5ppg-9.9ppg

OBM On Hand (2,348) bbls

Partial Losses from Trip (520.4) bbls

Diesel at 7-BPH While Drilling Ahead H2O at 2-BPH

MW @ 9.7ppg/Resume Sweeps pumping 10bbls Every 500'

Rig Activity:

Continued TOOH due to washout in the drill string, located the same in the UBHO sub. Maintained hole fill with 17.0ppg Kill mud to control pressures on surface, TIH to 6,067'MD and circulated out heavy mud, observed highest MW of 11-11.2ppg and diverted the same to the trip tanks 72bbls total. TIH to 8,500'MD broke circ for 15 min, TIH to 10,500'MD circulated a BU to remove any gas that migrated into the wellbore. Plan to relog the last 1 1/2 Stands. Sweep program will resume once on bottom drilling ahead/ Circ. Chemical additions to be made as necessary to maintain the drilling fluid within the recommended parameters. Cutting MW back to 9.7ppg

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: 432-685-4023	Phone: -	

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

	Daily Total	Cumulative Cost
	$30,973.75	**$85,175.74**
INCLUDING 3RD PARTY CHARGES	**$35,837.89**	**$118,568.22**

5/16/2020 **Report 15 pm**

110 Old Market St.
St Martinville, LA 70582

TEL: (337) 394-1078

91.6° **10,483' TVD**

Operator	Contractor	County / Parish / Block	Engineer Start Date	24 hr ftg.	Drilled Depth
MAGNOLIA OIL & GAS	**PATTERSON**	**WASHINGTON**	**04/22/20**	**998 ft**	**12,968 ft**
Well Name and No.	Rig Name and No.	State	Spud Date	Current ROP	Activity
LEVI GOODRICH UNIT 2 - 2H	**248**	**TEXAS**	**04/26/20**	**121 ft/hr**	**Drilling**
Report for	Report for	Field / OSC-G #	Fluid Type	Circulating Rate	Circulating Pressure
Kevin Burt/ Jim Harrison	**Tool Pusher**	**GIDDINGS**	**OBM**	**385 gpm**	**3,143 psi**

MUD PROPERTY SPECIFICATIONS

Weight	PV	YP	E.S.	CaCl2	GELS	HTHP
9.5-10	**8-20**	**8-12**	**>300**	**±250K**	**<10 <25**	**<6**

MUD PROPERTIES

Time Sample Taken	3:36	3:00	12:00
Sample Location	suction	shaker	suction
Flowline Temperature °F	114 °F	112 °F	140 °F
Depth (ft)	12,225'	12,136'	12,968'
Mud Weight (ppg)	9.9	9.9	9.8
Funnel Vis (sec/qt) @ 90 °F	46	44	42
600 rpm	35	36	34
300 rpm	22	23	22
200 rpm	15	17	16
100 rpm	10	11	12
6 rpm	5	5	6
3 rpm	4	4	5
Plastic Viscosity (cp) @ 150 °F	13	13	12
Yield Point (lb/100 ft²) T0 = 3	9	10	10
Gel Strength (lb/100 ft²) 10 sec / 10 min	4/6	5/10	6/8
Gel Strength (lb/100 ft2) 30 min	10	12	10
HTHP Filtrate (cm/30 min) @ 300 °F	6.8	8.0	6.0
HTHP Cake Thickness (32nds)	2.0	2.0	2.0
Retort Solids Content	12%	12.5%	12%
Corrected Solids (vol%)	10.3%	10.8%	10.2%
Retort Oil Content	67.5%	67%	67.5%
Retort Water Content	20.5%	20.5%	20.5%
O/W Ratio	77:23	77:23	77:23
Whole Mud Chlorides (mg/L)	42,000	43,000	45,000
Water Phase Salinity (ppm)	243,150	247,507	256,071
Whole Mud Alkalinity, Pom	1.0	1.2	1.5
Excess Lime (lb/bbl)	1.3 ppb	1.6 ppb	2 ppb
Electrical Stability (volts)	511 v	500 v	490 v
Average Specific Gravity of Solids	3.38	3.26	3.26
Percent Low Gravity Solids	4.2%	5.2%	4.9%
ppb Low Gravity Solids	35 ppb	43 ppb	41 ppb
Percent Barite	6.1%	5.6%	5.3%
ppb Barite	88 ppb	81 ppb	76 ppb
Estimated Total LCM in System			
Sample Taken By	R. Bowlin	R. Bowlin	M. Meehan

MUD VOLUME (BBL)

In Pits	784 bbl
In Hole	522 bbl
Active	1306 bbl
Storage	993 bbl
Tot. on Location	2299 bbl

PUMP #1

Liner Size	5.25
Stroke	12
bbl/stk	0.0763
stk/min	60
gal/min	192

PUMP #2

Liner Size	5.25
Stroke	12
bbl/stk	0.0763
stk/min	60
gal/min	192

RISER BOOSTER

Liner Size
Stroke
bbl/stk
stk/min
gal/min

Mud Wt. = 9.9 PV=13 YP=9 **CIRCULATION DATA** n = 0.670 K = 172.1

Bit Depth = 12,968 ' Washout = 2% Pump Efficiency = 95%

Drill String Disp.							
73.4 bbl	Volume to Bit	182.6 bbl	Strokes To Bit	2,393	Time To Bit	20 min
	Bottoms Up Vol.	339.8 bbl	BottomsUp Stks	4,453	BottomsUp Time	37 min
	TotalCirc.Vol.	1306.4 bbl	TotalCirc.Stks	17,120	Total Circ. Time	143 min

DRILLING ASSEMBLY DATA

Tubulars	OD (in.)	ID (in.)	Length	Top
Drill Pipe	4.500	3.826	12,729'	
Hevi Wt	4.500	2.500	95'	12,729'
Collars	5.167	2.750	144'	12,824'
				12,968'

CASING & HOLE DATA

Casing	OD (in.)	ID (in.)	Depth	Top
Riser				
Surface	10 1/2		2,991'	
Int. Csg.	7 5/8	6.875	10,273'	
Open Hole Size	6.885		12,968'	

ANNULAR GEOMETRY & RHEOLOGY

annular section	depth	velocity ft/min	flow reg	ECD lb/gal
6.875x4.5	10,273'	348.9	turb	10.87
6.885x4.5	12,729'	347.2	turb	11.15
6.885x4.5	12,824'	347.2	turb	11.26
6.885x5.167	12,968'	455.3	turb	11.38

BIT DATA Manuf./Type Security GDT

Size	Depth In	Hours	Footage	ROP ft/hr
6 3/4	11,970 ft	10.0	998 ft	99.8

SOLIDS CONTROL

Unit	Screens	Hours
Shaker 1	170	12.0
Shaker 2	170	12.0
Shaker 3	170	12.0
Centrifuge 1		2.0

VOLUME ACCOUNTING (bbls)

Prev. Total on Location	2347.9
Transferred In(+)/Out(-)	
Oil Added (+)	118.9
Barite Added (+)	
Other Product Usage (+)	7.5
Water Added (+)	12.0
Left on Cuttings (-)	-46.0
Discharged (-)	-19.9
Partial Losses	-121.0
Est. Total on Location	2299.4
Est. Losses/Gains (-)/(+)	0.0

BIT HYDRAULICS DATA

Bit H.S.I.	Bit ΔP	Nozzles (32nds)		
0.61	97 psi	16	16	16
Bit Impact Force	Nozzle Velocity (ft/sec)	16	16	16
207 lbs	105			

Motor/MWD	Calc. Circ. Pressure
1,300 psi	3,143 psi

Afternoon Remarks/Recommendations:

Pumping 10 bbl sweep every 300 ft. Sweep Contains:

10 ppb NewCarb, 10 ppb Newphalt and 10 ppb Magnafiber fine.

Afternoon Rig Activity:

Drilling ahead and sliding as needed to maintain the angle in the lateral section. Pumping a 10 bbl LCM sweep every 300 ft. Reduced the mud wt. to 9.8 ppg with the centrifuge and diesel additions. Added Bentone 910 and Bentone 990 to increase the Yield Point and 6/3 RPM readings. Added Calcium Chloride to maintain the CaCL2. Added Lime to increase the alkalinity.

5/17/2020 **Report 16 pm**

110 Old Market St.
St Martinville, LA 70582

TEL: (337) 394-1078

93.4° **10,371' TVD**

Operator	Contractor	County / Parish / Block	Engineer Start Date	24 hr ftg.	Drilled Depth
MAGNOLIA OIL & GAS	**PATTERSON**	**WASHINGTON**	**04/22/20**	**790 ft**	**15,095 ft**
Well Name and No.	Rig Name and No.	State	Spud Date	Current ROP	Activity
LEVI GOODRICH UNIT 2 - 2H	**248**	**TEXAS**	**04/26/20**	**187 ft/hr**	**Drilling**
Report for	Report for	Field / OSC-G #	Fluid Type	Circulating Rate	Circulating Pressure
Kevin Burt/ Jim Harrison	**Tool Pusher**	**GIDDINGS**	**OBM**	**327 gpm**	**3,268 psi**

MUD PROPERTY SPECIFICATIONS

Weight	PV	YP	E.S.	CaCl2	GELS	HTHP
9.5-10	**8-20**	**8-12**	**>300**	**±250K**	**<10 <25**	**<6**

MUD PROPERTIES

Time Sample Taken	2:15	19:18	12:00
Sample Location	Suction	Shaker	suction
Flowline Temperature °F	132 °F	138 °F	140 °F
Depth (ft)	14,286'	16,557'	15,095'
Mud Weight (ppg)	9.5	9.7	9.3
Funnel Vis (sec/qt) @ 118 °F	45	40	44
600 rpm	36	32	34
300 rpm	23	21	22
200 rpm	18	15	17
100 rpm	13	10	13
6 rpm	6	5	6
3 rpm	5	4	5
Plastic Viscosity (cp) @ 150 °F	13	11	12
Yield Point (lb/100 ft²) T0 = 4	10	10	10
Gel Strength (lb/100 ft²) 10 sec / 10 min	7/9	5/8	7/9
Gel Strength (lb/100 ft2) 30 min	13	11	12
HTHP Filtrate (cm/30 min) @ 300 °F	6.0	5.6	5.8
HTHP Cake Thickness (32nds)	2.0	2.0	2.0
Retort Solids Content	11%	12%	11%
Corrected Solids (vol%)	9.2%	10.3%	9.3%
Retort Oil Content	68%	67.5%	68%
Retort Water Content	21%	20.5%	21%
O/W Ratio	76:24	77:23	76:24
Whole Mud Chlorides (mg/L)	45,000	44,000	45,000
Water Phase Salinity (ppm)	251,507	251,813	251,507
Whole Mud Alkalinity, Pom	1.3	1.0	1.5
Excess Lime (lb/bbl)	1.7 ppb	1.3 ppb	2 ppb
Electrical Stability (volts)	472 v	466 v	475 v
Average Specific Gravity of Solids	3.13	3.14	2.86
Percent Low Gravity Solids	5.1%	5.6%	6.6%
ppb Low Gravity Solids	42 ppb	46 ppb	54 ppb
Percent Barite	4.1%	4.7%	2.7%
ppb Barite	59 ppb	67 ppb	39 ppb
Estimated Total LCM in System			
Sample Taken By	R. Bowlin	R. Bowlin	M. Meehan

MUD VOLUME (BBL)

In Pits	643 bbl
In Hole	609 bbl
Active	1252 bbl
Storage	983 bbl
Tot. on Location	2235 bbl

PUMP #1

Liner Size	5.25
Stroke	12
bbl/stk	0.0763
stk/min	51
gal/min	163

PUMP #2

Liner Size	5.25
Stroke	12
bbl/stk	0.0763
stk/min	51
gal/min	163

RISER BOOSTER

Liner Size
Stroke
bbl/stk
stk/min
gal/min

Mud Wt. = 9.5 PV=13 YP=10 **CIRCULATION DATA** n = 0.646 K = 208.3

Bit Depth = 15,095 ' Washout = 2% Pump Efficiency = 95%

Drill String Disp.							
85.0 bbl	Volume to Bit	212.9 bbl	Strokes To Bit	2,790	Time To Bit	27 min
	Bottoms Up Vol.	395.9 bbl	BottomsUp Stks	5,188	BottomsUp Time	51 min
	TotalCirc.Vol.	1251.8 bbl	TotalCirc.Stks	16,404	Total Circ. Time	161 min

DRILLING ASSEMBLY DATA

Tubulars	OD (in.)	ID (in.)	Length	Top
Drill Pipe	4.500	3.826	14,856'	
Hevi Wt	4.500	2.500	95'	14,856'
Collars	5.167	2.750	144'	14,951'
				15,095'

CASING & HOLE DATA

Casing	OD (in.)	ID (in.)	Depth	Top
Riser				
Surface	10 1/2		2,991'	
Int. Csg.	7 5/8	6.875	10,273'	
Open Hole Size	6.885		15,095'	

ANNULAR GEOMETRY & RHEOLOGY

annular section	depth	velocity ft/min	flow reg	ECD lb/gal
6.875x4.5	10,273'	296.6	turb	10.32
6.885x4.5	14,856'	295.1	turb	10.77
6.885x4.5	14,951'	295.1	turb	10.96
6.885x5.167	15,095'	387.0	turb	11.17

BIT DATA Manuf./Type Security GDT

Size	Depth In	Hours	Footage	ROP ft/hr
6 3/4	11,970 ft	32.0	3,125 ft	97.7

SOLIDS CONTROL

Unit	Screens	Hours
Shaker 1	170	12.0
Shaker 2	170	12.0
Shaker 3	170	12.0
Centrifuge 1		2.0

VOLUME ACCOUNTING (bbls)

Prev. Total on Location	2140.7
Transferred In(+)/Out(-)	420.0
Oil Added (+)	13.8
Barite Added (+)	
Other Product Usage (+)	4.4
Water Added (+)	50.0
Left on Cuttings (-)	-36.4
Discharged (-)	-14.7
Partial Losses	-343.0
Est. Total on Location	2234.8
Est. Losses/Gains (-)/(+)	0.0

BIT HYDRAULICS DATA

Bit H.S.I.	Bit ΔP	Nozzles (32nds)		
0.36	67 psi	16	16	16
Bit Impact Force	Nozzle Velocity (ft/sec)	16	16	16
143 lbs	89			

Motor/MWD	Calc. Circ. Pressure
1,400 psi	2,936 psi

Afternoon Remarks/Recommendations:

Pumping 10 bbl sweep every 300 ft. Sweep Contains:

10 ppb NewCarb, 10 ppb Newphalt and 10 ppb Magnafiber fine.

Afternoon Rig Activity:

Drilling ahead and sliding as needed to maintain the angle in the lateral section. Pumping a 10 bbl LCM sweep every stand to reduce losses to the formation. Reduced the mud wt. to 9.3 ppg with the centrifuge and diesel additions. Added Bentone 938 and Bentone 990 to increase the Yield Point and 6/3 RPM readings. Added Calcium Chloride to maintain the CaCL2. Added Lime to increase the alkalinity. Added Opti-G to maintain the HTHP fluid loss.

05/18/20 **Report #17**

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

OUTSOURCE FLUID SOLUTIONS LLC.

93.2° **10,335' TVD**

Operator	Contractor	County / Parish / Block	Engineer Start Date	24 hr ftg.	Drilled Depth
MAGNOLIA OIL & GAS	**PATTERSON**	**WASHINGTON**	**04/22/20**	**1,600 ft**	**15,905 ft**
Well Name and No.	Rig Name and No.	State	Spud Date	Current ROP	Activity
LEVI GOODRICH UNIT 2 - 2H	**248**	**TEXAS**	**04/26/20**	**0 ft/hr**	**Drilling Ahead**
Report for	Report for	Field / OCS-G #	Fluid Type	Circulating Rate	Circulating Pressure
Kevin Burt/ Jim Harrison	**Tool Pusher**	**GIDDINGS**	**WBM**	**240 gpm**	**3,447 psi**

MUD PROPERTY SPECIFICATIONS							MUD VOLUME (BBL)		PUMP #1		PUMP #2		RISER BOOSTER	
Weight	PV	YP	GELS	pH	API fl	% Solids	In Pits	73 bbl	Liner Size	5.25	Liner Size	5.25	Liner Size	
8.4-9.4	**0-10**	**0-10**	**<5 <15**	**8-9**	**<30**	**2-10**	In Hole	642 bbl	Stroke	12	Stroke	12	Stroke	
				5/18/20			Active	715 bbl	bbl/stk	0.0763	bbl/stk	0.0763	bbl/stk	0.0000
Time Sample Taken				2:00			Storage		stk/min	75	stk/min	0	stk/min	
Sample Location				pit			Tot. on Location	715 bbl	gal/min	240	gal/min	0	gal/min	0
Flowline Temperature °F							PHHP = 483		CIRCULATION DATA				n = 0.585	K = 26.563
Depth (ft)				15,894'			Bit Depth = 15,905 '		Washout = 2%				Pump Efficiency = 95%	
Mud Weight (ppg)				8.4			Drill String Disp.	Volume to Bit 224.4 bbl	Strokes To Bit 2,941				Time To Bit 39 min	
Funnel Vis (sec/qt)			@ 0 °F	27				Bottoms Up Vol. 417.3 bbl	BottomsUp Stks 5,468				BottomsUp Time 73 min	
600 rpm				3			89.4 bbl	TotalCirc.Vol. 714.7 bbl	TotalCirc.Stks 9,365				Total Circ. Time 125 min	
300 rpm				2			DRILLING ASSEMBLY DATA						SOLIDS CONTROL	
200 rpm				1			Tubulars	OD (in.)	ID (in.)	Length	Top		Unit	Screens Hours
100 rpm				1			Drill Pipe	4.500	3.826	15,666'	0'		Shaker 1	170 24.0
6 rpm				1			Hevi Wt	4.500	2.500	95'	15,666'		Shaker 2	170 24.0
3 rpm				1			Collars	5.167	2.750	144'	15,761'		Shaker 3	170 24.0
Plastic Viscosity (cp)			@ 120 °F	1							15,905'		Centrifuge 1	8.0
Yield Point (lb/100 ft²)			T0 = 1	1			CASING & HOLE DATA							
Gel Strength (lb/100 ft²)			10 sec/10 min	1/1			Casing	OD (in.)	ID (in.)	Depth	Top			
Gel Strength (lb/100 ft^2)			30 min	1			Riser	0		0'			VOLUME ACCOUNTING (bbls)	
API Filtrate / Cake Thickness							Surface	10 1/2		2,991'	0'		Prev. Total on Location	2140.7
HTHP Filtrate / Cake Thickness			@ 0 °F				Int. Csg.	7 5/8	6.875	10,273'	0'		Transferred In(+)/Out(-)	-1631.7
Retort Solids Content				0.4%									Oil Added (+)	183.1
Retort Oil Content													Barite Added (+)	29.2
Retort Water Content				99.6%			Open Hole Size		6.885	15,905'			Other Product Usage (+)	10.7
Sand Content				0%			ANNULAR GEOMETRY & RHEOLOGY						Water Added (+)	384.0
M.B.T. (Methylene Blue Capacity) (ppb)							annular section	meas. depth	velocity ft/min	flow reg	ECD lb/gal		Left on Cuttings (-)	-73.7
pH				8.0									Discharged (-)	-1.3
Alkalinity, Mud Pm													Lost Returns (-)	-326.4
Alkalinities, Filtrate Pf/Mf							6.875x4.5	10,273'	218.1	turb	8.58		Est. Total on Location	714.7
Chlorides (mg/L)				375			6.885x4.5	15,666'	217.0	turb	8.67		Est. Losses/Gains (-)/(+)	0.0
Calcium (ppm)				40			6.885x4.5	15,761'	217.0	turb	8.67		BIT HYDRAULICS DATA	
Excess Lime (lb/bbl)							6.885x5.167	15,905'	284.5	turb	8.68		Bit H.S.I. / Bit ΔP / Nozzles (32nds)	
Average Specific Gravity of Solids				2.60	2.60	2.60							0.13 / 32 psi / 16 16 16	
Percent Low Gravity Solids				0.4%									Bit Impact Force / Nozzle Velocity (ft/sec)	16 16 16
Percent Drill Solids				0.4%										
PPA Spurt / Total (ml) @			@ 0 °F				BIT DATA		Manuf./Type		Security GDT		68 lbs / 65	
Estimated Total LCM in System			ppb				Size	Depth In	Hours	Footage	ROP ft/hr		Motor/MWD	Calc. Circ. Pressure
Sample Taken By				R. Bowlin			6 3/4	11,970 ft	53.0	3,935 ft	74.2		2,975 psi	3,440 psi

Remarks/Recommendations:

OBM RECEIVED: (4102) bbls-----9.5ppg-9.9ppg

OBM On Hand (975) bbls

OBM Lost to formation (1,916) bbls and (642) Left in hole under mud cap

Sweeps 5-bbls of 10-ppg discounted OBM every stand

PHPA added to Drill H2O

Rig Activity:

Drilled in the lateral section with moderate/severe losses T 15,895'MD. MW adjustments were necessary to control both losses pressures from 9.5ppg to 9.0ppg. Observed an influxwith a 9.0ppg MW, circulated out the same. Again increased active MW to 9.2ppg to control formation pressures while losing downhole. Max gas of 3,659 units observed during this time. Currently under a 10.0pg/ 15.0ppg mud cap and drilling with fresh H2O. Discounted OBM will be used for sweeps, pumping 5-bbls every stand to aid in transporting the cuttings to the loss zone along with provide lubricity. Additions of PHPA being added to the drill H2O for encapsulation.

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: 432-685-4023	Phone: -	

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

	Daily Total	Cumulative Cost
	$151,376.08	**$272,277.92**
INCLUDING 3RD PARTY CHARGES	**$162,718.84**	**$329,866.80**

OUTSOURCE FLUID SOLUTIONS LLC.

MATERIAL CONSUMPTION

Date	Operator	Well Name and No.	Rig Name and No.	Report No.
05/18/20	MAGNOLIA OIL & GAS	LEVI GOODRICH UNIT 2 - 2H	248	Report #17

		DAILY USAGE & COST						CUMULATIVE	
Item	Unit	Unit Cost	Previous Inventory	Received	Closing Inventory	Daily Usage	Daily Cost	Cum Usage	Cum Cost
ALUMINUM TRISTEARATE	25# sk	$162.83							
SAPP (50)	50# sk	$44.50						31	$1,379.50
PHPA LIQUID (pail)	5 gal	$41.36						2	$82.72
DYNA DET	pail	$32.23						4	$128.92
CACL2 (50)	50# sk	$16.60		265	257	8	$132.80	316	$5,245.60
LIME (50)	50# sk	$5.00	40	250	257	33	$165.00	293	$1,465.00
BENTONE 910 (50)	50# sk	$59.94	11		9	2	$119.88	21	$1,258.74
BENTONE 990 (50)	50# sk	$83.59	17		13	4	$334.36	27	$2,256.93
OPTI G	50# sk	$30.59	80	80	140	20	$611.80	100	$3,059.00
OPTI MUL HP	gal	$10.75	275	275	550			375	$4,031.25
OPTI WET	gal	$8.34	515		515			300	$2,502.00
NEW PHALT	50# sk	$38.72	100		90	10	$387.20	70	$2,710.40
NEWCARB 200	50# sk	$5.25	120		100	20	$105.00	70	$367.50
MAGMAFIBER F (25)	25# sk	$28.05	36	96	132			62	$1,739.10
OIL SORB (25)	25# sk	$4.75	40		40				
PHPA LIQUID (pail)	5 gal	$41.36	32		30	2	$82.72	2	$82.72
GEL (100)	100# sk		70		70				
BENTONE 38 (50)	50# sk	$163.94	34		31	3	$491.82	9	$1,475.46
CYBERSEAL	25# sk	$21.47		248	248				
NEW-WATE (SACK BARITE)	100# sk	$11.50	160		160				
BARITE BULK (100)	100# sk	$7.00	1180		760	420	$2,940.00	1845	$12,915.00
OPTI DRILL (OBM)	bbl	$65.00	1850	1078	746	2182	$141,830.00	2974	$193,310.00
Magnolia Owned OBM	bbl							130	
Discounted High LGS OBM	bbl	$15.00	291		229	62	$930.00	62	$930.00
ENGINEERING (24 HR)	each	$925.00				2	$1,850.00	30	$27,750.00
ENGINEERING (DIEM)	bbl	$30.00				2	$60.00	30	$900.00
ENGINEERING (MILES)	each	$1.00							
TRUCKING (cwt)	each	$2.50				419	$1,047.50	3038	$7,596.08
TRUCKING (min)	each	$795.00							
PALLETS (ea)	each	$12.00				12	$144.00	47	$564.00
SHRINK WRAP (ea)	each	$12.00				12	$144.00	44	$528.00

Daily Sub-Total $151,376.08	Cumulative Total $272,277.92	$272,277.92

THIRD PARTY COST SHEET

Date	Operator	Well Name and No.	Rig Name and No.	Report No.
05/18/20	MAGNOLIA OIL & GAS	LEVI GOODRICH UNIT 2 - 2H	248	Report #17

DAILY USAGE & COST								CUMULATIVE	
Item	Unit	Unit Cost	Previous Inventory	Received	Closing Inventory	Daily Usage	Daily Cost	Cum Usage	Cum Cost
Diesel 4/25/20	gal	$0.91							
Diesel 5/6/20	gal	$0.90						5040	$4,536.00
Diesel 5/8/20	gal	$0.93						7302	$6,790.86
Diesel 5/9/20	gal	$0.96						7006	$6,725.76
Diesel 5/10/20	gal	$0.97						7300	$7,081.00
Diesel 5/14/20	gal	$0.98						7400	$7,252.00
Diesel 5/15/20	gal	$0.97						6750	$6,547.50
Diesel 5/16/20	gal	$1.03						7100	$7,313.00
Diesel 5/17/20	gal	$1.03		7634		7634	$7,863.02	7634	$7,863.02
Diesel 5/17/20 Load #2	gal	$1.03		7402	7344	58	$59.74	58	$59.74
TurboChem First Response	each	$41.75		500	420	80	$3,340.00	80	$3,340.00
TurboChem Pallets	each	$20.00		10	8	2	$40.00	2	$40.00
TurboChem Shrink Wrap	each	$20.00		10	8	2	$40.00	2	$40.00

Daily Sub-Total $11,342.76

$57,588.88

Cumulative Total AES & 3rd Party $329,866.80

OUTSOURCE FLUID SOLUTIONS LLC.

FLUID VOLUME ACCOUNTING

Operator:	MAGNOLIA OIL & GAS
Rig Name:	248
Well Name:	LEVI GOODRICH UNIT 2 - 2H

		WEEK 1							WEEK 2							WEEK 3						
	Date	5/9/20	5/10/20	5/11/20	5/12/20	5/13/20	5/14/20	5/15/20	5/16/20	5/17/20	5/18/20	5/19/20	5/20/20	5/21/20	5/22/20	5/23/20	5/24/20	5/25/20	5/26/20	5/27/20	5/28/20	5/29/20
		Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri
	Bit Size	9 7/8	9 7/8	9 7/8	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	8 3/4											
Grand Totals	Starting Depth	3,000	4,915	10,102	10,284	10,284	10,284	10,380	11,970	11,970	14,305	15,095										
	Ending Depth	4,915	10,102	10,284	10,284	10,284	10,380	11,970	11,970	14,305	15,095											
12,095	Footage Drilled	1,915	5,187	182	-	-	96	1,590	-	2,335	790	-	-	-	-	-	-	-	-	-	-	-
927	New Hole Vol.	182	491	17	-	-	4	70	-	103	59	-	-	-	-	-	-	-	-	-	-	-
	Starting System Volume	2,395	2,448	2,477	2,020	2,436	2,738	2,755	2,753	2,348	2,141	2,141	2,141	2,141	2,141	2,141	2,141	2,141	2,141	2,141	2,141	2,141
71	Chemical Additions	11	17			6	4	8	1	25												
1,155	Base Fluid Added	129	304	34	47	5	26	185	118	308												
99	Barite Increase		28	10			7	26	26	2												
920	Weighted Mud Added				421	291				208												
-	Slurry Added																					
179	Water Added	16	56							107												
135	Added for Washout	48	48	39																		
2,561	Total Additions	204	453	83	468	302	37	219	145	650	-	-	-	-	-	-	-	-	-	-	-	-
230	Surface Losses	7	23	74	10		16	40	30	30												
1,328	Formation Loss			18				105	500	705												
722	Mud Loss to Cuttings	132	383	19			4	76		108												
104	Unrecoverable Volume			42	42				20													
50	Centrifuge Losses	12	18	5						15												
2,433	Total Losses	151	425	158	52	-	20	221	550	857	-	-	-	-	-	-	-	-	-	-	-	-
382	Mud Transferred Out			382																		
2,141	Ending System Volume	2,448	2,477	2,020	2,436	2,738	2,755	2,753	2,348	2,141	2,141	2,141	2,141	2,141	2,141	2,141	2,141	2,141	2,141	2,141	2,141	2,141
130	Mud Recovered		130																			

	Comments:		Comments:		Comments:	
2,933	5/9/20	Trans in 2101bbls skid vol. Casing had 293bbls F surface displacement. Mud lost to Cuttings 132.1bbls, Evap 6.6, Cent 12bbls	5/16/20	Mud Lost to partial losses due to seepage and trip surge 500-bbls, Evap 20-bbls, Pit Settlement 10-bbls and Tripping out 20-bbls	5/23/20	
	5/10/20	Mud lost to Cuttings 383.4-bbls, Evap 23.2-bbls and Cent. 18-bbls. Mud recovered from, shaker tank runoff due to sweeps and ROC's 129.7-bbls	5/17/20	Mud Lost to Formation 705-bbls. Mud lost to Cuttings 108-bbls, Evap 19.56, Pits 10-bbls and Cent. 14.54bbls	5/24/20	
	5/11/20	Returned 382-bbls to Newpark. Mud Lost Cuttings 19-bbls, Cent 5-bbls, Evap 12.5, TOOH/TIH 35-bbls, Shaker Run off 42.2-bbls and Trucking 26-bbls	5/18/20		5/25/20	
	5/12/20	Rec. 421-bbls 16.0 (KILL) lost 10-bbls to Trucking In… Mud lost to spacer contamination 42-bbls	5/19/20		5/26/20	
	5/13/20	Lost 10.2-bbls to Pit Settlement	5/20/20		5/27/20	
	5/14/20	Mud Lost to Cutting 3.5-bbls, Evap 6-bbls and Pit Settlement 10-bbls	5/21/20		5/28/20	
	5/15/20	Mud Lost to Cuttings 76-bbls, Evap 21-bbls, Pits 10-bbls Cent. 9-bbls. Patrial Losses to formation 105-bbls	5/22/20		5/29/20	

5/18/2020 **Report 17 pm**

110 Old Market St.
St Martinville, LA 70582

TEL: (337) 394-1078

96.0° **10,259' TVD**

Operator	Contractor	County / Parish / Block	Engineer Start Date	24 hr ftg.	Drilled Depth
MAGNOLIA OIL & GAS	**PATTERSON**	**WASHINGTON**	**04/22/20**	**757 ft**	**16,662 ft**
Well Name and No.	Rig Name and No.	State	Spud Date	Current ROP	Activity
LEVI GOODRICH UNIT 2 - 2H	**248**	**TEXAS**	**04/26/20**	**18 ft/hr**	**Drilling**
Report for	Report for	Field / OSC-G #	Fluid Type	Circulating Rate	Circulating Pressure
Kevin Burt/ Jim Harrison	**Tool Pusher**	**GIDDINGS**	**WBM**	**327 gpm**	**3,233 psi**

MUD PROPERTY SPECIFICATIONS

Weight	PV	YP	GELS	pH	API fl	% Solids
8.4-9.4	**0-10**	**0-10**	**<5 <15**	**8-9**	**<30**	**2-10**

MUD PROPERTIES

Time Sample Taken	2:00		12:00
Sample Location	pit		pit
Flowline Temperature °F			
Depth (ft)	15,894'		16,662'
Mud Weight (ppg)	8.4		8.4
Funnel Vis (sec/qt)	27		27
600 rpm	3		3
300 rpm	2		2
200 rpm	1		1
100 rpm	1		1
6 rpm	1		1
3 rpm	1		1
Plastic Viscosity (cp) @ 120 °F	1		1
Yield Point (lb/100 ft²) T0 = 1	1		1
Gel Strength (lb/100 ft²) 10 sec / 10 min	1/1		1/1
Gel Strength (lb/100 ft2) 30 min	1		1
API Filtrate / Cake Thickness			
HTHP Filtrate / Cake Thickness			
Retort Solids Content	0.4%		0.4%
Retort Oil Content			
Retort Water Content	99.6%		99.6%
Sand Content	0%		0%
M.B.T. (Methylene Blue Capacity) (ppb)			
pH	8.0		8.0
Alkalinity, Mud Pm			
Alkalinities, Filtrate Pf/Mf			
Chlorides (mg/L)	375		400
Calcium (ppm)	40		40
Excess Lime (lb/bbl)			
Average Specific Gravity of Solids	2.60	2.60	2.60
Percent Low Gravity Solids	0.4%		0.4%
Percent Drill Solids	0.4%		0.4%
PPA Spurt / Total (ml) @			
Estimated Total LCM in System			
Sample Taken By	R. Bowlin		M.Meehan

MUD VOLUME (BBL)

In Pits	73 bbl
In Hole	672 bbl
Active	745 bbl
Storage	
Tot. on Location	745 bbl

PUMP #1

Liner Size	5.25
Stroke	12
bbl/stk	0.0763
stk/min	102
gal/min	327

PUMP #2

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

RISER BOOSTER

Liner Size
Stroke
bbl/stk
stk/min
gal/min

Mud Wt. = 8.4 PV=1 YP=1 **CIRCULATION DATA** n = 0.585 K = 26.6

Bit Depth = 16,662 ' | Washout = 2% | Pump Efficiency = 95%

Drill String Disp.							
93.5 bbl	Volume to Bit	235.2 bbl	Strokes To Bit	3,082	Time To Bit	30 min
	Bottoms Up Vol.	437.2 bbl	BottomsUp Stks	5,730	BottomsUp Time	56 min
	TotalCirc.Vol.	745.4 bbl	TotalCirc.Stks	9,768	Total Circ. Time	96 min

DRILLING ASSEMBLY DATA

Tubulars	OD (in.)	ID (in.)	Length	Top
Drill Pipe	4.500	3.826	16,423'	
Hevi Wt	4.500	2.500	95'	16,423'
Collars	5.167	2.750	144'	16,518'
				16,662'

CASING & HOLE DATA

Casing	OD (in.)	ID (in.)	Depth	Top
Riser				
Surface	10 1/2		2,991'	
Int. Csg.	7 5/8	6.875	10,273'	
Open Hole Size	6.885		16,662'	

ANNULAR GEOMETRY & RHEOLOGY

annular section	depth	velocity ft/min	flow reg	ECD lb/gal
6.875x4.5	10,273'	296.6	turb	8.73
6.885x4.5	16,423'	295.1	turb	8.94
6.885x4.5	16,518'	295.1	turb	8.97
6.885x5.167	16,662'	387.0	turb	9.01

BIT DATA Manuf./Type Security GDT

Size	Depth In	Hours	Footage	ROP ft/hr
6 3/4	11,970 ft	63.0	4,692 ft	74.5

SOLIDS CONTROL

Unit	Screens	Hours
Shaker 1	170	12.0
Shaker 2	170	12.0
Shaker 3	170	12.0
Centrifuge 1		

VOLUME ACCOUNTING (bbls)

Prev. Total on Location	714.7
Transferred In(+)/Out(-)	
Oil Added (+)	
Barite Added (+)	
Other Product Usage (+)	
Water Added (+)	4500.0
Left on Cuttings (-)	-34.9
Discharged (-)	
Lost Returns (-)	-4434.4
Est. Total on Location	745.4
Est. Losses/Gains (-)/(+)	0.0

BIT HYDRAULICS DATA

Bit H.S.I.	Bit ΔP	Nozzles (32nds)		
0.32	60 psi	16	16	16
Bit Impact Force	Nozzle Velocity (ft/sec)	16	16	16
127 lbs	89			

Motor/MWD	Calc. Circ. Pressure
2,400 psi	3,233 psi

Afternoon Remarks/Recommendations:

Sweeps: 5 bbl of discounted mud every stand

PHPA added to drill water

Afternoon Rig Activity:

Currently under a 15.0ppg mud cap and drilling with fresh H2O. Discounted OBM will be used for sweeps, pumping 5-bbls every stand to aid in transporting the cuttings to the loss zone along with provide lubricity. Additions of PHPA being added to the drill H2O for encapsulation.

05/19/20 **Report #18**

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

OUTSOURCE FLUID SOLUTIONS LLC.

93.2° **10,284' TVD**

Operator	Contractor	County / Parish / Block	Engineer Start Date	24 hr ftg.	Drilled Depth
MAGNOLIA OIL & GAS	**PATTERSON**	**WASHINGTON**	**04/22/20**	**1,035 ft**	**16,940 ft**
Well Name and No.	Rig Name and No.	State	Spud Date	Current ROP	Activity
LEVI GOODRICH UNIT 2 - 2H	**248**	**TEXAS**	**04/26/20**	**0 ft/hr**	**Short Trip**
Report for	Report for	Field / OCS-G #	Fluid Type	Circulating Rate	Circulating Pressure
Kevin Burt/ Jim Harrison	**Tool Pusher**	**GIDDINGS**	**WBM**	**327 gpm**	**3,106 psi**

MUD PROPERTY SPECIFICATIONS

Weight	PV	YP	GELS	pH	API fl	% Solids
8.4-9.4	**0-10**	**0-10**	**<5 <15**	**8-9**	**<30**	**2-10**
				5/19/20		5/18/20
Time Sample Taken				2:00		12:00
Sample Location				pit		pit
Flowline Temperature °F						
Depth (ft)				16,940'		16,662'
Mud Weight (ppg)				8.4		8.4
Funnel Vis (sec/qt)			@ 73 °F	27		27
600 rpm				3		3
300 rpm				2		2
200 rpm				1		1
100 rpm				1		1
6 rpm				1		1
3 rpm				1		1
Plastic Viscosity (cp)			@ 120 °F	1		1
Yield Point (lb/100 ft²)			T0 = 1	1		1
Gel Strength (lb/100 ft²)			10 sec/10 min	1/1		1/1
Gel Strength (lb/100 ft^2)			30 min	1		1
API Filtrate / Cake Thickness						
HTHP Filtrate / Cake Thickness			@ 0 °F			
Retort Solids Content				0.4%		0.4%
Retort Oil Content						
Retort Water Content				99.6%		99.6%
Sand Content				0%		0%
M.B.T. (Methylene Blue Capacity) (ppb)						
pH				8.0		8.0
Alkalinity, Mud Pm						
Alkalinities, Filtrate Pf/Mf						
Chlorides (mg/L)				400		400
Calcium (ppm)				40		40
Excess Lime (lb/bbl)						
Average Specific Gravity of Solids				2.60	2.60	2.60
Percent Low Gravity Solids				0.4%		0.4%
Percent Drill Solids				0.4%		0.4%
PPA Spurt / Total (ml) @			@ 0 °F			
Estimated Total LCM in System			ppb			
Sample Taken By				R. Bowlin		M.Meehan

MUD VOLUME (BBL)

In Pits	48 bbl
In Hole	685 bbl
Active	720 bbl
Storage	1096 bbl
Tot. on Location	1829 bbl

PUMP #1

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

PUMP #2

Liner Size	5.25
Stroke	12
bbl/stk	0.0763
stk/min	102
gal/min	327

RISER BOOSTER

Liner Size	
Stroke	
bbl/stk	0.0000
stk/min	
gal/min	0

PHHP = 592 **CIRCULATION DATA** n = 0.585 K = 26.563

Bit Depth = 16,643 ' Washout = 2% Pump Efficiency = 95%

Drill String Disp.							
93.4 bbl	Volume to Bit	234.9 bbl	Strokes To Bit	3,078	Time To Bit	30 min
	Bottoms Up Vol.	436.7 bbl	BottomsUp Stks	5,723	BottomsUp Time	56 min
	TotalCirc.Vol.	719.6 bbl	TotalCirc.Stks	9,430	Total Circ. Time	92 min

DRILLING ASSEMBLY DATA

Tubulars	OD (in.)	ID (in.)	Length	Top
Drill Pipe	4.500	3.826	16,404'	0'
Hevi Wt	4.500	2.500	95'	16,404'
Collars	5.167	2.750	144'	16,499'
				16,643'

CASING & HOLE DATA

Casing	OD (in.)	ID (in.)	Depth	Top
Riser	0		0'	
Surface	10 1/2		2,991'	0'
Int. Csg.	7 5/8	6.875	10,273'	0'
Open Hole Size		6.885	16,940'	

ANNULAR GEOMETRY & RHEOLOGY

annular section	meas. depth	velocity ft/min	flow reg	ECD lb/gal
6.875x4.5	10,273'	296.6	turb	8.71
6.885x4.5	16,404'	295.1	turb	8.88
6.885x4.5	16,499'	295.1	turb	8.89
6.885x5.167	16,643'	387.0	turb	8.90

BIT DATA Manuf./Type Security GDT

Size	Depth In	Hours	Footage	ROP ft/hr
6 3/4	11,970 ft	83.0	4,970 ft	59.9

SOLIDS CONTROL

Unit	Screens	Hours
Shaker 1	170	
Shaker 2	170	
Shaker 3	170	
Centrifuge 1		

VOLUME ACCOUNTING (bbls)

Prev. Total on Location	714.7
Transferred In(+)/Out(-)	744.0
Oil Added (+)	46.3
Barite Added (+)	0.0
Other Product Usage (+)	0.4
Water Added (+)	10371.0
Left on Cuttings (-)	0.0
Discharged (-)	
Lost Returns (-)	-10047.0
Est. Total on Location	1829.3
Est. Losses/Gains (-)/(+)	0.0

BIT HYDRAULICS DATA

Bit H.S.I.	Bit ΔP	Nozzles (32nds)		
0.32	60 psi	16	16	16
Bit Impact Force	Nozzle Velocity (ft/sec)	16	16	16
127 lbs	89			

Motor/MWD	Calc. Circ. Pressure
2,275 psi	3,108 psi

Remarks/Recommendations:

OBM RECEIVED: (4,846) bbls

OBM On Hand (1096) bbls

Sweeps 5-bbls of 10-ppg discounted OBM every stand

PHPA and Diesel added to Drill H2O in Tank #8

Rig Activity:

Continued drilling ahead on the lateral section F-15,905'MD T-16,940'MD under a 12.7ppg OBM mud cap. Utilizing fresh drill H2O as the primary circulating median, the fluid is laden with PHPA for encapsulation and diesel/ Evo-Lube for added lubricity. It is believed we are drilling in an Ash Bed currently do to poor ROP and observed spike in gamma. Sweeps 5-bbls every connection with discounted OBM from Newpark. Received additional discounted OBM for use to obtain injection rates, mud caps and sweeps (12.7ppg).

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: 432-685-4023	Phone: -	

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

	Daily Total	Cumulative Cost
	$8,357.83	**$280,635.75**
INCLUDING 3RD PARTY CHARGES	**$10,335.43**	**$340,202.23**

05/21/20 **Report #20**

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

OUTSOURCE FLUID SOLUTIONS LLC.

96.0° **10,325' TVD**

Operator	Contractor	County / Parish / Block	Engineer Start Date	24 hr ftg.	Drilled Depth
MAGNOLIA OIL & GAS	**PATTERSON**	**WASHINGTON**	**04/22/20**	**21 ft**	**16,027 ft**
Well Name and No.	Rig Name and No.	State	Spud Date	Current ROP	Activity
LEVI GOODRICH UNIT 2 - 2H	**248**	**TEXAS**	**04/26/20**	**1 ft/hr**	**DRLG SD TROUGH**
Report for	Report for	Field / OCS-G #	Fluid Type	Circulating Rate	Circulating Pressure
Bobby Gwinn/James Dyer	**Tool Pusher**	**GIDDINGS**	**WBM**	**343 gpm**	**3,700 psi**

MUD PROPERTY SPECIFICATIONS

Weight	PV	YP	GELS	pH	API fl	% Solids
8.4-9.4	**0-10**	**0-10**	**<5 <15**	**8-9**	**<30**	**2-10**
				5/21/20		5/20/20
Time Sample Taken				1:00		13:30
Sample Location				pit		pit
Flowline Temperature °F						
Depth (ft)				16,026'		16,019'
Mud Weight (ppg)				8.4		8.4
Funnel Vis (sec/qt)			@ 73 °F	27		27
600 rpm				3		3
300 rpm				2		2
200 rpm				1		1
100 rpm				1		1
6 rpm				1		1
3 rpm				1		1
Plastic Viscosity (cp)			@ 120 °F	1		1
Yield Point (lb/100 ft²)			T0 = 1	1		1
Gel Strength (lb/100 ft²)			10 sec/10 min	1/1		1/1
Gel Strength (lb/100 ft^2)			30 min	1		1
API Filtrate / Cake Thickness						
HTHP Filtrate / Cake Thickness			@ 0 °F			
Retort Solids Content				0.4%		0.4%
Retort Oil Content						
Retort Water Content				99.6%		99.6%
Sand Content				0%		0%
M.B.T. (Methylene Blue Capacity) (ppb)						
pH				8.0		8.0
Alkalinity, Mud Pm						
Alkalinities, Filtrate Pf/Mf						
Chlorides (mg/L)				400		400
Calcium (ppm)				40		40
Excess Lime (lb/bbl)						
Average Specific Gravity of Solids				2.60	2.60	2.60
Percent Low Gravity Solids				0.4%		0.4%
Percent Drill Solids				0.4%		0.4%
PPA Spurt / Total (ml) @			@ 0 °F			
Estimated Total LCM in System			ppb			
Sample Taken By				A. Roman		

MUD VOLUME (BBL)

In Pits	97 bbl
In Hole	647 bbl
Active	743 bbl
Storage	1332 bbl
Tot. on Location	2075 bbl

PUMP #1

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

PUMP #2

Liner Size	5.25
Stroke	12
bbl/stk	0.0763
stk/min	107
gal/min	343

RISER BOOSTER

Liner Size	
Stroke	
bbl/stk	0.0000
stk/min	
gal/min	0

PHHP = 740 **CIRCULATION DATA** n = 0.585 K = 26.563

Bit Depth = 16,027 ' Washout = 2% Pump Efficiency = 95%

Drill String Disp.							
90.0 bbl	Volume to Bit	226.1 bbl	Strokes To Bit	2,963	Time To Bit	28 min
	Bottoms Up Vol.	420.5 bbl	BottomsUp Stks	5,510	BottomsUp Time	51 min
	TotalCirc.Vol.	743.4 bbl	TotalCirc.Stks	9,742	Total Circ. Time	91 min

DRILLING ASSEMBLY DATA

Tubulars	OD (in.)	ID (in.)	Length	Top
Drill Pipe	4.500	3.826	15,788'	0'
Hevi Wt	4.500	2.500	95'	15,788'
Collars	5.167	2.750	144'	15,883'
				16,027'

CASING & HOLE DATA

Casing	OD (in.)	ID (in.)	Depth	Top
Riser	0		0'	
Surface	10 1/2		2,991'	0'
Int. Csg.	7 5/8	6.875	10,273'	0'
Open Hole Size		6.885	16,027'	

ANNULAR GEOMETRY & RHEOLOGY

annular section	meas. depth	velocity ft/min	flow reg	ECD lb/gal
6.875x4.5	10,273'	311.1	turb	8.74
6.885x4.5	15,788'	309.5	turb	8.91
6.885x4.5	15,883'	309.5	turb	8.91
6.885x5.167	16,027'	405.9	turb	8.93

BIT DATA Manuf./Type ULTERRA U611S

Size	Depth In	Hours	Footage	ROP ft/hr
6 3/4	16,006 ft	24.0	21 ft	0.9

SOLIDS CONTROL

Unit	Screens	Hours
Shaker 1	170	
Shaker 2	170	
Shaker 3	170	
Centrifuge 1		

VOLUME ACCOUNTING (bbls)

Prev. Total on Location	1663.9
Transferred In(+)/Out(-)	526.0
Oil Added (+)	2.4
Barite Added (+)	0.0
Other Product Usage (+)	2.3
Water Added (+)	11756.0
Left on Cuttings (-)	0.0
Discharged (-)	
Lost Returns (-)	-11875.2
Est. Total on Location	2075.4
Est. Losses/Gains (-)/(+)	0.0

BIT HYDRAULICS DATA

Bit H.S.I.	Bit ΔP	Nozzles (32nds)		
0.37	66 psi	16	16	16
Bit Impact Force	Nozzle Velocity (ft/sec)	16	16	16
139 lbs	93			

Motor/MWD	Calc. Circ. Pressure
1,300 psi	2,177 psi

Remarks/Recommendations:

OBM RECEIVED: (4,846) bbls

OBM On Hand (1096) bbls

Sweeps 5-bbls of 9.5-ppg discounted OBM every stand

PHPA for encapsulation

Rig Activity:

Time Drilling for sidetrack 1'hr, continue to utilize fresh water as the primary circulating Median, with no returns and with Wt Mud cap on back side. will start pumping sweeps once back on target and out of the suspected ash bed. Sweep ready in the pits and Kill Mud 13.0ppg for use down the backside for annular pressure control. Additional volume of discounted OBM has been received from Madisonville Mud Plant 526bbls.

Eng. 1:	Eng. 2:	WH 1:	WH 2:	Rig Phone:
Matt Meehan	Adolfo Roman	MIDLAND	WH #2	
Phone: 985-351-7561	Phone: 956-821-9994	Phone: 432-685-4023	Phone: -	

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

	Daily Total	Cumulative Cost
	$5,768.12	**$294,102.87**
INCLUDING 3RD PARTY CHARGES	**$5,768.12**	**$363,057.23**

OUTSOURCE FLUID SOLUTIONS LLC.

MATERIAL CONSUMPTION

Date	Operator	Well Name and No.	Rig Name and No.	Report No.
05/21/20	MAGNOLIA OIL & GAS	LEVI GOODRICH UNIT 2 - 2H	248	Report #20

DAILY USAGE & COST								CUMULATIVE	
Item	Unit	Unit Cost	Previous Inventory	Received	Closing Inventory	Daily Usage	Daily Cost	Cum Usage	Cum Cost
ALUMINUM TRISTEARATE	25# sk	$162.83							
SAPP (50)	50# sk	$44.50						31	$1,379.50
PHPA LIQUID (pail)	5 gal	$41.36						2	$82.72
DYNA DET	pail	$32.23						4	$128.92
CACL2 (50)	50# sk	$16.60	257		252	5	$83.00	321	$5,328.60
LIME (50)	50# sk	$5.00	257		250	7	$35.00	300	$1,500.00
BENTONE 910 (50)	50# sk	$59.94	49		49			21	$1,258.74
BENTONE 990 (50)	50# sk	$83.59	53		53			27	$2,256.93
OPTI G	50# sk	$30.59	140		140			100	$3,059.00
OPTI MUL HP	gal	$10.75	550		550			375	$4,031.25
OPTI WET	gal	$8.34	515		515			300	$2,502.00
NEW PHALT	50# sk	$38.72	90		90			70	$2,710.40
NEWCARB 200	50# sk	$5.25	100		96	4	$21.00	74	$388.50
MAGMAFIBER F (25)	25# sk	$28.05	132		132			62	$1,739.10
OIL SORB (25)	25# sk	$4.75	40		40				
PHPA LIQUID (pail)	5 gal	$41.36	92		90	2	$82.72	7	$289.52
GEL (100)	100# sk		70		70				
BENTONE 38 (50)	50# sk	$163.94	31		25	6	$983.64	15	$2,459.10
CYBERSEAL	25# sk	$21.47	248		240	8	$171.76	8	$171.76
Evo-Lube	gal	$9.31	1075		975	100	$931.00	125	$1,163.75
NEW-WATE (SACK BARITE)	100# sk	$11.50	160		160				
BARITE BULK (100)	100# sk	$7.00	1040	440	1480			1965	$13,755.00
OPTI DRILL (OBM)	bbl	$65.00	746		746			2974	$193,310.00
Magnolia Owned OBM	bbl							130	
Discounted High LGS OBM	bbl	$15.00	112	526	638			632	$9,480.00
ENGINEERING (24 HR)	each	$925.00				2	$1,850.00	36	$33,300.00
ENGINEERING (DIEM)	bbl	$30.00				2	$60.00	36	$1,080.00
ENGINEERING (MILES)	each	$1.00				450	$450.00	1049	$1,049.00
TRUCKING (cwt)	each	$2.50				440	$1,100.00	3878	$9,696.08
TRUCKING (min)	each	$795.00						1	$795.00
PALLETS (ea)	each	$12.00						51	$612.00
SHRINK WRAP (ea)	each	$12.00						48	$576.00
		Daily Sub-Total $5,768.12			**Cumulative Total $294,102.87**			**$294,102.87**	

THIRD PARTY COST SHEET

Date	Operator	Well Name and No.	Rig Name and No.	Report No.
05/21/20	**MAGNOLIA OIL & GAS**	**LEVI GOODRICH UNIT 2 - 2H**	**248**	**Report #20**

DAILY USAGE & COST								**CUMULATIVE**	
Item	Unit	Unit Cost	Previous Inventory	Received	Closing Inventory	Daily Usage	Daily Cost	Cum Usage	Cum Cost
Diesel 4/25/20	gal	$0.91							
Diesel 5/6/20	gal	$0.90						5040	$4,536.00
Diesel 5/8/20	gal	$0.93						7302	$6,790.86
Diesel 5/9/20	gal	$0.96						7006	$6,725.76
Diesel 5/10/20	gal	$0.97						7300	$7,081.00
Diesel 5/14/20	gal	$0.98						7400	$7,252.00
Diesel 5/15/20	gal	$0.97						6750	$6,547.50
Diesel 5/16/20	gal	$1.03						7100	$7,313.00
Diesel 5/17/20	gal	$1.03						7634	$7,863.02
Diesel 5/17/20 Load #2	gal	$1.03						7402	$7,624.06
Diesel 5/19/ 20	gal	$1.06	2635		2635			3586	$3,801.16
Diesel 5/19/20	gal	$1.06	7301		7301				
TurboChem First Response	each	$41.75	420		420			80	$3,340.00
TurboChem Pallets	each	$20.00	8		8			2	$40.00
TurboChem Shrink Wrap	each	$20.00	8		8			2	$40.00
									$68,954.36

Cumulative Total AES & 3rd Party $363,057.23

OUTSOURCE FLUID SOLUTIONS LLC.

FLUID VOLUME ACCOUNTING

Operator:	MAGNOLIA OIL & GAS
Rig Name:	248
Well Name:	LEVI GOODRICH UNIT 2 - 2H

Grand Totals		WEEK 1							WEEK 2							WEEK 3						
	Date	5/9/20	5/10/20	5/11/20	5/12/20	5/13/20	5/14/20	5/15/20	5/16/20	5/17/20	5/18/20	5/19/20	5/20/20	5/21/20	5/22/20	5/23/20	5/24/20	5/25/20	5/26/20	5/27/20	5/28/20	5/29/20
		Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri
	Bit Size	9 7/8	9 7/8	9 7/8	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4								
	Starting Depth	3,000	4,915	10,102	10,284	10,284	10,284	10,380	11,970	11,970	14,305	15,905	16,662	16,940	16,027							
	Ending Depth	4,915	10,102	10,284	10,284	10,284	10,380	11,970	11,970	14,305	15,905	16,662	16,940	16,027								
13,940	Footage Drilled	1,915	5,187	182	-	-	96	1,590	-	2,335	1,600	757	278	-	-	-	-	-	-	-	-	-
985	New Hole Vol.	182	491	17	-	-	4	70	-	103	71	34	12	-	-	-	-	-	-	-	-	-
	Starting System Volume	2,395	2,448	2,477	2,020	2,436	2,738	2,755	2,753	2,348	2,141	2,141	2,141	2,141	2,075	2,075	2,075	2,075	2,075	2,075	2,075	2,075
74	Chemical Additions	11	17			6	4	8	1	25				2								
1,158	Base Fluid Added	129	304	34	47	5	26	185	118	308				2								
99	Barite Increase		28	10			7	26	26	2												
1,446	Weighted Mud Added				421	291				208				526								
-	Slurry Added																					
179	Water Added	16	56							107												
135	Added for Washout	48	48	39																		
3,091	Total Additions	204	453	83	468	302	37	219	145	650	-	-	-	531	-	-	-	-	-	-	-	-
230	Surface Losses	7	23	74	10		16	40	30	30												
1,328	Formation Loss			18				105	500	705												
722	Mud Loss to Cuttings	132	383	19			4	76		108												
701	Unrecoverable Volume			42	42				20					597								
50	Centrifuge Losses	12	18	5						15												
3,030	Total Losses	151	425	158	52	-	20	221	550	857	-	-	-	597	-	-	-	-	-	-	-	-
382	Mud Transferred Out			382																		
2,075	Ending System Volume	2,448	2,477	2,020	2,436	2,738	2,755	2,753	2,348	2,141	2,141	2,141	2,141	2,075	2,075	2,075	2,075	2,075	2,075	2,075	2,075	2,075
130	Mud Recovered		130																			

3,459

Comments:		Comments:		Comments:	
5/9/20	Trans in 2101bbls skid vol. Casing had 293bbls F surface displacement. Mud lost to Cuttings 132.1bbls, Evap 6.6, Cent 12bbls	5/16/20	Mud Lost to partial losses due to seepage and trip surge 500-bbls, Evap 20-bbls, Pit Settlement 10-bbls and Tripping out 20-bbls	5/23/20	
5/10/20	Mud lost to Cuttings 383.4-bbls, Evap 23.2-bbls and Cent. 18-bbls. Mud recovered from, shaker tank runoff due to sweeps and ROC's 129.7-bbls	5/17/20	Mud Lost to Formation 705-bbls. Mud lost to Cuttings 108-bbls, Evap 19.56, Pits 10-bbls and Cent. 14.54bbls	5/24/20	
5/11/20	Returned 382-bbls to Newpark. Mud Lost Cuttings 19-bbls, Cent 5-bbls, Evap 12.5, TOOH/TIH 35-bbls, Shaker Run off 42.2-bbls and Trucking 26-bbls	5/18/20		5/25/20	
5/12/20	Rec. 421-bbls 16.0 (KILL) lost 10-bbls to Trucking In… Mud lost to spacer contamination 42-bbls	5/19/20		5/26/20	
5/13/20	Lost 10.2-bbls to Pit Settlement	5/20/20		5/27/20	
5/14/20	Mud Lost to Cutting 3.5-bbls, Evap 6-bbls and Pit Settlement 10-bbls	5/21/20	Side Track time drilling 16027. Continue pumping fresh water down hole with 13# mud cap on back side.	5/28/20	
5/15/20	Mud Lost to Cuttings 76-bbls, Evap 21-bbls, Pits 10-bbls Cent. 9-bbls. Patrial Losses to formation 105-bbls	5/22/20		5/29/20	

05/22/20 **Report #21**

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

OUTSOURCE FLUID SOLUTIONS LLC.

6.4° **5,461' TVD**

Operator	Contractor	County / Parish / Block	Engineer Start Date	24 hr ftg.	Drilled Depth
MAGNOLIA OIL & GAS	**PATTERSON**	**WASHINGTON**	**04/22/20**	**0 ft**	**16,029 ft**
Well Name and No.	Rig Name and No.	State	Spud Date	Current ROP	Activity
LEVI GOODRICH UNIT 2 - 2H	**248**	**TEXAS**	**04/26/20**	**0 ft/hr**	**POOH**
Report for	Report for	Field / OCS-G #	Fluid Type	Circulating Rate	Circulating Pressure
Bobby Gwinn/James Dyer	**Tool Pusher**	**GIDDINGS**	**WBM**	**0 gpm**	**psi**

MUD PROPERTY SPECIFICATIONS							MUD VOLUME (BBL)		PUMP #1		PUMP #2		RISER BOOSTER	
Weight	PV	YP	GELS	pH	API fl	% Solids	In Pits	165 bbl	Liner Size	5.25	Liner Size	5.25	Liner Size	
8.4-9.4	**0-10**	**0-10**	**<5 <15**	**8-9**	**<30**	**2-10**	In Hole	704 bbl	Stroke	12	Stroke	12	Stroke	
				5/22/20		5/20/20	Active	385 bbl	bbl/stk	0.0763	bbl/stk	0.0763	bbl/stk	0.0000
Time Sample Taken				1:00		12:30	Storage	686 bbl	stk/min	0	stk/min	0	stk/min	
Sample Location				pit		pit	Tot. on Location	1555 bbl	gal/min	0	gal/min	0	gal/min	0
Flowline Temperature °F							PHHP = 0		**CIRCULATION DATA**				n = 0.585	K = 26.563
Depth (ft)				16,029'		16,029'	Bit Depth = 5,500 '		Washout = 2%				Pump Efficiency = 95%	
Mud Weight (ppg)				8.4		8.4	Drill String Disp.	Volume to Bit 76.4 bbl	Strokes To Bit				Time To Bit	
Funnel Vis (sec/qt)			@ 73 °F	27		27		Bottoms Up Vol. 143.4 bbl	BottomsUp Stks				BottomsUp Time	
600 rpm				3		3	32.6 bbl	TotalCirc.Vol. 384.9 bbl	TotalCirc.Stks				Total Circ. Time	
300 rpm				2		2	**DRILLING ASSEMBLY DATA**						**SOLIDS CONTROL**	
200 rpm				1		1	Tubulars	OD (in.)	ID (in.)	Length	Top		Unit	Screens	Hours
100 rpm				1		1	Drill Pipe	4.500	3.826	5,261'	0'		Shaker 1	170	
6 rpm				1		1	Hevi Wt	4.500	2.500	95'	5,261'		Shaker 2	170	
3 rpm				1		1	Collars	5.167	2.750	144'	5,356'		Shaker 3	170	
Plastic Viscosity (cp)			@ 120 °F	1		1					5,500'		Centrifuge 1		
Yield Point (lb/100 ft²)			T0 = 1	1		1	**CASING & HOLE DATA**								
Gel Strength (lb/100 ft²)			10 sec/10 min	1/1		1/1	Casing	OD (in.)	ID (in.)	Depth	Top				
Gel Strength (lb/100 ft^2)			30 min	1		1	Riser	0		0'			**VOLUME ACCOUNTING (bbls)**		
API Filtrate / Cake Thickness							Surface	10 1/2		2,991'	0'		Prev. Total on Location		2075.4
HTHP Filtrate / Cake Thickness			@ 0 °F				Int. Csg.	7 5/8	6.875	10,273'	0'		Transferred In(+)/Out(-)		
Retort Solids Content				0.4%		0.4%							Oil Added (+)		81.8
Retort Oil Content													Barite Added (+)		0.0
Retort Water Content				99.6%		99.6%	Open Hole Size		6.885	16,029'			Other Product Usage (+)		0.0
Sand Content				0%		0%	**ANNULAR GEOMETRY & RHEOLOGY**						Water Added (+)		500.0
M.B.T. (Methylene Blue Capacity) (ppb)							annular section	meas. depth	velocity ft/min	flow reg	ECD lb/gal		Left on Cuttings (-)		0.0
pH				8.0		8.0							Discharged (-)		
Alkalinity, Mud Pm													Lost Returns (-)		-1102.1
Alkalinities, Filtrate Pf/Mf							6.875x4.5	5,261'	0.0	lam	8.40		Est. Total on Location		1555.1
Chlorides (mg/L)				400		400	6.875x4.5	5,356'	0.0	lam	8.40		Est. Losses/Gains (-)/(+)		0.0
Calcium (ppm)				40		40	6.875x5.167	5,500'	0.0	lam	8.40		**BIT HYDRAULICS DATA**		
Excess Lime (lb/bbl)													Bit H.S.I.	Bit ΔP	Nozzles (32nds)
Average Specific Gravity of Solids				2.60	2.60	2.60							0.00	psi	16 16 16
Percent Low Gravity Solids				0.4%		0.4%							Bit Impact Force	Nozzle Velocity (ft/sec)	16 16 16
Percent Drill Solids				0.4%		0.4%									
PPA Spurt / Total (ml) @			@ 0 °F				**BIT DATA**		Manuf./Type	ULTERRA U611S			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			6 3/4	16,006 ft	24.0	21 ft	0.9		1,300 psi		

Remarks/Recommendations:

OBM RECEIVED: (4,846) bbls

OBM On Hand (851) bbls

Kill mud on Hand----57bbls //// $65.00/bbl

9.3ppg OBM on Hand-----198bbls //// $65.00/bbl

Discounted OBM on hand ----(418bbl--12.3#); (70bbl--9.5#)

Rig Activity:

Work Stuck pipe, @17:00hrs pipe free up. Dry ream out of the hole up to 15780' resume pumping fresh water down DP, Casing pressure increase 840psi. Shut down pump and Casing pressure drop to 0. Standpipe Pressure increase while monitoring well, showing a possible stuck float or wash out down hole on tubulars. Continue to pump kill mud on back side and down DP to balance out pressures and kill well prior to POOH. Both Casing and SPP down to 0. Disengage Top drive and start POOH. APCO, Maintain 9.3ppg in Pit #7 to fill up on back side as POOH continues. Order 14.7ppg Kill mud from Mud plant.

Eng. 1:	Eng. 2:	WH 1:	WH 2:	Rig Phone:
Matt Meehan	Adolfo Roman	MIDLAND	WH #2	
Phone: 985-351-7561	Phone: 956-821-9994	Phone: 432-685-4023	Phone: -	

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

	Daily Total	Cumulative Cost
	$29,055.00	**$323,157.87**
INCLUDING 3RD PARTY CHARGES	**$32,697.16**	**$395,754.39**

OUTSOURCE FLUID SOLUTIONS LLC.

MATERIAL CONSUMPTION

Date	Operator	Well Name and No.	Rig Name and No.	Report No.
05/22/20	MAGNOLIA OIL & GAS	LEVI GOODRICH UNIT 2 - 2H	248	Report #21

DAILY USAGE & COST								CUMULATIVE	
Item	Unit	Unit Cost	Previous Inventory	Received	Closing Inventory	Daily Usage	Daily Cost	Cum Usage	Cum Cost
ALUMINUM TRISTEARATE	25# sk	$162.83							
SAPP (50)	50# sk	$44.50						31	$1,379.50
PHPA LIQUID (pail)	5 gal	$41.36						2	$82.72
DYNA DET	pail	$32.23						4	$128.92
CACL2 (50)	50# sk	$16.60	252		252			321	$5,328.60
LIME (50)	50# sk	$5.00	250		250			300	$1,500.00
BENTONE 910 (50)	50# sk	$59.94	49		49			21	$1,258.74
BENTONE 990 (50)	50# sk	$83.59	53		53			27	$2,256.93
OPTI G	50# sk	$30.59	140		140			100	$3,059.00
OPTI MUL HP	gal	$10.75	550		550			375	$4,031.25
OPTI WET	gal	$8.34	515		515			300	$2,502.00
NEW PHALT	50# sk	$38.72	90		90			70	$2,710.40
NEWCARB 200	50# sk	$5.25	96		96			74	$388.50
MAGMAFIBER F (25)	25# sk	$28.05	132		132			62	$1,739.10
OIL SORB (25)	25# sk	$4.75	40		40				
PHPA LIQUID (pail)	5 gal	$41.36	90		90			7	$289.52
GEL (100)	100# sk		70		70				
BENTONE 38 (50)	50# sk	$163.94	25		25			15	$2,459.10
CYBERSEAL	25# sk	$21.47	240		240			8	$171.76
Evo-Lube	gal	$9.31	975		975			125	$1,163.75
NEW-WATE (SACK BARITE)	100# sk	$11.50	160		160				
BARITE BULK (100)	100# sk	$7.00	1480		1480			1965	$13,755.00
OPTI DRILL (OBM)	bbl	$65.00	746		363	383	$24,895.00	3357	$218,205.00
Magnolia Owned OBM	bbl							130	
Discounted High LGS OBM	bbl	$15.00	638		488	150	$2,250.00	782	$11,730.00
ENGINEERING (24 HR)	each	$925.00				2	$1,850.00	38	$35,150.00
ENGINEERING (DIEM)	bbl	$30.00				2	$60.00	38	$1,140.00
ENGINEERING (MILES)	each	$1.00						1049	$1,049.00
TRUCKING (cwt)	each	$2.50						3878	$9,696.08
TRUCKING (min)	each	$795.00						1	$795.00
PALLETS (ea)	each	$12.00						51	$612.00
SHRINK WRAP (ea)	each	$12.00						48	$576.00
		Daily Sub-Total $29,055.00			**Cumulative Total $323,157.87**			**$323,157.87**	

THIRD PARTY COST SHEET

Date	Operator	Well Name and No.	Rig Name and No.	Report No.
05/22/20	**MAGNOLIA OIL & GAS**	**LEVI GOODRICH UNIT 2 - 2H**	**248**	**Report #21**

DAILY USAGE & COST								CUMULATIVE	
Item	Unit	Unit Cost	Previous Inventory	Received	Closing Inventory	Daily Usage	Daily Cost	Cum Usage	Cum Cost
Diesel 4/25/20	gal	$0.91							
Diesel 5/6/20	gal	$0.90						5040	$4,536.00
Diesel 5/8/20	gal	$0.93						7302	$6,790.86
Diesel 5/9/20	gal	$0.96						7006	$6,725.76
Diesel 5/10/20	gal	$0.97						7300	$7,081.00
Diesel 5/14/20	gal	$0.98						7400	$7,252.00
Diesel 5/15/20	gal	$0.97						6750	$6,547.50
Diesel 5/16/20	gal	$1.03						7100	$7,313.00
Diesel 5/17/20	gal	$1.03						7634	$7,863.02
Diesel 5/17/20 Load #2	gal	$1.03						7402	$7,624.06
Diesel 5/19/ 20	gal	$1.06	2635			2635	$2,793.10	6221	$6,594.26
Diesel 5/19/20	gal	$1.06	7301		6500	801	$849.06	801	$849.06
TurboChem First Response	each	$41.75	420		420			80	$3,340.00
TurboChem Pallets	each	$20.00	8		8			2	$40.00
TurboChem Shrink Wrap	each	$20.00	8		8			2	$40.00
						Daily Sub-Total	$3,642.16		$72,596.52

Cumulative Total AES & 3rd Party $395,754.39

OUTSOURCE FLUID SOLUTIONS LLC.

FLUID VOLUME ACCOUNTING

Operator:	MAGNOLIA OIL & GAS
Rig Name:	248
Well Name:	LEVI GOODRICH UNIT 2 - 2H

Grand Totals		WEEK 1							WEEK 2							WEEK 3						
	Date	5/9/20	5/10/20	5/11/20	5/12/20	5/13/20	5/14/20	5/15/20	5/16/20	5/17/20	5/18/20	5/19/20	5/20/20	5/21/20	5/22/20	5/23/20	5/24/20	5/25/20	5/26/20	5/27/20	5/28/20	5/29/20
		Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri
	Bit Size	9 7/8	9 7/8	9 7/8	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4							
	Starting Depth	3,000	4,915	10,102	10,284	10,284	10,284	10,380	11,970	11,970	14,305	15,905	16,662	16,940	16,027	16,029						
	Ending Depth	4,915	10,102	10,284	10,284	10,284	10,380	11,970	11,970	14,305	15,905	16,662	16,940	16,027	16,029							
13,942	Footage Drilled	1,915	5,187	182	-	-	96	1,590	-	2,335	1,600	757	278	-	2	-	-	-	-	-	-	-
985	New Hole Vol.	182	491	17	-	-	4	70	-	103	71	34	12	-	0	-	-	-	-	-	-	-
	Starting System Volume	2,395	2,448	2,477	2,020	2,436	2,738	2,755	2,753	2,348	2,141	2,141	2,141	2,141	2,075	1,555	1,555	1,555	1,555	1,555	1,555	1,555
74	Chemical Additions	11	17			6	4	8	1	25				2								
1,240	Base Fluid Added	129	304	34	47	5	26	185	118	308				2	82							
99	Barite Increase		28	10			7	26	26	2												
1,446	Weighted Mud Added				421	291				208				526								
-	Slurry Added																					
679	Water Added	16	56							107					500							
135	Added for Washout	48	48	39																		
3,673	Total Additions	204	453	83	468	302	37	219	145	650	-	-	-	531	582	-	-	-	-	-	-	-
230	Surface Losses	7	23	74	10		16	40	30	30												
2,430	Formation Loss			18				105	500	705					1,102							
722	Mud Loss to Cuttings	132	383	19			4	76		108												
701	Unrecoverable Volume			42	42				20					597								
50	Centrifuge Losses	12	18	5						15												
4,132	Total Losses	151	425	158	52	-	20	221	550	857	-	-	-	597	1,102	-	-	-	-	-	-	-
382	Mud Transferred Out			382																		
1,555	Ending System Volume	2,448	2,477	2,020	2,436	2,738	2,755	2,753	2,348	2,141	2,141	2,141	2,141	2,075	1,555	1,555	1,555	1,555	1,555	1,555	1,555	1,555
130	Mud Recovered		130																			

3,459

Comments:		Comments:		Comments:	
5/9/20	Trans in 2101bbls skid vol. Casing had 293bbls F surface displacement. Mud lost to Cuttings 132.1bbls, Evap 6.6, Cent 12bbls	5/16/20	Mud Lost to partial losses due to seepage and trip surge 500-bbls, Evap 20-bbls, Pit Settlement 10-bbls and Tripping out 20-bbls	5/23/20	
5/10/20	Mud lost to Cuttings 383.4-bbls, Evap 23.2-bbls and Cent. 18-bbls. Mud recovered from, shaker tank runoff due to sweeps and ROC's 129.7-bbls	5/17/20	Mud Lost to Formation 705-bbls. Mud lost to Cuttings 108-bbls, Evap 19.56, Pits 10-bbls and Cent. 14.54bbls	5/24/20	
5/11/20	Returned 382-bbls to Newpark. Mud Lost Cuttings 19-bbls, Cent 5-bbls, Evap 12.5, TOOH/TIH 35-bbls, Shaker Run off 42.2-bbls and Trucking 26-bbls	5/18/20		5/25/20	
5/12/20	Rec. 421-bbls 16.0 (KILL) lost 10-bbls to Trucking In… Mud lost to spacer contamination 42-bbls	5/19/20		5/26/20	
5/13/20	Lost 10.2-bbls to Pit Settlement	5/20/20		5/27/20	
5/14/20	Mud Lost to Cutting 3.5-bbls, Evap 6-bbls and Pit Settlement 10-bbls	5/21/20	Side Track time drilling 16027. Continue pumping fresh water down hole with 13# mud cap on back side.	5/28/20	
5/15/20	Mud Lost to Cuttings 76-bbls, Evap 21-bbls, Pits 10-bbls Cent. 9-bbls. Patrial Losses to formation 105-bbls	5/22/20	Work stuck pipe free, Dry ream up to 15780, resume pump fresh water. Kill well and POOH.	5/29/20	

5/22/2020 **Report 21 pm**

110 Old Market St.
St Martinville, LA 70582

TEL: (337) 394-1078

Operator	Contractor	County / Parish / Block	Engineer Start Date	24 hr ftg.	Drilled Depth
MAGNOLIA OIL & GAS	**PATTERSON**	**WASHINGTON**	**04/22/20**		**16,029 ft**
Well Name and No.	Rig Name and No.	State	Spud Date	Current ROP	Activity
LEVI GOODRICH UNIT 2 - 2H	**248**	**TEXAS**	**04/26/20**		**TIH / FISHING**
Report for	Report for	Field / OSC-G #	Fluid Type	Circulating Rate	Circulating Pressure
Bobby Gwinn/James Dyer	**Tool Pusher**	**GIDDINGS**	**WBM**		

MUD PROPERTY SPECIFICATIONS

Weight	PV	YP	GELS	pH	API fl	% Solids
8.4-9.4	**0-10**	**0-10**	**<5 <15**	**8-9**	**<30**	**2-10**

MUD PROPERTIES

Time Sample Taken	1:00		12:30
Sample Location	pit		pit
Flowline Temperature °F			
Depth (ft)	16,029'		16,029'
Mud Weight (ppg)	8.4		8.4
Funnel Vis (sec/qt) @ 73 °F	27		27
600 rpm	3		3
300 rpm	2		2
200 rpm	1		1
100 rpm	1		1
6 rpm	1		1
3 rpm	1		1
Plastic Viscosity (cp) @ 120 °F	1		1
Yield Point (lb/100 ft²) T0 = 1	1		1
Gel Strength (lb/100 ft²) 10 sec / 10 min	1/1		1/1
Gel Strength (lb/100 ft2) 30 min	1		1
API Filtrate / Cake Thickness			
HTHP Filtrate / Cake Thickness			
Retort Solids Content	0.4%		0.4%
Retort Oil Content			
Retort Water Content	99.6%		99.6%
Sand Content	0%		0%
M.B.T. (Methylene Blue Capacity) (ppb)			
pH	8.0		8.0
Alkalinity, Mud Pm			
Alkalinities, Filtrate Pf/Mf			
Chlorides (mg/L)	400		400
Calcium (ppm)	40		40
Excess Lime (lb/bbl)			
Average Specific Gravity of Solids	2.60	2.60	2.60
Percent Low Gravity Solids	0.4%		0.4%
Percent Drill Solids	0.4%		0.4%
PPA Spurt / Total (ml) @			
Estimated Total LCM in System			
Sample Taken By	A. Roman		

MUD VOLUME (BBL)

In Pits	165 bbl
In Hole	737 bbl
Active	165 bbl
Storage	686 bbl
Tot. on Location	1588 bbl

PUMP #1

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

PUMP #2

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

RISER BOOSTER

Liner Size
Stroke
bbl/stk
stk/min
gal/min

Mud Wt. = 8.4 PV=1 YP=1 **CIRCULATION DATA** n = 0.585 K = 26.6

Washout = 2% Pump Efficiency = 95%

Drill String Disp.	Volume to Bit	Strokes To Bit	Time To Bit
	Bottoms Up Vol.	BottomsUp Stks	BottomsUp Time
	TotalCirc.Vol. 165.0 bbl	TotalCirc.Stks	Total Circ. Time

DRILLING ASSEMBLY DATA

Tubulars	OD (in.)	ID (in.)	Length	Top
Drill Pipe	4.500	3.826		
Hevi Wt				
Collars				

CASING & HOLE DATA

Casing	OD (in.)	ID (in.)	Depth	Top
Riser				
Surface	10 1/2		2,991'	
Int. Csg.	7 5/8	6.875	10,273'	
Open Hole Size	6.885		16,029'	

ANNULAR GEOMETRY & RHEOLOGY

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

BIT DATA Manuf./Type ULTERRA U611S

Size	Depth In	Hours	Footage	ROP ft/hr
6 3/4	16,006 ft	24.0	21 ft	0.9

SOLIDS CONTROL

Unit	Screens	Hours
Shaker 1	170	
Shaker 2	170	
Shaker 3	170	
Centrifuge 1		

VOLUME ACCOUNTING (bbls)

Prev. Total on Location	1583.8
Transferred In(+)/Out(-)	
Oil Added (+)	
Barite Added (+)	
Other Product Usage (+)	
Water Added (+)	
Left on Cuttings (-)	
Discharged (-)	
Lost Returns (-)	
Est. Total on Location	1583.8
Est. Losses/Gains (-)/(+)	4.0

BIT HYDRAULICS DATA

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

Motor/MWD	Calc. Circ. Pressure
1,300 psi	1,300 psi

Afternoon Remarks/Recommendations:

Afternoon Rig Activity:

Pull out of hole, pipe was twisted off at 4-1/2" drillpipe connection, 4594' of fish left in hole. Top of fish is possibly at 11,200. Receive fishing tools, currently make up screw-in sub and prepare to trip in hole to retrieve fish. Taking delivery of 450 bbls 14.7 ppg kill mud from Newpark Madisonville Mud Plant, and receiving 450 bbls of 10.7 ppg high percentage LGS discounted priced mud from Newpark Cotulla Mud Plant.

05/23/20 **Report #22**

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

OUTSOURCE FLUID SOLUTIONS LLC.

90.7° **10,586' TVD**

Operator	Contractor	County / Parish / Block	Engineer Start Date	24 hr ftg.	Drilled Depth
MAGNOLIA OIL & GAS	**PATTERSON**	**WASHINGTON**	**04/22/20**	**0 ft**	**16,029 ft**
Well Name and No.	Rig Name and No.	State	Spud Date	Current ROP	Activity
LEVI GOODRICH UNIT 2 - 2H	**248**	**TEXAS**	**04/26/20**	**0 ft/hr**	**FISHING**
Report for	Report for	Field / OCS-G #	Fluid Type	Circulating Rate	Circulating Pressure
Bobby Gwinn/James Dyer	**Tool Pusher**	**GIDDINGS**	**WBM**	**0 gpm**	**psi**

MUD PROPERTY SPECIFICATIONS							MUD VOLUME (BBL)		PUMP #1		PUMP #2		RISER BOOSTER	
Weight	PV	YP	GELS	pH	API fl	% Solids	In Pits	105 bbl	Liner Size	5.25	Liner Size	5.25	Liner Size	
8.4-9.4	**0-10**	**0-10**	**<5 <15**	**8-9**	**<30**	**2-10**	In Hole	677 bbl	Stroke	12	Stroke	12	Stroke	
				5/23/20		5/22/20	Active	550 bbl	bbl/stk	0.0763	bbl/stk	0.0763	bbl/stk	0.0000
Time Sample Taken				1:00		12:30	Storage	1621 bbl	stk/min	0	stk/min	0	stk/min	
Sample Location				pit		pit	Tot. on Location	2403 bbl	gal/min	0	gal/min	0	gal/min	0
Flowline Temperature °F							PHHP = 0		**CIRCULATION DATA**				n = 0.585	K = 26.563
Depth (ft)				16,029'		16,029'	Bit Depth = 11,004 '		Washout = 2%				Pump Efficiency = 95%	
Mud Weight (ppg)				8.4		8.4	Drill String Disp.	Volume to Bit 156.5 bbl	Strokes To Bit				Time To Bit	
Funnel Vis (sec/qt)			@ 73 °F	27		27		Bottoms Up Vol. 288.9 bbl	BottomsUp Stks				BottomsUp Time	
600 rpm				3		3	60.0 bbl	TotalCirc.Vol. 550.4 bbl	TotalCirc.Stks				Total Circ. Time	
300 rpm				2		2	**DRILLING ASSEMBLY DATA**						**SOLIDS CONTROL**	
200 rpm				1		1	Tubulars	OD (in.) ID (in.) Length Top					Unit Screens Hours	
100 rpm				1		1	Drill Pipe	4.500 3.826 11,004' 0'					Shaker 1 170	
6 rpm				1		1	Hevi Wt	11,004'					Shaker 2 170	
3 rpm				1		1	Collars	11,004'					Shaker 3 170	
Plastic Viscosity (cp)			@ 120 °F	1		1		11,004'					Centrifuge 1	
Yield Point (lb/100 ft²)			T0 = 1	1		1	**CASING & HOLE DATA**							
Gel Strength (lb/100 ft²)			10 sec/10 min	1/1		1/1	Casing	OD (in.) ID (in.) Depth Top						
Gel Strength (lb/100 ft^2)			30 min	1		1	Riser	0 0'					**VOLUME ACCOUNTING (bbls)**	
API Filtrate / Cake Thickness							Surface	10 1/2 2,991' 0'					Prev. Total on Location	1583.8
HTHP Filtrate / Cake Thickness			@ 0 °F				Int. Csg.	7 5/8 6.875 10,273' 0'					Transferred In(+)/Out(-)	916.0
Retort Solids Content				0.4%		0.4%							Oil Added (+)	17.5
Retort Oil Content													Barite Added (+)	0.0
Retort Water Content				99.6%		99.6%	Open Hole Size	6.885 16,029'					Other Product Usage (+)	0.0
Sand Content				0%		0%	**ANNULAR GEOMETRY & RHEOLOGY**						Water Added (+)	250.0
M.B.T. (Methylene Blue Capacity) (ppb)							annular section	meas. depth	velocity ft/min	flow reg	ECD lb/gal		Left on Cuttings (-)	0.0
pH				8.0		8.0							Lost to Formation	-364.5
Alkalinity, Mud Pm														
Alkalinities, Filtrate Pf/Mf							6.875x4.5	10,273'	0.0	lam	8.40		Est. Total on Location	2402.8
Chlorides (mg/L)				400		400	6.885x4.5	11,004'	0.0	lam	8.40		Est. Losses/Gains (-)/(+)	0.0
Calcium (ppm)				40		40							**BIT HYDRAULICS DATA**	
Excess Lime (lb/bbl)													Bit H.S.I. / Bit ΔP / Nozzles (32nds)	
Average Specific Gravity of Solids				2.60	2.60	2.60							0.00 psi	16 16 16
Percent Low Gravity Solids				0.4%		0.4%							Bit Impact Force / Nozzle Velocity (ft/sec)	16 16 16
Percent Drill Solids				0.4%		0.4%								
PPA Spurt / Total (ml) @			@ 0 °F				**BIT DATA**		Manuf./Type ULTERRA U611S				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			6 3/4	16,006 ft					1,300 psi	

Remarks/Recommendations:

OBM RECEIVED: (5,762) bbls

OBM On Hand (1621) bbls

Kill mud on Hand----428bbls //14.7# // $65.00/bbl

9.3ppg OBM on Hand-----290bbls //// $65.00/bbl

Discounted OBM on hand - (418bbl--12.3#); (485bbl--10.7#)

Rig Activity:

Pick up Fishing tools and TIH to top of fish. @ 5000' with tools in the hole, Pumped 73bbls of 14.7ppg Kill mud on back side as preventinve mud cap to continue TIH. Tag top of fish @ 11,010'. Hooked on to fish and start on retrieving same at a slow pick up rate, fishing tools disengaging while attempting to Pull, screw back into it and continue to pull on same. Pump fresh water down DP as requested by Fish hand and Co. Man. Received 462bbls of 14.7ppg OBM ($65.00), and 454bbls of 10.7ppg ($15.00)

Eng. 1:	Eng. 2:	WH 1:	WH 2:	Rig Phone:	Daily Total	Cumulative Cost
Matt Meehan	Adolfo Roman	MIDLAND	WH #2	
Phone: 985-351-7561	Phone: 956-821-9994	Phone: 432-685-4023	Phone: -		**$9,450.00**	**$332,607.87**

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

INCLUDING 3RD PARTY CHARGES **$10,229.10** **$405,983.49**

OUTSOURCE FLUID SOLUTIONS LLC.

MATERIAL CONSUMPTION

Date	Operator	Well Name and No.	Rig Name and No.	Report No.
05/23/20	MAGNOLIA OIL & GAS	LEVI GOODRICH UNIT 2 - 2H	248	Report #22

DAILY USAGE & COST								CUMULATIVE	
Item	Unit	Unit Cost	Previous Inventory	Received	Closing Inventory	Daily Usage	Daily Cost	Cum Usage	Cum Cost
ALUMINUM TRISTEARATE	25# sk	$162.83							
SAPP (50)	50# sk	$44.50						31	$1,379.50
PHPA LIQUID (pail)	5 gal	$41.36						2	$82.72
DYNA DET	pail	$32.23						4	$128.92
CACL2 (50)	50# sk	$16.60	252		252			321	$5,328.60
LIME (50)	50# sk	$5.00	250		250			300	$1,500.00
BENTONE 910 (50)	50# sk	$59.94	49		49			21	$1,258.74
BENTONE 990 (50)	50# sk	$83.59	53		53			27	$2,256.93
OPTI G	50# sk	$30.59	140		140			100	$3,059.00
OPTI MUL HP	gal	$10.75	550		550			375	$4,031.25
OPTI WET	gal	$8.34	515		515			300	$2,502.00
NEW PHALT	50# sk	$38.72	90		90			70	$2,710.40
NEWCARB 200	50# sk	$5.25	96		96			74	$388.50
MAGMAFIBER F (25)	25# sk	$28.05	132		132			62	$1,739.10
OIL SORB (25)	25# sk	$4.75	40		40				
PHPA LIQUID (pail)	5 gal	$41.36	90		90			7	$289.52
GEL (100)	100# sk		70		70				
BENTONE 38 (50)	50# sk	$163.94	25		25			15	$2,459.10
CYBERSEAL	25# sk	$21.47	240		240			8	$171.76
Evo-Lube	gal	$9.31	975		975			125	$1,163.75
NEW-WATE (SACK BARITE)	100# sk	$11.50	160		160				
BARITE BULK (100)	100# sk	$7.00	1480		1480			1965	$13,755.00
OPTI DRILL (OBM)	bbl	$65.00	363	462	718	107	$6,955.00	3464	$225,160.00
Magnolia Owned OBM	bbl							130	
Discounted High LGS OBM	bbl	$15.00	488	454	903	39	$585.00	821	$12,315.00
ENGINEERING (24 HR)	each	$925.00				2	$1,850.00	40	$37,000.00
ENGINEERING (DIEM)	bbl	$30.00				2	$60.00	40	$1,200.00
ENGINEERING (MILES)	each	$1.00						1049	$1,049.00
TRUCKING (cwt)	each	$2.50						3878	$9,696.08
TRUCKING (min)	each	$795.00						1	$795.00
PALLETS (ea)	each	$12.00						51	$612.00
SHRINK WRAP (ea)	each	$12.00						48	$576.00
		Daily Sub-Total $9,450.00			**Cumulative Total $332,607.87**			**$332,607.87**	

THIRD PARTY COST SHEET

Date	Operator	Well Name and No.	Rig Name and No.	Report No.
05/23/20	**MAGNOLIA OIL & GAS**	**LEVI GOODRICH UNIT 2 - 2H**	**248**	**Report #22**

DAILY USAGE & COST								CUMULATIVE	
Item	Unit	Unit Cost	Previous Inventory	Received	Closing Inventory	Daily Usage	Daily Cost	Cum Usage	Cum Cost
Diesel 4/25/20	gal	$0.91							
Diesel 5/6/20	gal	$0.90						5040	$4,536.00
Diesel 5/8/20	gal	$0.93						7302	$6,790.86
Diesel 5/9/20	gal	$0.96						7006	$6,725.76
Diesel 5/10/20	gal	$0.97						7300	$7,081.00
Diesel 5/14/20	gal	$0.98						7400	$7,252.00
Diesel 5/15/20	gal	$0.97						6750	$6,547.50
Diesel 5/16/20	gal	$1.03						7100	$7,313.00
Diesel 5/17/20	gal	$1.03						7634	$7,863.02
Diesel 5/17/20 Load #2	gal	$1.03						7402	$7,624.06
Diesel 5/19/ 20	gal	$1.06						6221	$6,594.26
Diesel 5/19/20	gal	$1.06	6500		5765	735	$779.10	1536	$1,628.16
TurboChem First Response	each	$41.75	420		420			80	$3,340.00
TurboChem Pallets	each	$20.00	8		8			2	$40.00
TurboChem Shrink Wrap	each	$20.00	8		8			2	$40.00
Diesel 5/22/20	gal	$1.11		5545	5545				
					Daily Sub-Total		**$779.10**		**$73,375.62**

Cumulative Total AES & 3rd Party $405,983.49

5/23/2020 **Report 22 pm**

110 Old Market St.
St Martinville, LA 70582

TEL: (337) 394-1078

Operator	Contractor	County / Parish / Block	Engineer Start Date	24 hr ftg.	Drilled Depth
MAGNOLIA OIL & GAS	**PATTERSON**	**WASHINGTON**	**04/22/20**		**16,029 ft**
Well Name and No.	Rig Name and No.	State	Spud Date	Current ROP	Activity
LEVI GOODRICH UNIT 2 - 2H	**248**	**TEXAS**	**04/26/20**		**M/U OVERSHOT**
Report for	Report for	Field / OSC-G #	Fluid Type	Circulating Rate	Circulating Pressure
Bobby Gwinn/James Dyer	**Tool Pusher**	**GIDDINGS**	**WBM**		

MUD PROPERTY SPECIFICATIONS

Weight	PV	YP	GELS	pH	API fl	% Solids
8.4-9.4	**0-10**	**0-10**	**<5 <15**	**8-9**	**<30**	**2-10**

MUD PROPERTIES

Time Sample Taken	1:00		12:30
Sample Location	pit		pit
Flowline Temperature °F			
Depth (ft)	16,029'		16,029'
Mud Weight (ppg)	8.4		8.4
Funnel Vis (sec/qt) @ 73 °F	27		27
600 rpm	3		3
300 rpm	2		2
200 rpm	1		1
100 rpm	1		1
6 rpm	1		1
3 rpm	1		1
Plastic Viscosity (cp) @ 120 °F	1		1
Yield Point (lb/100 ft²) T0 = 1	1		1
Gel Strength (lb/100 ft²) 10 sec / 10 min	1/1		1/1
Gel Strength (lb/100 ft2) 30 min	1		1
API Filtrate / Cake Thickness			
HTHP Filtrate / Cake Thickness			
Retort Solids Content	0.4%		0.4%
Retort Oil Content			
Retort Water Content	99.6%		99.6%
Sand Content	0%		0%
M.B.T. (Methylene Blue Capacity) (ppb)			
pH	8.0		8.0
Alkalinity, Mud Pm			
Alkalinities, Filtrate Pf/Mf			
Chlorides (mg/L)	400		400
Calcium (ppm)	40		40
Excess Lime (lb/bbl)			
Average Specific Gravity of Solids	2.60	2.60	2.60
Percent Low Gravity Solids	0.4%		0.4%
Percent Drill Solids	0.4%		0.4%
PPA Spurt / Total (ml) @			
Estimated Total LCM in System			
Sample Taken By	A. Roman		

MUD VOLUME (BBL)

In Pits	105 bbl
In Hole	737 bbl
Active	105 bbl
Storage	1313 bbl
Tot. on Location	2155 bbl

PUMP #1

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

PUMP #2

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

RISER BOOSTER

Liner Size
Stroke
bbl/stk
stk/min
gal/min

Mud Wt. = 8.4 PV=1 YP=1 **CIRCULATION DATA** n = 0.585 K = 26.6

Washout = 2% Pump Efficiency = 95%

Drill String Disp.	Volume to Bit	Strokes To Bit	Time To Bit
	Bottoms Up Vol.	BottomsUp Stks	BottomsUp Time
	TotalCirc.Vol. 105.0 bbl	TotalCirc.Stks	Total Circ. Time

DRILLING ASSEMBLY DATA

Tubulars	OD (in.)	ID (in.)	Length	Top
Drill Pipe	4.500	3.826		
Hevi Wt				
Collars				

CASING & HOLE DATA

Casing	OD (in.)	ID (in.)	Depth	Top
Riser				
Surface	10 1/2		2,991'	
Int. Csg.	7 5/8	6.875	10,273'	
Open Hole Size	6.885		16,029'	

ANNULAR GEOMETRY & RHEOLOGY

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

BIT DATA Manuf./Type ULTERRA U611S

Size	Depth In	Hours	Footage	ROP ft/hr
6 3/4	16,006 ft			

SOLIDS CONTROL

Unit	Screens	Hours
Shaker 1	170	
Shaker 2	170	
Shaker 3	170	
Centrifuge 1		

VOLUME ACCOUNTING (bbls)

Prev. Total on Location	1583.8
Transferred In(+)/Out(-)	916.0
Oil Added (+)	17.5
Barite Added (+)	
Other Product Usage (+)	
Water Added (+)	250.0
Left on Cuttings (-)	
Lost to Formation	-364.5
Est. Total on Location	2402.8
Est. Losses/Gains (-)/(+)	-248.0

BIT HYDRAULICS DATA

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

Motor/MWD 1,300 psi

Calc. Circ. Pressure 1,300 psi

Afternoon Remarks/Recommendations:

Afternoon Rig Activity:

Disengage from fish, well had 610 PSI DP pressure, pump 150 bbls 14.7 ppg OBM down drillpipe and 50 bbls 14.7 ppg down casing, well was dead, pull out of hole, pump 9.3 ppg OBM for pipe displacement while tripping. Currently out of hole and make up 6-5/8" overshot for fishing run #2. Pump 40 bbls 14.7 ppg OBM down casing before tripping in hole. Receiving 350 bbls 14.7 OBM and 300 bbls 9.0 OBM from Newpark Madisonville Mud Plant.

5/24/2020 **Report 23 pm**

110 Old Market St.
St Martinville, LA 70582

TEL: (337) 394-1078

9.4° **4,597' TVD**

Operator	Contractor	County / Parish / Block	Engineer Start Date	24 hr ftg.	Drilled Depth
MAGNOLIA OIL & GAS	**PATTERSON**	**WASHINGTON**	**04/22/20**		**16,029 ft**
Well Name and No.	Rig Name and No.	State	Spud Date	Current ROP	Activity
LEVI GOODRICH UNIT 2 - 2H	**248**	**TEXAS**	**04/26/20**		**POOH W/ FISH**
Report for	Report for	Field / OSC-G #	Fluid Type	Circulating Rate	Circulating Pressure
Bobby Gwinn/James Dyer	**Tool Pusher**	**GIDDINGS**	**OBM**	**16 gpm**	

MUD PROPERTY SPECIFICATIONS

Weight	PV	YP	E.S.	CaCl2	GELS	HTHP
9-17	**8-35**	**8-18**	**>500**	**±250K**	**<10 <25**	**<6**

MUD PROPERTIES

Time Sample Taken			11:30
Sample Location			suction
Flowline Temperature °F			
Depth (ft)			16,029'
Mud Weight (ppg)			16.0
Funnel Vis (sec/qt) @ 98 °F			72
600 rpm			71
300 rpm			42
200 rpm			32
100 rpm			21
6 rpm			7
3 rpm			6
Plastic Viscosity (cp) @ 150 °F			29
Yield Point (lb/100 ft²) T0 = 5			13
Gel Strength (lb/100 ft²) 10 sec / 10 min			8/11
Gel Strength (lb/100 ft2) 30 min			13
HTHP Filtrate (cm/30 min) @ 300 °F			4.8
HTHP Cake Thickness (32nds)			2.0
Retort Solids Content			47%
Corrected Solids (vol%)			45.4%
Retort Oil Content			37%
Retort Water Content			16%
O/W Ratio			70:30
Whole Mud Chlorides (mg/L)			40,000
Water Phase Salinity (ppm)			281,620
Whole Mud Alkalinity, Pom			2.0
Excess Lime (lb/bbl)			2.6 ppb
Electrical Stability (volts)			488 v
Average Specific Gravity of Solids			3.74
Percent Low Gravity Solids			9.3%
ppb Low Gravity Solids			77 ppb
Percent Barite			36.1%
ppb Barite			517 ppb
Estimated Total LCM in System			
Sample Taken By			M Washburn

MUD VOLUME (BBL)

In Pits	252 bbl
In Hole	712 bbl
Active	439 bbl
Storage	1042 bbl
Tot. on Location	2006 bbl

PUMP #1

Liner Size	5.25
Stroke	12
bbl/stk	0.0763
stk/min	5
gal/min	16

PUMP #2

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

RISER BOOSTER

Liner Size
Stroke
bbl/stk
stk/min
gal/min

Mud Wt. = 16.0 PV=29 YP=13 **CIRCULATION DATA** n = 0.757 K = 190.3

Bit Depth = 4,627 ' | Washout = 2% | Pump Efficiency = 95%

Drill String Disp.							
25.2 bbl	Volume to Bit	65.8 bbl	Strokes To Bit	862	Time To Bit	172 min
	Bottoms Up Vol.	121.4 bbl	BottomsUp Stks	1,591	BottomsUp Time	318 min
	TotalCirc.Vol.	439.2 bbl	TotalCirc.Stks	5,756	Total Circ. Time	1151 min

DRILLING ASSEMBLY DATA

Tubulars	OD (in.)	ID (in.)	Length	Top
Drill Pipe	4.500	3.826	4,627'	
Hevi Wt				4,627'
Collars				4,627'
				4,627'

CASING & HOLE DATA

Casing	OD (in.)	ID (in.)	Depth	Top
Riser				
Surface	10 1/2		2,991'	
Int. Csg.	7 5/8	6.875	10,273'	
Open Hole Size		6.885	16,029'	

ANNULAR GEOMETRY & RHEOLOGY

annular section	depth	velocity ft/min	flow reg	ECD lb/gal
6.875x4.5	4,627'	14.5	lam	16.49

BIT DATA Manuf./Type ULTERRA U611S

Size	Depth In	Hours	Footage	ROP ft/hr
6 3/4	16,006 ft			

SOLIDS CONTROL

Unit	Screens	Hours
Shaker 1	170	
Shaker 2	170	
Shaker 3	170	
Centrifuge 1		

VOLUME ACCOUNTING (bbls)

Prev. Total on Location	1970.5
Transferred In(+)/Out(-)	
Oil Added (+)	
Barite Added (+)	
Other Product Usage (+)	
Water Added (+)	
Left on Cuttings (-)	
Lost to Formation	
Est. Total on Location	1970.5
Est. Losses/Gains (-)/(+)	35.0

BIT HYDRAULICS DATA

Bit H.S.I.	Bit ΔP	Nozzles (32nds)		
0.00	psi	16	16	16
Bit Impact Force	Nozzle Velocity (ft/sec)	16	16	16
1 lbs	4			

Motor/MWD	Calc. Circ. Pressure
1,300 psi	1,436 psi

Afternoon Remarks/Recommendations:

Afternoon Rig Activity:

Trip in hole with overshot and fishing assembly, ream and wash from 11886 - 11896, screw into fish, pull 350K, fish broke free, Pump 150 bbls 16.0 ppg kill mud down drillpipe and 130 bbls 16.0 ppg kill mud down casing. Pull out of hole slowly, displace pipe volume constantly with 9.0 ppg mud with rig pump while pulling out. Received 540 bbls 14.4 ppg and 208 bbls 9.0 ppg kill mud. Trip depth at time of report is 4627

05/24/20 **Report #23**

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

OUTSOURCE FLUID SOLUTIONS LLC.

92.1° **10,585' TVD**

Operator	Contractor	County / Parish / Block	Engineer Start Date	24 hr ftg.	Drilled Depth
MAGNOLIA OIL & GAS	**PATTERSON**	**WASHINGTON**	**04/22/20**	**0 ft**	**16,029 ft**
Well Name and No.	Rig Name and No.	State	Spud Date	Current ROP	Activity
LEVI GOODRICH UNIT 2 - 2H	**248**	**TEXAS**	**04/26/20**	**0 ft/hr**	**TIH/FISHING**
Report for	Report for	Field / OCS-G #	Fluid Type	Circulating Rate	Circulating Pressure
Bobby Gwinn/James Dyer	**Tool Pusher**	**GIDDINGS**	**WBM**	**0 gpm**	**psi**

MUD PROPERTY SPECIFICATIONS							MUD VOLUME (BBL)		PUMP #1		PUMP #2		RISER BOOSTER	
Weight	PV	YP	GELS	pH	API fl	% Solids	In Pits	252 bbl	Liner Size	5.25	Liner Size	5.25	Liner Size	
8.4-9.4	**0-10**	**0-10**	**<5 <15**	**8-9**	**<30**	**2-10**	In Hole	676 bbl	Stroke	12	Stroke	12	Stroke	
				5/24/20		5/23/20	Active	699 bbl	bbl/stk	0.0763	bbl/stk	0.0763	bbl/stk	0.0000
Time Sample Taken				1:00		12:30	Storage	1042 bbl	stk/min	0	stk/min	0	stk/min	
Sample Location				pit		pit	Tot. on Location	1970 bbl	gal/min	0	gal/min	0	gal/min	0
Flowline Temperature °F							PHHP = 0		**CIRCULATION DATA**				n = 0.585	K = 26.563
Depth (ft)				16,029'		16,029'	Bit Depth = 11,055 '		Washout = 2%				Pump Efficiency = 95%	
Mud Weight (ppg)				8.4		8.4	Drill String Disp.	Volume to Bit 157.2 bbl	Strokes To Bit				Time To Bit	
Funnel Vis (sec/qt)			@ 73 °F	27		27		Bottoms Up Vol. 290.2 bbl	BottomsUp Stks				BottomsUp Time	
600 rpm				3		3	60.3 bbl	TotalCirc.Vol. 699.4 bbl	TotalCirc.Stks				Total Circ. Time	
300 rpm				2		2	**DRILLING ASSEMBLY DATA**						**SOLIDS CONTROL**	
200 rpm				1		1	Tubulars	OD (in.) ID (in.) Length Top					Unit	Screens Hours
100 rpm				1		1	Drill Pipe	4.500 3.826 11,055' 0'					Shaker 1	170
6 rpm				1		1	Hevi Wt	11,055'					Shaker 2	170
3 rpm				1		1	Collars	11,055'					Shaker 3	170
Plastic Viscosity (cp)			@ 120 °F	1		1		11,055'					Centrifuge 1	
Yield Point (lb/100 ft²)			T0 = 1	1		1	**CASING & HOLE DATA**							
Gel Strength (lb/100 ft²)			10 sec/10 min	1/1		1/1	Casing	OD (in.) ID (in.) Depth Top						
Gel Strength (lb/100 ft²)			30 min	1		1	Riser	0 0'					**VOLUME ACCOUNTING (bbls)**	
API Filtrate / Cake Thickness							Surface	10 1/2 2,991' 0'					Prev. Total on Location	2402.8
HTHP Filtrate / Cake Thickness			@ 0 °F				Int. Csg.	7 5/8 6.875 10,273' 0'					Transferred In(+)/Out(-)	782.0
Retort Solids Content				0.4%		0.4%							Oil Added (+)	18.2
Retort Oil Content													Barite Added (+)	19.5
Retort Water Content				99.6%		99.6%	Open Hole Size	6.885 16,029'					Other Product Usage (+)	0.0
Sand Content				0%		0%	**ANNULAR GEOMETRY & RHEOLOGY**						Water Added (+)	200.0
M.B.T. (Methylene Blue Capacity) (ppb)							annular section	meas. depth	velocity ft/min	flow reg	ECD lb/gal		Left on Cuttings (-)	0.0
pH				8.0		8.0							Lost to Formation	-1452.0
Alkalinity, Mud Pm														
Alkalinities, Filtrate Pf/Mf							6.875x4.5	10,273'	0.0	lam	8.40		Est. Total on Location	1970.5
Chlorides (mg/L)				400		400	6.885x4.5	11,055'	0.0	lam	8.40		Est. Losses/Gains (-)/(+)	0.0
Calcium (ppm)				40		40							**BIT HYDRAULICS DATA**	
Excess Lime (lb/bbl)													Bit H.S.I. / Bit ΔP / Nozzles (32nds)	
Average Specific Gravity of Solids				2.60	2.60	2.60							0.00 psi	16 16 16
Percent Low Gravity Solids				0.4%		0.4%							Bit Impact Force / Nozzle Velocity (ft/sec)	16 16 16
Percent Drill Solids				0.4%		0.4%								
PPA Spurt / Total (ml) @			@ 0 °F				**BIT DATA**		Manuf./Type ULTERRA U611S				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			6 3/4	16,006 ft					1,300 psi	

Remarks/Recommendations:

OBM RECEIVED: (6544) bbls

OBM On Hand (2169) bbls

Kill mud on Hand----139.bbls //14.7# // $65.00/bbl

9.3ppg OBM on Hand-----0.bbls //// $65.00/bbl

Discounted OBM on hand - (418bbl--12.3#); (485bbl--10.7#)

Rig Activity:

Pick up Fishing tools and TIH, Monitor well for any flow or Casing press. increase.
Work pipe through dog legs down hole,Pumping 9.3ppg OBM down drill pipe (519bbls), followed by 14.7ppg Kill Mud on back side and DP total (564bbls).
For a total 1083bbls OBM Pumped down hole, F/10,430' to 11,060'.
At this time we continue to work DP down hole. The Top of the fish is expected to be around 11,100' (+ -)
Received 479bbls of 14.7ppg OBM ($65.00), and 303bbls of 9.3ppg ($65.00). More OBM has been order from Mud Plant
to maintain Volume on hand.

Eng. 1:	Eng. 2:	WH 1:	WH 2:	Rig Phone:	Daily Total	Cumulative Cost
Matt Meehan	Adolfo Roman	MIDLAND	WH #2	
Phone: 985-351-7561	Phone: 956-821-9994	Phone: 432-685-4023	Phone: -		**$74,265.00**	**$406,872.87**

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

INCLUDING 3RD PARTY CHARGES **$75,075.90** **$481,059.39**

OUTSOURCE FLUID SOLUTIONS LLC.

MATERIAL CONSUMPTION

Date	Operator	Well Name and No.	Rig Name and No.	Report No.
05/24/20	MAGNOLIA OIL & GAS	LEVI GOODRICH UNIT 2 - 2H	248	Report #23

DAILY USAGE & COST								CUMULATIVE	
Item	Unit	Unit Cost	Previous Inventory	Received	Closing Inventory	Daily Usage	Daily Cost	Cum Usage	Cum Cost
ALUMINUM TRISTEARATE	25# sk	$162.83							
SAPP (50)	50# sk	$44.50						31	$1,379.50
PHPA LIQUID (pail)	5 gal	$41.36						2	$82.72
DYNA DET	pail	$32.23						4	$128.92
CACL2 (50)	50# sk	$16.60	252		252			321	$5,328.60
LIME (50)	50# sk	$5.00	250		250			300	$1,500.00
BENTONE 910 (50)	50# sk	$59.94	49		49			21	$1,258.74
BENTONE 990 (50)	50# sk	$83.59	53		53			27	$2,256.93
OPTI G	50# sk	$30.59	140		140			100	$3,059.00
OPTI MUL HP	gal	$10.75	550		550			375	$4,031.25
OPTI WET	gal	$8.34	515		515			300	$2,502.00
NEW PHALT	50# sk	$38.72	90		90			70	$2,710.40
NEWCARB 200	50# sk	$5.25	96		96			74	$388.50
MAGMAFIBER F (25)	25# sk	$28.05	132		132			62	$1,739.10
OIL SORB (25)	25# sk	$4.75	40		40				
PHPA LIQUID (pail)	5 gal	$41.36	90		90			7	$289.52
GEL (100)	100# sk		70		70				
BENTONE 38 (50)	50# sk	$163.94	25		25			15	$2,459.10
CYBERSEAL	25# sk	$21.47	240		240			8	$171.76
Evo-Lube	gal	$9.31	975		975			125	$1,163.75
NEW-WATE (SACK BARITE)	100# sk	$11.50	160		160				
BARITE BULK (100)	100# sk	$7.00	1480		1200	280	$1,960.00	2245	$15,715.00
OPTI DRILL (OBM)	bbl	$65.00	718	782	417	1083	$70,395.00	4547	$295,555.00
Magnolia Owned OBM	bbl							130	
Discounted High LGS OBM	bbl	$15.00	903		903			821	$12,315.00
ENGINEERING (24 HR)	each	$925.00				2	$1,850.00	42	$38,850.00
ENGINEERING (DIEM)	bbl	$30.00				2	$60.00	42	$1,260.00
ENGINEERING (MILES)	each	$1.00						1049	$1,049.00
TRUCKING (cwt)	each	$2.50						3878	$9,696.08
TRUCKING (min)	each	$795.00						1	$795.00
PALLETS (ea)	each	$12.00						51	$612.00
SHRINK WRAP (ea)	each	$12.00						48	$576.00
		Daily Sub-Total $74,265.00			**Cumulative Total $406,872.87**			**$406,872.87**	

THIRD PARTY COST SHEET

Date	Operator	Well Name and No.	Rig Name and No.	Report No.
05/24/20	**MAGNOLIA OIL & GAS**	**LEVI GOODRICH UNIT 2 - 2H**	**248**	**Report #23**

DAILY USAGE & COST									**CUMULATIVE**	
Item	Unit	Unit Cost	Previous Inventory	Received	Closing Inventory	Daily Usage	Daily Cost		Cum Usage	Cum Cost
Diesel 4/25/20	gal	$0.91								
Diesel 5/6/20	gal	$0.90							5040	$4,536.00
Diesel 5/8/20	gal	$0.93							7302	$6,790.86
Diesel 5/9/20	gal	$0.96							7006	$6,725.76
Diesel 5/10/20	gal	$0.97							7300	$7,081.00
Diesel 5/14/20	gal	$0.98							7400	$7,252.00
Diesel 5/15/20	gal	$0.97							6750	$6,547.50
Diesel 5/16/20	gal	$1.03							7100	$7,313.00
Diesel 5/17/20	gal	$1.03							7634	$7,863.02
Diesel 5/17/20 Load #2	gal	$1.03							7402	$7,624.06
Diesel 5/19/ 20	gal	$1.06							6221	$6,594.26
Diesel 5/19/20	gal	$1.06	5765		5000	765	$810.90		2301	$2,439.06
TurboChem First Response	each	$41.75	420		420				80	$3,340.00
TurboChem Pallets	each	$20.00	8		8				2	$40.00
TurboChem Shrink Wrap	each	$20.00	8		8				2	$40.00
Diesel 5/22/20	gal	$1.11	5545		5545					
					Daily Sub-Total	**$810.90**			**$74,186.52**	

Cumulative Total AES & 3rd Party $481,059.39

05/25/20 **Report #24**

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

OUTSOURCE FLUID SOLUTIONS LLC.

93.0° **10,583' TVD**

Operator	Contractor	County / Parish / Block	Engineer Start Date	24 hr ftg.	Drilled Depth
MAGNOLIA OIL & GAS	**PATTERSON**	**WASHINGTON**	**04/22/20**	**0 ft**	**16,029 ft**
Well Name and No.	Rig Name and No.	State	Spud Date	Current ROP	Activity
LEVI GOODRICH UNIT 2 - 2H	**248**	**TEXAS**	**04/26/20**	**0 ft/hr**	**TIH / FISHING**
Report for	Report for	Field / OCS-G #	Fluid Type	Circulating Rate	Circulating Pressure
Bobby Gwinn/James Dyer	**Tool Pusher**	**GIDDINGS**	**OBM**	**160 gpm**	**psi**

MUD PROPERTY SPECIFICATIONS						
Weight	PV	YP	E.S.	CaCl2	GELS	HTHP
9-17	**8-35**	**8-18**	**>450**	**±285K**	**<10 <25**	**<6**
				5/25/20		5/24/20
Time Sample Taken				2:00		11:30
Sample Location				Kill Mud		Kill Mud
Flowline Temperature °F						
Depth (ft)				16,029'		16,029'
Mud Weight (ppg)				16.3		16.0
Funnel Vis (sec/qt)			@ 78 °F	85		72
600 rpm				74		71
300 rpm				45		42
200 rpm				35		32
100 rpm				25		21
6 rpm				10		7
3 rpm				8		6
Plastic Viscosity (cp)			@ 150 °F	29		29
Yield Point (lb/100 ft²)			T0 = 6	16		13
Gel Strength (lb/100 ft²)			10 sec/10 min	10/18		8/11
Gel Strength (lb/100 ft^2)			30 min	24		13
HTHP Filtrate (cm/30 min)			@ 300 °F			4.8
HTHP Cake Thickness (32nds)						2.0
Retort Solids Content				48%		46%
Corrected Solids (vol%)				46.5%		44.4%
Retort Oil Content				38%		38%
Retort Water Content				14%		16%
O/W Ratio				73:27		70:30
Whole Mud Chlorides (mg/L)				36,000		40,000
Water Phase Salinity (ppm)				287,354		281,620
Whole Mud Alkalinity, Pom				2.0		2.0
Excess Lime (lb/bbl)				2.6 ppb		2.6 ppb
Electrical Stability (volts)				465 v		488 v
Average Specific Gravity of Solids				3.78		3.82
Percent Low Gravity Solids				8.4%		7%
ppb Low Gravity Solids				69 ppb		57 ppb
Percent Barite				38.1%		37.4%
ppb Barite				546 ppb		537 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	390 bbl	Liner Size	5.25	Liner Size	5.25	Liner Size	
In Hole	676 bbl	Stroke	12	Stroke	12	Stroke	
Active	839 bbl	bbl/stk	0.0763	bbl/stk	0.0763	bbl/stk	0.0000
Storage	1790 bbl	stk/min	50	stk/min	0	stk/min	
Tot. on Location	2856 bbl	gal/min	160	gal/min	0	gal/min	0

CIRCULATION DATA — PHHP = 0 — n = 0.718 K = 261.348

Bit Depth = 11,090 ' | Washout = 2% | Pump Efficiency = 95%

Drill String Disp.					
60.5 bbl	Volume to Bit	157.7 bbl	Strokes To Bit	2,067	Time To Bit 41 min
	Bottoms Up Vol.	291.2 bbl	BottomsUp Stks	3,815	BottomsUp Time 76 min
	TotalCirc.Vol.	838.9 bbl	TotalCirc.Stks	10,993	Total Circ. Time 220 min

DRILLING ASSEMBLY DATA

Tubulars	OD (in.)	ID (in.)	Length	Top
Drill Pipe	4.500	3.826	11,090'	0'
Hevi Wt				11,090'
Collars				11,090'
				11,090'

CASING & HOLE DATA

Casing	OD (in.)	ID (in.)	Depth	Top
Riser	0		0'	
Surface	10 1/2		2,991'	0'
Int. Csg.	7 5/8	6.875	10,273'	0'
Open Hole Size		6.885	16,029'	

ANNULAR GEOMETRY & RHEOLOGY

annular section	meas. depth	velocity ft/min	flow reg	ECD lb/gal
6.875x4.5	10,273'	145.4	lam	17.05
6.885x4.5	11,090'	144.6	lam	17.08

BIT DATA — Manuf./Type ULTERRA U611S

Size	Depth In	Hours	Footage	ROP ft/hr
6 3/4	16,006 ft			

SOLIDS CONTROL

Unit	Screens	Hours
Shaker 1	170	
Shaker 2	170	
Shaker 3	170	
Centrifuge 1		

VOLUME ACCOUNTING (bbls)

Prev. Total on Location	1970.5
Transferred In(+)/Out(-)	1537.0
Oil Added (+)	79.6
Barite Added (+)	27.8
Other Product Usage (+)	0.0
Water Added (+)	90.8
Left on Cuttings (-)	0.0
Lost to Formation	-849.5
Est. Total on Location	2856.3
Est. Losses/Gains (-)/(+)	0.0

BIT HYDRAULICS DATA

Bit H.S.I.	Bit ΔP	Nozzles (32nds)		
0.07	28 psi	16	16	16
Bit Impact Force	Nozzle Velocity (ft/sec)	16	16	16
59 lbs	44			

Motor/MWD	Calc. Circ. Pressure
1,300 psi	2,145 psi

Remarks/Recommendations:

OBM RECEIVED: (8,400) bbls

OBM ON SURFACE TANKS--2180 bbls (storage + pits 5/6/7)

OBM Kill mud on Hand----260bbls //14.4# // $65.00/bbl

OBM (LIGHT WT) on Hand-----510bbls //9.7#// $15.00/bbl

Discounted OBM on hand - (510bbl--12.7#); (510bbl--12.5#)

Rig Activity:

POOH with fishing tools, 2nd attempt to retrieve fish unsuccesfull. Re-set fishing tools and TIH to the top of the fish for a 3rd attempt to retrieve same. Prior to POOH on 2nd attempt, Kill the well: 150bbls/16# on DP - 130bbls/16# on Back Side - 80bbls/9.1# to fill trip; & 100bbls/16# to kill well periodicaly while POOH. TIH for 3rd attempt, @ 5000' - Pumped 76bbls/14.7# on DP - 206bbls/14.7# on Back Side. Resume TIH, tag top of fish @ 11,100'. Hooked on fish and begin POOH at slow speed. Monitor well for any pressure increase and consequently pump Kill mud (16#) to control same. OBM received 1537bbls.

Eng. 1:	Eng. 2:	WH 1:	WH 2:	WH #2	Rig Phone:
Matt Meehan	Adolfo Roman				
Phone: 985-351-7561	Phone: 956-821-9994	Phone: 432-685-4023	Phone:	-	

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

Any opinion and or recommendation, expressed orally or written herein, has been prepared carefully and may be used if the user so elects, however, no representation is made as to the validity of this information, and this is a recommendation only.

	Daily Total	Cumulative Cost
	$52,940.00	**$459,812.87**
INCLUDING 3RD PARTY CHARGES	**$56,485.70**	**$537,545.09**

OUTSOURCE FLUID SOLUTIONS LLC.

MATERIAL CONSUMPTION

Date	Operator	Well Name and No.	Rig Name and No.	Report No.
05/25/20	MAGNOLIA OIL & GAS	LEVI GOODRICH UNIT 2 - 2H	248	Report #24

DAILY USAGE & COST								CUMULATIVE	
Item	Unit	Unit Cost	Previous Inventory	Received	Closing Inventory	Daily Usage	Daily Cost	Cum Usage	Cum Cost
ALUMINUM TRISTEARATE	25# sk	$162.83							
SAPP (50)	50# sk	$44.50						31	$1,379.50
PHPA LIQUID (pail)	5 gal	$41.36						2	$82.72
DYNA DET	pail	$32.23						4	$128.92
CACL2 (50)	50# sk	$16.60	252		252			321	$5,328.60
LIME (50)	50# sk	$5.00	250		250			300	$1,500.00
BENTONE 910 (50)	50# sk	$59.94	49		49			21	$1,258.74
BENTONE 990 (50)	50# sk	$83.59	53		53			27	$2,256.93
OPTI G	50# sk	$30.59	140		140			100	$3,059.00
OPTI MUL HP	gal	$10.75	550		550			375	$4,031.25
OPTI WET	gal	$8.34	515		515			300	$2,502.00
NEW PHALT	50# sk	$38.72	90		90			70	$2,710.40
NEWCARB 200	50# sk	$5.25	96		96			74	$388.50
MAGMAFIBER F (25)	25# sk	$28.05	132		132			62	$1,739.10
OIL SORB (25)	25# sk	$4.75	40		40				
PHPA LIQUID (pail)	5 gal	$41.36	90		90			7	$289.52
GEL (100)	100# sk		70		70				
BENTONE 38 (50)	50# sk	$163.94	25		25			15	$2,459.10
CYBERSEAL	25# sk	$21.47	240		240			8	$171.76
Evo-Lube	gal	$9.31	975		975			125	$1,163.75
NEW-WATE (SACK BARITE)	100# sk	$11.50	160		160				
BARITE BULK (100)	100# sk	$7.00	1200		800	400	$2,800.00	2645	$18,515.00
OPTI DRILL (OBM)	bbl	$65.00	417	1074	749	742	$48,230.00	5289	$343,785.00
Magnolia Owned OBM	bbl							130	
Discounted High LGS OBM	bbl	$15.00	903	463	1366			821	$12,315.00
ENGINEERING (24 HR)	each	$925.00				2	$1,850.00	44	$40,700.00
ENGINEERING (DIEM)	bbl	$30.00				2	$60.00	44	$1,320.00
ENGINEERING (MILES)	each	$1.00						1049	$1,049.00
TRUCKING (cwt)	each	$2.50						3878	$9,696.08
TRUCKING (min)	each	$795.00						1	$795.00
PALLETS (ea)	each	$12.00						51	$612.00
SHRINK WRAP (ea)	each	$12.00						48	$576.00
		Daily Sub-Total $52,940.00			**Cumulative Total $459,812.87**			**$459,812.87**	

THIRD PARTY COST SHEET

Date	Operator	Well Name and No.	Rig Name and No.	Report No.
05/25/20	MAGNOLIA OIL & GAS	LEVI GOODRICH UNIT 2 - 2H	248	Report #24

DAILY USAGE & COST								CUMULATIVE	
Item	Unit	Unit Cost	Previous Inventory	Received	Closing Inventory	Daily Usage	Daily Cost	Cum Usage	Cum Cost
Diesel 4/25/20	gal	$0.91							
Diesel 5/6/20	gal	$0.90						5040	$4,536.00
Diesel 5/8/20	gal	$0.93						7302	$6,790.86
Diesel 5/9/20	gal	$0.96						7006	$6,725.76
Diesel 5/10/20	gal	$0.97						7300	$7,081.00
Diesel 5/14/20	gal	$0.98						7400	$7,252.00
Diesel 5/15/20	gal	$0.97						6750	$6,547.50
Diesel 5/16/20	gal	$1.03						7100	$7,313.00
Diesel 5/17/20	gal	$1.03						7634	$7,863.02
Diesel 5/17/20 Load #2	gal	$1.03						7402	$7,624.06
Diesel 5/19/ 20	gal	$1.06						6221	$6,594.26
Diesel 5/19/20	gal	$1.06	5000		1655	3345	$3,545.70	5646	$5,984.76
TurboChem First Response	each	$41.75	420		420			80	$3,340.00
TurboChem Pallets	each	$20.00	8		8			2	$40.00
TurboChem Shrink Wrap	each	$20.00	8		8			2	$40.00
Diesel 5/22/20	gal	$1.11	5545		5545				
							Daily Sub-Total $3,545.70		$77,732.22

Cumulative Total AES & 3rd Party $537,545.09

5/25/2020 **Report 24 pm**

110 Old Market St.
St Martinville, LA 70582

TEL: (337) 394-1078

93.1° **10,583' TVD**

Operator	Contractor	County / Parish / Block	Engineer Start Date	24 hr ftg.	Drilled Depth
MAGNOLIA OIL & GAS	**PATTERSON**	**WASHINGTON**	**04/22/20**		**16,029 ft**
Well Name and No.	Rig Name and No.	State	Spud Date	Current ROP	Activity
LEVI GOODRICH UNIT 2 - 2H	**248**	**TEXAS**	**04/26/20**		**JAR ON FISH**
Report for	Report for	Field / OSC-G #	Fluid Type	Circulating Rate	Circulating Pressure
Bobby Gwinn/James Dyer	**Tool Pusher**	**GIDDINGS**	**OBM**	**160 gpm**	

MUD PROPERTY SPECIFICATIONS

Weight	PV	YP	E.S.	CaCl2	GELS	HTHP
9-17	**8-35**	**8-18**	**>450**	**±285K**	**<10 <25**	**<6**

MUD PROPERTIES

Time Sample Taken	2:00		12:30
Sample Location	Kill Mud		Kill Mud
Flowline Temperature °F			
Depth (ft)	16,029'		16,029'
Mud Weight (ppg)	16.3		16.4
Funnel Vis (sec/qt) @ 85 °F	85		83
600 rpm	74		73
300 rpm	45		44
200 rpm	35		34
100 rpm	25		25
6 rpm	10		9
3 rpm	8		8
Plastic Viscosity (cp) @ 150 °F	29		29
Yield Point (lb/100 ft²) T0 = 6	16		15
Gel Strength (lb/100 ft²) 10 sec / 10 min	10/18		10/16
Gel Strength (lb/100 ft2) 30 min	24		20
HTHP Filtrate (cm/30 min) @ 300 °F			4.8
HTHP Cake Thickness (32nds)			2.0
Retort Solids Content	48%		48.5%
Corrected Solids (vol%)	46.5%		47%
Retort Oil Content	38%		37.5%
Retort Water Content	14%		14%
O/W Ratio	73:27		73:27
Whole Mud Chlorides (mg/L)	36,000		38,000
Water Phase Salinity (ppm)	287,354		298,552
Whole Mud Alkalinity, Pom	2.0		2.0
Excess Lime (lb/bbl)	2.6 ppb		2.6 ppb
Electrical Stability (volts)	465 v		488 v
Average Specific Gravity of Solids	3.78		3.77
Percent Low Gravity Solids	8.4%		8.9%
ppb Low Gravity Solids	69 ppb		73 ppb
Percent Barite	38.1%		38%
ppb Barite	546 ppb		546 ppb
Estimated Total LCM in System			
Sample Taken By	A. Roman		M Washburn

MUD VOLUME (BBL)

In Pits	390 bbl
In Hole	676 bbl
Active	840 bbl
Storage	1790 bbl
Tot. on Location	2856 bbl

PUMP #1

Liner Size	5.25
Stroke	12
bbl/stk	0.0763
stk/min	50
gal/min	160

PUMP #2

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

RISER BOOSTER

Liner Size
Stroke
bbl/stk
stk/min
gal/min

Mud Wt. = 16.3 PV=29 YP=16 **CIRCULATION DATA** n = 0.718 K = 261.3

Bit Depth = 11,107 ' | Washout = 2% | Pump Efficiency = 95%

Drill String Disp.							
60.5 bbl	Volume to Bit	157.9 bbl	Strokes To Bit	2,070	Time To Bit	41 min
	Bottoms Up Vol.	291.6 bbl	BottomsUp Stks	3,821	BottomsUp Time	76 min
	TotalCirc.Vol.	839.5 bbl	TotalCirc.Stks	11,002	Total Circ. Time	220 min

DRILLING ASSEMBLY DATA

Tubulars	OD (in.)	ID (in.)	Length	Top
Drill Pipe	4.500	3.826	11,107'	
Hevi Wt				11,107'
Collars				11,107'
				11,107'

CASING & HOLE DATA

Casing	OD (in.)	ID (in.)	Depth	Top
Riser				
Surface	10 1/2		2,991'	
Int. Csg.	7 5/8	6.875	10,273'	
Open Hole Size	6.885		16,029'	

ANNULAR GEOMETRY & RHEOLOGY

annular section	depth	velocity ft/min	flow reg	ECD lb/gal
6.875x4.5	10,273'	145.4	lam	17.05
6.885x4.5	11,107'	144.6	lam	17.08

BIT DATA Manuf./Type ULTERRA U611S

Size	Depth In	Hours	Footage	ROP ft/hr
6 3/4	16,006 ft			

SOLIDS CONTROL

Unit	Screens	Hours
Shaker 1	170	
Shaker 2	170	
Shaker 3	170	
Centrifuge 1		

VOLUME ACCOUNTING (bbls)

Prev. Total on Location	1970.5
Transferred In(+)/Out(-)	1537.0
Oil Added (+)	79.6
Barite Added (+)	27.8
Other Product Usage (+)	
Water Added (+)	90.8
Left on Cuttings (-)	
Lost to Formation	-849.5
Est. Total on Location	2856.3
Est. Losses/Gains (-)/(+)	-0.1

BIT HYDRAULICS DATA

Bit H.S.I.	Bit ΔP	Nozzles (32nds)		
0.07	28 psi	16	16	16
Bit Impact Force	Nozzle Velocity (ft/sec)	16	16	16
59 lbs	44			

Motor/MWD 1,300 psi | Calc. Circ. Pressure 2,146 psi

Afternoon Remarks/Recommendations:

Afternoon Rig Activity:

Trip in hole and screw into fish, work and jar on stuck pipe. Pump 110 bbls diesel displace with water outside bit and BHA in annulus. Pump 122 bbls 16.4 ppg kill mud down casing, then pump 270 bbls 10.3 ppg down drillpipe to kill well. Periodicaly pump water down the drillpipe to activte agitator. Receiving additional 13.2 ppg OBM discounted OBM @ $15.00 /bbl.

05/26/20 **Report #25**

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

OUTSOURCE FLUID SOLUTIONS LLC.

93.0° **10,583' TVD**

Operator	Contractor	County / Parish / Block	Engineer Start Date	24 hr ftg.	Drilled Depth
MAGNOLIA OIL & GAS	**PATTERSON**	**WASHINGTON**	**04/22/20**	**0 ft**	**16,029 ft**
Well Name and No.	Rig Name and No.	State	Spud Date	Current ROP	Activity
LEVI GOODRICH UNIT 2 - 2H	**248**	**TEXAS**	**04/26/20**	**0 ft/hr**	**Work Pipe**
Report for	Report for	Field / OCS-G #	Fluid Type	Circulating Rate	Circulating Pressure
Bobby Gwinn/James Dyer	**Tool Pusher**	**GIDDINGS**	**OBM**	**160 gpm**	

MUD PROPERTY SPECIFICATIONS							MUD VOLUME (BBL)		PUMP #1		PUMP #2		RISER BOOSTER	
Weight	PV	YP	E.S.	CaCl2	GELS	HTHP	In Pits	572 bbl	Liner Size	5.25	Liner Size	5.25	Liner Size	
9-17	**8-35**	**8-18**	**>450**	**±250K**	**<10 <25**	**<6**	In Hole	676 bbl	Stroke	12	Stroke	12	Stroke	
				5/26/20		5/25/20	Active	1021 bbl	bbl/stk	0.0763	bbl/stk	0.0763	bbl/stk	0.0000
Time Sample Taken				2:00		12:30	Storage	2042 bbl	stk/min	50	stk/min	0	stk/min	
Sample Location				suction		Kill Mud	Tot. on Location	3290 bbl	gal/min	160	gal/min	0	gal/min	0
Flowline Temperature °F							PHHP = 0		**CIRCULATION DATA**				n = 0.747	K = 135.177
Depth (ft)				11,090'		16,029'	Bit Depth = 11,090 '		Washout = 2%				Pump Efficiency = 95%	
Mud Weight (ppg)				10.5		16.4	Drill String Disp.	Volume to Bit 157.7 bbl	Strokes To Bit 2,067				Time To Bit 41 min	
Funnel Vis (sec/qt)			@ 85 °F	72		83		Bottoms Up Vol. 291.2 bbl	BottomsUp Stks 3,815				BottomsUp Time 76 min	
600 rpm				47		73	60.5 bbl	TotalCirc.Vol. 1020.9 bbl	TotalCirc.Stks 13,378				Total Circ. Time 268 min	
300 rpm				28		44	**DRILLING ASSEMBLY DATA**						**SOLIDS CONTROL**	
200 rpm				20		34	Tubulars	OD (in.)	ID (in.)	Length	Top		Unit Screens Hours	
100 rpm				14		25	Drill Pipe	4.500	3.826	11,090'	0'		Shaker 1 170	
6 rpm				7		9	Hevi Wt				11,090'		Shaker 2 170	
3 rpm				5		8	Collars				11,090'		Shaker 3 170	
Plastic Viscosity (cp)			@ 150 °F	19		29					11,090'		Centrifuge 1	
Yield Point (lb/100 ft²)			T0 = 3	9		15	**CASING & HOLE DATA**							
Gel Strength (lb/100 ft²)			10 sec/10 min	8/14		10/16	Casing	OD (in.)	ID (in.)	Depth	Top			
Gel Strength (lb/100 ft^2)			30 min	19		20	Riser	0		0'			**VOLUME ACCOUNTING (bbls)**	
HTHP Filtrate (cm/30 min)			@ 300 °F	6.0		4.8	Surface	10 1/2		2,991'	0'		Prev. Total on Location	2856.3
HTHP Cake Thickness (32nds)				2.0		2.0	Int. Csg.	7 5/8	6.875	10,273'	0'		Transferred In(+)/Out(-)	811.0
Retort Solids Content				30%		48.5%							Oil Added (+)	171.4
Corrected Solids (vol%)				28.2%		47%							Barite Added (+)	13.9
Retort Oil Content				48%		37.5%	Open Hole Size		6.885	16,029'			Other Product Usage (+)	5.3
Retort Water Content				22%		14%	**ANNULAR GEOMETRY & RHEOLOGY**						Water Added (+)	564.3
O/W Ratio				69:31		73:27	annular section	meas. depth	velocity ft/min	flow reg	ECD lb/gal		Left on Cuttings (-)	0.0
Whole Mud Chlorides (mg/L)				45,000		38,000							Lost to Formation	-1132.0
Water Phase Salinity (ppm)				242,851		298,552								
Whole Mud Alkalinity, Pom				1.0		2.0	6.875x4.5	10,273'	145.4	lam	10.94		Est. Total on Location	3290.3
Excess Lime (lb/bbl)				1.3 ppb		2.6 ppb	6.885x4.5	11,090'	144.6	lam	10.95		Est. Losses/Gains (-)/(+)	0.0
Electrical Stability (volts)				450 v		488 v							**BIT HYDRAULICS DATA**	
Average Specific Gravity of Solids				3.44		3.77							Bit H.S.I. / Bit ΔP / Nozzles (32nds)	
Percent Low Gravity Solids				10.7%		8.9%							0.05 / 18 psi / 16 16 16	
ppb Low Gravity Solids				88 ppb		73 ppb							Bit Impact Force / Nozzle Velocity (ft/sec) / 16 16 16	
Percent Barite				17.5%		38%								
ppb Barite				251 ppb		546 ppb	**BIT DATA**		Manuf./Type	ULTERRA U611S			38 lbs / 44	
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	16,006 ft					1,300 psi	1,816 psi

Remarks/Recommendations:

OBM RECEIVED: (8,400) bbls

OBM ON SURFACE TANKS--2614 bbls (storage + Active)

OBM Kill mud on Hand----720bbls //14.4# // $65.00/bbl

Discounted OBM on hand - (433bbl--12.7#); (489bbl--13.5#)

Rig Activity:

Continue working jar's on stuck pipe with fishing tools, attempting unsuccessfully to free up stuck pipe, Mixing Mud in the storage tanks for up-coming operations. LCM Isolation plug mixed in slug tank with--80bbls OBM 9.5ppg + (25ppb-Mag.Fiber / 15ppb CalCarb M / 30ppb First Response). 10.5ppg OBM transfer to Active pits for circulation of well bore, following hesitation squeeze of previous LCM plug. At this time LCM Pill is down hole, holding 260psi on standpipe pressure. Begin Hesitation squeeze.

Eng. 1:	Eng. 2:	WH 1:	WH 2:	Rig Phone:	Daily Total	Cumulative Cost
Matt Meehan	Adolfo Roman	PLEASANTON	WH #2	
Phone: 985-351-7561	Phone: 956-821-9994	Phone: 432-685-4023	Phone: -		**$36,532.00**	**$496,344.87**

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

INCLUDING 3RD PARTY CHARGES	**$55,118.63**	**$592,663.72**

OUTSOURCE FLUID SOLUTIONS LLC.

MATERIAL CONSUMPTION

Date	Operator	Well Name and No.	Rig Name and No.	Report No.
05/26/20	MAGNOLIA OIL & GAS	LEVI GOODRICH UNIT 2 - 2H	248	Report #25

DAILY USAGE & COST								CUMULATIVE	
Item	Unit	Unit Cost	Previous Inventory	Received	Closing Inventory	Daily Usage	Daily Cost	Cum Usage	Cum Cost
ALUMINUM TRISTEARATE	25# sk	$162.83							
SAPP (50)	50# sk	$44.50						31	$1,379.50
PHPA LIQUID (pail)	5 gal	$41.36						2	$82.72
DYNA DET	pail	$32.23						4	$128.92
CACL2 (50)	50# sk	$16.60	252		252			321	$5,328.60
LIME (50)	50# sk	$5.00	250		250			300	$1,500.00
BENTONE 910 (50)	50# sk	$59.94	49		49			21	$1,258.74
BENTONE 990 (50)	50# sk	$83.59	53		53			27	$2,256.93
OPTI G	50# sk	$30.59	140		140			100	$3,059.00
OPTI MUL HP	gal	$10.75	550		550			375	$4,031.25
OPTI WET	gal	$8.34	515		515			300	$2,502.00
NEW PHALT	50# sk	$38.72	90		90			70	$2,710.40
NEWCARB 200	50# sk	$5.25	96		72	24	$126.00	98	$514.50
MAGMAFIBER F (25)	25# sk	$28.05	132		62	70	$1,963.50	132	$3,702.60
OIL SORB (25)	25# sk	$4.75	40		40				
PHPA LIQUID (pail)	5 gal	$41.36	90		90			7	$289.52
GEL (100)	100# sk		70		70				
BENTONE 38 (50)	50# sk	$163.94	25		25			15	$2,459.10
CYBERSEAL	25# sk	$21.47	240		240			8	$171.76
Evo-Lube	gal	$9.31	975		975			125	$1,163.75
NEW-WATE (SACK BARITE)	100# sk	$11.50	160		160				
BARITE BULK (100)	100# sk	$7.00	800	921	1521	200	$1,400.00	2845	$19,915.00
OPTI DRILL (OBM)	bbl	$65.00	749	378	890	237	$15,405.00	5526	$359,190.00
Magnolia Owned OBM	bbl							130	
Discounted High LGS OBM	bbl	$15.00	1366	443	914	895	$13,425.00	1716	$25,740.00
ENGINEERING (24 HR)	each	$925.00				2	$1,850.00	46	$42,550.00
ENGINEERING (DIEM)	bbl	$30.00				2	$60.00	46	$1,380.00
ENGINEERING (MILES)	each	$1.00						1049	$1,049.00
TRUCKING (cwt)	each	$2.50				921	$2,302.50	4799	$11,998.58
TRUCKING (min)	each	$795.00						1	$795.00
PALLETS (ea)	each	$12.00						51	$612.00
SHRINK WRAP (ea)	each	$12.00						48	$576.00
		Daily Sub-Total $36,532.00			**Cumulative Total $496,344.87**			**$496,344.87**	

THIRD PARTY COST SHEET

Date	Operator	Well Name and No.	Rig Name and No.	Report No.
05/26/20	**MAGNOLIA OIL & GAS**	**LEVI GOODRICH UNIT 2 - 2H**	**248**	**Report #25**

DAILY USAGE & COST								CUMULATIVE	
Item	Unit	Unit Cost	Previous Inventory	Received	Closing Inventory	Daily Usage	Daily Cost	Cum Usage	Cum Cost
Diesel 4/25/20	gal	$0.91							
Diesel 5/6/20	gal	$0.90						5040	$4,536.00
Diesel 5/8/20	gal	$0.93						7302	$6,790.86
Diesel 5/9/20	gal	$0.96						7006	$6,725.76
Diesel 5/10/20	gal	$0.97						7300	$7,081.00
Diesel 5/14/20	gal	$0.98						7400	$7,252.00
Diesel 5/15/20	gal	$0.97						6750	$6,547.50
Diesel 5/16/20	gal	$1.03						7100	$7,313.00
Diesel 5/17/20	gal	$1.03						7634	$7,863.02
Diesel 5/17/20 Load #2	gal	$1.03						7402	$7,624.06
Diesel 5/19/ 20	gal	$1.06						6221	$6,594.26
Diesel 5/19/20	gal	$1.06	1655			1655	$1,754.30	7301	$7,739.06
TurboChem First Response	each	$41.75	420		350	70	$2,922.50	150	$6,262.50
TurboChem Pallets	each	$20.00	8		8			2	$40.00
TurboChem Shrink Wrap	each	$20.00	8		8			2	$40.00
Diesel 5/22/20	gal	$1.11	5545			5545	$6,154.95	5545	$6,154.95
DIESEL 5/25/20	gal	$1.12		7404	480	6924	$7,754.88	6924	$7,754.88

Daily Sub-Total $18,586.63

$96,318.85

Cumulative Total AES & 3rd Party $592,663.72

5/26/2020 **Report 25 pm**

110 Old Market St.
St Martinville, LA 70582

TEL: (337) 394-1078

92.1° **10,585' TVD**

Operator	Contractor	County / Parish / Block	Engineer Start Date	24 hr ftg.	Drilled Depth
MAGNOLIA OIL & GAS	**PATTERSON**	**WASHINGTON**	**04/22/20**		**16,029 ft**
Well Name and No.	Rig Name and No.	State	Spud Date	Current ROP	Activity
LEVI GOODRICH UNIT 2 - 2H	**248**	**TEXAS**	**04/26/20**		**CIRC ABOVE FISH**
Report for	Report for	Field / OSC-G #	Fluid Type	Circulating Rate	Circulating Pressure
Bobby Gwinn/James Dyer	**Tool Pusher**	**GIDDINGS**	**OBM**	**189 gpm**	**1,980 psi**

MUD PROPERTY SPECIFICATIONS

Weight	PV	YP	E.S.	CaCl2	GELS	HTHP
9-17	**8-35**	**8-18**	**>450**	**±250K**	**<10 <25**	**<6**

MUD PROPERTIES				
Time Sample Taken	2:00		13:30
Sample Location	suction		pit
Flowline Temperature °F			105 °F
Depth (ft)	11,090'		11,090'
Mud Weight (ppg)	10.5		10.5
Funnel Vis (sec/qt) @ 90 °F	72		64
600 rpm	47		40
300 rpm	28		24
200 rpm	20		16
100 rpm	14		11
6 rpm	7		5
3 rpm	5		4
Plastic Viscosity (cp) @ 150 °F	19		16
Yield Point (lb/100 ft²) T0 = 3	9		8
Gel Strength (lb/100 ft²) 10 sec / 10 min	8/14		4/6
Gel Strength (lb/100 ft2) 30 min	19		9
HTHP Filtrate (cm/30 min) @ 300 °F	6.0		6.0
HTHP Cake Thickness (32nds)	2.0		2.0
Retort Solids Content	30%		28%
Corrected Solids (vol%)	28.2%		26.3%
Retort Oil Content	48%		52%
Retort Water Content	22%		20%
O/W Ratio	69:31		72:28
Whole Mud Chlorides (mg/L)	45,000		43,000
Water Phase Salinity (ppm)	242,851		252,134
Whole Mud Alkalinity, Pom	1.0		1.5
Excess Lime (lb/bbl)	1.3 ppb		2 ppb
Electrical Stability (volts)	450 v		410 v
Average Specific Gravity of Solids	3.44		3.77
Percent Low Gravity Solids	10.7%		4.9%
ppb Low Gravity Solids	88 ppb		41 ppb
Percent Barite	17.5%		21.4%
ppb Barite	251 ppb		307 ppb
Estimated Total LCM in System			
Sample Taken By	A. Roman		M Washburn

MUD VOLUME (BBL)

In Pits	572 bbl
In Hole	676 bbl
Active	1019 bbl
Storage	2042 bbl
Tot. on Location	3290 bbl

PUMP #1

Liner Size	5.25
Stroke	12
bbl/stk	0.0763
stk/min	59
gal/min	189

PUMP #2

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

RISER BOOSTER

Liner Size
Stroke
bbl/stk
stk/min
gal/min

Mud Wt. = 10.5 PV=19 YP=9 **CIRCULATION DATA** n = 0.747 K = 135.2

Bit Depth = 11,054 ' | Washout = 2% | Pump Efficiency = 95%

Drill String Disp.							
60.3 bbl	Volume to Bit	157.2 bbl	Strokes To Bit	2,060	Time To Bit	35 min
	Bottoms Up Vol.	290.2 bbl	BottomsUp Stks	3,803	BottomsUp Time	64 min
	TotalCirc.Vol.	1019.4 bbl	TotalCirc.Stks	13,359	Total Circ. Time	226 min

DRILLING ASSEMBLY DATA

Tubulars	OD (in.)	ID (in.)	Length	Top
Drill Pipe	4.500	3.826	11,054'	
Hevi Wt				11,054'
Collars				11,054'
				11,054'

CASING & HOLE DATA

Casing	OD (in.)	ID (in.)	Depth	Top
Riser				
Surface	10 1/2		2,991'	
Int. Csg.	7 5/8	6.875	10,273'	
Open Hole Size	6.885		16,029'	

ANNULAR GEOMETRY & RHEOLOGY

annular section	depth	velocity ft/min	flow reg	ECD lb/gal
6.875x4.5	10,273'	171.6	lam	10.95
6.885x4.5	11,054'	170.7	lam	10.97

BIT DATA Manuf./Type ULTERRA U611S

Size	Depth In	Hours	Footage	ROP ft/hr
6 3/4	16,006 ft			

SOLIDS CONTROL

Unit	Screens	Hours
Shaker 1	170	
Shaker 2	170	
Shaker 3	170	
Centrifuge 1		

VOLUME ACCOUNTING (bbls)

Prev. Total on Location	3290.3
Transferred In(+)/Out(-)	
Oil Added (+)	
Barite Added (+)	
Other Product Usage (+)	
Water Added (+)	
Left on Cuttings (-)	
Lost to Formation	
Est. Total on Location	3290.3
Est. Losses/Gains (-)/(+)	0.2

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
1,300 psi	#DIV/0!

Afternoon Remarks/Recommendations:

Afternoon Rig Activity:

After spot 69 bbls LCM pill, gradualy squeeze 32 bbls out of but, drillpipe pressure continued to drop, disengage from fish @ 11001, shut in well, circulate 10.5 around thru choke 1850 units maximum gas, weight up entire system to 10.5, beging weighting up to 10.7, pump 60 bbls 14.7 kill mud down drillpipe w/ 10 ppb First Response LCM. Continue to circulate thru choke wighting up system to 10.7 and adding LCM to active system.

05/27/20 **Report #26**

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

OUTSOURCE FLUID SOLUTIONS LLC.

0.4° **8,955' TVD**

Operator	Contractor	County / Parish / Block	Engineer Start Date	24 hr ftg.	Drilled Depth
MAGNOLIA OIL & GAS	**PATTERSON**	**WASHINGTON**	**04/22/20**	**0 ft**	**11,100 ft**
Well Name and No.	Rig Name and No.	State	Spud Date	Current ROP	Activity
LEVI GOODRICH UNIT 2 - 2H	**248**	**TEXAS**	**04/26/20**	**0 ft/hr**	**POOH**
Report for	Report for	Field / OCS-G #	Fluid Type	Circulating Rate	Circulating Pressure
Bobby Gwinn/James Dyer	**Tool Pusher**	**GIDDINGS**	**OBM**	**128 gpm**	**psi**

MUD PROPERTY SPECIFICATIONS							MUD VOLUME (BBL)		PUMP #1		PUMP #2		RISER BOOSTER	
Weight	PV	YP	E.S.	CaCl2	GELS	HTHP	In Pits	771 bbl	Liner Size	5.25	Liner Size	5.25	Liner Size	
9-17	**8-35**	**4-18**	**>400**	**±250K**	**<10 <25**	**<6**	In Hole	459 bbl	Stroke	12	Stroke	12	Stroke	
				5/27/20		5/26/20	Active	1135 bbl	bbl/stk	0.0763	bbl/stk	0.0763	bbl/stk	0.0000
Time Sample Taken				2:00		13:30	Storage	1745 bbl	stk/min	40	stk/min	0	stk/min	
Sample Location				suction		pit	Tot. on Location	2975 bbl	gal/min	128	gal/min	0	gal/min	0

Flowline Temperature °F				120 °F		105 °F	PHHP = 0		**CIRCULATION DATA**						n = 0.686	K = 162.785
Depth (ft)				10,250'		11,090'	Bit Depth = 9,000 '				Washout = 0%				Pump Efficiency = 95%	
Mud Weight (ppg)				10.7		10.5	Drill String Disp.	Volume to Bit	128.0 bbl		Strokes To Bit	1,677			Time To Bit	42 min
Funnel Vis (sec/qt)			@ 100 °F	58		64		Bottoms Up Vol.	236.2 bbl		BottomsUp Stks	3,095			BottomsUp Time	77 min
600 rpm				37		40	49.1 bbl	TotalCirc.Vol.	1135.2 bbl		TotalCirc.Stks	14,876			Total Circ. Time	372 min
300 rpm				23		24	**DRILLING ASSEMBLY DATA**						**SOLIDS CONTROL**			
200 rpm				18		16	Tubulars	OD (in.)	ID (in.)	Length	Top		Unit	Screens	Hours	
100 rpm				11		11	Drill Pipe	4.500	3.826	9,000'	0'		Shaker 1	170	24.0	
6 rpm				6		5	Hevi Wt				9,000'		Shaker 2	170	24.0	
3 rpm				4		4	Collars				9,000'		Shaker 3	170	24.0	
Plastic Viscosity (cp)			@ 150 °F	14		16					9,000'		Centrifuge 1			
Yield Point (lb/100 ft²)			T0 = 2	9		8	**CASING & HOLE DATA**									
Gel Strength (lb/100 ft²)			10 sec/10 min	6/9		4/6	Casing	OD (in.)	ID (in.)	Depth	Top					
Gel Strength (lb/100 ft²)			30 min	14		9	Riser	0		0'			**VOLUME ACCOUNTING (bbls)**			
HTHP Filtrate (cm/30 min)			@ 300 °F	6.0		6.0	Surface	10 1/2		2,991'	0'		Prev. Total on Location			3290.3
HTHP Cake Thickness (32nds)				2.0		2.0	Int. Csg.	7 5/8	6.875	10,273'	0'		Transferred In(+)/Out(-)			
Retort Solids Content				30%		28%							Oil Added (+)			145.6
Corrected Solids (vol%)				28.3%		26.3%							Barite Added (+)			22.3
Retort Oil Content				51%		52%	Open Hole Size		6.750	11,100'			Other Product Usage (+)			4.0
Retort Water Content				19%		20%	**ANNULAR GEOMETRY & RHEOLOGY**						Water Added (+)			
O/W Ratio				73:27		72:28	annular section	meas. depth	velocity ft/min	flow reg	ECD lb/gal		Left on Cuttings (-)			0.0
Whole Mud Chlorides (mg/L)				42,000		43,000							Lost to Formation			-270.0
Water Phase Salinity (ppm)				257,405		252,134							Non-Recoverable Vol. (-)			-217.0
Whole Mud Alkalinity, Pom				2.0		1.5	6.875x4.5	9,000'	116.3	lam	11.13		Est. Total on Location			2975.2
Excess Lime (lb/bbl)				2.6 ppb		2 ppb							Est. Losses/Gains (-)/(+)			0.0
Electrical Stability (volts)				428 v		410 v							**BIT HYDRAULICS DATA**			
Average Specific Gravity of Solids				3.65		3.77							Bit H.S.I.	Bit ΔP	Nozzles (32nds)	
Percent Low Gravity Solids				7.3%		4.9%										
ppb Low Gravity Solids				60 ppb		41 ppb							Bit Impact Force	Nozzle Velocity (ft/sec)		
Percent Barite				21%		21.4%										
ppb Barite				301 ppb		307 ppb	**BIT DATA**		Manuf./Type	ULTERRA U611S						
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	16,006 ft					1,300 psi			

Remarks/Recommendations:

OBM RECEIVED: (8,400) bbls

OBM ON SURFACE TANKS--2,516 bbls (storage + Active)

OBM Kill mud on Hand----452bbls //14.4# // $65.00/bbl

Discounted OBM on hand - 1293bbl--14.0# // $15.00/bbl

Rig Activity:

Circulate well above the fish with 10.5ppg through Choke. Continue to circulate gas out of well bore and increase density to 10.7ppg. Pump 14.7ppg Kill mud down DP for well control, start additions to active system of LCM (First response + Fiber Plug + DynaFiber C) 1sx each / hr. Continue to circulate. Blend 15ppg Kill mud, pump 50bbls down DP, and POOH up to 10,243' inside casing. Circulate Surf to Surf with 25bbls lost down hole, maintain Full returns while circulating kill mud out DP. Operations to kill well with balance plug 15ppg OBM, pumped 127bbls down DP, Chase with 1379stks (105bbls) of 10.7ppg active mud. kill pumps and pump 300stks (23bbl) 15.4ppg slug/Kill mud. Monitor well, static conditions. Start POOH to pick up 2 7/8" stinger for up comming cement plug.

Eng. 1:	Matt Meehan	Eng. 2:	Adolfo Roman	WH 1:	PLEASANTON	WH 2:	WH #2	Rig Phone:	Daily Total	Cumulative Cost
Phone:	985-351-7561	Phone:	956-821-9994	Phone:	432-685-4023	Phone:	-			
W P Y E C g G H O 1 1 1 1 1 1 1 2 0									**$8,168.97**	**$504,513.84**

INCLUDING 3RD PARTY CHARGES	**$17,659.84**	**$610,323.56**

OUTSOURCE FLUID SOLUTIONS LLC.

MATERIAL CONSUMPTION

Date	Operator	Well Name and No.	Rig Name and No.	Report No.
05/27/20	MAGNOLIA OIL & GAS	LEVI GOODRICH UNIT 2 - 2H	248	Report #26

DAILY USAGE & COST								CUMULATIVE	
Item	Unit	Unit Cost	Previous Inventory	Received	Closing Inventory	Daily Usage	Daily Cost	Cum Usage	Cum Cost
ALUMINUM TRISTEARATE	25# sk	$162.83							
SAPP (50)	50# sk	$44.50						31	$1,379.50
PHPA LIQUID (pail)	5 gal	$41.36						2	$82.72
DYNA DET	pail	$32.23						4	$128.92
DYNAFIBER C	25# sk	$53.67		88	70	18	$966.06	18	$966.06
DYNAFIBER MED	25# sk	$53.67		120	120				
FIBER PLUG	40# sk	$30.37		40	30	10	$303.70	10	$303.70
CACL2 (50)	50# sk	$16.60	252		230	22	$365.20	343	$5,693.80
LIME (50)	50# sk	$5.00	250		230	20	$100.00	320	$1,600.00
BENTONE 910 (50)	50# sk	$59.94	49		49			21	$1,258.74
BENTONE 990 (50)	50# sk	$83.59	53		50	3	$250.77	30	$2,507.70
OPTI G	50# sk	$30.59	140		140			100	$3,059.00
OPTI MUL HP	gal	$10.75	550		550			375	$4,031.25
OPTI WET	gal	$8.34	515		515			300	$2,502.00
NEW PHALT	50# sk	$38.72	90		90			70	$2,710.40
NEWCARB 200	50# sk	$5.25	72		72			98	$514.50
MAGMAFIBER F (25)	25# sk	$28.05	62		48	14	$392.70	146	$4,095.30
OIL SORB (25)	25# sk	$4.75	40		40				
PHPA LIQUID (pail)	5 gal	$41.36	90		88	2	$82.72	9	$372.24
GEL (100)	100# sk		70		70				
BENTONE 38 (50)	50# sk	$163.94	25		22	3	$491.82	18	$2,950.92
CYBERSEAL	25# sk	$21.47	240		240			8	$171.76
Evo-Lube	gal	$9.31	975		975			125	$1,163.75
CAL CARB COARSE (50)	50# sk	$5.37		120	120				
MAGMAFIBER R (30)	30# sk	$28.05		80	80				
NEW-WATE (SACK BARITE)	100# sk	$11.50	160		160				
BARITE BULK (100)	100# sk	$7.00	1521		1200	321	$2,247.00	3166	$22,162.00
OPTI DRILL (OBM)	bbl	$65.00	890		890			5526	$359,190.00
Magnolia Owned OBM	bbl			712	712			130	
Discounted High LGS OBM	bbl	$15.00	914		914			1716	$25,740.00
ENGINEERING (24 HR)	each	$925.00				2	$1,850.00	48	$44,400.00
ENGINEERING (DIEM)	bbl	$30.00				2	$60.00	48	$1,440.00
ENGINEERING (MILES)	each	$1.00						1049	$1,049.00
TRUCKING (cwt)	each	$2.50						4799	$11,998.58
TRUCKING (min)	each	$795.00				1	$795.00	2	$1,590.00
PALLETS (ea)	each	$12.00				11	$132.00	62	$744.00
SHRINK WRAP (ea)	each	$12.00				11	$132.00	59	$708.00
		Daily Sub-Total $8,168.97			**Cumulative Total $504,513.84**			**$504,513.84**	

THIRD PARTY COST SHEET

Date	Operator	Well Name and No.	Rig Name and No.	Report No.
05/27/20	MAGNOLIA OIL & GAS	LEVI GOODRICH UNIT 2 - 2H	248	Report #26

DAILY USAGE & COST								CUMULATIVE	
Item	Unit	Unit Cost	Previous Inventory	Received	Closing Inventory	Daily Usage	Daily Cost	Cum Usage	Cum Cost
Diesel 4/25/20	gal	$0.91							
Diesel 5/6/20	gal	$0.90						5040	$4,536.00
Diesel 5/8/20	gal	$0.93						7302	$6,790.86
Diesel 5/9/20	gal	$0.96						7006	$6,725.76
Diesel 5/10/20	gal	$0.97						7300	$7,081.00
Diesel 5/14/20	gal	$0.98						7400	$7,252.00
Diesel 5/15/20	gal	$0.97						6750	$6,547.50
Diesel 5/16/20	gal	$1.03						7100	$7,313.00
Diesel 5/17/20	gal	$1.03						7634	$7,863.02
Diesel 5/17/20 Load #2	gal	$1.03						7402	$7,624.06
Diesel 5/19/ 20	gal	$1.06						6221	$6,594.26
Diesel 5/19/20	gal	$1.06						7301	$7,739.06
TurboChem First Response	each	$41.75	350		285	65	$2,713.75	215	$8,976.25
TurboChem Pallets	each	$20.00	8		8			2	$40.00
TurboChem Shrink Wrap	each	$20.00	8		8			2	$40.00
Diesel 5/22/20	gal	$1.11						5545	$6,154.95
DIESEL 5/25/20	gal	$1.12	480			480	$537.60	7404	$8,292.48
DIESEL 05/26/20	gal	$1.12		7201	1630	5571	$6,239.52	5571	$6,239.52
DIESEL 05/26/20	gal	$1.13		7202	7202				
						Daily Sub-Total	$9,490.87		$105,809.72

Cumulative Total AES & 3rd Party $610,323.56

5/27/2020 **Report 26 pm**

110 Old Market St.
St Martinville, LA 70582

TEL: (337) 394-1078

3.1° **1,199' TVD**

Operator	Contractor	County / Parish / Block	Engineer Start Date	24 hr ftg.	Drilled Depth
MAGNOLIA OIL & GAS	**PATTERSON**	**WASHINGTON**	**04/22/20**		**11,100 ft**
Well Name and No.	Rig Name and No.	State	Spud Date	Current ROP	Activity
LEVI GOODRICH UNIT 2 - 2H	**248**	**TEXAS**	**04/26/20**		**PU CMT ASSEMBLY**
Report for	Report for	Field / OSC-G #	Fluid Type	Circulating Rate	Circulating Pressure
Bobby Gwinn/James Dyer	**Tool Pusher**	**GIDDINGS**	**OBM**		

MUD PROPERTY SPECIFICATIONS						
Weight	PV	YP	E.S.	CaCl2	GELS	HTHP
9-17	**8-35**	**4-18**	**>400**	**±250K**	**<10 <25**	**<6**

MUD PROPERTIES				
Time Sample Taken		2:00		14:00
Sample Location		suction		pit
Flowline Temperature °F		120 °F		
Depth (ft)		10,250'		11,090'
Mud Weight (ppg)		10.7		10.7
Funnel Vis (sec/qt)	@ 100 °F	58		59
600 rpm		37		39
300 rpm		23		24
200 rpm		18		19
100 rpm		11		13
6 rpm		6		6
3 rpm		4		5
Plastic Viscosity (cp)	@ 150 °F	14		15
Yield Point (lb/100 ft²)	T0 = 2	9		9
Gel Strength (lb/100 ft²)	10 sec / 10 min	6/9		6/9
Gel Strength (lb/100 ft2)	30 min	14		12
HTHP Filtrate (cm/30 min)	@ 300 °F	6.0		6.0
HTHP Cake Thickness (32nds)		2.0		2.0
Retort Solids Content		30%		30%
Corrected Solids (vol%)		28.3%		28.3%
Retort Oil Content		51%		51%
Retort Water Content		19%		19%
O/W Ratio		73:27		73:27
Whole Mud Chlorides (mg/L)		42,000		42,500
Water Phase Salinity (ppm)		257,405		259,674
Whole Mud Alkalinity, Pom		2.0		1.5
Excess Lime (lb/bbl)		2.6 ppb		2 ppb
Electrical Stability (volts)		428 v		417 v
Average Specific Gravity of Solids		3.65		3.63
Percent Low Gravity Solids		7.3%		7.6%
ppb Low Gravity Solids		60 ppb		63 ppb
Percent Barite		21%		20.7%
ppb Barite		301 ppb		297 ppb
Estimated Total LCM in System				
Sample Taken By		A. Roman		M Washburn

MUD VOLUME (BBL)		PUMP #1		PUMP #2		RISER BOOSTER
In Pits	771 bbl	Liner Size	5.25	Liner Size	5.25	Liner Size
In Hole	505 bbl	Stroke	12	Stroke	12	Stroke
Active	822 bbl	bbl/stk	0.0763	bbl/stk	0.0763	bbl/stk
Storage	1745 bbl	stk/min		stk/min		stk/min
Tot. on Location	3021 bbl	gal/min		gal/min		gal/min

Mud Wt. = 10.7 PV=14 YP=9 **CIRCULATION DATA** n = 0.686 K = 162.8

Bit Depth = 1,200 ' | Washout = | Pump Efficiency = 95%

Drill String Disp.	Volume to Bit	6.7 bbl	Strokes To Bit	Time To Bit
	Bottoms Up Vol.	44.7 bbl	BottomsUp Stks	BottomsUp Time
3.6 bbl	TotalCirc.Vol.	822.5 bbl	TotalCirc.Stks	Total Circ. Time

DRILLING ASSEMBLY DATA

Tubulars	OD (in.)	ID (in.)	Length	Top
Drill Pipe	4.500	3.826	62'	
Drill Pipe	2.875	2.300	1,138'	62'
Collars				1,200'
				1,200'

CASING & HOLE DATA

Casing	OD (in.)	ID (in.)	Depth	Top
Riser				
Surface	10 1/2		2,991'	
Int. Csg.	7 5/8	6.875	10,273'	
Open Hole Size	6.750		11,100'	

ANNULAR GEOMETRY & RHEOLOGY

annular section	depth	velocity ft/min	flow reg	ECD lb/gal
6.875x4.5	62'		lam	10.74
6.875x2.875	1,200'		lam	10.74

BIT DATA Manuf./Type ULTERRA U611S

Size	Depth In	Hours	Footage	ROP ft/hr
6 3/4	16,006 ft			

SOLIDS CONTROL

Unit	Screens	Hours
Shaker 1	170	
Shaker 2	170	
Shaker 3	170	
Centrifuge 1		

VOLUME ACCOUNTING (bbls)

Prev. Total on Location	2975.2
Transferred In(+)/Out(-)	
Oil Added (+)	
Barite Added (+)	
Other Product Usage (+)	
Water Added (+)	
Left on Cuttings (-)	
Lost to Formation	
Non-Recoverable Vol. (-)	
Est. Total on Location	2975.2
Est. Losses/Gains (-)/(+)	45.4

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
1,300 psi	#DIV/0!

Afternoon Remarks/Recommendations:

Afternoon Rig Activity:

Pull out of hole under stable well conditions, lay down 6 stands of HWDP, jars and overshot. Make up cement assembly including open ended pup joint and 1138' of 2-7/8" drillpipe. Forward plans are to stage in hole circulating out heavy mud caps and set cement plug in open hole for subsequent sidetrack. Currently picking up 2 -7/8" stinger, trip depth is 1200' well is stable.

05/28/20 **Report #27**

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

OUTSOURCE FLUID SOLUTIONS LLC.

27.6° **10,214' TVD**

Operator	Contractor	County / Parish / Block	Engineer Start Date	24 hr ftg.	Drilled Depth
MAGNOLIA OIL & GAS	**PATTERSON**	**WASHINGTON**	**04/22/20**	**0 ft**	**11,100 ft**
Well Name and No.	Rig Name and No.	State	Spud Date	Current ROP	Activity
LEVI GOODRICH UNIT 2 - 2H	**248**	**TEXAS**	**04/26/20**	**0 ft/hr**	**Stage in Hole**
Report for	Report for	Field / OCS-G #	Fluid Type	Circulating Rate	Circulating Pressure
Bobby Gwinn/James Dyer	**Tool Pusher**	**GIDDINGS**	**OBM**	**160 gpm**	**400 psi**

MUD PROPERTY SPECIFICATIONS							MUD VOLUME (BBL)		PUMP #1		PUMP #2		RISER BOOSTER	
Weight	PV	YP	E.S.	CaCl2	GELS	HTHP	In Pits	764 bbl	Liner Size	5.25	Liner Size	5.25	Liner Size	
9-17	**8-35**	**4-18**	**>400**	**±250K**	**<10 <25**	**<6**	In Hole	455 bbl	Stroke	12	Stroke	12	Stroke	
				5/28/20		5/27/20	Active	1183 bbl	bbl/stk	0.0763	bbl/stk	0.0763	bbl/stk	0.0000
Time Sample Taken				2:00		14:00	Storage	1678 bbl	stk/min	50	stk/min	0	stk/min	
Sample Location				suction		pit	Tot. on Location	2897 bbl	gal/min	160	gal/min	0	gal/min	0
Flowline Temperature °F				110 °F			PHHP = 37		CIRCULATION DATA				n = 0.678	K = 185.783
Depth (ft)				10,280'		11,090'	Bit Depth = 10,286 '		Washout = 0%		Pump Efficiency = 95%			
Mud Weight (ppg)				11.0		10.7	Drill String Disp.	Volume to Bit 135.9 bbl	Strokes To Bit 1,781		Time To Bit 36 min			
Funnel Vis (sec/qt)		@ 100 °F		50		59		Bottoms Up Vol. 283.2 bbl	BottomsUp Stks 3,711		BottomsUp Time 74 min			
600 rpm				40		39	53.2 bbl	TotalCirc.Vol. 1183.1 bbl	TotalCirc.Stks 15,504		Total Circ. Time 310 min			
300 rpm				25		24	DRILLING ASSEMBLY DATA						SOLIDS CONTROL	
200 rpm				20		19	Tubulars	OD (in.)	ID (in.)	Length	Top		Unit	Screens Hours
100 rpm				14		13	Drill Pipe	4.500	3.826	9,148'	0'		Shaker 1	170 12.0
6 rpm				8		6	Drill Pipe	2.875	2.300	1,138'	9,148'		Shaker 2	170 12.0
3 rpm				6		5					10,286'		Shaker 3	170 12.0
Plastic Viscosity (cp)		@ 150 °F		15		15					10,286'		Centrifuge 1	2.0
Yield Point (lb/100 ft²)		T0 = 4		10		9	CASING & HOLE DATA							
Gel Strength (lb/100 ft²)		10 sec/10 min		7/12		6/9	Casing	OD (in.)	ID (in.)	Depth	Top			
Gel Strength (lb/100 ft^2)		30 min		16		12	Riser	0		0'			VOLUME ACCOUNTING (bbls)	
HTHP Filtrate (cm/30 min)		@ 300 °F		6.0		6.0	Surface	10 1/2		2,991'	0'		Prev. Total on Location	2975.2
HTHP Cake Thickness (32nds)				2.0		2.0	Int. Csg.	7 5/8	6.875	10,273'	0'		Transferred In(+)/Out(-)	
Retort Solids Content				30%		30%							Oil Added (+)	15.0
Corrected Solids (vol%)				28.3%		28.3%							Barite Added (+)	13.9
Retort Oil Content				50%		51%	Open Hole Size	6.750	11,100'				Other Product Usage (+)	0.0
Retort Water Content				20%		19%	ANNULAR GEOMETRY & RHEOLOGY						Water Added (+)	
O/W Ratio				71:29		73:27	annular section	meas. depth	velocity ft/min	flow reg	ECD lb/gal		Left on Cuttings (-)	0.0
Whole Mud Chlorides (mg/L)				43,000		42,500							Lost to Formation	
Water Phase Salinity (ppm)				252,134		259,674							Non-Recoverable Vol. (-)	
Whole Mud Alkalinity, Pom				1.5		1.5	6.875x4.5	9,148'	145.4	lam	11.45		Est. Total on Location	3004.1
Excess Lime (lb/bbl)				2 ppb		2 ppb	6.875x2.875	10,273'	100.7	lam	11.43		Est. Losses/Gains (-)/(+)	-107.0
Electrical Stability (volts)				440 v		417 v	6.75x2.875	10,286'	105.3	lam	11.43		BIT HYDRAULICS DATA	
Average Specific Gravity of Solids				3.72		3.63							Bit H.S.I. / Bit ΔP / Nozzles (32nds)	
Percent Low Gravity Solids				6.1%		7.6%								
ppb Low Gravity Solids				50 ppb		63 ppb							Bit Impact Force / Nozzle Velocity (ft/sec)	
Percent Barite				22.2%		20.7%								
ppb Barite				318 ppb		297 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				A. Roman	0	M Washburn	6 3/4							

Remarks/Recommendations:

OBM RECEIVED: (8,400) bbls

OBM ON SURFACE TANKS--2,442 bbls (storage + Active)

OBM Kill mud on Hand----385bbls //14.4# // $65.00/bbl

Discounted OBM on hand - 1293bbl--14.0# // $15.00/bbl

Rig Activity:

POOH and lay down fishing assembly. Monitor well while rig up for 2 7/8" stinger pick up. Pick up 2 7/8" tubing 1138' and Start staging in the hole, brake circulation @ 5840', 8678' and at the shoe 10,286'. At this stage Circulate complet cycle. Gas out of the well continue circulating gradually increaseing pump rate to achieve 4BPM (Cementing Rate) through choke lines, Maintain MW @ 11ppg. At time of report Circulating at 50stk/min MW in 11ppg out 10.7ppg. Casing press. 0, Stand pipe pressure 380psi.

Eng. 1:	Eng. 2:	WH 1:	WH 2:	Rig Phone:	Daily Total	Cumulative Cost
Matt Meehan	Adolfo Roman	PLEASANTON	WH #2	
Phone: 985-351-7561	Phone: 956-821-9994	Phone: 432-685-4023	Phone: -		**$3,310.00**	**$507,823.84**

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

INCLUDING 3RD PARTY CHARGES	**$4,015.60**	**$614,339.16**

OUTSOURCE FLUID SOLUTIONS LLC.

MATERIAL CONSUMPTION

Date	Operator	Well Name and No.	Rig Name and No.	Report No.
05/28/20	MAGNOLIA OIL & GAS	LEVI GOODRICH UNIT 2 - 2H	248	Report #27

DAILY USAGE & COST								CUMULATIVE	
Item	Unit	Unit Cost	Previous Inventory	Received	Closing Inventory	Daily Usage	Daily Cost	Cum Usage	Cum Cost
ALUMINUM TRISTEARATE	25# sk	$162.83							
SAPP (50)	50# sk	$44.50						31	$1,379.50
PHPA LIQUID (pail)	5 gal	$41.36						2	$82.72
DYNA DET	pail	$32.23						4	$128.92
DYNAFIBER C	25# sk	$53.67	70		70			18	$966.06
DYNAFIBER MED	25# sk	$53.67	120		120				
FIBER PLUG	40# sk	$30.37	30		30			10	$303.70
CACL2 (50)	50# sk	$16.60	230		230			343	$5,693.80
LIME (50)	50# sk	$5.00	230		230			320	$1,600.00
BENTONE 910 (50)	50# sk	$59.94	49		49			21	$1,258.74
BENTONE 990 (50)	50# sk	$83.59	50		50			30	$2,507.70
OPTI G	50# sk	$30.59	140		140			100	$3,059.00
OPTI MUL HP	gal	$10.75	550		550			375	$4,031.25
OPTI WET	gal	$8.34	515		515			300	$2,502.00
NEW PHALT	50# sk	$38.72	90		90			70	$2,710.40
NEWCARB 200	50# sk	$5.25	72		72			98	$514.50
MAGMAFIBER F (25)	25# sk	$28.05	48		48			146	$4,095.30
OIL SORB (25)	25# sk	$4.75	40		40				
PHPA LIQUID (pail)	5 gal	$41.36	88		88			9	$372.24
GEL (100)	100# sk		70		70				
BENTONE 38 (50)	50# sk	$163.94	22		22			18	$2,950.92
CYBERSEAL	25# sk	$21.47	240		240			8	$171.76
Evo-Lube	gal	$9.31	975		975			125	$1,163.75
CAL CARB COARSE (50)	50# sk	$5.37	120		120				
MAGMAFIBER R (30)	30# sk	$28.05	80		80				
NEW-WATE (SACK BARITE)	100# sk	$11.50	160		160				
BARITE BULK (100)	100# sk	$7.00	1200		1000	200	$1,400.00	3366	$23,562.00
OPTI DRILL (OBM)	bbl	$65.00	890		890			5526	$359,190.00
Magnolia Owned OBM	bbl		712		638	74		204	
Discounted High LGS OBM	bbl	$15.00	914		914			1716	$25,740.00
ENGINEERING (24 HR)	each	$925.00				2	$1,850.00	50	$46,250.00
ENGINEERING (DIEM)	bbl	$30.00				2	$60.00	50	$1,500.00
ENGINEERING (MILES)	each	$1.00						1049	$1,049.00
TRUCKING (cwt)	each	$2.50						4799	$11,998.58
TRUCKING (min)	each	$795.00						2	$1,590.00
PALLETS (ea)	each	$12.00						62	$744.00
SHRINK WRAP (ea)	each	$12.00						59	$708.00

Daily Sub-Total $3,310.00	Cumulative Total $507,823.84	$507,823.84

THIRD PARTY COST SHEET

Date	Operator	Well Name and No.	Rig Name and No.	Report No.
05/28/20	MAGNOLIA OIL & GAS	LEVI GOODRICH UNIT 2 - 2H	248	Report #27

DAILY USAGE & COST								CUMULATIVE	
Item	Unit	Unit Cost	Previous Inventory	Received	Closing Inventory	Daily Usage	Daily Cost	Cum Usage	Cum Cost
Diesel 4/25/20	gal	$0.91							
Diesel 5/6/20	gal	$0.90						5040	$4,536.00
Diesel 5/8/20	gal	$0.93						7302	$6,790.86
Diesel 5/9/20	gal	$0.96						7006	$6,725.76
Diesel 5/10/20	gal	$0.97						7300	$7,081.00
Diesel 5/14/20	gal	$0.98						7400	$7,252.00
Diesel 5/15/20	gal	$0.97						6750	$6,547.50
Diesel 5/16/20	gal	$1.03						7100	$7,313.00
Diesel 5/17/20	gal	$1.03						7634	$7,863.02
Diesel 5/17/20 Load #2	gal	$1.03						7402	$7,624.06
Diesel 5/19/ 20	gal	$1.06						6221	$6,594.26
Diesel 5/19/20	gal	$1.06						7301	$7,739.06
TurboChem First Response	each	$41.75	285		285			215	$8,976.25
TurboChem Pallets	each	$20.00	8		8			2	$40.00
TurboChem Shrink Wrap	each	$20.00	8		8			2	$40.00
Diesel 5/22/20	gal	$1.11						5545	$6,154.95
DIESEL 5/25/20	gal	$1.12						7404	$8,292.48
DIESEL 05/26/20	gal	$1.12	1630		1000	630	$705.60	6201	$6,945.12
DIESEL 05/26/20	gal	$1.13	7202		7202				

Daily Sub-Total $705.60	$106,515.32

Cumulative Total AES & 3rd Party $614,339.16

5/28/2020 **Report 27 pm**

110 Old Market St.
St Martinville, LA 70582

TEL: (337) 394-1078

66.1° **10,527' TVD**

Operator	Contractor	County / Parish / Block	Engineer Start Date	24 hr ftg.	Drilled Depth
MAGNOLIA OIL & GAS	**PATTERSON**	**WASHINGTON**	**04/22/20**		**11,100 ft**
Well Name and No.	Rig Name and No.	State	Spud Date	Current ROP	Activity
LEVI GOODRICH UNIT 2 - 2H	**248**	**TEXAS**	**04/26/20**		**CIRCULATE**
Report for	Report for	Field / OSC-G #	Fluid Type	Circulating Rate	Circulating Pressure
Bobby Gwinn/James Dyer	**Tool Pusher**	**GIDDINGS**	**OBM**		**400 psi**

MUD PROPERTY SPECIFICATIONS

Weight	PV	YP	E.S.	CaCl2	GELS	HTHP
9-17	**8-35**	**4-18**	**>400**	**±250K**	**<10 <25**	**<6**

MUD PROPERTIES

Time Sample Taken	2:00		12:30
Sample Location	suction		pit
Flowline Temperature °F	110 °F		
Depth (ft)	10,280'		11,090'
Mud Weight (ppg)	11.0		11.0
Funnel Vis (sec/qt) @ 110 °F	50		52
600 rpm	40		41
300 rpm	25		25
200 rpm	20		21
100 rpm	14		15
6 rpm	8		7
3 rpm	6		6
Plastic Viscosity (cp) @ 150 °F	15		16
Yield Point (lb/100 ft²) T0 = 4	10		9
Gel Strength (lb/100 ft²) 10 sec / 10 min	7/12		6/8
Gel Strength (lb/100 ft2) 30 min	16		13
HTHP Filtrate (cm/30 min) @ 300 °F	6.0		6.0
HTHP Cake Thickness (32nds)	2.0		2.0
Retort Solids Content	30%		30%
Corrected Solids (vol%)	28.3%		28.3%
Retort Oil Content	50%		50%
Retort Water Content	20%		20%
O/W Ratio	71:29		71:29
Whole Mud Chlorides (mg/L)	43,000		43,500
Water Phase Salinity (ppm)	252,134		254,320
Whole Mud Alkalinity, Pom	1.5		1.5
Excess Lime (lb/bbl)	2 ppb		2 ppb
Electrical Stability (volts)	440 v		430 v
Average Specific Gravity of Solids	3.72		3.72
Percent Low Gravity Solids	6.1%		6.2%
ppb Low Gravity Solids	50 ppb		51 ppb
Percent Barite	22.2%		22.1%
ppb Barite	318 ppb		317 ppb
Estimated Total LCM in System			
Sample Taken By	A. Roman		M Washburn

MUD VOLUME (BBL)

In Pits	764 bbl
In Hole	453 bbl
Active	1202 bbl
Storage	1678 bbl
Tot. on Location	2895 bbl

PUMP #1

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

PUMP #2

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

RISER BOOSTER

Liner Size
Stroke
bbl/stk
stk/min
gal/min

Mud Wt. = 11.0 PV=15 YP=10 **CIRCULATION DATA** n = 0.678 K = 185.8

Bit Depth = 10,766 ' | Washout = | Pump Efficiency = 95%

Drill String Disp.	Volume to Bit	Strokes To Bit	Time To Bit
55.8 bbl	142.8 bbl		
	Bottoms Up Vol. 295.0 bbl	BottomsUp Stks	BottomsUp Time
	TotalCirc.Vol. 1201.7 bbl	TotalCirc.Stks	Total Circ. Time

DRILLING ASSEMBLY DATA

Tubulars	OD (in.)	ID (in.)	Length	Top
Drill Pipe	4.500	3.826	9,628'	
Drill Pipe	2.875	2.300	1,138'	9,628'
				10,766'
				10,766'

CASING & HOLE DATA

Casing	OD (in.)	ID (in.)	Depth	Top
Riser				
Surface	10 1/2		2,991'	
Int. Csg.	7 5/8	6.875	10,273'	
Open Hole Size	6.750		11,100'	

ANNULAR GEOMETRY & RHEOLOGY

annular section	depth	velocity ft/min	flow reg	ECD lb/gal
6.875x4.5	9,628'		lam	11.00
6.875x2.875	10,273'		lam	11.00
6.75x2.875	10,766'		lam	11.00

BIT DATA Manuf./Type

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

SOLIDS CONTROL

Unit	Screens	Hours
Shaker 1	170	12.0
Shaker 2	170	12.0
Shaker 3	170	12.0
Centrifuge 1		2.0

VOLUME ACCOUNTING (bbls)

Prev. Total on Location	2975.2
Transferred In(+)/Out(-)	
Oil Added (+)	15.0
Barite Added (+)	13.9
Other Product Usage (+)	
Water Added (+)	
Left on Cuttings (-)	
Lost to Formation	-74.0
Non-Recoverable Vol. (-)	-33.0
Est. Total on Location	2897.1
Est. Losses/Gains (-)/(+)	-2.6

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:

Afternoon Rig Activity:

Stage in hole to 10792, circulate out gas thru choke at 10792' and maintain 11.0 mud wt. Rig up cementers attend pre cement safety and procedures meeting. Pump 50 bbls 15.5 kill mud down drill pipe, continue to have drillpipe pressure, backpressure DP float has failed, pull 21 stands to install another float trip back in to 10766, currently circulating bottoms up before cementing.

05/29/20 **Report #28**

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

OUTSOURCE FLUID SOLUTIONS LLC.

4.6° **6,757' TVD**

Operator	Contractor	County / Parish / Block	Engineer Start Date	24 hr ftg.	Drilled Depth
MAGNOLIA OIL & GAS	**PATTERSON**	**WASHINGTON**	**04/22/20**	**0 ft**	**11,100 ft**
Well Name and No.	Rig Name and No.	State	Spud Date	Current ROP	Activity
LEVI GOODRICH UNIT 2 - 2H	**248**	**TEXAS**	**04/26/20**	**0 ft/hr**	**Lay Down DP**
Report for	Report for	Field / OCS-G #	Fluid Type	Circulating Rate	Circulating Pressure
Bobby Gwinn/James Dyer	**Tool Pusher**	**GIDDINGS**	**OBM**	**192 gpm**	**psi**

MUD PROPERTY SPECIFICATIONS							MUD VOLUME (BBL)		PUMP #1		PUMP #2		RISER BOOSTER	
Weight	PV	YP	E.S.	CaCl2	GELS	HTHP	In Pits	831 bbl	Liner Size	5.25	Liner Size	5.25	Liner Size	
9-17	**8-35**	**4-18**	**>400**	**±255K**	**<10 <25**	**<6**	In Hole	474 bbl	Stroke	12	Stroke	12	Stroke	
				5/29/20		5/28/20	Active	1109 bbl	bbl/stk	0.0763	bbl/stk	0.0763	bbl/stk	0.0000
Time Sample Taken				2:00		12:30	Storage	1607 bbl	stk/min	60	stk/min	0	stk/min	
Sample Location				suction		pit	Tot. on Location	2912 bbl	gal/min	192	gal/min	0	gal/min	0
Flowline Temperature °F							PHHP = 0		**CIRCULATION DATA**				n = 0.788	K = 82.113
Depth (ft)				8,891'		11,090'	Bit Depth = 6,800 '		Washout = 0%				Pump Efficiency = 95%	
Mud Weight (ppg)				11.1		11.0	Drill String Disp.	Volume to Bit 86.4 bbl		Strokes To Bit 1,132			Time To Bit 19 min	
Funnel Vis (sec/qt)		@ 110 °F		51		52		Bottoms Up Vol. 191.7 bbl		BottomsUp Stks 2,512			BottomsUp Time 42 min	
600 rpm				38		41	34.2 bbl	TotalCirc.Vol. 1109.1 bbl		TotalCirc.Stks 14,534			Total Circ. Time 242 min	
300 rpm				22		25	**DRILLING ASSEMBLY DATA**						**SOLIDS CONTROL**	
200 rpm				18		21	Tubulars	OD (in.)	ID (in.)	Length	Top		Unit	Screens	Hours
100 rpm				12		15	Drill Pipe	4.500	3.826	5,662'	0'		Shaker 1	170	14.0
6 rpm				6		7	Drill Pipe	2.875	2.300	1,138'	5,662'		Shaker 2	170	14.0
3 rpm				5		6					6,800'		Shaker 3	170	14.0
Plastic Viscosity (cp)		@ 150 °F		16		16					6,800'		Centrifuge 1		2.0
Yield Point (lb/100 ft²)		T0 = 4		6		9	**CASING & HOLE DATA**								
Gel Strength (lb/100 ft²)		10 sec/10 min		6/10		6/8	Casing	OD (in.)	ID (in.)	Depth	Top				
Gel Strength (lb/100 ft²)		30 min		14		13	Riser	0		0'			**VOLUME ACCOUNTING (bbls)**		
HTHP Filtrate (cm/30 min)		@ 300 °F		6.0		6.0	Surface	10 1/2		2,991'	0'		Prev. Total on Location		2894.5
HTHP Cake Thickness (32nds)				2.0		2.0	Int. Csg.	7 5/8	6.875	10,273'	0'		Transferred In(+)/Out(-)		
Retort Solids Content				31%		30%							Oil Added (+)		26.1
Corrected Solids (vol%)				29.4%		28.3%							Barite Added (+)		7.0
Retort Oil Content				50%		50%	Open Hole Size	6.750	11,100'				Other Product Usage (+)		1.8
Retort Water Content				19%		20%	**ANNULAR GEOMETRY & RHEOLOGY**						Water Added (+)		
O/W Ratio				72:28		71:29	annular section	meas. depth	velocity ft/min	flow reg	ECD lb/gal		Left on Cuttings (-)		0.0
Whole Mud Chlorides (mg/L)				41,000		43,500							Gain F/Cement		
Water Phase Salinity (ppm)				252,826		254,320							Non-Recoverable Vol. (-)		-17.3
Whole Mud Alkalinity, Pom				1.5		1.5	6.875x4.5	5,662'	174.5	lam	11.47		Est. Total on Location		2912.1
Excess Lime (lb/bbl)				2 ppb		2 ppb	6.875x2.875	6,800'	120.9	lam	11.44		Est. Losses/Gains (-)/(+)		0.0
Electrical Stability (volts)				445 v		430 v							**BIT HYDRAULICS DATA**		
Average Specific Gravity of Solids				3.69		3.72							Bit H.S.I.	Bit ΔP	Nozzles (32nds)
Percent Low Gravity Solids				6.9%		6.2%									
ppb Low Gravity Solids				57 ppb		51 ppb							Bit Impact Force	Nozzle Velocity (ft/sec)	
Percent Barite				22.4%		22.1%									
ppb Barite				322 ppb		317 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				A. Roman	0	M Washburn	6 3/4								

Remarks/Recommendations:

OBM RECEIVED: (8,400) bbls

OBM ON SURFACE TANKS--2,513 bbls (storage + Active)

OBM Kill mud on Hand----314bbls //14.4# // $65.00/bbl

Discounted OBM on hand - 1293bbl--14.0# // $15.00/bbl

Rig Activity:

Finish TIH to 10792', circulate through choke and maintain MW at 11ppg. Pump 15.5ppg Kil mud on DP. Continue to show backpressure on DP. POOH 20 stands and set Inside Gray Valve on Drill string. TIH back to 10792' and resume Circulation 1 BU. Monitor well for static conditions, prior to Cement. Start Cement plug pumping and Displacement. Pump (36bbl Spacer / 37bbls Cement / 14bbls Spacer) Displace with 110bbls of OBM 11.0ppg from active system. POOH up to 8882' and circulate complete cycle through Choke. @ BU returns with spacer, blinding shakers, 6+bbls lost over the shakers. Shut well in after Sur/Surf, and WOC for 6hrs. Open well up and monitor on trip tanks. Well Static. Start Lay down DP. At time of report passing 6800'.

Eng. 1:	Matt Meehan	Eng. 2:	Adolfo Roman	WH 1:	MIDLAND	WH 2:	WH #2	Rig Phone:	Daily Total	Cumulative Cost
Phone:	985-351-7561	Phone:	956-821-9994	Phone:	432-685-4023	Phone:	-			
W P Y E C g G H O 1 1 1 1 1 1 1 2 0		Any opinion and or recommendation, expressed orally or written herein, has been prepared carefully and may be used if the user so elects, however, no representation is made as to the validity of this information, and this is a recommendation only.							**$3,327.54**	**$511,151.38**
								INCLUDING 3RD PARTY CHARGES	**$4,558.28**	**$618,897.44**

OUTSOURCE FLUID SOLUTIONS LLC.

MATERIAL CONSUMPTION

Date	Operator	Well Name and No.	Rig Name and No.	Report No.
05/29/20	MAGNOLIA OIL & GAS	LEVI GOODRICH UNIT 2 - 2H	248	Report #28

DAILY USAGE & COST								CUMULATIVE	
Item	Unit	Unit Cost	Previous Inventory	Received	Closing Inventory	Daily Usage	Daily Cost	Cum Usage	Cum Cost
ALUMINUM TRISTEARATE	25# sk	$162.83							
SAPP (50)	50# sk	$44.50						31	$1,379.50
PHPA LIQUID (pail)	5 gal	$41.36						2	$82.72
DYNA DET	pail	$32.23						4	$128.92
DYNAFIBER C	25# sk	$53.67	70		70			18	$966.06
DYNAFIBER MED	25# sk	$53.67	120		120				
FIBER PLUG	40# sk	$30.37	30		30			10	$303.70
CACL2 (50)	50# sk	$16.60	230		220	10	$166.00	353	$5,859.80
LIME (50)	50# sk	$5.00	230		220	10	$50.00	330	$1,650.00
BENTONE 910 (50)	50# sk	$59.94	49		49			21	$1,258.74
BENTONE 990 (50)	50# sk	$83.59	50		44	6	$501.54	36	$3,009.24
OPTI G	50# sk	$30.59	140		140			100	$3,059.00
OPTI MUL HP	gal	$10.75	550		550			375	$4,031.25
OPTI WET	gal	$8.34	515		515			300	$2,502.00
NEW PHALT	50# sk	$38.72	90		90			70	$2,710.40
NEWCARB 200	50# sk	$5.25	72		72			98	$514.50
MAGMAFIBER F (25)	25# sk	$28.05	48		48			146	$4,095.30
OIL SORB (25)	25# sk	$4.75	40		40				
PHPA LIQUID (pail)	5 gal	$41.36	88		88			9	$372.24
GEL (100)	100# sk		70		70				
BENTONE 38 (50)	50# sk	$163.94	22		22			18	$2,950.92
CYBERSEAL	25# sk	$21.47	240		240			8	$171.76
Evo-Lube	gal	$9.31	975		975			125	$1,163.75
CAL CARB COARSE (50)	50# sk	$5.37	120		120				
MAGMAFIBER R (30)	30# sk	$28.05	80		80				
NEW-WATE (SACK BARITE)	100# sk	$11.50	160		160				
BARITE BULK (100)	100# sk	$7.00	1000		900	100	$700.00	3466	$24,262.00
OPTI DRILL (OBM)	bbl	$65.00	890		890			5526	$359,190.00
Magnolia Owned OBM	bbl		638	18	656			204	
Discounted High LGS OBM	bbl	$15.00	914		914			1716	$25,740.00
ENGINEERING (24 HR)	each	$925.00				2	$1,850.00	52	$48,100.00
ENGINEERING (DIEM)	bbl	$30.00				2	$60.00	52	$1,560.00
ENGINEERING (MILES)	each	$1.00						1049	$1,049.00
TRUCKING (cwt)	each	$2.50						4799	$11,998.58
TRUCKING (min)	each	$795.00						2	$1,590.00
PALLETS (ea)	each	$12.00						62	$744.00
SHRINK WRAP (ea)	each	$12.00						59	$708.00
		Daily Sub-Total $3,327.54			**Cumulative Total $511,151.38**			**$511,151.38**	

THIRD PARTY COST SHEET

Date	Operator	Well Name and No.	Rig Name and No.	Report No.
05/29/20	MAGNOLIA OIL & GAS	LEVI GOODRICH UNIT 2 - 2H	248	Report #28

DAILY USAGE & COST								CUMULATIVE	
Item	Unit	Unit Cost	Previous Inventory	Received	Closing Inventory	Daily Usage	Daily Cost	Cum Usage	Cum Cost
Diesel 4/25/20	gal	$0.91							
Diesel 5/6/20	gal	$0.90						5040	$4,536.00
Diesel 5/8/20	gal	$0.93						7302	$6,790.86
Diesel 5/9/20	gal	$0.96						7006	$6,725.76
Diesel 5/10/20	gal	$0.97						7300	$7,081.00
Diesel 5/14/20	gal	$0.98						7400	$7,252.00
Diesel 5/15/20	gal	$0.97						6750	$6,547.50
Diesel 5/16/20	gal	$1.03						7100	$7,313.00
Diesel 5/17/20	gal	$1.03						7634	$7,863.02
Diesel 5/17/20 Load #2	gal	$1.03						7402	$7,624.06
Diesel 5/19/ 20	gal	$1.06						6221	$6,594.26
Diesel 5/19/20	gal	$1.06						7301	$7,739.06
TurboChem First Response	each	$41.75	285		285			215	$8,976.25
TurboChem Pallets	each	$20.00	8		8			2	$40.00
TurboChem Shrink Wrap	each	$20.00	8		8			2	$40.00
Diesel 5/22/20	gal	$1.11						5545	$6,154.95
DIESEL 5/25/20	gal	$1.12						7404	$8,292.48
DIESEL 05/26/20	gal	$1.12	1000			1000	$1,120.00	7201	$8,065.12
DIESEL 05/26/20	gal	$1.13	7202		7104	98	$110.74	98	$110.74
					Daily Sub-Total		$1,230.74		$107,746.06

Cumulative Total AES & 3rd Party $618,897.44

5/29/2020 **Report 28 pm**

110 Old Market St.
St Martinville, LA 70582

TEL: (337) 394-1078

9.2° **4,707' TVD**

Operator	Contractor	County / Parish / Block	Engineer Start Date	24 hr ftg.	Drilled Depth
MAGNOLIA OIL & GAS	**PATTERSON**	**WASHINGTON**	**04/22/20**		**11,100 ft**
Well Name and No.	Rig Name and No.	State	Spud Date	Current ROP	Activity
LEVI GOODRICH UNIT 2 - 2H	**248**	**TEXAS**	**04/26/20**		**L/D TUBULARS**
Report for	Report for	Field / OSC-G #	Fluid Type	Circulating Rate	Circulating Pressure
Bobby Gwinn/James Dyer	**Tool Pusher**	**GIDDINGS**	**OBM**		

MUD PROPERTY SPECIFICATIONS						
Weight	PV	YP	E.S.	CaCl2	GELS	HTHP
9-17	**8-35**	**4-18**	**>400**	**±255K**	**<10 <25**	**<6**

MUD PROPERTIES				
Time Sample Taken		2:00		12:30
Sample Location		suction		pit
Flowline Temperature °F				
Depth (ft)		8,891'		11,090'
Mud Weight (ppg)		11.1		9.8
Funnel Vis (sec/qt)	@ 110 °F	51		31
600 rpm		38		31
300 rpm		22		19
200 rpm		18		14
100 rpm		12		10
6 rpm		6		5
3 rpm		5		4
Plastic Viscosity (cp)	@ 150 °F	16		12
Yield Point (lb/100 ft²)	T0 = 4	6		7
Gel Strength (lb/100 ft²)	10 sec / 10 min	6/10		5/9
Gel Strength (lb/100 ft2)	30 min	14		10
HTHP Filtrate (cm/30 min)	@ 300 °F	6.0		6.0
HTHP Cake Thickness (32nds)		2.0		2.0
Retort Solids Content		31%		27%
Corrected Solids (vol%)		29.4%		25.3%
Retort Oil Content		50%		54%
Retort Water Content		19%		19%
O/W Ratio		72:28		74:26
Whole Mud Chlorides (mg/L)		41,000		43,500
Water Phase Salinity (ppm)		252,826		264,170
Whole Mud Alkalinity, Pom		1.5		1.5
Excess Lime (lb/bbl)		2 ppb		2 ppb
Electrical Stability (volts)		445 v		430 v
Average Specific Gravity of Solids		3.69		3.63
Percent Low Gravity Solids		6.9%		6.8%
ppb Low Gravity Solids		57 ppb		56 ppb
Percent Barite		22.4%		18.5%
ppb Barite		322 ppb		266 ppb
Estimated Total LCM in System				
Sample Taken By		A. Roman		M Washburn

MUD VOLUME (BBL)		PUMP #1		PUMP #2		RISER BOOSTER
In Pits	831 bbl	Liner Size	5.25	Liner Size	5.25	Liner Size
In Hole	485 bbl	Stroke	12	Stroke	12	Stroke
Active	1026 bbl	bbl/stk	0.0763	bbl/stk	0.0763	bbl/stk
Storage	1607 bbl	stk/min		stk/min		stk/min
Tot. on Location	2923 bbl	gal/min		gal/min		gal/min

Mud Wt. = 11.1 PV=16 YP=6 **CIRCULATION DATA** n = 0.788 K = 82.1

Bit Depth = 4,739 ' | Washout = | Pump Efficiency = 95%

Drill String Disp.	Volume to Bit	57.1 bbl	Strokes To Bit	Time To Bit
	Bottoms Up Vol.	137.6 bbl	BottomsUp Stks	BottomsUp Time
22.9 bbl	TotalCirc.Vol.	1025.7 bbl	TotalCirc.Stks	Total Circ. Time

DRILLING ASSEMBLY DATA

Tubulars	OD (in.)	ID (in.)	Length	Top
Drill Pipe	4.500	3.826	3,601'	
Drill Pipe	2.875	2.300	1,138'	3,601'
				4,739'
				4,739'

CASING & HOLE DATA

Casing	OD (in.)	ID (in.)	Depth	Top
Riser				
Surface	10 1/2		2,991'	
Int. Csg.	7 5/8	6.875	10,273'	
Open Hole Size	6.750		11,100'	

ANNULAR GEOMETRY & RHEOLOGY

annular section	depth	velocity ft/min	flow reg	ECD lb/gal
6.875x4.5	3,601'		lam	11.14
6.875x2.875	4,739'		lam	11.14

SOLIDS CONTROL

Unit	Screens	Hours
Shaker 1	170	
Shaker 2	170	
Shaker 3	170	
Centrifuge 1		

VOLUME ACCOUNTING (bbls)

Prev. Total on Location	2912.1
Transferred In(+)/Out(-)	
Oil Added (+)	
Barite Added (+)	
Other Product Usage (+)	
Water Added (+)	
Left on Cuttings (-)	
Gain F/Cement	
Non-Recoverable Vol. (-)	
Est. Total on Location	2912.1
Est. Losses/Gains (-)/(+)	11.2

BIT HYDRAULICS DATA

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

BIT DATA Manuf./Type

Size	Depth In	Hours	Footage	ROP ft/hr	Motor/MWD	Calc. Circ. Pressure
6 3/4						#DIV/0!

Afternoon Remarks/Recommendations:

Afternoon Rig Activity:

Lay down 4-1/2 drillpipe and 2-7/8" tubing. Monitor well on trip tank, taking correct amount of fluid. Trip in hole with 31 stands of 4-1/2 drillpipe to laydown same. Reduce mud wt.in active pit system from 11.0 to 9.8 with additions of diesel and application of centrifuge added Bentone clay to maintain viscosity while adding diesel. Reduce mud wt. of 400 bbls in reserve frac tank from 10.2 to 9.8 in preparation for drilling sidetrack.

05/30/20 **Report #29**

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**	**04/22/20**	**0 ft**	**11,100 ft**
Well Name and No.	Rig Name and No.	State	Spud Date	Current ROP	Activity
LEVI GOODRICH UNIT 2 - 2H	**248**	**TEXAS**	**04/26/20**	**0 ft/hr**	**Test BOP's**
Report for	Report for	Field / OCS-G #	Fluid Type	Circulating Rate	Circulating Pressure
Bobby Gwinn/James Dyer	**Tool Pusher**	**GIDDINGS**	**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	800 bbl	Liner Size	5.25	Liner Size	5.25	Liner Size	
9-17	**8-35**	**4-18**	**>400**	**±230K**	**<10 <25**	**<10**	In Hole	508 bbl	Stroke	12	Stroke	12	Stroke	
				5/30/20		5/29/20	Active	800 bbl	bbl/stk	0.0763	bbl/stk	0.0763	bbl/stk	0.0000
Time Sample Taken				2:00		12:30	Storage	1607 bbl	stk/min	0	stk/min	0	stk/min	
Sample Location				ACTIVE		ACTIVE	Tot. on Location	2915 bbl	gal/min	0	gal/min	0	gal/min	0
Flowline Temperature °F							PHHP = 0		CIRCULATION DATA				n = 0.755 K = 73.644	
Depth (ft)						11,090'	Bit Depth = '		Washout = 0%		Pump Efficiency = 95%			
Mud Weight (ppg)				9.9		9.8	Drill String Disp.	Volume to Bit 0.0 bbl	Strokes To Bit		Time To Bit			
Funnel Vis (sec/qt)			@ 85 °F	46		31		Bottoms Up Vol. 0.0 bbl	BottomsUp Stks		BottomsUp Time			
600 rpm				27		31	0.0 bbl	TotalCirc.Vol. 800.0 bbl	TotalCirc.Stks		Total Circ. Time			
300 rpm				16		19	DRILLING ASSEMBLY DATA				SOLIDS CONTROL			
200 rpm				12		14	Tubulars	OD (in.) ID (in.) Length Top			Unit	Screens	Hours	
100 rpm				8		10	Drill Pipe	4.500 3.826 0' 0'			Shaker 1	170		
6 rpm				5		5		0'			Shaker 2	170		
3 rpm				3		4		0'			Shaker 3	170		
Plastic Viscosity (cp)			@ 150 °F	11		12		0'			Centrifuge 1			
Yield Point (lb/100 ft²)			T0 = 1	5		7	CASING & HOLE DATA							
Gel Strength (lb/100 ft²)			10 sec/10 min	5/8		5/9	Casing	OD (in.) ID (in.) Depth Top						
Gel Strength (lb/100 ft^2)			30 min	11		10	Riser	0 0'			VOLUME ACCOUNTING (bbls)			
HTHP Filtrate (cm/30 min)			@ 300 °F	10.0		6.0	Surface	10 1/2 2,991' 0'			Prev. Total on Location			2912.1
HTHP Cake Thickness (32nds)				1.0		2.0	Int. Csg.	7 5/8 6.875 10,273' 0'			Transferred In(+)/Out(-)			
Retort Solids Content				13%		13%					Oil Added (+)			18.3
Corrected Solids (vol%)				11.5%		11.5%					Barite Added (+)			7.0
Retort Oil Content				67%		67%	Open Hole Size	6.750 11,100'			Other Product Usage (+)			0.3
Retort Water Content				20%		20%	ANNULAR GEOMETRY & RHEOLOGY				Water Added (+)			
O/W Ratio				77:23		77:23	annular section	meas. depth	velocity ft/min	flow reg	ECD lb/gal	Left on Cuttings (-)		0.0
Whole Mud Chlorides (mg/L)				38,000		40,000						Gain F/Cement		
Water Phase Salinity (ppm)				229,546		238,743						Non-Recoverable Vol. (-)		-22.4
Whole Mud Alkalinity, Pom				1.3		1.5						Est. Total on Location		2915.3
Excess Lime (lb/bbl)				1.7 ppb		2 ppb						Est. Losses/Gains (-)/(+)		0.0
Electrical Stability (volts)				462 v		430 v						BIT HYDRAULICS DATA		
Average Specific Gravity of Solids				3.17		3.06						Bit H.S.I.	Bit ΔP	Nozzles (32nds)
Percent Low Gravity Solids				6.1%		6.8%								
ppb Low Gravity Solids				50 ppb		56 ppb						Bit Impact Force	Nozzle Velocity (ft/sec)	
Percent Barite				5.4%		4.6%								
ppb Barite				78 ppb		67 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				A. Roman	0	M Washburn	6 3/4							

Remarks/Recommendations:

OBM RECEIVED: (8,400) bbls

OBM ON SURFACE TANKS--2,407 bbls (storage + Active)

OBM Kill mud on Hand----314bbls //14.4# // $65.00/bbl

Discounted OBM on hand -(895bbl--12.5#)(398bbl--10#) // $15.00/bbl

Rig Activity:

Finish lay down DP. Work on OBM in active system reduce MW to 9.8ppg with additions of Diesel and Running Centrifuge. Rig operations: Change out Drill Line with new spool, start testing BOP's (full Test). inspect Shakers and replace worn out screens, for up coming side track and drilling operations. At this time we continue testing BOP's.

Eng. 1:	Eng. 2:	WH 1:	WH 2:	Rig Phone:	Daily Total	Cumulative Cost
Matt Meehan	Adolfo Roman	MIDLAND	WH #2	
Phone: 985-351-7561	Phone: 956-821-9994	Phone: 432-685-4023	Phone: -		**$2,944.36**	**$514,095.74**

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

INCLUDING 3RD PARTY CHARGES **$3,812.20** **$622,709.64**

OUTSOURCE FLUID SOLUTIONS LLC.

MATERIAL CONSUMPTION

Date	Operator	Well Name and No.	Rig Name and No.	Report No.
05/30/20	MAGNOLIA OIL & GAS	LEVI GOODRICH UNIT 2 - 2H	248	Report #29

DAILY USAGE & COST								CUMULATIVE	
Item	Unit	Unit Cost	Previous Inventory	Received	Closing Inventory	Daily Usage	Daily Cost	Cum Usage	Cum Cost
ALUMINUM TRISTEARATE	25# sk	$162.83							
SAPP (50)	50# sk	$44.50						31	$1,379.50
PHPA LIQUID (pail)	5 gal	$41.36						2	$82.72
DYNA DET	pail	$32.23						4	$128.92
DYNAFIBER C	25# sk	$53.67	70		70			18	$966.06
DYNAFIBER MED	25# sk	$53.67	120		120				
FIBER PLUG	40# sk	$30.37	30		30			10	$303.70
CACL2 (50)	50# sk	$16.60	220		220			353	$5,859.80
LIME (50)	50# sk	$5.00	220		220			330	$1,650.00
BENTONE 910 (50)	50# sk	$59.94	49		49			21	$1,258.74
BENTONE 990 (50)	50# sk	$83.59	44		40	4	$334.36	40	$3,343.60
OPTI G	50# sk	$30.59	140		140			100	$3,059.00
OPTI MUL HP	gal	$10.75	550		550			375	$4,031.25
OPTI WET	gal	$8.34	515		515			300	$2,502.00
NEW PHALT	50# sk	$38.72	90		90			70	$2,710.40
NEWCARB 200	50# sk	$5.25	72		72			98	$514.50
MAGMAFIBER F (25)	25# sk	$28.05	48		48			146	$4,095.30
OIL SORB (25)	25# sk	$4.75	40		40				
PHPA LIQUID (pail)	5 gal	$41.36	88		88			9	$372.24
GEL (100)	100# sk		70		70				
BENTONE 38 (50)	50# sk	$163.94	22		22			18	$2,950.92
CYBERSEAL	25# sk	$21.47	240		240			8	$171.76
Evo-Lube	gal	$9.31	975		975			125	$1,163.75
CAL CARB COARSE (50)	50# sk	$5.37	120		120				
MAGMAFIBER R (30)	30# sk	$28.05	80		80				
NEW-WATE (SACK BARITE)	100# sk	$11.50	160		160				
BARITE BULK (100)	100# sk	$7.00	900		800	100	$700.00	3566	$24,962.00
OPTI DRILL (OBM)	bbl	$65.00	890		890			5526	$359,190.00
Magnolia Owned OBM	bbl		656		656			204	
Discounted High LGS OBM	bbl	$15.00	914		914			1716	$25,740.00
ENGINEERING (24 HR)	each	$925.00				2	$1,850.00	54	$49,950.00
ENGINEERING (DIEM)	bbl	$30.00				2	$60.00	54	$1,620.00
ENGINEERING (MILES)	each	$1.00						1049	$1,049.00
TRUCKING (cwt)	each	$2.50						4799	$11,998.58
TRUCKING (min)	each	$795.00						2	$1,590.00
PALLETS (ea)	each	$12.00						62	$744.00
SHRINK WRAP (ea)	each	$12.00						59	$708.00
		Daily Sub-Total $2,944.36			**Cumulative Total $514,095.74**			**$514,095.74**	

THIRD PARTY COST SHEET

Date	Operator	Well Name and No.	Rig Name and No.	Report No.
05/30/20	MAGNOLIA OIL & GAS	LEVI GOODRICH UNIT 2 - 2H	248	Report #29

DAILY USAGE & COST								CUMULATIVE	
Item	Unit	Unit Cost	Previous Inventory	Received	Closing Inventory	Daily Usage	Daily Cost	Cum Usage	Cum Cost
Diesel 4/25/20	gal	$0.91							
Diesel 5/6/20	gal	$0.90						5040	$4,536.00
Diesel 5/8/20	gal	$0.93						7302	$6,790.86
Diesel 5/9/20	gal	$0.96						7006	$6,725.76
Diesel 5/10/20	gal	$0.97						7300	$7,081.00
Diesel 5/14/20	gal	$0.98						7400	$7,252.00
Diesel 5/15/20	gal	$0.97						6750	$6,547.50
Diesel 5/16/20	gal	$1.03						7100	$7,313.00
Diesel 5/17/20	gal	$1.03						7634	$7,863.02
Diesel 5/17/20 Load #2	gal	$1.03						7402	$7,624.06
Diesel 5/19/ 20	gal	$1.06						6221	$6,594.26
Diesel 5/19/20	gal	$1.06						7301	$7,739.06
TurboChem First Response	each	$41.75	285		285			215	$8,976.25
TurboChem Pallets	each	$20.00	8		8			2	$40.00
TurboChem Shrink Wrap	each	$20.00	8		8			2	$40.00
Diesel 5/22/20	gal	$1.11						5545	$6,154.95
DIESEL 5/25/20	gal	$1.12						7404	$8,292.48
DIESEL 05/26/20	gal	$1.12						7201	$8,065.12
DIESEL 05/26/20	gal	$1.13	7104		6336	768	$867.84	866	$978.58
							Daily Sub-Total $867.84		$108,613.90

Cumulative Total AES & 3rd Party $622,709.64

OUTSOURCE FLUID SOLUTIONS LLC.

FLUID VOLUME ACCOUNTING

Operator:	MAGNOLIA OIL & GAS
Rig Name:	248
Well Name:	LEVI GOODRICH UNIT 2 - 2H

		WEEK 1							WEEK 2							WEEK 3						
	Date	5/9/20	5/10/20	5/11/20	5/12/20	5/13/20	5/14/20	5/15/20	5/16/20	5/17/20	5/18/20	5/19/20	5/20/20	5/21/20	5/22/20	5/23/20	5/24/20	5/25/20	5/26/20	5/27/20	5/28/20	5/29/20
		Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri
	Bit Size	9 7/8	9 7/8	9 7/8	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4
Grand Totals	Starting Depth	3,000	4,915	10,102	10,284	10,284	10,284	10,380	11,970	11,970	14,305	15,905	16,662	16,940	16,027	16,029	16,029	16,029	16,029	16,029	11,100	11,100
	Ending Depth	4,915	10,102	10,284	10,284	10,284	10,380	11,970	11,970	14,305	15,905	16,662	16,940	16,027	16,029	16,029	16,029	16,029	16,029	11,100	11,100	11,100
13,942	Footage Drilled	1,915	5,187	182	-	-	96	1,590	-	2,335	1,600	757	278	-	2	-	-	-	-	-	-	-
985	New Hole Vol.	181	491	17	-	-	4	70	-	103	71	34	12	-	0	-	-	-	-	-	-	-
	Starting System Volume	2,395	2,448	2,477	2,020	2,436	2,738	2,755	2,753	2,348	2,141	715	1,829	1,664	2,075	1,555	2,403	1,971	2,857	3,290	2,975	2,894
95	Chemical Additions	11	17			6	4	8	1	25	11	-	-	2	-	-	-	-	5	4	-	2
2,176	Base Fluid Added	129	304	34	47	5	26	185	118	308	183	46	215	3	82	18	18	80	171	146	15	26
248	Barite Increase		28	10			7	26	26	2	29	-	8	-	-	-	20	28	14	22	14	7
6,236	Weighted Mud Added				421	291				208	-	744	-	526	-	916	782	1,537	811	-	-	-
-	Slurry Added										-	-	-	-	-	-	-	-	-	-	-	-
25,914	Water Added	16	56							107	384	10,371	1,590	11,756	500	279	200	91	564	-	-	-
191	Added for Washout	48	48	39							-	-	-	-	-	-	-	-	-	-	-	56
34,862	Total Additions	204	453	83	468	302	37	219	145	650	607	11,161	1,813	12,287	582	1,213	1,020	1,736	1,565	172	29	91
447	Surface Losses	7	23	74	10		16	40	30	30	-		-	-	-	-	-	-	-	217	-	-
30,802	Formation Loss			18				105	500	705	326	10,047	1,978	11,875	1,102	365	1,452	850	1,132	270	77	-
797	Mud Loss to Cuttings	132	383	19			4	76		108	75		-	-	-	-	-	-	-	-	-	-
210	Unrecoverable Volume			42	42				20		-		-	-	-	-	-	-	-	-	33	73
72	Centrifuge Losses	12	18	5						15	-		-	-	-	-	-	-	-	-	-	-
32,327	Total Losses	151	425	158	52	-	20	221	550	857	401	10,047	1,978	11,875	1,102	365	1,452	850	1,132	487	110	73
2,014	Mud Transferred Out			382							1,632											
2,915	Ending System Volume	2,448	2,477	2,020	2,436	2,738	2,755	2,753	2,348	2,141	715	1,829	1,664	2,075	1,555	2,403	1,971	2,857	3,290	2,975	2,894	2,912
130	Mud Recovered		130																			

6,617

Comments:		Comments:		Comments:	
5/9/20	Trans in 2101bbls skid vol. Casing had 293bbls F surface displacement. Mud lost to Cuttings 132.1bbls, Evap 6.6, Cent 12bbls	5/16/20	Mud Lost to partial losses due to seepage and trip surge 500-bbls, Evap 20-bbls, Pit Settlement 10-bbls and Tripping out 20-bbls	5/23/20	Pump Kill mud on back side, Pick up fishing tools and TIH. Tag fish and hook on to it. Start POOH.
5/10/20	Mud lost to Cuttings 383.4-bbls, Evap 23.2-bbls and Cent. 18-bbls. Mud recovered from, shaker tank runoff due to sweeps and ROC's 129.7-bbls	5/17/20	Mud Lost to Formation 705-bbls. Mud lost to Cuttings 108-bbls, Evap 19.56, Pits 10-bbls and Cent. 14.54bbls	5/24/20	Kill well with fishing tools in. Top of fish 11100'… Work fishing tools through 18* dog legs. Receive 782bbls OBM
5/11/20	Returned 382-bbls to Newpark. Mud Lost Cuttings 19-bbls, Cent 5-bbls, Evap 12.5, TOOH/TIH 35-bbls, Shaker Run off 42.2-bbls and Trucking 26-bbls	5/18/20	Drilling under Mud Cap. Fresh water pumped down hole to continue drilling.	5/25/20	POOH to reset fishing tools and TIH for fish (3rd attempt). Continue to Pump Down DP and back side to kill well. Received 1537bbls OBM.
5/12/20	Rec. 421-bbls 16.0 (KILL) lost 10-bbls to Trucking In… Mud lost to spacer contamination 42-bbls	5/19/20	Drilling under Mud Cap. Fresh water pumped down hole to continue drilling.	5/26/20	Jaring on stuck pipe. Mix Isolation sweep for intentionaly plug DP in the hole.
5/13/20	Lost 10.2-bbls to Pit Settlement	5/20/20	Side Track time drilling 16027. Continue pumping fresh water down hole with 13# mud cap on back side.	5/27/20	Un latch from fish, Circulate while increasing MW to 10.7ppg. Well continue to take mud. LCM mix in active system.Kill well POOH to shoe, pump balance plug to POOH and pick up stinger
5/14/20	Mud Lost to Cutting 3.5-bbls, Evap 6-bbls and Pit Settlement 10-bbls	5/21/20	Side Track time drilling 16027. Continue pumping fresh water down hole with 13# mud cap on back side.	5/28/20	POOH lay down Fishing tools. Pick up 2 7/8" stinger and TIH for set up of cement plug. Stage in the hole, circulating Surf. Surf every time.
5/15/20	Mud Lost to Cuttings 76-bbls, Evap 21-bbls, Pits 10-bbls Cent. 9-bbls. Patrial Losses to formation 105-bbls	5/22/20	Work stuck pipe free, Dry ream up to 15780, resume pump fresh water. Kill well and POOH.	5/29/20	Pump Cement plug. POOH 20stans and circulate Sur-surf. POOH lay down DP. Cut MW in the active system 9.8ppg.

OUTSOURCE FLUID SOLUTIONS LLC.

FLUID VOLUME ACCOUNTING

Operator:	MAGNOLIA OIL & GAS
Rig Name:	248
Well Name:	LEVI GOODRICH UNIT 2 - 2H

Grand Totals		WEEK 4							WEEK 5							WEEK 6						
	Date	5/30/20	5/31/20	6/1/20	6/2/20	6/3/20	6/4/20	6/5/20	6/6/20	6/7/20	6/8/20	6/9/20	6/10/20	6/11/20	6/12/20	6/13/20	6/14/20	6/15/20	6/16/20	6/17/20	6/18/20	6/19/20
		Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri
	Bit Size	6 3/4																				
	Starting Depth	11,100	11,100																			
	Ending Depth	11,100																				
13,942	Footage Drilled	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
985	New Hole Vol.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Starting System Volume	2,912	2,915	2,915	2,915	2,915	2,915	2,915	2,915	2,915	2,915	2,915	2,915	2,915	2,915	2,915	2,915	2,915	2,915	2,915	2,915	2,915
95	Chemical Additions	-																				
2,176	Base Fluid Added	18																				
248	Barite Increase	7																				
6,236	Weighted Mud Added	-																				
-	Slurry Added	-																				
25,914	Water Added	-																				
191	Added for Washout	-																				
34,862	Total Additions	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
447	Surface Losses	-																				
30,802	Formation Loss	-																				
797	Mud Loss to Cuttings	-																				
210	Unrecoverable Volume	-																				
72	Centrifuge Losses	22																				
32,327	Total Losses	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,014	Mud Transferred Out																					
2,915	Ending System Volume	2,915	2,915	2,915	2,915	2,915	2,915	2,915	2,915	2,915	2,915	2,915	2,915	2,915	2,915	2,915	2,915	2,915	2,915	2,915	2,915	2,915
130	Mud Recovered																					

6,617

Comments:		Comments:	Comments:
5/30/20	Finish lay down DP, Change out Drill line spool and Test BOP's. stage new DP on pipe racks for pick up .	6/6/20	6/13/20
5/31/20		6/7/20	6/14/20
6/1/20		6/8/20	6/15/20
6/2/20		6/9/20	6/16/20
6/3/20		6/10/20	6/17/20
6/4/20		6/11/20	6/18/20
6/5/20		6/12/20	6/19/20

5/30/2020 **Report 29 pm**

110 Old Market St.
St Martinville, LA 70582

TEL: (337) 394-1078

3.3° **6,485' TVD**

Operator	Contractor	County / Parish / Block	Engineer Start Date	24 hr ftg.	Drilled Depth
MAGNOLIA OIL & GAS	**PATTERSON**	**WASHINGTON**	**04/22/20**		**11,100 ft**
Well Name and No.	Rig Name and No.	State	Spud Date	Current ROP	Activity
LEVI GOODRICH UNIT 2 - 2H	**248**	**TEXAS**	**04/26/20**		**P/U 4-1/2" DP**
Report for	Report for	Field / OSC-G #	Fluid Type	Circulating Rate	Circulating Pressure
Bobby Gwinn/James Dyer	**Tool Pusher**	**GIDDINGS**	**OBM**		

MUD PROPERTY SPECIFICATIONS

Weight	PV	YP	E.S.	CaCl2	GELS	HTHP
9-17	**8-35**	**4-18**	**>400**	**±230K**	**<10 <25**	**<10**

MUD PROPERTIES

Time Sample Taken	2:00		15:30
Sample Location	ACTIVE		ACTIVE
Flowline Temperature °F			
Depth (ft)			
Mud Weight (ppg)	9.9		9.9
Funnel Vis (sec/qt) @ 85 °F	46		45
600 rpm	27		30
300 rpm	16		18
200 rpm	12		13
100 rpm	8		9
6 rpm	5		5
3 rpm	3		4
Plastic Viscosity (cp) @ 150 °F	11		12
Yield Point (lb/100 ft²) T0 = 1	5		6
Gel Strength (lb/100 ft²) 10 sec / 10 min	5/8		5/9
Gel Strength (lb/100 ft2) 30 min	11		10
HTHP Filtrate (cm/30 min) @ 300 °F	10.0		10.0
HTHP Cake Thickness (32nds)	1.0		2.0
Retort Solids Content	13%		13%
Corrected Solids (vol%)	11.5%		11.5%
Retort Oil Content	67%		67%
Retort Water Content	20%		20%
O/W Ratio	77:23		77:23
Whole Mud Chlorides (mg/L)	38,000		39,000
Water Phase Salinity (ppm)	229,546		234,172
Whole Mud Alkalinity, Pom	1.3		1.5
Excess Lime (lb/bbl)	1.7 ppb		2 ppb
Electrical Stability (volts)	462 v		430 v
Average Specific Gravity of Solids	3.17		3.17
Percent Low Gravity Solids	6.1%		6.1%
ppb Low Gravity Solids	50 ppb		51 ppb
Percent Barite	5.4%		5.4%
ppb Barite	78 ppb		77 ppb
Estimated Total LCM in System			
Sample Taken By	A. Roman		M Washburn

MUD VOLUME (BBL)

In Pits	800 bbl
In Hole	473 bbl
Active	1064 bbl
Storage	1607 bbl
Tot. on Location	2880 bbl

PUMP #1

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

PUMP #2

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

RISER BOOSTER

Liner Size
Stroke
bbl/stk
stk/min
gal/min

Mud Wt. = 9.9 PV=11 YP=5 **CIRCULATION DATA** n = 0.755 K = 73.6

Bit Depth = 6,528 ' | Washout = | Pump Efficiency = 95%

Drill String Disp.	Volume to Bit	92.8 bbl	Strokes To Bit	Time To Bit
	Bottoms Up Vol.	171.3 bbl	BottomsUp Stks	BottomsUp Time
35.6 bbl	TotalCirc.Vol.	1064.1 bbl	TotalCirc.Stks	Total Circ. Time

DRILLING ASSEMBLY DATA

Tubulars	OD (in.)	ID (in.)	Length	Top
Drill Pipe	4.500	3.826	6,528'	
				6,528'
				6,528'
				6,528'

CASING & HOLE DATA

Casing	OD (in.)	ID (in.)	Depth	Top
Riser				
Surface	10 1/2		2,991'	
Int. Csg.	7 5/8	6.875	10,273'	
Open Hole Size	6.750		11,100'	

ANNULAR GEOMETRY & RHEOLOGY

annular section	depth	velocity ft/min	flow reg	ECD lb/gal
6.875x4.5	6,528'		lam	9.90

BIT DATA Manuf./Type HAL SR1R

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

SOLIDS CONTROL

Unit	Screens	Hours
Shaker 1	170	
Shaker 2	170	
Shaker 3	170	
Centrifuge 1		

VOLUME ACCOUNTING (bbls)

Prev. Total on Location	2915.3
Transferred In(+)/Out(-)	
Oil Added (+)	
Barite Added (+)	
Other Product Usage (+)	
Water Added (+)	
Left on Cuttings (-)	
Gain F/Cement	
Non-Recoverable Vol. (-)	
Est. Total on Location	2915.3
Est. Losses/Gains (-)/(+)	-35.6

BIT HYDRAULICS DATA

Bit H.S.I.	Bit ΔP	Nozzles (32nds)		
		20	20	20
Bit Impact Force	Nozzle Velocity (ft/sec)			

Motor/MWD	Calc. Circ. Pressure
	69 psi

Afternoon Remarks/Recommendations:

Afternoon Rig Activity:

Complete BOP nipple up and test. Change drill line spool. Make up 6-3/4" bit and pick up newly inspected 4-1/2" drillpipe and TIH to dress off cement plug, in preparation for sidetrack. When start to circulate will reduce mud wt in circulating system to 9.8 currently 9.9 in active system and 11.0 in the hole. Trip depth at the time of report is 6528.

05/31/20 **Report #30**

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

OUTSOURCE FLUID SOLUTIONS LLC.

15.6° **9,976' TVD**

Operator	Contractor	County / Parish / Block	Engineer Start Date	24 hr ftg.	Drilled Depth
MAGNOLIA OIL & GAS	**PATTERSON**	**WASHINGTON**	**04/22/20**	**0 ft**	**10,047 ft**
Well Name and No.	Rig Name and No.	State	Spud Date	Current ROP	Activity
LEVI GOODRICH UNIT 2 - 2H	**248**	**TEXAS**	**04/26/20**	**0 ft/hr**	**Tag Cement/Circlate**
Report for	Report for	Field / OCS-G #	Fluid Type	Circulating Rate	Circulating Pressure
Bobby Gwinn/James Dyer	**Tool Pusher**	**GIDDINGS**	**OBM**	**192 gpm**	**1,057 psi**

MUD PROPERTY SPECIFICATIONS							MUD VOLUME (BBL)		PUMP #1		PUMP #2		RISER BOOSTER	
Weight	PV	YP	E.S.	CaCl2	GELS	HTHP	In Pits	777 bbl	Liner Size	5.25	Liner Size	5.25	Liner Size	
9-17	**8-35**	**4-18**	**>400**	**±240K**	**<10 <25**	**<10**	In Hole	407 bbl	Stroke	12	Stroke	12	Stroke	
				5/31/20		5/30/20	Active	1183 bbl	bbl/stk	0.0763	bbl/stk	0.0763	bbl/stk	0.0000
Time Sample Taken				2:00		15:30	Storage	1654 bbl	stk/min	60	stk/min	0	stk/min	
Sample Location				ACTIVE		ACTIVE	Tot. on Location	2838 bbl	gal/min	192	gal/min	0	gal/min	0
Flowline Temperature °F				120 °F			PHHP = 119		**CIRCULATION DATA**				n = 0.652	K = 183.523
Depth (ft)				10,047'			Bit Depth = 10,029 '		Washout = 0%				Pump Efficiency = 95%	
Mud Weight (ppg)				11.1		9.9	Drill String Disp.	Volume to Bit 142.6 bbl	Strokes To Bit	1,869			Time To Bit	31 min
Funnel Vis (sec/qt)			@ 110 °F	44		45		Bottoms Up Vol. 263.2 bbl	BottomsUp Stks	3,449			BottomsUp Time	57 min
600 rpm				33		30	54.7 bbl	TotalCirc.Vol. 1182.8 bbl	TotalCirc.Stks	15,500			Total Circ. Time	258 min
300 rpm				21		18	**DRILLING ASSEMBLY DATA**						**SOLIDS CONTROL**	
200 rpm				18		13	Tubulars	OD (in.)	ID (in.)	Length	Top		Unit	Screens	Hours
100 rpm				10		9	Drill Pipe	4.500	3.826	10,029'	0'		Shaker 1	170	24.0
6 rpm				6		5					10,029'		Shaker 2	170	24.0
3 rpm				4		4					10,029'		Shaker 3	170	24.0
Plastic Viscosity (cp)			@ 150 °F	12		12					10,029'		Centrifuge 1		2.0
Yield Point (lb/100 ft²)			T0 = 2	9		6	**CASING & HOLE DATA**								
Gel Strength (lb/100 ft²)			10 sec/10 min	6/10		5/9	Casing	OD (in.)	ID (in.)	Depth	Top				
Gel Strength (lb/100 ft^2)			30 min	14		10	Riser	0		0'			**VOLUME ACCOUNTING (bbls)**		
HTHP Filtrate (cm/30 min)			@ 300 °F	10.0		10.0	Surface	10 1/2		2,991'	0'		Prev. Total on Location		2915.3
HTHP Cake Thickness (32nds)				2.0		2.0	Int. Csg.	7 5/8	6.875	10,273'	0'		Transferred In(+)/Out(-)		
Retort Solids Content				18%		13%							Oil Added (+)		16.2
Corrected Solids (vol%)				16.4%		11.5%							Barite Added (+)		31.3
Retort Oil Content				62%		67%	Open Hole Size		6.750	10,047'			Other Product Usage (+)		2.9
Retort Water Content				20%		20%	**ANNULAR GEOMETRY & RHEOLOGY**						Water Added (+)		
O/W Ratio				76:24		77:23	annular section	meas. depth	velocity ft/min	flow reg	ECD lb/gal		Left on Cuttings (-)		0.0
Whole Mud Chlorides (mg/L)				41,000		39,000							Gain F/Cement		
Water Phase Salinity (ppm)				243,260		234,172							Non-Recoverable Vol. (-)		-127.7
Whole Mud Alkalinity, Pom				2.0		1.5	6.875x4.5	10,029'	174.5	lam	11.51		Est. Total on Location		2838.0
Excess Lime (lb/bbl)				2.6 ppb		2 ppb							Est. Losses/Gains (-)/(+)		0.0
Electrical Stability (volts)				455 v		430 v							**BIT HYDRAULICS DATA**		
Average Specific Gravity of Solids				3.34		3.17							Bit H.S.I.	Bit ΔP	Nozzles (32nds)
Percent Low Gravity Solids				7.1%		6.1%							0.14	45 psi	20 20 20
ppb Low Gravity Solids				59 ppb		51 ppb							Bit Impact Force	Nozzle Velocity (ft/sec)	
Percent Barite				9.2%		5.4%									
ppb Barite				133 ppb		77 ppb	**BIT DATA**		Manuf./Type		HAL SR1R		74 lbs	67	
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								526 psi

Remarks/Recommendations:

OBM RECEIVED: (8,400) bbls

OBM ON SURFACE TANKS--2,431 bbls (storage + Active)

TOTAL OBM ON LOCATION: 2838BBLS

OBM Kill mud on Hand----361bbls //14.4# // $65.00/bbl

Discounted OBM on hand -(895bbl--12.5#)(398bbl--10#) // $15.00/bbl

Rig Activity:

BOP test completed 100%. Make up 6 3/4" bit and bit sub, start picking up 4 1/2" DP new string. Tag at 9955', install rotating head and break circulation and start dressing out cement plug. Soft cement and spacer down hole up on BU of circulation loosing 40bbls over the shakers. Gas up 4000+ units on BU, divert flow through Choke. Ciculate gas out holding back pressure. Casing pressure up 2100psi, Increase MW up to 11.1ppg gradually while circulating and monitor pressure on back side with choke set at 30% open gradually as MW increase. 11.1ppg in and out, shutt in and change out Rotating head. Resume drilling on cement at time of report, bit passing 10170', ROP of 450ft/hr -- WOB 3-5klbs.

Eng. 1:	Matt Meehan	Eng. 2:	Adolfo Roman	WH 1:	MIDLAND	WH 2:	WH #2	Rig Phone:
Phone:	985-351-7561	Phone:	956-821-9994	Phone:	432-685-4023	Phone:	-	

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

	Daily Total	Cumulative Cost
	$6,278.58	**$520,374.32**
INCLUDING 3RD PARTY CHARGES	**$6,983.70**	**$629,693.34**

OUTSOURCE FLUID SOLUTIONS LLC.

MATERIAL CONSUMPTION

Date	Operator	Well Name and No.	Rig Name and No.	Report No.
05/31/20	MAGNOLIA OIL & GAS	LEVI GOODRICH UNIT 2 - 2H	248	Report #30

DAILY USAGE & COST								CUMULATIVE	
Item	Unit	Unit Cost	Previous Inventory	Received	Closing Inventory	Daily Usage	Daily Cost	Cum Usage	Cum Cost
ALUMINUM TRISTEARATE	25# sk	$162.83							
SAPP (50)	50# sk	$44.50						31	$1,379.50
PHPA LIQUID (pail)	5 gal	$41.36						2	$82.72
DYNA DET	pail	$32.23						4	$128.92
DYNAFIBER C	25# sk	$53.67	70		70			18	$966.06
DYNAFIBER MED	25# sk	$53.67	120		120				
FIBER PLUG	40# sk	$30.37	30		30			10	$303.70
CACL2 (50)	50# sk	$16.60	220		200	20	$332.00	373	$6,191.80
LIME (50)	50# sk	$5.00	220		200	20	$100.00	350	$1,750.00
BENTONE 910 (50)	50# sk	$59.94	49		49			21	$1,258.74
BENTONE 990 (50)	50# sk	$83.59	40		40			40	$3,343.60
OPTI G	50# sk	$30.59	140		140			100	$3,059.00
OPTI MUL HP	gal	$10.75	550		550			375	$4,031.25
OPTI WET	gal	$8.34	515		460	55	$458.70	355	$2,960.70
NEW PHALT	50# sk	$38.72	90		90			70	$2,710.40
NEWCARB 200	50# sk	$5.25	72		72			98	$514.50
MAGMAFIBER F (25)	25# sk	$28.05	48		48			146	$4,095.30
OIL SORB (25)	25# sk	$4.75	40		40				
PHPA LIQUID (pail)	5 gal	$41.36	88		88			9	$372.24
GEL (100)	100# sk		70		70				
BENTONE 38 (50)	50# sk	$163.94	22		20	2	$327.88	20	$3,278.80
CYBERSEAL	25# sk	$21.47	240		240			8	$171.76
Evo-Lube	gal	$9.31	975		975			125	$1,163.75
CAL CARB COARSE (50)	50# sk	$5.37	120		120				
MAGMAFIBER R (30)	30# sk	$28.05	80		80				
NEW-WATE (SACK BARITE)	100# sk	$11.50	160		160				
BARITE BULK (100)	100# sk	$7.00	800		350	450	$3,150.00	4016	$28,112.00
OPTI DRILL (OBM)	bbl	$65.00	890		890			5526	$359,190.00
Magnolia Owned OBM	bbl		656	378	1034			204	
Discounted High LGS OBM	bbl	$15.00	914		914			1716	$25,740.00
ENGINEERING (24 HR)	each	$925.00				2	$1,850.00	56	$51,800.00
ENGINEERING (DIEM)	bbl	$30.00				2	$60.00	56	$1,680.00
ENGINEERING (MILES)	each	$1.00						1049	$1,049.00
TRUCKING (cwt)	each	$2.50						4799	$11,998.58
TRUCKING (min)	each	$795.00						2	$1,590.00
PALLETS (ea)	each	$12.00						62	$744.00
SHRINK WRAP (ea)	each	$12.00						59	$708.00
		Daily Sub-Total $6,278.58			**Cumulative Total $520,374.32**			**$520,374.32**	

THIRD PARTY COST SHEET

Date	Operator	Well Name and No.	Rig Name and No.	Report No.
05/31/20	MAGNOLIA OIL & GAS	LEVI GOODRICH UNIT 2 - 2H	248	Report #30

DAILY USAGE & COST								CUMULATIVE	
Item	Unit	Unit Cost	Previous Inventory	Received	Closing Inventory	Daily Usage	Daily Cost	Cum Usage	Cum Cost
Diesel 4/25/20	gal	$0.91							
Diesel 5/6/20	gal	$0.90						5040	$4,536.00
Diesel 5/8/20	gal	$0.93						7302	$6,790.86
Diesel 5/9/20	gal	$0.96						7006	$6,725.76
Diesel 5/10/20	gal	$0.97						7300	$7,081.00
Diesel 5/14/20	gal	$0.98						7400	$7,252.00
Diesel 5/15/20	gal	$0.97						6750	$6,547.50
Diesel 5/16/20	gal	$1.03						7100	$7,313.00
Diesel 5/17/20	gal	$1.03						7634	$7,863.02
Diesel 5/17/20 Load #2	gal	$1.03						7402	$7,624.06
Diesel 5/19/ 20	gal	$1.06						6221	$6,594.26
Diesel 5/19/20	gal	$1.06						7301	$7,739.06
TurboChem First Response	each	$41.75	285		285			215	$8,976.25
TurboChem Pallets	each	$20.00	8		8			2	$40.00
TurboChem Shrink Wrap	each	$20.00	8		8			2	$40.00
Diesel 5/22/20	gal	$1.11						5545	$6,154.95
DIESEL 5/25/20	gal	$1.12						7404	$8,292.48
DIESEL 05/26/20	gal	$1.12						7201	$8,065.12
DIESEL 05/26/20	gal	$1.13	6336		5712	624	$705.12	1490	$1,683.70

Daily Sub-Total $705.12

$109,319.02

Cumulative Total AES & 3rd Party $629,693.34

OUTSOURCE FLUID SOLUTIONS LLC.

FLUID VOLUME ACCOUNTING

Operator:	MAGNOLIA OIL & GAS
Rig Name:	248
Well Name:	LEVI GOODRICH UNIT 2 - 2H

		WEEK 1							WEEK 2							WEEK 3						
	Date	5/9/20	5/10/20	5/11/20	5/12/20	5/13/20	5/14/20	5/15/20	5/16/20	5/17/20	5/18/20	5/19/20	5/20/20	5/21/20	5/22/20	5/23/20	5/24/20	5/25/20	5/26/20	5/27/20	5/28/20	5/29/20
		Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri
	Bit Size	9 7/8	9 7/8	9 7/8	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4
Grand Totals	Starting Depth	3,000	4,915	10,102	10,284	10,284	10,284	10,380	11,970	11,970	14,305	15,905	16,662	16,940	16,027	16,029	16,029	16,029	16,029	16,029	11,100	11,100
	Ending Depth	4,915	10,102	10,284	10,284	10,284	10,380	11,970	11,970	14,305	15,905	16,662	16,940	16,027	16,029	16,029	16,029	16,029	16,029	11,100	11,100	11,100
13,942	Footage Drilled	1,915	5,187	182	-	-	96	1,590	-	2,335	1,600	757	278	-	2	-	-	-	-	-	-	-
985	New Hole Vol.	181	491	17	-	-	4	70	-	103	71	34	12	-	0	-	-	-	-	-	-	-
	Starting System Volume	2,395	2,448	2,477	2,020	2,436	2,738	2,755	2,753	2,348	2,141	715	1,829	1,664	2,075	1,555	2,403	1,971	2,857	3,290	2,975	2,894
98	Chemical Additions	11	17			6	4	8	1	25	11	-	-	2	-	-	-	-	5	4	-	2
2,192	Base Fluid Added	129	304	34	47	5	26	185	118	308	183	46	215	3	82	18	18	80	171	146	15	26
279	Barite Increase		28	10			7	26	26	2	29	-	8	-	-	-	20	28	14	22	14	7
6,236	Weighted Mud Added				421	291				208	-	744	-	526	-	916	782	1,537	811	-	-	-
-	Slurry Added										-	-	-	-	-	-	-	-	-	-	-	-
25,914	Water Added	16	56							107	384	10,371	1,590	11,756	500	279	200	91	564	-	-	-
191	Added for Washout	48	48	39							-	-	-	-	-	-	-	-	-	-	-	56
34,912	Total Additions	204	453	83	468	302	37	219	145	650	607	11,161	1,813	12,287	582	1,213	1,020	1,736	1,565	172	29	91
447	Surface Losses	7	23	74	10		16	40	30	30	-		-	-	-	-	-	-	-	217	-	-
30,802	Formation Loss			18				105	500	705	326	10,047	1,978	11,875	1,102	365	1,452	850	1,132	270	77	-
797	Mud Loss to Cuttings	132	383	19			4	76		108	75		-	-	-	-	-	-	-	-	-	-
338	Unrecoverable Volume			42	42				20		-		-	-	-	-	-	-	-	-	33	73
72	Centrifuge Losses	12	18	5						15	-		-	-	-	-	-	-	-	-	-	-
32,455	Total Losses	151	425	158	52	-	20	221	550	857	401	10,047	1,978	11,875	1,102	365	1,452	850	1,132	487	110	73
2,014	Mud Transferred Out			382							1,632											
2,838	Ending System Volume	2,448	2,477	2,020	2,436	2,738	2,755	2,753	2,348	2,141	715	1,829	1,664	2,075	1,555	2,403	1,971	2,857	3,290	2,975	2,894	2,912
130	Mud Recovered		130																			

6,617

Comments:		Comments:		Comments:	
5/9/20	Trans in 2101bbls skid vol. Casing had 293bbls F surface displacement. Mud lost to Cuttings 132.1bbls, Evap 6.6, Cent 12bbls	5/16/20	Mud Lost to partial losses due to seepage and trip surge 500-bbls, Evap 20-bbls, Pit Settlement 10-bbls and Tripping out 20-bbls	5/23/20	Pump Kill mud on back side, Pick up fishing tools and TIH. Tag fish and hook on to it. Start POOH.
5/10/20	Mud lost to Cuttings 383.4-bbls, Evap 23.2-bbls and Cent. 18-bbls. Mud recovered from, shaker tank runoff due to sweeps and ROC's 129.7-bbls	5/17/20	Mud Lost to Formation 705-bbls. Mud lost to Cuttings 108-bbls, Evap 19.56, Pits 10-bbls and Cent. 14.54bbls	5/24/20	Kill well with fishing tools in. Top of fish 11100'… Work fishing tools through 18* dog legs. Receive 782bbls OBM
5/11/20	Returned 382-bbls to Newpark. Mud Lost Cuttings 19-bbls, Cent 5-bbls, Evap 12.5, TOOH/TIH 35-bbls, Shaker Run off 42.2-bbls and Trucking 26-bbls	5/18/20	Drilling under Mud Cap. Fresh water pumped down hole to continue drilling.	5/25/20	POOH to reset fishing tools and TIH for fish (3rd attempt). Continue to Pump Down DP and back side to kill well. Received 1537bbls OBM.
5/12/20	Rec. 421-bbls 16.0 (KILL) lost 10-bbls to Trucking In… Mud lost to spacer contamination 42-bbls	5/19/20	Drilling under Mud Cap. Fresh water pumped down hole to continue drilling.	5/26/20	Jaring on stuck pipe. Mix Isolation sweep for intentionaly plug DP in the hole.
5/13/20	Lost 10.2-bbls to Pit Settlement	5/20/20	Side Track time drilling 16027. Continue pumping fresh water down hole with 13# mud cap on back side.	5/27/20	Un latch from fish, Circulate while increasing MW to 10.7ppg. Well continue to take mud. LCM mix in active system.Kill well POOH to shoe, pump balance plug to POOH and pick up stinger
5/14/20	Mud Lost to Cutting 3.5-bbls, Evap 6-bbls and Pit Settlement 10-bbls	5/21/20	Side Track time drilling 16027. Continue pumping fresh water down hole with 13# mud cap on back side.	5/28/20	POOH lay down Fishing tools. Pick up 2 7/8" stinger and TIH for set up of cement plug. Stage in the hole, circulating Surf. Surf every time.
5/15/20	Mud Lost to Cuttings 76-bbls, Evap 21-bbls, Pits 10-bbls Cent. 9-bbls. Patrial Losses to formation 105-bbls	5/22/20	Work stuck pipe free, Dry ream up to 15780, resume pump fresh water. Kill well and POOH.	5/29/20	Pump Cement plug. POOH 20stans and circulate Sur-surf. POOH lay down DP. Cut MW in the active system 9.8ppg.

OUTSOURCE FLUID SOLUTIONS LLC.

FLUID VOLUME ACCOUNTING

Operator:	MAGNOLIA OIL & GAS
Rig Name:	248
Well Name:	LEVI GOODRICH UNIT 2 - 2H

Grand Totals		WEEK 4							WEEK 5							WEEK 6						
	Date	5/30/20	5/31/20	6/1/20	6/2/20	6/3/20	6/4/20	6/5/20	6/6/20	6/7/20	6/8/20	6/9/20	6/10/20	6/11/20	6/12/20	6/13/20	6/14/20	6/15/20	6/16/20	6/17/20	6/18/20	6/19/20
		Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri
	Bit Size	6 3/4	6 3/4																			
	Starting Depth	11,100	11,100	10,170																		
	Ending Depth	11,100	10,170																			
13,942	Footage Drilled	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
985	New Hole Vol.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Starting System Volume	2,912	2,915	2,838	2,838	2,838	2,838	2,838	2,838	2,838	2,838	2,838	2,838	2,838	2,838	2,838	2,838	2,838	2,838	2,838	2,838	2,838
98	Chemical Additions	-	3																			
2,192	Base Fluid Added	18	16																			
279	Barite Increase	7	31																			
6,236	Weighted Mud Added	-	-																			
-	Slurry Added	-	-																			
25,914	Water Added	-	-																			
191	Added for Washout	-	-																			
34,912	Total Additions	25	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
447	Surface Losses	-	-																			
30,802	Formation Loss	-	-																			
797	Mud Loss to Cuttings	-	-																			
338	Unrecoverable Volume	-	128																			
72	Centrifuge Losses	22																				
32,455	Total Losses	22	128	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,014	Mud Transferred Out																					
2,838	Ending System Volume	2,915	2,838	2,838	2,838	2,838	2,838	2,838	2,838	2,838	2,838	2,838	2,838	2,838	2,838	2,838	2,838	2,838	2,838	2,838	2,838	2,838
130	Mud Recovered																					

6,617

Comments:		Comments:	Comments:
5/30/20	Finish lay down DP, Change out Drill line spool and Test BOP's. stage new DP on pipe racks for pick up .	6/6/20	6/13/20
5/31/20	TIH with new DP. Circulate top of the cement plug, Gas up 4000units. Condition MW to 11.1ppg. 127bbls lost below cement plug.	6/7/20	6/14/20
6/1/20		6/8/20	6/15/20
6/2/20		6/9/20	6/16/20
6/3/20		6/10/20	6/17/20
6/4/20		6/11/20	6/18/20
6/5/20		6/12/20	6/19/20

5/31/2020 **Report 30 pm**

110 Old Market St.
St Martinville, LA 70582

TEL: (337) 394-1078

0.3° **100' TVD**

Operator	Contractor	County / Parish / Block	Engineer Start Date	24 hr ftg.	Drilled Depth
MAGNOLIA OIL & GAS	**PATTERSON**	**WASHINGTON**	**04/22/20**		**10,375 ft**
Well Name and No.	Rig Name and No.	State	Spud Date	Current ROP	Activity
LEVI GOODRICH UNIT 2 - 2H	**248**	**TEXAS**	**04/26/20**		**MU DIR BHA**
Report for	Report for	Field / OSC-G #	Fluid Type	Circulating Rate	Circulating Pressure
Bobby Gwinn/James Dyer	**Tool Pusher**	**GIDDINGS**	**OBM**	**192 gpm**	

MUD PROPERTY SPECIFICATIONS						
Weight	PV	YP	E.S.	CaCl2	GELS	HTHP
9-17	**8-35**	**4-18**	**>400**	**±240K**	**<10 <25**	**<10**

MUD PROPERTIES				
Time Sample Taken		2:00		15:30
Sample Location		ACTIVE		ACTIVE
Flowline Temperature °F		120 °F		
Depth (ft)		10,047'		10,375'
Mud Weight (ppg)		11.1		11.1
Funnel Vis (sec/qt)	@ 110 °F	44		45
600 rpm		33		31
300 rpm		21		20
200 rpm		18		16
100 rpm		10		11
6 rpm		6		6
3 rpm		4		5
Plastic Viscosity (cp)	@ 150 °F	12		11
Yield Point (lb/100 ft²)	T0 = 2	9		9
Gel Strength (lb/100 ft²)	10 sec / 10 min	6/10		5/8
Gel Strength (lb/100 ft2)	30 min	14		11
HTHP Filtrate (cm/30 min)	@ 300 °F	10.0		9.0
HTHP Cake Thickness (32nds)		2.0		2.0
Retort Solids Content		18%		18%
Corrected Solids (vol%)		16.4%		16.5%
Retort Oil Content		62%		62%
Retort Water Content		20%		20%
O/W Ratio		76:24		76:24
Whole Mud Chlorides (mg/L)		41,000		40,000
Water Phase Salinity (ppm)		243,260		238,743
Whole Mud Alkalinity, Pom		2.0		2.1
Excess Lime (lb/bbl)		2.6 ppb		2.7 ppb
Electrical Stability (volts)		455 v		410 v
Average Specific Gravity of Solids		3.34		3.33
Percent Low Gravity Solids		7.1%		7.2%
ppb Low Gravity Solids		59 ppb		59 ppb
Percent Barite		9.2%		9.3%
ppb Barite		133 ppb		133 ppb
Estimated Total LCM in System				
Sample Taken By		A. Roman		M Washburn

MUD VOLUME (BBL)		PUMP #1		PUMP #2		RISER BOOSTER
In Pits	777 bbl	Liner Size	5.25	Liner Size	5.25	Liner Size
In Hole	476 bbl	Stroke	12	Stroke	12	Stroke
Active	781 bbl	bbl/stk	0.0763	bbl/stk	0.0763	bbl/stk
Storage	1654 bbl	stk/min	60	stk/min		stk/min
Tot. on Location	2907 bbl	gal/min	192	gal/min		gal/min

Mud Wt. = 11.1 PV=12 YP=9 **CIRCULATION DATA** n = 0.652 K = 183.5

Bit Depth = 100 ' | Washout = | Pump Efficiency = 95%

Drill String Disp.							
0.5 bbl	Volume to Bit	1.4 bbl	Strokes To Bit	19	Time To Bit	0 min
	Bottoms Up Vol.	2.6 bbl	BottomsUp Stks	34	BottomsUp Time	1 min
	TotalCirc.Vol.	781.0 bbl	TotalCirc.Stks	10,235	Total Circ. Time	171 min

DRILLING ASSEMBLY DATA

Tubulars	OD (in.)	ID (in.)	Length	Top
Drill Pipe	4.500	3.826	100'	
				100'
				100'
				100'

CASING & HOLE DATA

Casing	OD (in.)	ID (in.)	Depth	Top
Riser				
Surface	10 1/2		2,991'	
Int. Csg.	7 5/8	6.875	10,273'	
Open Hole Size	6.750		10,375'	

ANNULAR GEOMETRY & RHEOLOGY

annular section	depth	velocity ft/min	flow reg	ECD lb/gal
6.875x4.5	100'	174.5	lam	11.51

BIT DATA Manuf./Type HAL SR1R

Size	Depth In	Hours	Footage	ROP ft/hr	Motor/MWD	Calc. Circ. Pressure
6 3/4						55 psi

SOLIDS CONTROL

Unit	Screens	Hours
Shaker 1	170	
Shaker 2	170	
Shaker 3	170	
Centrifuge 1		

VOLUME ACCOUNTING (bbls)

Prev. Total on Location	2838.0
Transferred In(+)/Out(-)	
Oil Added (+)	
Barite Added (+)	
Other Product Usage (+)	
Water Added (+)	
Left on Cuttings (-)	
Gain F/Cement	
Non-Recoverable Vol. (-)	
Est. Total on Location	2838.0
Est. Losses/Gains (-)/(+)	68.6

BIT HYDRAULICS DATA

Bit H.S.I.	Bit ΔP	Nozzles (32nds)		
0.14	45 psi	20	20	20
Bit Impact Force	Nozzle Velocity (ft/sec)			
74 lbs	67			

Afternoon Remarks/Recommendations:

Afternoon Rig Activity:

Trip in hole, wash and ream from 9735 to 9965, drill cement from 9965 to 1047, circulate out gas thru choke increase mud wt from 9.8 to 11.1, drill cement from 10047 to 10274, circulate bottoms up thru choke, drill cement from 1024 to 10375, circulate and maintain 11.1 mud wt, check flow, slug pipe and pull out of hole for directional BHA. Added barite, lime, CaCL2 to maintain concentrations and Bentone clay while weighting up for barite suspension. Trip depth at time of report is 100'.

06/01/20 **Report #31**

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

OUTSOURCE FLUID SOLUTIONS LLC.

47.5° **10,326' TVD**

Operator	Contractor	County / Parish / Block	Engineer Start Date	24 hr ftg.	Drilled Depth
MAGNOLIA OIL & GAS	**PATTERSON**	**WASHINGTON**	**04/22/20**	**49 ft**	**10,424 ft**
Well Name and No.	Rig Name and No.	State	Spud Date	Current ROP	Activity
LEVI GOODRICH UNIT 2 - 2H	**248**	**TEXAS**	**04/26/20**	**8 ft/hr**	**Time Drilling**
Report for	Report for	Field / OCS-G #	Fluid Type	Circulating Rate	Circulating Pressure
Bobby Gwinn/James Dyer	**Tool Pusher**	**GIDDINGS**	**OBM**	**272 gpm**	**2,560 psi**

MUD PROPERTY SPECIFICATIONS						
Weight	PV	YP	E.S.	CaCl2	GELS	HTHP
9-17	**8-35**	**4-18**	**>400**	**±245K**	**<10 <25**	**<10**
				6/1/20		5/30/20
Time Sample Taken				2:00		15:30
Sample Location				ACTIVE		ACTIVE
Flowline Temperature °F				130 °F		
Depth (ft)				10,423'		10,375'
Mud Weight (ppg)				11.1		11.1
Funnel Vis (sec/qt)			@ 110 °F	48		45
600 rpm				35		31
300 rpm				22		20
200 rpm				18		16
100 rpm				12		11
6 rpm				7		6
3 rpm				6		5
Plastic Viscosity (cp)			@ 150 °F	13		11
Yield Point (lb/100 ft²)			T0 = 5	9		9
Gel Strength (lb/100 ft²)			10 sec/10 min	6/11		5/8
Gel Strength (lb/100 ft^2)			30 min	14		11
HTHP Filtrate (cm/30 min)			@ 300 °F	8.0		9.0
HTHP Cake Thickness (32nds)				2.0		2.0
Retort Solids Content				17%		18%
Corrected Solids (vol%)				15.3%		16.5%
Retort Oil Content				63%		62%
Retort Water Content				20%		20%
O/W Ratio				76:24		76:24
Whole Mud Chlorides (mg/L)				42,000		40,000
Water Phase Salinity (ppm)				247,723		238,743
Whole Mud Alkalinity, Pom				2.4		2.1
Excess Lime (lb/bbl)				3.1 ppb		2.7 ppb
Electrical Stability (volts)				460 v		410 v
Average Specific Gravity of Solids				3.53		3.33
Percent Low Gravity Solids				5%		7.2%
ppb Low Gravity Solids				41 ppb		59 ppb
Percent Barite				10.4%		9.3%
ppb Barite				149 ppb		133 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	790 bbl	Liner Size	5.25	Liner Size	5.25	Liner Size	
In Hole	419 bbl	Stroke	12	Stroke	12	Stroke	
Active	1209 bbl	bbl/stk	0.0763	bbl/stk	0.0763	bbl/stk	0.0000
Storage	1654 bbl	stk/min	0	stk/min	85	stk/min	
Tot. on Location	2863 bbl	gal/min	0	gal/min	272	gal/min	0

CIRCULATION DATA

PHHP = 407 n = 0.670 K = 172.089

Bit Depth = 10,424 ' Washout = 2% Pump Efficiency = 95%

Drill String Disp.							
59.2 bbl	Volume to Bit	146.8 bbl	Strokes To Bit	1,924	Time To Bit	23 min
	Bottoms Up Vol.	272.6 bbl	BottomsUp Stks	3,572	BottomsUp Time	42 min
	TotalCirc.Vol.	1209.4 bbl	TotalCirc.Stks	15,849	Total Circ. Time	186 min

DRILLING ASSEMBLY DATA

Tubulars	OD (in.)	ID (in.)	Length	Top
Drill Pipe	4.500	3.826	7,688'	0'
Agitator	4.500	3.000	37'	7,688'
Drill Pipe	4.500	3.826	2,553'	7,725'
Dir. BHA	5.250	2.500	145'	10,279'

CASING & HOLE DATA

Casing	OD (in.)	ID (in.)	Depth	Top
Riser	0		0'	
Surface	10 1/2		2,991'	0'
Int. Csg.	7 5/8	6.875	10,273'	0'

Open Hole Size 6.885 10,424'

ANNULAR GEOMETRY & RHEOLOGY

annular section	meas. depth	velocity ft/min	flow reg	ECD lb/gal
6.875x4.5	7,688'	247.2	turb	11.67
6.875x4.5	7,725'	247.2	turb	11.68
6.875x4.5	10,273'	247.2	turb	11.68
6.885x4.5	10,279'	245.9	turb	11.69
6.885x5.25	10,424'	336.5	turb	11.71

BIT DATA Manuf./Type Ulterra/U611s

Size	Depth In	Hours	Footage	ROP ft/hr
6 3/4	10,375 ft	6.0	49 ft	8.2

SOLIDS CONTROL

Unit	Screens	Hours
Shaker 1	170	12.0
Shaker 2	170	12.0
Shaker 3	170	12.0
Centrifuge 1		

VOLUME ACCOUNTING (bbls)

Prev. Total on Location	2838.0
Transferred In(+)/Out(-)	
Oil Added (+)	24.6
Barite Added (+)	0.0
Other Product Usage (+)	12.0
Water Added (+)	24.0
Left on Cuttings (-)	-2.3
Non-Recoverable Vol. (-)	-33.0
Est. Total on Location	2863.4
Est. Losses/Gains (-)/(+)	0.0

BIT HYDRAULICS DATA

Bit H.S.I.	Bit ΔP	Nozzles (32nds)		
0.24	54 psi	18	15	15
Bit Impact Force	Nozzle Velocity (ft/sec)	16	16	16
116 lbs	74			

Motor/MWD	Calc. Circ. Pressure
2,240 psi	3,143 psi

Remarks/Recommendations:

OBM RECEIVED: (8,400) bbls

OBM ON SURFACE TANKS--2,444 bbls (storage + Active)

TOTAL OBM ON LOCATION: 2863BBLS

OBM Kill mud on Hand----361bbls //14.4# // $65.00/bbl

Discounted OBM on hand -(895bbl--12.5#)(398bbl--10#) // $15.00/bbl

Rig Activity:

Drill on Cement plug down to 10,375'. Pump Slug and POOH to lay down Bit and Bit sub, and Pick up Directional tools for side track. TIH @ 10295 install rotating head, continue to wash and ream down to 10375' to resume drilling. Commence Time Drilling for side track. Mud Weight maintain at 11.1ppg, and resume conservative treatment with Lime for Alkalinity, CaCl2 for WPS. Additions of Opti G and NewPhalt to reduce Fluid Loss and Bentone to increase Pv & Yp as per specs recommended. Diesel and Water additions to offset evaporation and for dilution.

Eng. 1:	Eng. 2:	WH 1:	WH 2:	Rig Phone:
Matt Meehan	Adolfo Roman	MIDLAND	WH #2	
Phone: 985-351-7561	Phone: 956-821-9994	Phone: 432-685-4023	Phone: -	

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

	Daily Total	Cumulative Cost
	$7,957.86	**$528,332.18**
INCLUDING 3RD PARTY CHARGES	**$9,101.42**	**$638,794.76**

OUTSOURCE FLUID SOLUTIONS LLC.

MATERIAL CONSUMPTION

Date	Operator	Well Name and No.	Rig Name and No.	Report No.
06/01/20	MAGNOLIA OIL & GAS	LEVI GOODRICH UNIT 2 - 2H	248	Report #31

DAILY USAGE & COST								CUMULATIVE	
Item	Unit	Unit Cost	Previous Inventory	Received	Closing Inventory	Daily Usage	Daily Cost	Cum Usage	Cum Cost
ALUMINUM TRISTEARATE	25# sk	$162.83							
SAPP (50)	50# sk	$44.50						31	$1,379.50
PHPA LIQUID (pail)	5 gal	$41.36						2	$82.72
DYNA DET	pail	$32.23						4	$128.92
DYNAFIBER C	25# sk	$53.67	70		70			18	$966.06
DYNAFIBER MED	25# sk	$53.67	120		120				
FIBER PLUG	40# sk	$30.37	30		30			10	$303.70
CACL2 (50)	50# sk	$16.60	200		170	30	$498.00	403	$6,689.80
LIME (50)	50# sk	$5.00	200		170	30	$150.00	380	$1,900.00
BENTONE 910 (50)	50# sk	$59.94	49		40	9	$539.46	30	$1,798.20
BENTONE 990 (50)	50# sk	$83.59	40		40			40	$3,343.60
OPTI G	50# sk	$30.59	140		110	30	$917.70	130	$3,976.70
OPTI MUL HP	gal	$10.75	550		550			375	$4,031.25
OPTI WET	gal	$8.34	460		440	20	$166.80	375	$3,127.50
NEW PHALT	50# sk	$38.72	90		70	20	$774.40	90	$3,484.80
NEWCARB 200	50# sk	$5.25	72		72			98	$514.50
MAGMAFIBER F (25)	25# sk	$28.05	48		48			146	$4,095.30
OIL SORB (25)	25# sk	$4.75	40		40				
PHPA LIQUID (pail)	5 gal	$41.36	88		88			9	$372.24
GEL (100)	100# sk		70		70				
BENTONE 38 (50)	50# sk	$163.94	20		20			20	$3,278.80
CYBERSEAL	25# sk	$21.47	240		240			8	$171.76
Evo-Lube	gal	$9.31	975		975			125	$1,163.75
CAL CARB COARSE (50)	50# sk	$5.37	120		120				
MAGMAFIBER R (30)	30# sk	$28.05	80		80				
NEW-WATE (SACK BARITE)	100# sk	$11.50	160		160				
BARITE BULK (100)	100# sk	$7.00	350	1200	1550			4016	$28,112.00
OPTI DRILL (OBM)	bbl	$65.00	890		890			5526	$359,190.00
Magnolia Owned OBM	bbl		1034		1034			204	
Discounted High LGS OBM	bbl	$15.00	914		914			1716	$25,740.00
ENGINEERING (24 HR)	each	$925.00				2	$1,850.00	58	$53,650.00
ENGINEERING (DIEM)	bbl	$30.00				2	$60.00	58	$1,740.00
ENGINEERING (MILES)	each	$1.00						1049	$1,049.00
TRUCKING (cwt)	each	$2.50				1201	$3,001.50	6000	$15,000.08
TRUCKING (min)	each	$795.00						2	$1,590.00
PALLETS (ea)	each	$12.00						62	$744.00
SHRINK WRAP (ea)	each	$12.00						59	$708.00
		Daily Sub-Total $7,957.86			**Cumulative Total $528,332.18**			**$528,332.18**	

THIRD PARTY COST SHEET

Date	Operator	Well Name and No.	Rig Name and No.	Report No.
06/01/20	MAGNOLIA OIL & GAS	LEVI GOODRICH UNIT 2 - 2H	248	Report #31

DAILY USAGE & COST								CUMULATIVE	
Item	Unit	Unit Cost	Previous Inventory	Received	Closing Inventory	Daily Usage	Daily Cost	Cum Usage	Cum Cost
Diesel 4/25/20	gal	$0.91							
Diesel 5/6/20	gal	$0.90						5040	$4,536.00
Diesel 5/8/20	gal	$0.93						7302	$6,790.86
Diesel 5/9/20	gal	$0.96						7006	$6,725.76
Diesel 5/10/20	gal	$0.97						7300	$7,081.00
Diesel 5/14/20	gal	$0.98						7400	$7,252.00
Diesel 5/15/20	gal	$0.97						6750	$6,547.50
Diesel 5/16/20	gal	$1.03						7100	$7,313.00
Diesel 5/17/20	gal	$1.03						7634	$7,863.02
Diesel 5/17/20 Load #2	gal	$1.03						7402	$7,624.06
Diesel 5/19/ 20	gal	$1.06						6221	$6,594.26
Diesel 5/19/20	gal	$1.06						7301	$7,739.06
TurboChem First Response	each	$41.75	285		285			215	$8,976.25
TurboChem Pallets	each	$20.00	8		8			2	$40.00
TurboChem Shrink Wrap	each	$20.00	8		8			2	$40.00
Diesel 5/22/20	gal	$1.11						5545	$6,154.95
DIESEL 5/25/20	gal	$1.12						7404	$8,292.48
DIESEL 05/26/20	gal	$1.12						7201	$8,065.12
DIESEL 05/26/20	gal	$1.13	5712		4700	1012	$1,143.56	2502	$2,827.26

Daily Sub-Total $1,143.56

$110,462.58

Cumulative Total AES & 3rd Party $638,794.76

OUTSOURCE FLUID SOLUTIONS LLC.

FLUID VOLUME ACCOUNTING

Operator:	MAGNOLIA OIL & GAS
Rig Name:	248
Well Name:	LEVI GOODRICH UNIT 2 - 2H

		WEEK 1							WEEK 2							WEEK 3						
	Date	5/9/20	5/10/20	5/11/20	5/12/20	5/13/20	5/14/20	5/15/20	5/16/20	5/17/20	5/18/20	5/19/20	5/20/20	5/21/20	5/22/20	5/23/20	5/24/20	5/25/20	5/26/20	5/27/20	5/28/20	5/29/20
		Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri
	Bit Size	9 7/8	9 7/8	9 7/8	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4
Grand Totals	Starting Depth	3,000	4,915	10,102	10,284	10,284	10,284	10,380	11,970	11,970	14,305	15,905	16,662	16,940	16,027	16,029	16,029	16,029	16,029	16,029	11,100	11,100
	Ending Depth	4,915	10,102	10,284	10,284	10,284	10,380	11,970	11,970	14,305	15,905	16,662	16,940	16,027	16,029	16,029	16,029	16,029	16,029	11,100	11,100	11,100
14,196	Footage Drilled	1,915	5,187	182	-	-	96	1,590	-	2,335	1,600	757	278	-	2	-	-	-	-	-	-	-
997	New Hole Vol.	182	491	17	-	-	4	70	-	103	71	34	12	-	0	-	-	-	-	-	-	-
	Starting System Volume	2,395	2,448	2,477	2,020	2,436	2,738	2,755	2,753	2,348	2,141	715	1,829	1,664	2,075	1,555	2,403	1,971	2,857	3,290	2,975	2,894
110	Chemical Additions	11	17			6	4	8	1	25	11	-	-	2	-	-	-	-	5	4	-	2
2,217	Base Fluid Added	129	304	34	47	5	26	185	118	308	183	46	215	3	82	18	18	80	171	146	15	26
279	Barite Increase		28	10			7	26	26	2	29	-	8	-	-	-	20	28	14	22	14	7
6,236	Weighted Mud Added				421	291				208	-	744	-	526	-	916	782	1,537	811	-	-	-
-	Slurry Added										-	-	-	-	-	-	-	-	-	-	-	-
25,938	Water Added	16	56							107	384	10,371	1,590	11,756	500	279	200	91	564	-	-	-
191	Added for Washout	48	48	39							-	-	-	-	-	-	-	-	-	-	-	56
34,973	Total Additions	204	453	83	468	302	37	219	145	650	607	11,161	1,813	12,287	582	1,213	1,020	1,736	1,565	172	29	91
480	Surface Losses	7	23	74	10		16	40	30	30	-		-	-	-	-	-	-	-	217	-	-
30,802	Formation Loss			18				105	500	705	326	10,047	1,978	11,875	1,102	365	1,452	850	1,132	270	77	-
799	Mud Loss to Cuttings	132	383	19			4	76		108	75		-	-	-	-	-	-	-	-	-	-
338	Unrecoverable Volume			42	42				20		-		-	-	-	-	-	-	-	-	33	73
72	Centrifuge Losses	12	18	5						15	-		-	-	-	-	-	-	-	-	-	-
32,490	Total Losses	151	425	158	52	-	20	221	550	857	401	10,047	1,978	11,875	1,102	365	1,452	850	1,132	487	110	73
2,014	Mud Transferred Out			382							1,632											
2,863	Ending System Volume	2,448	2,477	2,020	2,436	2,738	2,755	2,753	2,348	2,141	715	1,829	1,664	2,075	1,555	2,403	1,971	2,857	3,290	2,975	2,894	2,912
130	Mud Recovered		130																			

6,617

Comments:		Comments:		Comments:	
5/9/20	Trans in 2101bbls skid vol. Casing had 293bbls F surface displacement. Mud lost to Cuttings 132.1bbls, Evap 6.6, Cent 12bbls	5/16/20	Mud Lost to partial losses due to seepage and trip surge 500-bbls, Evap 20-bbls, Pit Settlement 10-bbls and Tripping out 20-bbls	5/23/20	Pump Kill mud on back side, Pick up fishing tools and TIH. Tag fish and hook on to it. Start POOH.
5/10/20	Mud lost to Cuttings 383.4-bbls, Evap 23.2-bbls and Cent. 18-bbls. Mud recovered from, shaker tank runoff due to sweeps and ROC's 129.7-bbls	5/17/20	Mud Lost to Formation 705-bbls. Mud lost to Cuttings 108-bbls, Evap 19.56, Pits 10-bbls and Cent. 14.54bbls	5/24/20	Kill well with fishing tools in. Top of fish 11100'… Work fishing tools through 18* dog legs. Receive 782bbls OBM
5/11/20	Returned 382-bbls to Newpark. Mud Lost Cuttings 19-bbls, Cent 5-bbls, Evap 12.5, TOOH/TIH 35-bbls, Shaker Run off 42.2-bbls and Trucking 26-bbls	5/18/20	Drilling under Mud Cap. Fresh water pumped down hole to continue drilling.	5/25/20	POOH to reset fishing tools and TIH for fish (3rd attempt). Continue to Pump Down DP and back side to kill well. Received 1537bbls OBM.
5/12/20	Rec. 421-bbls 16.0 (KILL) lost 10-bbls to Trucking In… Mud lost to spacer contamination 42-bbls	5/19/20	Drilling under Mud Cap. Fresh water pumped down hole to continue drilling.	5/26/20	Jaring on stuck pipe. Mix Isolation sweep for intentionaly plug DP in the hole.
5/13/20	Lost 10.2-bbls to Pit Settlement	5/20/20	Side Track time drilling 16027. Continue pumping fresh water down hole with 13# mud cap on back side.	5/27/20	Un latch from fish, Circulate while increasing MW to 10.7ppg. Well continue to take mud. LCM mix in active system.Kill well POOH to shoe, pump balance plug to POOH and pick up stinger
5/14/20	Mud Lost to Cutting 3.5-bbls, Evap 6-bbls and Pit Settlement 10-bbls	5/21/20	Side Track time drilling 16027. Continue pumping fresh water down hole with 13# mud cap on back side.	5/28/20	POOH lay down Fishing tools. Pick up 2 7/8" stinger and TIH for set up of cement plug. Stage in the hole, circulating Surf. Surf every time.
5/15/20	Mud Lost to Cuttings 76-bbls, Evap 21-bbls, Pits 10-bbls Cent. 9-bbls. Patrial Losses to formation 105-bbls	5/22/20	Work stuck pipe free, Dry ream up to 15780, resume pump fresh water. Kill well and POOH.	5/29/20	Pump Cement plug. POOH 20stans and circulate Sur-surf. POOH lay down DP. Cut MW in the active system 9.8ppg.

OUTSOURCE FLUID SOLUTIONS LLC.

FLUID VOLUME ACCOUNTING

Operator:	MAGNOLIA OIL & GAS
Rig Name:	248
Well Name:	LEVI GOODRICH UNIT 2 - 2H

Grand Totals		WEEK 4							WEEK 5							WEEK 6						
	Date	5/30/20	5/31/20	6/1/20	6/2/20	6/3/20	6/4/20	6/5/20	6/6/20	6/7/20	6/8/20	6/9/20	6/10/20	6/11/20	6/12/20	6/13/20	6/14/20	6/15/20	6/16/20	6/17/20	6/18/20	6/19/20
		Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri
	Bit Size	6 3/4	6 3/4	6 3/4																		
	Starting Depth	11,100	11,100	10,170	10,424																	
	Ending Depth	11,100	10,170	10,424																		
14,196	Footage Drilled	-	-	254	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
997	New Hole Vol.	-	-	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Starting System Volume	2,912	2,915	2,838	2,863	2,863	2,863	2,863	2,863	2,863	2,863	2,863	2,863	2,863	2,863	2,863	2,863	2,863	2,863	2,863	2,863	2,863
110	Chemical Additions	-	3	12																		
2,217	Base Fluid Added	18	16	25																		
279	Barite Increase	7	31	-																		
6,236	Weighted Mud Added	-	-	-																		
-	Slurry Added	-	-	-																		
25,938	Water Added	-	-	24																		
191	Added for Washout	-	-	-																		
34,973	Total Additions	25	50	61	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
480	Surface Losses	-	-	33																		
30,802	Formation Loss	-	-	-																		
799	Mud Loss to Cuttings	-	-	2																		
338	Unrecoverable Volume	-	128	-																		
72	Centrifuge Losses	22		-																		
32,490	Total Losses	22	128	35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,014	Mud Transferred Out																					
2,863	Ending System Volume	2,915	2,838	2,863	2,863	2,863	2,863	2,863	2,863	2,863	2,863	2,863	2,863	2,863	2,863	2,863	2,863	2,863	2,863	2,863	2,863	2,863
130	Mud Recovered																					

6,617

Comments:		Comments:	Comments:
5/30/20	Finish lay down DP, Change out Drill line spool and Test BOP's. stage new DP on pipe racks for pick up .	6/6/20	6/13/20
5/31/20	TIH with new DP. Circulate top of the cement plug, Gas up 4000units. Condition MW to 11.1ppg. 127bbls lost below cement plug.	6/7/20	6/14/20
6/1/20	POOH to change out BHA. TIH resume drilling on side track. Maintain MW 11.1ppg.	6/8/20	6/15/20
6/2/20		6/9/20	6/16/20
6/3/20		6/10/20	6/17/20
6/4/20		6/11/20	6/18/20
6/5/20		6/12/20	6/19/20

6/1/2020 **Report 31 pm**

110 Old Market St.
St Martinville, LA 70582

TEL: (337) 394-1078

47.7° **10,334' TVD**

Operator	Contractor	County / Parish / Block	Engineer Start Date	24 hr ftg.	Drilled Depth
MAGNOLIA OIL & GAS	**PATTERSON**	**WASHINGTON**	**04/22/20**	**62 ft**	**10,437 ft**
Well Name and No.	Rig Name and No.	State	Spud Date	Current ROP	Activity
LEVI GOODRICH UNIT 2 - 2H	**248**	**TEXAS**	**04/26/20**	**2 ft/hr**	**DRLG CURVE**
Report for	Report for	Field / OSC-G #	Fluid Type	Circulating Rate	Circulating Pressure
Bobby Gwinn/James Dyer	**Tool Pusher**	**GIDDINGS**	**OBM**	**545 gpm**	**2,500 psi**

MUD PROPERTY SPECIFICATIONS

Weight	PV	YP	E.S.	CaCl2	GELS	HTHP
9-17	**8-35**	**4-18**	**>400**	**±245K**	**<10 <25**	**<10**

MUD PROPERTIES				
Time Sample Taken	2:00		12:30
Sample Location	ACTIVE		shaker
Flowline Temperature °F	130 °F		129 °F
Depth (ft)	10,423'		10,433'
Mud Weight (ppg)	11.1		11.1
Funnel Vis (sec/qt) @ 110 °F	48		46
600 rpm	35		32
300 rpm	22		21
200 rpm	18		17
100 rpm	12		11
6 rpm	7		7
3 rpm	6		6
Plastic Viscosity (cp) @ 150 °F	13		11
Yield Point (lb/100 ft²) T0 = 5	9		10
Gel Strength (lb/100 ft²) 10 sec / 10 min	6/11		6/9
Gel Strength (lb/100 ft2) 30 min	14		12
HTHP Filtrate (cm/30 min) @ 300 °F	8.0		6.5
HTHP Cake Thickness (32nds)	2.0		2.0
Retort Solids Content	17%		17.5%
Corrected Solids (vol%)	15.3%		15.9%
Retort Oil Content	63%		63.5%
Retort Water Content	20%		19%
O/W Ratio	76:24		77:23
Whole Mud Chlorides (mg/L)	42,000		41,000
Water Phase Salinity (ppm)	247,723		252,826
Whole Mud Alkalinity, Pom	2.4		2.3
Excess Lime (lb/bbl)	3.1 ppb		3 ppb
Electrical Stability (volts)	460 v		495 v
Average Specific Gravity of Solids	3.53		3.42
Percent Low Gravity Solids	5%		6.1%
ppb Low Gravity Solids	41 ppb		50 ppb
Percent Barite	10.4%		9.8%
ppb Barite	149 ppb		140 ppb
Estimated Total LCM in System			
Sample Taken By	A. Roman		M Washburn

MUD VOLUME (BBL)

In Pits	790 bbl
In Hole	420 bbl
Active	1210 bbl
Storage	1654 bbl
Tot. on Location	2864 bbl

PUMP #1

Liner Size	5.25
Stroke	12
bbl/stk	0.0763
stk/min	85
gal/min	272

PUMP #2

Liner Size	5.25
Stroke	12
bbl/stk	0.0763
stk/min	85
gal/min	272

RISER BOOSTER

Liner Size
Stroke
bbl/stk
stk/min
gal/min

Mud Wt. = 11.1 PV=13 YP=9 **CIRCULATION DATA** n = 0.670 K = 172.1

Bit Depth = 10,437 ' Washout = 2% Pump Efficiency = 95%

Drill String Disp.							
59.3 bbl	Volume to Bit	147.0 bbl	Strokes To Bit	1,927	Time To Bit	11 min
	Bottoms Up Vol.	272.9 bbl	BottomsUp Stks	3,576	BottomsUp Time	21 min
	TotalCirc.Vol.	1209.9 bbl	TotalCirc.Stks	15,856	Total Circ. Time	93 min

DRILLING ASSEMBLY DATA

Tubulars	OD (in.)	ID (in.)	Length	Top
Drill Pipe	4.500	3.826	7,701'	
Agitator	4.500	3.000	37'	7,701'
Drill Pipe	4.500	3.826	2,553'	7,738'
Dir. BHA	5.250	2.500	145'	10,292'

CASING & HOLE DATA

Casing	OD (in.)	ID (in.)	Depth	Top
Riser				
Surface	10 1/2		2,991'	
Int. Csg.	7 5/8	6.875	10,273'	
Open Hole Size	6.885		10,437'	

ANNULAR GEOMETRY & RHEOLOGY

annular section	depth	velocity ft/min	flow reg	ECD lb/gal
6.875x4.5	7,701'	494.3	turb	12.90
6.875x4.5	7,738'	494.3	turb	12.90
6.875x4.5	10,273'	494.3	turb	12.90
6.885x4.5	10,292'	491.8	turb	12.90
6.885x5.25	10,437'	673.1	turb	12.95

BIT DATA Manuf./Type Ulterra/U611s

Size	Depth In	Hours	Footage	ROP ft/hr
6 3/4	10,375 ft	6.0	49 ft	8.2

SOLIDS CONTROL

Unit	Screens	Hours
Shaker 1	170	
Shaker 2	170	
Shaker 3	170	
Centrifuge 1		

VOLUME ACCOUNTING (bbls)

Prev. Total on Location	2863.4
Transferred In(+)/Out(-)	
Oil Added (+)	
Barite Added (+)	
Other Product Usage (+)	
Water Added (+)	
Left on Cuttings (-)	-2.9
Non-Recoverable Vol. (-)	
Est. Total on Location	2860.5
Est. Losses/Gains (-)/(+)	3.4

BIT HYDRAULICS DATA

Bit H.S.I.	Bit ΔP	Nozzles (32nds)		
1.93	218 psi	18	15	15
Bit Impact Force	Nozzle Velocity (ft/sec)	16	16	16
465 lbs	148			

Motor/MWD	Calc. Circ. Pressure
2,240 psi	5,314 psi

Afternoon Remarks/Recommendations:

Afternoon Rig Activity:

Drilling curve for sidetrack. From 10375 to 10434 time drill at 1 ft/hr, at 10434 increase to 2 ft/hr. Adding diesel for oil wetting of solids, dilution and volume maintenance, water for evaporation replacment to maintain OWR, OPTIMUL HP and lime for ES and alkalinity. Continue with incremental additions of OPTIG gilsonite and NEWPHALT sulfonated asphalt for wellbore stability and to reduce HTHP.

06/02/20 **Report #32**

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

OUTSOURCE FLUID SOLUTIONS LLC.

0.0° **11,026' TVD**

Operator	Contractor	County / Parish / Block	Engineer Start Date	24 hr ftg.	Drilled Depth
MAGNOLIA OIL & GAS	**PATTERSON**	**WASHINGTON**	**04/22/20**	**602 ft**	**11,026 ft**
Well Name and No.	Rig Name and No.	State	Spud Date	Current ROP	Activity
LEVI GOODRICH UNIT 2 - 2H	**248**	**TEXAS**	**04/26/20**	**2 ft/hr**	**DRLG CURVE**
Report for	Report for	Field / OCS-G #	Fluid Type	Circulating Rate	Circulating Pressure
Bobby Gwinn/James Dyer	**Tool Pusher**	**GIDDINGS**	**OBM**	**404 gpm**	**4,590 psi**

MUD PROPERTY SPECIFICATIONS							MUD VOLUME (BBL)		PUMP #1		PUMP #2		RISER BOOSTER	
Weight	PV	YP	E.S.	CaCl2	GELS	HTHP	In Pits	791 bbl	Liner Size	5.25	Liner Size	5.25	Liner Size	
9-17	**8-35**	**4-18**	**>400**	**±245K**	**<10 <25**	**<10**	In Hole	444 bbl	Stroke	12	Stroke	12	Stroke	
				6/2/20		6/1/20	Active	1235 bbl	bbl/stk	0.0763	bbl/stk	0.0763	bbl/stk	0.0000
Time Sample Taken				3:00		12:30	Storage	1654 bbl	stk/min	63	stk/min	63	stk/min	
Sample Location				ACTIVE		shaker	Tot. on Location	2889 bbl	gal/min	202	gal/min	202	gal/min	0

Flowline Temperature °F				150 °F		129 °F	PHHP = 1081		**CIRCULATION DATA**						n = 0.659	K = 159.065
Depth (ft)				10,946'		10,433'	Bit Depth = 11,026 '				Washout = 2%				Pump Efficiency = 95%	
Mud Weight (ppg)				10.5		11.1	Drill String Disp.	Volume to Bit	155.4 bbl		Strokes To Bit	2,036		Time To Bit	16 min	
Funnel Vis (sec/qt)		@ 120 °F		45		46		Bottoms Up Vol.	288.4 bbl		BottomsUp Stks	3,780		BottomsUp Time	30 min	
600 rpm				30		32	62.5 bbl	TotalCirc.Vol.	1234.8 bbl		TotalCirc.Stks	16,182		Total Circ. Time	128 min	
300 rpm				19		21	**DRILLING ASSEMBLY DATA**						**SOLIDS CONTROL**			
200 rpm				14		17	Tubulars	OD (in.)	ID (in.)	Length	Top		Unit	Screens	Hours	
100 rpm				10		11	Drill Pipe	4.500	3.826	8,290'	0'		Shaker 1	170	24.0	
6 rpm				6		7	Agitator	4.500	3.000	37'	8,290'		Shaker 2	170	24.0	
3 rpm				5		6	Drill Pipe	4.500	3.826	2,553'	8,327'		Shaker 3	170	24.0	
Plastic Viscosity (cp)		@ 150 °F		11		11	Dir. BHA	5.250	2.500	145'	10,881'		Centrifuge 1		6.0	
Yield Point (lb/100 ft²)		T0 = 4		8		10	**CASING & HOLE DATA**									
Gel Strength (lb/100 ft²)		10 sec/10 min		6/10		6/9	Casing	OD (in.)	ID (in.)	Depth	Top					
Gel Strength (lb/100 ft²)		30 min		14		12	Riser	0		0'			**VOLUME ACCOUNTING (bbls)**			
HTHP Filtrate (cm/30 min)		@ 300 °F		6.0		6.5	Surface	10 1/2		2,991'	0'		Prev. Total on Location			2863.4
HTHP Cake Thickness (32nds)				2.0		2.0	Int. Csg.	7 5/8	6.875	10,273'	0'		Transferred In(+)/Out(-)			
Retort Solids Content				15%		17.5%							Oil Added (+)			58.3
Corrected Solids (vol%)				13.4%		15.9%							Barite Added (+)			0.0
Retort Oil Content				65%		63.5%	Open Hole Size		6.885	11,026'			Other Product Usage (+)			8.4
Retort Water Content				20%		19%	**ANNULAR GEOMETRY & RHEOLOGY**						Water Added (+)			48.0
O/W Ratio				76:24		77:23	annular section	meas. depth	velocity ft/min	flow reg	ECD lb/gal		Left on Cuttings (-)			-27.7
Whole Mud Chlorides (mg/L)				41,000		41,000										
Water Phase Salinity (ppm)				243,260		252,826							Non-Recoverable Vol. (-)			-61.5
Whole Mud Alkalinity, Pom				2.5		2.3	6.875x4.5	8,290'	366.4	turb	11.50		Est. Total on Location			2888.9
Excess Lime (lb/bbl)				3.3 ppb		3 ppb	6.875x4.5	8,327'	366.4	turb	11.50		Est. Losses/Gains (-)/(+)			0.0
Electrical Stability (volts)				512 v		495 v	6.875x4.5	10,273'	366.4	turb	11.51		**BIT HYDRAULICS DATA**			
Average Specific Gravity of Solids				3.40		3.42	6.885x4.5	10,881'	364.5	turb	11.52		Bit H.S.I.	Bit ΔP	Nozzles (32nds)	
Percent Low Gravity Solids				5.4%		6.1%	6.885x5.25	11,026'	498.9	turb	11.55		0.75	113 psi	18	15	15
ppb Low Gravity Solids				44 ppb		50 ppb							Bit Impact Force	Nozzle Velocity (ft/sec)	16	16	16
Percent Barite				8%		9.8%											
ppb Barite				115 ppb		140 ppb	**BIT DATA**		Manuf./Type		Ulterra/U611s		242 lbs	110			
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	10,375 ft	30.0	651 ft	21.7		2,240 psi		3,990 psi	

Remarks/Recommendations:

OBM RECEIVED: (8,400) bbls

OBM ON SURFACE TANKS--2,445 bbls (storage + Active)

TOTAL OBM ON LOCATION: 2889BBLS

OBM Kill mud on Hand----361bbls //14.4# // $65.00/bbl

Discounted OBM on hand -(895bbl--12.5#)(398bbl--10#) // $15.00/bbl

Rig Activity:

Drilling ahead on curve section of the hole. ROP on slides 50-70ft/hr, on rotations 160ft/hr. Started with Mud Weight maintain at 11.1ppg, Decrease MW to 10.8ppg followed down to 10.5ppg and maintain at this time. Increase diesel additions and applied Centrifuge for reducing MW as requested. Continue with conservative treatment with Lime for Alkalinity, CaCl2 for WPS. Additions of Opti G and New Phalt to reduce Fluid Loss and Bentone to increase Pv & Yp as per specs recommended. Diesel and Water additions to offset evaporation and for dilution. Mix Hi Vis / LCM Sweep and ready to pump once in the lateral. At time of report Inclination passing 76deg. / 11042' MD / 10554' TVD.

Eng. 1:	Matt Meehan	Eng. 2:	Adolfo Roman	WH 1:	MIDLAND	WH 2:	WH #2	Rig Phone:	Daily Total	Cumulative Cost
Phone:	985-351-7561	Phone:	956-821-9994	Phone:	432-685-4023	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.							**$5,467.11**	**$533,799.29**
								INCLUDING 3RD PARTY CHARGES	**$8,066.11**	**$646,860.87**

OUTSOURCE FLUID SOLUTIONS LLC.

MATERIAL CONSUMPTION

Date	Operator	Well Name and No.	Rig Name and No.	Report No.
06/02/20	MAGNOLIA OIL & GAS	LEVI GOODRICH UNIT 2 - 2H	248	Report #32

DAILY USAGE & COST								CUMULATIVE	
Item	Unit	Unit Cost	Previous Inventory	Received	Closing Inventory	Daily Usage	Daily Cost	Cum Usage	Cum Cost
ALUMINUM TRISTEARATE	25# sk	$162.83							
SAPP (50)	50# sk	$44.50						31	$1,379.50
PHPA LIQUID (pail)	5 gal	$41.36						2	$82.72
DYNA DET	pail	$32.23						4	$128.92
DYNAFIBER C	25# sk	$53.67	70		70			18	$966.06
DYNAFIBER MED	25# sk	$53.67	120		120				
FIBER PLUG	40# sk	$30.37	30		30			10	$303.70
CACL2 (50)	50# sk	$16.60	170		150	20	$332.00	423	$7,021.80
LIME (50)	50# sk	$5.00	170		150	20	$100.00	400	$2,000.00
BENTONE 910 (50)	50# sk	$59.94	40		36	4	$239.76	34	$2,037.96
BENTONE 990 (50)	50# sk	$83.59	40		40			40	$3,343.60
OPTI G	50# sk	$30.59	110		90	20	$611.80	150	$4,588.50
OPTI MUL HP	gal	$10.75	550		400	150	$1,612.50	525	$5,643.75
OPTI WET	gal	$8.34	440		440			375	$3,127.50
NEW PHALT	50# sk	$38.72	70		60	10	$387.20	100	$3,872.00
NEWCARB 200	50# sk	$5.25	72		67	5	$26.25	103	$540.75
MAGMAFIBER F (25)	25# sk	$28.05	48		43	5	$140.25	151	$4,235.55
OIL SORB (25)	25# sk	$4.75	40		40				
PHPA LIQUID (pail)	5 gal	$41.36	88		88			9	$372.24
GEL (100)	100# sk		70		70				
BENTONE 38 (50)	50# sk	$163.94	20		20			20	$3,278.80
CYBERSEAL	25# sk	$21.47	240		235	5	$107.35	13	$279.11
Evo-Lube	gal	$9.31	975		975			125	$1,163.75
CAL CARB COARSE (50)	50# sk	$5.37	120		120				
MAGMAFIBER R (30)	30# sk	$28.05	80		80				
NEW-WATE (SACK BARITE)	100# sk	$11.50	160		160				
BARITE BULK (100)	100# sk	$7.00	1550		1550			4016	$28,112.00
OPTI DRILL (OBM)	bbl	$65.00	890		890			5526	$359,190.00
Magnolia Owned OBM	bbl		1034	51	1085			204	
Discounted High LGS OBM	bbl	$15.00	914		914			1716	$25,740.00
ENGINEERING (24 HR)	each	$925.00				2	$1,850.00	60	$55,500.00
ENGINEERING (DIEM)	bbl	$30.00				2	$60.00	60	$1,800.00
ENGINEERING (MILES)	each	$1.00						1049	$1,049.00
TRUCKING (cwt)	each	$2.50						6000	$15,000.08
TRUCKING (min)	each	$795.00						2	$1,590.00
PALLETS (ea)	each	$12.00						62	$744.00
SHRINK WRAP (ea)	each	$12.00						59	$708.00
		Daily Sub-Total $5,467.11			**Cumulative Total $533,799.29**			**$533,799.29**	

THIRD PARTY COST SHEET

Date	Operator	Well Name and No.	Rig Name and No.	Report No.
06/02/20	**MAGNOLIA OIL & GAS**	**LEVI GOODRICH UNIT 2 - 2H**	**248**	**Report #32**

DAILY USAGE & COST								CUMULATIVE	
Item	Unit	Unit Cost	Previous Inventory	Received	Closing Inventory	Daily Usage	Daily Cost	Cum Usage	Cum Cost
Diesel 4/25/20	gal	$0.91							
Diesel 5/6/20	gal	$0.90						5040	$4,536.00
Diesel 5/8/20	gal	$0.93						7302	$6,790.86
Diesel 5/9/20	gal	$0.96						7006	$6,725.76
Diesel 5/10/20	gal	$0.97						7300	$7,081.00
Diesel 5/14/20	gal	$0.98						7400	$7,252.00
Diesel 5/15/20	gal	$0.97						6750	$6,547.50
Diesel 5/16/20	gal	$1.03						7100	$7,313.00
Diesel 5/17/20	gal	$1.03						7634	$7,863.02
Diesel 5/17/20 Load #2	gal	$1.03						7402	$7,624.06
Diesel 5/19/ 20	gal	$1.06						6221	$6,594.26
Diesel 5/19/20	gal	$1.06						7301	$7,739.06
TurboChem First Response	each	$41.75	285		285			215	$8,976.25
TurboChem Pallets	each	$20.00	8		8			2	$40.00
TurboChem Shrink Wrap	each	$20.00	8		8			2	$40.00
Diesel 5/22/20	gal	$1.11						5545	$6,154.95
DIESEL 5/25/20	gal	$1.12						7404	$8,292.48
DIESEL 05/26/20	gal	$1.12						7201	$8,065.12
DIESEL 05/26/20	gal	$1.13	4700		2400	2300	$2,599.00	4802	$5,426.26

Daily Sub-Total $2,599.00

$113,061.58

Cumulative Total AES & 3rd Party $646,860.87

OUTSOURCE FLUID SOLUTIONS LLC.

FLUID VOLUME ACCOUNTING

Operator:	MAGNOLIA OIL & GAS
Rig Name:	248
Well Name:	LEVI GOODRICH UNIT 2 - 2H

		WEEK 1							WEEK 2							WEEK 3						
	Date	5/9/20	5/10/20	5/11/20	5/12/20	5/13/20	5/14/20	5/15/20	5/16/20	5/17/20	5/18/20	5/19/20	5/20/20	5/21/20	5/22/20	5/23/20	5/24/20	5/25/20	5/26/20	5/27/20	5/28/20	5/29/20
		Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri
	Bit Size	9 7/8	9 7/8	9 7/8	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4
Grand Totals	Starting Depth	3,000	4,915	10,102	10,284	10,284	10,284	10,380	11,970	11,970	14,305	15,905	16,662	16,940	16,027	16,029	16,029	16,029	16,029	16,029	11,100	11,100
	Ending Depth	4,915	10,102	10,284	10,284	10,284	10,380	11,970	11,970	14,305	15,905	16,662	16,940	16,027	16,029	16,029	16,029	16,029	16,029	11,100	11,100	11,100
14,798	Footage Drilled	1,915	5,187	182	-	-	96	1,590	-	2,335	1,600	757	278	-	2	-	-	-	-	-	-	-
1,023	New Hole Vol.	182	491	17	-	-	4	70	-	103	71	34	12	-	0	-	-	-	-	-	-	-
	Starting System Volume	2,395	2,448	2,477	2,020	2,436	2,738	2,755	2,753	2,348	2,141	715	1,829	1,664	2,075	1,555	2,403	1,971	2,857	3,290	2,975	2,894
119	Chemical Additions	11	17			6	4	8	1	25	11	-	-	2	-	-	-	-	5	4	-	2
2,275	Base Fluid Added	129	304	34	47	5	26	185	118	308	183	46	215	3	82	18	18	80	171	146	15	26
279	Barite Increase		28	10			7	26	26	2	29	-	8	-	-	-	20	28	14	22	14	7
6,236	Weighted Mud Added				421	291				208	-	744	-	526	-	916	782	1,537	811	-	-	-
-	Slurry Added										-	-	-	-	-	-	-	-	-	-	-	-
25,986	Water Added	16	56							107	384	10,371	1,590	11,756	500	279	200	91	564	-	-	-
191	Added for Washout	48	48	39							-	-	-	-	-	-	-	-	-	-	-	56
35,087	Total Additions	204	453	83	468	302	37	219	145	650	607	11,161	1,813	12,287	582	1,213	1,020	1,736	1,565	172	29	91
480	Surface Losses	7	23	74	10		16	40	30	30	-		-	-	-	-	-	-	-	217	-	-
30,802	Formation Loss			18				105	500	705	326	10,047	1,978	11,875	1,102	365	1,452	850	1,132	270	77	-
827	Mud Loss to Cuttings	132	383	19			4	76		108	75		-	-	-	-	-	-	-	-	-	-
399	Unrecoverable Volume			42	42				20		-		-	-	-	-	-	-	-	-	33	73
72	Centrifuge Losses	12	18	5						15	-		-	-	-	-	-	-	-	-	-	-
32,579	Total Losses	151	425	158	52	-	20	221	550	857	401	10,047	1,978	11,875	1,102	365	1,452	850	1,132	487	110	73
2,014	Mud Transferred Out			382							1,632											
2,889	Ending System Volume	2,448	2,477	2,020	2,436	2,738	2,755	2,753	2,348	2,141	715	1,829	1,664	2,075	1,555	2,403	1,971	2,857	3,290	2,975	2,894	2,912
130	Mud Recovered		130																			

6,617

Comments:		Comments:		Comments:	
5/9/20	Trans in 2101bbls skid vol. Casing had 293bbls F surface displacement. Mud lost to Cuttings 132.1bbls, Evap 6.6, Cent 12bbls	5/16/20	Mud Lost to partial losses due to seepage and trip surge 500-bbls, Evap 20-bbls, Pit Settlement 10-bbls and Tripping out 20-bbls	5/23/20	Pump Kill mud on back side, Pick up fishing tools and TIH. Tag fish and hook on to it. Start POOH.
5/10/20	Mud lost to Cuttings 383.4-bbls, Evap 23.2-bbls and Cent. 18-bbls. Mud recovered from, shaker tank runoff due to sweeps and ROC's 129.7-bbls	5/17/20	Mud Lost to Formation 705-bbls. Mud lost to Cuttings 108-bbls, Evap 19.56, Pits 10-bbls and Cent. 14.54bbls	5/24/20	Kill well with fishing tools in. Top of fish 11100'… Work fishing tools through 18* dog legs. Receive 782bbls OBM
5/11/20	Returned 382-bbls to Newpark. Mud Lost Cuttings 19-bbls, Cent 5-bbls, Evap 12.5, TOOH/TIH 35-bbls, Shaker Run off 42.2-bbls and Trucking 26-bbls	5/18/20	Drilling under Mud Cap. Fresh water pumped down hole to continue drilling.	5/25/20	POOH to reset fishing tools and TIH for fish (3rd attempt). Continue to Pump Down DP and back side to kill well. Received 1537bbls OBM.
5/12/20	Rec. 421-bbls 16.0 (KILL) lost 10-bbls to Trucking In… Mud lost to spacer contamination 42-bbls	5/19/20	Drilling under Mud Cap. Fresh water pumped down hole to continue drilling.	5/26/20	Jaring on stuck pipe. Mix Isolation sweep for intentionaly plug DP in the hole.
5/13/20	Lost 10.2-bbls to Pit Settlement	5/20/20	Side Track time drilling 16027. Continue pumping fresh water down hole with 13# mud cap on back side.	5/27/20	Un latch from fish, Circulate while increasing MW to 10.7ppg. Well continue to take mud. LCM mix in active system.Kill well POOH to shoe, pump balance plug to POOH and pick up stinger
5/14/20	Mud Lost to Cutting 3.5-bbls, Evap 6-bbls and Pit Settlement 10-bbls	5/21/20	Side Track time drilling 16027. Continue pumping fresh water down hole with 13# mud cap on back side.	5/28/20	POOH lay down Fishing tools. Pick up 2 7/8" stinger and TIH for set up of cement plug. Stage in the hole, circulating Surf. Surf every time.
5/15/20	Mud Lost to Cuttings 76-bbls, Evap 21-bbls, Pits 10-bbls Cent. 9-bbls. Patrial Losses to formation 105-bbls	5/22/20	Work stuck pipe free, Dry ream up to 15780, resume pump fresh water. Kill well and POOH.	5/29/20	Pump Cement plug. POOH 20stans and circulate Sur-surf. POOH lay down DP. Cut MW in the active system 9.8ppg.

OUTSOURCE FLUID SOLUTIONS LLC.

FLUID VOLUME ACCOUNTING

Operator:	MAGNOLIA OIL & GAS
Rig Name:	248
Well Name:	LEVI GOODRICH UNIT 2 - 2H

Grand Totals		WEEK 4							WEEK 5							WEEK 6						
	Date	5/30/20	5/31/20	6/1/20	6/2/20	6/3/20	6/4/20	6/5/20	6/6/20	6/7/20	6/8/20	6/9/20	6/10/20	6/11/20	6/12/20	6/13/20	6/14/20	6/15/20	6/16/20	6/17/20	6/18/20	6/19/20
		Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri
	Bit Size	6 3/4	6 3/4	6 3/4	6 3/4																	
	Starting Depth	11,100	11,100	10,170	10,424	11,026																
	Ending Depth	11,100	10,170	10,424	11,026																	
14,798	Footage Drilled	-	-	254	602	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,023	New Hole Vol.	-	-	11	27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Starting System Volume	2,912	2,915	2,838	2,863	2,889	2,889	2,889	2,889	2,889	2,889	2,889	2,889	2,889	2,889	2,889	2,889	2,889	2,889	2,889	2,889	2,889
119	Chemical Additions	-	3	12	8																	
2,275	Base Fluid Added	18	16	25	58																	
279	Barite Increase	7	31	-	-																	
6,236	Weighted Mud Added	-	-	-	-																	
-	Slurry Added	-	-	-	-																	
25,986	Water Added	-	-	24	48																	
191	Added for Washout	-	-	-	-																	
35,087	Total Additions	25	50	61	114	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
480	Surface Losses	-	-	33	-																	
30,802	Formation Loss	-	-	-	-																	
827	Mud Loss to Cuttings	-	-	2	28																	
399	Unrecoverable Volume	-	128	-	62																	
72	Centrifuge Losses	22		-	-																	
32,579	Total Losses	22	128	35	89	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,014	Mud Transferred Out																					
2,889	Ending System Volume	2,915	2,838	2,863	2,889	2,889	2,889	2,889	2,889	2,889	2,889	2,889	2,889	2,889	2,889	2,889	2,889	2,889	2,889	2,889	2,889	2,889
130	Mud Recovered																					

6,617

Comments:		Comments:	Comments:
5/30/20	Finish lay down DP, Change out Drill line spool and Test BOP's. stage new DP on pipe racks for pick up .	6/6/20	6/13/20
5/31/20	TIH with new DP. Circulate top of the cement plug, Gas up 4000units. Condition MW to 11.1ppg. 127bbls lost below cement plug.	6/7/20	6/14/20
6/1/20	POOH to change out BHA. TIH resume drilling on side track. Maintain MW 11.1ppg.	6/8/20	6/15/20
6/2/20	Drilling ahead on curve section. MW drop to 10.5 with diesel and Centrifuge.	6/9/20	6/16/20
6/3/20		6/10/20	6/17/20
6/4/20		6/11/20	6/18/20
6/5/20		6/12/20	6/19/20

6/2/2020 **Report 32 pm**

110 Old Market St.
St Martinville, LA 70582

TEL: (337) 394-1078

12,139' TVD

Operator	Contractor	County / Parish / Block	Engineer Start Date	24 hr ftg.	Drilled Depth
MAGNOLIA OIL & GAS	**PATTERSON**	**WASHINGTON**	**04/22/20**		**12,139 ft**
Well Name and No.	Rig Name and No.	State	Spud Date	Current ROP	Activity
LEVI GOODRICH UNIT 2 - 2H	**248**	**TEXAS**	**04/26/20**	**221 ft/hr**	**DRLG LATERAL**
Report for	Report for	Field / OSC-G #	Fluid Type	Circulating Rate	Circulating Pressure
Bobby Gwinn/James Dyer	**Tool Pusher**	**GIDDINGS**	**OBM**	**397 gpm**	**5,650 psi**

MUD PROPERTY SPECIFICATIONS

Weight	PV	YP	E.S.	CaCl2	GELS	HTHP
9-17	**8-35**	**4-18**	**>400**	**±245K**	**<10 <25**	**<10**

MUD PROPERTIES

Time Sample Taken	3:00		1:00
Sample Location	ACTIVE		shaker
Flowline Temperature °F	150 °F		151 °F
Depth (ft)	10,946'		12,118'
Mud Weight (ppg)	10.5		10.5
Funnel Vis (sec/qt) @ 120 °F	45		47
600 rpm	30		31
300 rpm	19		20
200 rpm	14		16
100 rpm	10		9
6 rpm	6		6
3 rpm	5		5
Plastic Viscosity (cp) @ 150 °F	11		11
Yield Point (lb/100 ft²) T0 = 4	8		9
Gel Strength (lb/100 ft²) 10 sec / 10 min	6/10		6/9
Gel Strength (lb/100 ft2) 30 min	14		13
HTHP Filtrate (cm/30 min) @ 300 °F	6.0		6.0
HTHP Cake Thickness (32nds)	2.0		2.0
Retort Solids Content	15%		15%
Corrected Solids (vol%)	13.4%		13.4%
Retort Oil Content	65%		65%
Retort Water Content	20%		20%
O/W Ratio	76:24		76:24
Whole Mud Chlorides (mg/L)	41,000		42,000
Water Phase Salinity (ppm)	243,260		247,723
Whole Mud Alkalinity, Pom	2.5		2.4
Excess Lime (lb/bbl)	3.3 ppb		3.1 ppb
Electrical Stability (volts)	512 v		495 v
Average Specific Gravity of Solids	3.40		3.35
Percent Low Gravity Solids	5.4%		5.7%
ppb Low Gravity Solids	44 ppb		47 ppb
Percent Barite	8%		7.7%
ppb Barite	115 ppb		110 ppb
Estimated Total LCM in System			
Sample Taken By	A. Roman		M Washburn

MUD VOLUME (BBL)

In Pits	791 bbl
In Hole	489 bbl
Active	1280 bbl
Storage	1654 bbl
Tot. on Location	2934 bbl

PUMP #1

Liner Size	5.25
Stroke	12
bbl/stk	0.0763
stk/min	62
gal/min	199

PUMP #2

Liner Size	5.25
Stroke	12
bbl/stk	0.0763
stk/min	62
gal/min	199

RISER BOOSTER

Liner Size
Stroke
bbl/stk
stk/min
gal/min

Mud Wt. = 10.5 PV=11 YP=8 **CIRCULATION DATA** n = 0.659 K = 159.1

Bit Depth = 12,139 ' Washout = 2% Pump Efficiency = 95%

Drill String Disp.							
68.6 bbl	Volume to Bit	171.2 bbl	Strokes To Bit	2,244	Time To Bit	18 min
	Bottoms Up Vol.	317.8 bbl	BottomsUp Stks	4,165	BottomsUp Time	34 min
	TotalCirc.Vol.	1280.0 bbl	TotalCirc.Stks	16,774	Total Circ. Time	135 min

DRILLING ASSEMBLY DATA

Tubulars	OD (in.)	ID (in.)	Length	Top
Drill Pipe	4.500	3.826	9,403'	
Agitator	4.500	3.000	37'	9,403'
Drill Pipe	4.500	3.826	2,553'	9,440'
Dir. BHA	5.250	2.500	145'	11,994'

CASING & HOLE DATA

Casing	OD (in.)	ID (in.)	Depth	Top
Riser				
Surface	10 1/2		2,991'	
Int. Csg.	7 5/8	6.875	10,273'	
Open Hole Size	6.885		12,139'	

ANNULAR GEOMETRY & RHEOLOGY

annular section	depth	velocity ft/min	flow reg	ECD lb/gal
6.875x4.5	9,403'	360.6	turb	11.63
6.875x4.5	9,440'	360.6	turb	11.79
6.875x4.5	10,273'	360.6	turb	11.94
6.885x4.5	11,994'	358.7	turb	12.17
6.885x5.25	12,139'	490.9	turb	12.36

BIT DATA Manuf./Type Ulterra/U611s

Size	Depth In	Hours	Footage	ROP ft/hr
6 3/4	10,375 ft	30.0	651 ft	21.7

SOLIDS CONTROL

Unit	Screens	Hours
Shaker 1	170	24.0
Shaker 2	170	24.0
Shaker 3	170	24.0
Centrifuge 1		6.0

VOLUME ACCOUNTING (bbls)

Prev. Total on Location	2888.8
Transferred In(+)/Out(-)	
Oil Added (+)	
Barite Added (+)	
Other Product Usage (+)	
Water Added (+)	
Left on Cuttings (-)	
Non-Recoverable Vol. (-)	
Est. Total on Location	2888.8
Est. Losses/Gains (-)/(+)	45.2

BIT HYDRAULICS DATA

Bit H.S.I.	Bit ΔP	Nozzles (32nds)		
0.71	110 psi	18	15	15
Bit Impact Force	Nozzle Velocity (ft/sec)	16	16	16
234 lbs	108			

Motor/MWD	Calc. Circ. Pressure
2,240 psi	4,090 psi

Afternoon Remarks/Recommendations:

Sweep Contains:

10 ppb Magmafiber F

10 ppb Newcarb M

10 ppb Newphalt

10 ppb First Resonse

Afternoon Rig Activity:

Drilling 6 3/4" lateral hole section, samples are 100% Austin Chalk. Curve landed at MD 11173, TVD 10590. Maintain mud wt at 10.5, pump 10 bbls LCM sweep every 300' in lateral section. Continue with diesel and water additions to maintain OWR, adding Newphalt, sulfonated asphalt for wellbore integrity and to maintain HTHP fluid loss, lime for alkalinity and CaCl2 for WPS requirements. No downhole losses detected at time of report.

06/03/20 **Report #33**

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

OUTSOURCE FLUID SOLUTIONS LLC.

0.0° **13,515' TVD**

Operator	Contractor	County / Parish / Block	Engineer Start Date	24 hr ftg.	Drilled Depth
MAGNOLIA OIL & GAS	**PATTERSON**	**WASHINGTON**	**04/22/20**	**2,489 ft**	**13,515 ft**
Well Name and No.	Rig Name and No.	State	Spud Date	Current ROP	Activity
LEVI GOODRICH UNIT 2 - 2H	**248**	**TEXAS**	**04/26/20**	**113 ft/hr**	**DRLG LATERAL**
Report for	Report for	Field / OCS-G #	Fluid Type	Circulating Rate	Circulating Pressure
Bobby Gwinn/James Dyer	**Tool Pusher**	**GIDDINGS**	**OBM**	**385 gpm**	**4,980 psi**

MUD PROPERTY SPECIFICATIONS							MUD VOLUME (BBL)		PUMP #1		PUMP #2		RISER BOOSTER	
Weight	PV	YP	E.S.	CaCl2	GELS	HTHP	In Pits	501 bbl	Liner Size	5.25	Liner Size	5.25	Liner Size	
9-17	**8-35**	**4-18**	**>400**	**±245K**	**<10 <25**	**<10**	In Hole	545 bbl	Stroke	12	Stroke	12	Stroke	
				6/3/20		6/2/20	Active	1046 bbl	bbl/stk	0.0763	bbl/stk	0.0763	bbl/stk	0.0000
Time Sample Taken				3:00		1:00	Storage	1479 bbl	stk/min	60	stk/min	60	stk/min	
Sample Location				ACTIVE		shaker	Tot. on Location	2525 bbl	gal/min	192	gal/min	192	gal/min	0

Flowline Temperature °F	165 °F		151 °F	PHHP = 1117	**CIRCULATION DATA**	n = 0.688 K = 125.689
Depth (ft)	13,443'		12,118'	Bit Depth = 13,515 '	Washout = 2%	Pump Efficiency = 95%
Mud Weight (ppg)	10.1		10.5	Drill String Disp.	Volume to Bit 190.8 bbl	Strokes To Bit 2,500	Time To Bit 21 min
Funnel Vis (sec/qt) @ 130 °F	40		47		Bottoms Up Vol. 354.1 bbl	BottomsUp Stks 4,640	BottomsUp Time 39 min
600 rpm	29		31	76.1 bbl	TotalCirc.Vol. 1045.9 bbl	TotalCirc.Stks 13,706	Total Circ. Time 114 min
300 rpm	18		20	**DRILLING ASSEMBLY DATA**			**SOLIDS CONTROL**
200 rpm	15		16	Tubulars OD (in.) ID (in.) Length Top			Unit Screens Hours
100 rpm	10		9	Drill Pipe 4.500 3.826 10,779' 0'			Shaker 1 170 24.0
6 rpm	6		6	Agitator 4.500 3.000 37' 10,779'			Shaker 2 170 24.0
3 rpm	5		5	Drill Pipe 4.500 3.826 2,553' 10,816'			Shaker 3 170 24.0
Plastic Viscosity (cp) @ 150 °F	11		11	Dir. BHA 5.250 2.500 145' 13,370'			Centrifuge 1 12.0
Yield Point (lb/100 ft²) T0 = 4	7		9	**CASING & HOLE DATA**			
Gel Strength (lb/100 ft²) 10 sec/10 min	6/9		6/9	Casing OD (in.) ID (in.) Depth Top			
Gel Strength (lb/100 ft²) 30 min	13		13	Riser 0 0'			**VOLUME ACCOUNTING (bbls)**
HTHP Filtrate (cm/30 min) @ 300 °F	7.0		6.0	Surface 10 1/2 2,991' 0'			Prev. Total on Location 2888.8
HTHP Cake Thickness (32nds)	2.0		2.0	Int. Csg. 7 5/8 6.875 10,273' 0'			Transferred In(+)/Out(-)
Retort Solids Content	13%		15%				Oil Added (+) 88.0
Corrected Solids (vol%)	11.4%		13.4%				Barite Added (+) 0.0
Retort Oil Content	68%		65%	Open Hole Size 6.885 13,515'			Other Product Usage (+) 13.4
Retort Water Content	19%		20%	**ANNULAR GEOMETRY & RHEOLOGY**			Water Added (+) 70.0
O/W Ratio	78:22		76:24	annular section / meas. depth / velocity ft/min / flow reg / ECD lb/gal			Left on Cuttings (-) -114.6
Whole Mud Chlorides (mg/L)	40,000		42,000				Centrifuge losses -60.0
Water Phase Salinity (ppm)	248,190		247,723				Non-Recoverable Vol. (-) -360.8
Whole Mud Alkalinity, Pom	2.2		2.4	6.875x4.5 10,273' 348.9 turb 11.05			Est. Total on Location 2524.8
Excess Lime (lb/bbl)	2.9 ppb		3.1 ppb	6.885x4.5 10,779' 347.2 turb 11.14			Est. Losses/Gains (-)/(+) 0.0
Electrical Stability (volts)	521 v		495 v	6.885x4.5 10,816' 347.2 turb 11.23			**BIT HYDRAULICS DATA**
Average Specific Gravity of Solids	3.40		3.35	6.885x4.5 13,370' 347.2 turb 11.49			Bit H.S.I. / Bit ΔP / Nozzles (32nds)
Percent Low Gravity Solids	4.6%		5.7%	6.885x5.25 13,515' 475.1 turb 11.61			0.62 / 98 psi / 18 15 15
ppb Low Gravity Solids	38 ppb		47 ppb				Bit Impact Force / Nozzle Velocity (ft/sec) / 16 16 16
Percent Barite	6.8%		7.7%				
ppb Barite	98 ppb		110 ppb	**BIT DATA** Manuf./Type Ulterra/U611s			210 lbs / 104
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 / 10,375 ft / 52.0 / 3,140 ft / 60.4			2,240 psi / 4,098 psi

Remarks/Recommendations:

OBM RECEIVED: (8,400) bbls

OBM ON SURFACE TANKS--1,982 bbls (storage + Active)

TOTAL OBM ON LOCATION: 2525 BBLS

OBM Kill mud on Hand----361bbls //14.4# // $65.00/bbl

Discounted OBM on hand -(895bbl--12.5#)(223bbl--10#) // $15.00/bbl

Rig Activity:

Landed Curve section 11,173' MD / 10,590' TVD. Continue drilling into lateral section of the hole. Maintain 10.5ppg up to 12500', Moderate losses down hole noted. Drop MW down to 10.2ppg followed down to 10ppg at this time. Use Diesel and Centrifuge application to cut Mud Weight. While Continue to pump 400GPM and drilling ahead. Shut in Casing pressure on connection up to 450-550psi. ROP on slides 30-45ft/hr, on rotations 180-200ft/hr. Conservative treatment with Lime for Alkalinity, CaCl2 for WPS.Opti G and New Phalt for Fluid Loss. Introduce LCM into the active system (First Respose, New Carb and Cyberseal) 3 sxs each respectably. Maintain Diesel and Water additions to offset evaporation and for dilution.

Eng. 1:	Eng. 2:	WH 1:	WH 2:	Rig Phone:	Daily Total	Cumulative Cost
Matt Meehan	Adolfo Roman	MIDLAND	WH #2			
Phone: 985-351-7561	Phone: 956-821-9994	Phone: 432-685-4023	Phone: -		**$6,780.99**	**$540,580.28**

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

INCLUDING 3RD PARTY CHARGES **$13,793.48** **$660,654.35**

OUTSOURCE FLUID SOLUTIONS LLC.

MATERIAL CONSUMPTION

Date	Operator	Well Name and No.	Rig Name and No.	Report No.
06/03/20	MAGNOLIA OIL & GAS	LEVI GOODRICH UNIT 2 - 2H	248	Report #33

DAILY USAGE & COST								CUMULATIVE	
Item	Unit	Unit Cost	Previous Inventory	Received	Closing Inventory	Daily Usage	Daily Cost	Cum Usage	Cum Cost
ALUMINUM TRISTEARATE	25# sk	$162.83							
SAPP (50)	50# sk	$44.50						31	$1,379.50
PHPA LIQUID (pail)	5 gal	$41.36						2	$82.72
DYNA DET	pail	$32.23						4	$128.92
DYNAFIBER C	25# sk	$53.67	70		70			18	$966.06
DYNAFIBER MED	25# sk	$53.67	120		85	35	$1,878.45	35	$1,878.45
FIBER PLUG	40# sk	$30.37	30		30			10	$303.70
CACL2 (50)	50# sk	$16.60	150		125	25	$415.00	448	$7,436.80
LIME (50)	50# sk	$5.00	150		125	25	$125.00	425	$2,125.00
BENTONE 910 (50)	50# sk	$59.94	36		30	6	$359.64	40	$2,397.60
BENTONE 990 (50)	50# sk	$83.59	40		40			40	$3,343.60
OPTI G	50# sk	$30.59	90		80	10	$305.90	160	$4,894.40
OPTI MUL HP	gal	$10.75	400		400			525	$5,643.75
OPTI WET	gal	$8.34	440		440			375	$3,127.50
NEW PHALT	50# sk	$38.72	60		40	20	$774.40	120	$4,646.40
NEWCARB 200	50# sk	$5.25	67		60	7	$36.75	110	$577.50
MAGMAFIBER F (25)	25# sk	$28.05	43		35	8	$224.40	159	$4,459.95
OIL SORB (25)	25# sk	$4.75	40		40				
PHPA LIQUID (pail)	5 gal	$41.36	88		88			9	$372.24
GEL (100)	100# sk		70		70				
BENTONE 38 (50)	50# sk	$163.94	20		20			20	$3,278.80
CYBERSEAL	25# sk	$21.47	235		200	35	$751.45	48	$1,030.56
Evo-Lube	gal	$9.31	975		975			125	$1,163.75
CAL CARB COARSE (50)	50# sk	$5.37	120		120				
MAGMAFIBER R (30)	30# sk	$28.05	80		80				
NEW-WATE (SACK BARITE)	100# sk	$11.50	160		160				
BARITE BULK (100)	100# sk	$7.00	1550		1550			4016	$28,112.00
OPTI DRILL (OBM)	bbl	$65.00	890		890			5526	$359,190.00
Magnolia Owned OBM	bbl		1085		721	364		568	
Discounted High LGS OBM	bbl	$15.00	914		914			1716	$25,740.00
ENGINEERING (24 HR)	each	$925.00				2	$1,850.00	62	$57,350.00
ENGINEERING (DIEM)	bbl	$30.00				2	$60.00	62	$1,860.00
ENGINEERING (MILES)	each	$1.00						1049	$1,049.00
TRUCKING (cwt)	each	$2.50						6000	$15,000.08
TRUCKING (min)	each	$795.00						2	$1,590.00
PALLETS (ea)	each	$12.00						62	$744.00
SHRINK WRAP (ea)	each	$12.00						59	$708.00
		Daily Sub-Total $6,780.99			**Cumulative Total $540,580.28**			**$540,580.28**	

THIRD PARTY COST SHEET

Date	Operator	Well Name and No.	Rig Name and No.	Report No.
06/03/20	MAGNOLIA OIL & GAS	LEVI GOODRICH UNIT 2 - 2H	248	Report #33

DAILY USAGE & COST								CUMULATIVE	
Item	Unit	Unit Cost	Previous Inventory	Received	Closing Inventory	Daily Usage	Daily Cost	Cum Usage	Cum Cost
Diesel 4/25/20	gal	$0.91							
Diesel 5/6/20	gal	$0.90						5040	$4,536.00
Diesel 5/8/20	gal	$0.93						7302	$6,790.86
Diesel 5/9/20	gal	$0.96						7006	$6,725.76
Diesel 5/10/20	gal	$0.97						7300	$7,081.00
Diesel 5/14/20	gal	$0.98						7400	$7,252.00
Diesel 5/15/20	gal	$0.97						6750	$6,547.50
Diesel 5/16/20	gal	$1.03						7100	$7,313.00
Diesel 5/17/20	gal	$1.03						7634	$7,863.02
Diesel 5/17/20 Load #2	gal	$1.03						7402	$7,624.06
Diesel 5/19/ 20	gal	$1.06						6221	$6,594.26
Diesel 5/19/20	gal	$1.06						7301	$7,739.06
TurboChem First Response	each	$41.75	285		220	65	$2,713.75	280	$11,690.00
TurboChem Pallets	each	$20.00	8		5	3	$60.00	5	$100.00
TurboChem Shrink Wrap	each	$20.00	8		5	3	$60.00	5	$100.00
Diesel 5/22/20	gal	$1.11						5545	$6,154.95
DIESEL 5/25/20	gal	$1.12						7404	$8,292.48
DIESEL 05/26/20	gal	$1.12						7201	$8,065.12
DIESEL 05/26/20	gal	$1.13	2400			2400	$2,712.00	7202	$8,138.26
DIESEL 06/02/20	gal	$1.13		7202	5904	1298	$1,466.74	1298	$1,466.74

Daily Sub-Total $7,012.49	$120,074.07

Cumulative Total AES & 3rd Party $660,654.35

OUTSOURCE FLUID SOLUTIONS LLC.

FLUID VOLUME ACCOUNTING

Operator:	MAGNOLIA OIL & GAS
Rig Name:	248
Well Name:	LEVI GOODRICH UNIT 2 - 2H

		WEEK 1							WEEK 2							WEEK 3						
	Date	5/9/20	5/10/20	5/11/20	5/12/20	5/13/20	5/14/20	5/15/20	5/16/20	5/17/20	5/18/20	5/19/20	5/20/20	5/21/20	5/22/20	5/23/20	5/24/20	5/25/20	5/26/20	5/27/20	5/28/20	5/29/20
		Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri
	Bit Size	9 7/8	9 7/8	9 7/8	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4
Grand Totals	Starting Depth	3,000	4,915	10,102	10,284	10,284	10,284	10,380	11,970	11,970	14,305	15,905	16,662	16,940	16,027	16,029	16,029	16,029	16,029	16,029	11,100	11,100
	Ending Depth	4,915	10,102	10,284	10,284	10,284	10,380	11,970	11,970	14,305	15,905	16,662	16,940	16,027	16,029	16,029	16,029	16,029	16,029	11,100	11,100	11,100
17,287	Footage Drilled	1,915	5,187	182	-	-	96	1,590	-	2,335	1,600	757	278	-	2	-	-	-	-	-	-	-
1,133	New Hole Vol.	182	491	17	-	-	4	70	-	103	71	34	12	-	0	-	-	-	-	-	-	-
	Starting System Volume	2,395	2,448	2,477	2,020	2,436	2,738	2,755	2,753	2,348	2,141	715	1,829	1,664	2,075	1,555	2,403	1,971	2,857	3,290	2,975	2,894
132	Chemical Additions	11	17			6	4	8	1	25	11	-	-	2	-	-	-	-	5	4	-	2
2,363	Base Fluid Added	129	304	34	47	5	26	185	118	308	183	46	215	3	82	18	18	80	171	146	15	26
279	Barite Increase		28	10			7	26	26	2	29	-	8	-	-	-	20	28	14	22	14	7
6,236	Weighted Mud Added				421	291				208	-	744	-	526	-	916	782	1,537	811	-	-	-
-	Slurry Added										-	-	-	-	-	-	-	-	-	-	-	-
26,056	Water Added	16	56							107	384	10,371	1,590	11,756	500	279	200	91	564	-	-	-
191	Added for Washout	48	48	39							-	-	-	-	-	-	-	-	-	-	-	56
35,258	Total Additions	204	453	83	468	302	37	219	145	650	607	11,161	1,813	12,287	582	1,213	1,020	1,736	1,565	172	29	91
480	Surface Losses	7	23	74	10		16	40	30	30	-		-	-	-	-	-	-	-	217	-	-
31,163	Formation Loss			18				105	500	705	326	10,047	1,978	11,875	1,102	365	1,452	850	1,132	270	77	-
941	Mud Loss to Cuttings	132	383	19			4	76		108	75		-	-	-	-	-	-	-	-	-	-
399	Unrecoverable Volume			42	42				20		-		-	-	-	-	-	-	-	-	33	73
132	Centrifuge Losses	12	18	5						15	-		-	-	-	-	-	-	-	-	-	-
33,114	Total Losses	151	425	158	52	-	20	221	550	857	401	10,047	1,978	11,875	1,102	365	1,452	850	1,132	487	110	73
2,014	Mud Transferred Out			382							1,632											
2,525	Ending System Volume	2,448	2,477	2,020	2,436	2,738	2,755	2,753	2,348	2,141	715	1,829	1,664	2,075	1,555	2,403	1,971	2,857	3,290	2,975	2,894	2,912
130	Mud Recovered		130																			

6,617

	Comments:		Comments:		Comments:
5/9/20	Trans in 2101bbls skid vol. Casing had 293bbls F surface displacement. Mud lost to Cuttings 132.1bbls, Evap 6.6, Cent 12bbls	5/16/20	Mud Lost to partial losses due to seepage and trip surge 500-bbls, Evap 20-bbls, Pit Settlement 10-bbls and Tripping out 20-bbls	5/23/20	Pump Kill mud on back side, Pick up fishing tools and TIH. Tag fish and hook on to it. Start POOH.
5/10/20	Mud lost to Cuttings 383.4-bbls, Evap 23.2-bbls and Cent. 18-bbls. Mud recovered from, shaker tank runoff due to sweeps and ROC's 129.7-bbls	5/17/20	Mud Lost to Formation 705-bbls. Mud lost to Cuttings 108-bbls, Evap 19.56, Pits 10-bbls and Cent. 14.54bbls	5/24/20	Kill well with fishing tools in. Top of fish 11100'… Work fishing tools through 18* dog legs. Receive 782bbls OBM
5/11/20	Returned 382-bbls to Newpark. Mud Lost Cuttings 19-bbls, Cent 5-bbls, Evap 12.5, TOOH/TIH 35-bbls, Shaker Run off 42.2-bbls and Trucking 26-bbls	5/18/20	Drilling under Mud Cap. Fresh water pumped down hole to continue drilling.	5/25/20	POOH to reset fishing tools and TIH for fish (3rd attempt). Continue to Pump Down DP and back side to kill well. Received 1537bbls OBM.
5/12/20	Rec. 421-bbls 16.0 (KILL) lost 10-bbls to Trucking In… Mud lost to spacer contamination 42-bbls	5/19/20	Drilling under Mud Cap. Fresh water pumped down hole to continue drilling.	5/26/20	Jaring on stuck pipe. Mix Isolation sweep for intentionaly plug DP in the hole.
5/13/20	Lost 10.2-bbls to Pit Settlement	5/20/20	Side Track time drilling 16027. Continue pumping fresh water down hole with 13# mud cap on back side.	5/27/20	Un latch from fish, Circulate while increasing MW to 10.7ppg. Well continue to take mud. LCM mix in active system.Kill well POOH to shoe, pump balance plug to POOH and pick up stinger
5/14/20	Mud Lost to Cutting 3.5-bbls, Evap 6-bbls and Pit Settlement 10-bbls	5/21/20	Side Track time drilling 16027. Continue pumping fresh water down hole with 13# mud cap on back side.	5/28/20	POOH lay down Fishing tools. Pick up 2 7/8" stinger and TIH for set up of cement plug. Stage in the hole, circulating Surf. Surf every time.
5/15/20	Mud Lost to Cuttings 76-bbls, Evap 21-bbls, Pits 10-bbls Cent. 9-bbls. Patrial Losses to formation 105-bbls	5/22/20	Work stuck pipe free, Dry ream up to 15780, resume pump fresh water. Kill well and POOH.	5/29/20	Pump Cement plug. POOH 20stans and circulate Sur-surf. POOH lay down DP. Cut MW in the active system 9.8ppg.

OUTSOURCE FLUID SOLUTIONS LLC.

FLUID VOLUME ACCOUNTING

Operator:	MAGNOLIA OIL & GAS
Rig Name:	248
Well Name:	LEVI GOODRICH UNIT 2 - 2H

Grand Totals		WEEK 4							WEEK 5							WEEK 6						
	Date	5/30/20	5/31/20	6/1/20	6/2/20	6/3/20	6/4/20	6/5/20	6/6/20	6/7/20	6/8/20	6/9/20	6/10/20	6/11/20	6/12/20	6/13/20	6/14/20	6/15/20	6/16/20	6/17/20	6/18/20	6/19/20
		Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri
	Bit Size	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4																
	Starting Depth	11,100	11,100	10,170	10,424	11,026	13,515															
	Ending Depth	11,100	10,170	10,424	11,026	13,515																
17,287	Footage Drilled	-	-	254	602	2,489	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,133	New Hole Vol.	-	-	11	27	110	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Starting System Volume	2,912	2,915	2,838	2,863	2,889	2,525	2,525	2,525	2,525	2,525	2,525	2,525	2,525	2,525	2,525	2,525	2,525	2,525	2,525	2,525	2,525
132	Chemical Additions	-	3	12	8	13																
2,363	Base Fluid Added	18	16	25	58	88																
279	Barite Increase	7	31	-	-	-																
6,236	Weighted Mud Added	-	-	-	-	-																
-	Slurry Added	-	-	-	-	-																
26,056	Water Added	-	-	24	48	70																
191	Added for Washout	-	-	-	-	-																
35,258	Total Additions	25	50	61	114	171	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
480	Surface Losses	-	-	33	-	-																
31,163	Formation Loss	-	-	-	-	361																
941	Mud Loss to Cuttings	-	-	2	28	114																
399	Unrecoverable Volume	-	128	-	62	-																
132	Centrifuge Losses	22		-	-	60																
33,114	Total Losses	22	128	35	89	535	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,014	Mud Transferred Out																					
2,525	Ending System Volume	2,915	2,838	2,863	2,889	2,525	2,525	2,525	2,525	2,525	2,525	2,525	2,525	2,525	2,525	2,525	2,525	2,525	2,525	2,525	2,525	2,525
130	Mud Recovered																					

6,617

Comments:		Comments:	Comments:
5/30/20	Finish lay down DP, Change out Drill line spool and Test BOP's. stage new DP on pipe racks for pick up .	6/6/20	6/13/20
5/31/20	TIH with new DP. Circulate top of the cement plug, Gas up 4000units. Condition MW to 11.1ppg. 127bbls lost below cement plug.	6/7/20	6/14/20
6/1/20	POOH to change out BHA. TIH resume drilling on side track. Maintain MW 11.1ppg.	6/8/20	6/15/20
6/2/20	Drilling ahead on curve section. MW drop to 10.5 with diesel and Centrifuge.	6/9/20	6/16/20
6/3/20	Curve landed. Drilling lateral. @12500' well taking mud. Continue pumping 400gpm, Casing pressure on connections 450-550psi.	6/10/20	6/17/20
6/4/20		6/11/20	6/18/20
6/5/20		6/12/20	6/19/20

6/3/2020 **Report 33 pm**

110 Old Market St.
St Martinville, LA 70582

TEL: (337) 394-1078

14,450' TVD

Operator	Contractor	County / Parish / Block	Engineer Start Date	24 hr ftg.	Drilled Depth
MAGNOLIA OIL & GAS	**PATTERSON**	**WASHINGTON**	**04/22/20**	**935 ft**	**14,450 ft**
Well Name and No.	Rig Name and No.	State	Spud Date	Current ROP	Activity
LEVI GOODRICH UNIT 2 - 2H	**248**	**TEXAS**	**04/26/20**	**248 ft/hr**	**Drilling**
Report for	Report for	Field / OSC-G #	Fluid Type	Circulating Rate	Circulating Pressure
Kevin Burt/James Dyer	**Tool Pusher**	**GIDDINGS**	**OBM**	**385 gpm**	**5,072 psi**

MUD PROPERTY SPECIFICATIONS						
Weight	PV	YP	E.S.	CaCl2	GELS	HTHP
9-17	**8-35**	**4-18**	**>400**	**±245K**	**<10 <25**	**<10**

MUD PROPERTIES				
Time Sample Taken		3:00		11:00
Sample Location		ACTIVE		shaker
Flowline Temperature °F		165 °F		168 °F
Depth (ft)		13,443'		14,450'
Mud Weight (ppg)		10.1		9.8
Funnel Vis (sec/qt)	@ 130 °F	40		42
600 rpm		29		30
300 rpm		18		19
200 rpm		15		15
100 rpm		10		9
6 rpm		6		6
3 rpm		5		5
Plastic Viscosity (cp)	@ 150 °F	11		11
Yield Point (lb/100 ft²)	T0 = 4	7		8
Gel Strength (lb/100 ft²)	10 sec / 10 min	6/9		6/9
Gel Strength (lb/100 ft2)	30 min	13		12
HTHP Filtrate (cm/30 min)	@ 300 °F	7.0		6.4
HTHP Cake Thickness (32nds)		2.0		2.0
Retort Solids Content		13%		12.5%
Corrected Solids (vol%)		11.4%		10.9%
Retort Oil Content		68%		67.5%
Retort Water Content		19%		20%
O/W Ratio		78:22		77:23
Whole Mud Chlorides (mg/L)		40,000		42,000
Water Phase Salinity (ppm)		248,190		247,723
Whole Mud Alkalinity, Pom		2.2		2.0
Excess Lime (lb/bbl)		2.9 ppb		2.6 ppb
Electrical Stability (volts)		521 v		509 v
Average Specific Gravity of Solids		3.40		3.16
Percent Low Gravity Solids		4.6%		5.9%
ppb Low Gravity Solids		38 ppb		48 ppb
Percent Barite		6.8%		5%
ppb Barite		98 ppb		72 ppb
Estimated Total LCM in System				
Sample Taken By		A. Roman		M.Meehan

MUD VOLUME (BBL)		PUMP #1		PUMP #2		RISER BOOSTER
In Pits	562 bbl	Liner Size	5.25	Liner Size	5.25	Liner Size
In Hole	583 bbl	Stroke	12	Stroke	12	Stroke
Active	1145 bbl	bbl/stk	0.0763	bbl/stk	0.0763	bbl/stk
Storage	1479 bbl	stk/min	60	stk/min	60	stk/min
Tot. on Location	2624 bbl	gal/min	192	gal/min	192	gal/min

Mud Wt. = 10.1 PV=11 YP=7 **CIRCULATION DATA** n = 0.688 K = 125.7

Bit Depth = 14,450 ' | Washout = 2% | Pump Efficiency = 95%

Drill String Disp.					
81.2 bbl	Volume to Bit	204.1 bbl	Strokes To Bit	2,675	Time To Bit 22 min
	Bottoms Up Vol.	378.7 bbl	BottomsUp Stks	4,963	BottomsUp Time 41 min
	TotalCirc.Vol.	1144.8 bbl	TotalCirc.Stks	15,003	Total Circ. Time 125 min

DRILLING ASSEMBLY DATA

Tubulars	OD (in.)	ID (in.)	Length	Top
Drill Pipe	4.500	3.826	11,714'	
Agitator	4.500	3.000	37'	11,714'
Drill Pipe	4.500	3.826	2,553'	11,751'
Dir. BHA	5.250	2.500	145'	14,305'

CASING & HOLE DATA

Casing	OD (in.)	ID (in.)	Depth	Top
Riser				
Surface	10 1/2		2,991'	
Int. Csg.	7 5/8	6.875	10,273'	
Open Hole Size	6.885		14,450'	

ANNULAR GEOMETRY & RHEOLOGY

annular section	depth	velocity ft/min	flow reg	ECD lb/gal
6.875x4.5	10,273'	348.9	turb	11.15
6.885x4.5	11,714'	347.2	turb	11.41
6.885x4.5	11,751'	347.2	turb	11.61
6.885x4.5	14,305'	347.2	turb	11.96
6.885x5.25	14,450'	475.1	turb	12.18

BIT DATA Manuf./Type Ulterra/U611s

Size	Depth In	Hours	Footage	ROP ft/hr
6 3/4	10,375 ft	62.0	4,075 ft	65.7

SOLIDS CONTROL

Unit	Screens	Hours
Shaker 1	170	12.0
Shaker 2	170	12.0
Shaker 3	170	12.0
Centrifuge 1		3.0

VOLUME ACCOUNTING (bbls)

Prev. Total on Location	2524.9
Transferred In(+)/Out(-)	
Oil Added (+)	132.2
Barite Added (+)	
Other Product Usage (+)	
Water Added (+)	30.0
Left on Cuttings (-)	-43.1
Centrifuge losses	-20.2
Non-Recoverable Vol. (-)	
Est. Total on Location	2623.9
Est. Losses/Gains (-)/(+)	0.0

BIT HYDRAULICS DATA

Bit H.S.I.	Bit ΔP	Nozzles (32nds)		
0.62	98 psi	18	15	15
Bit Impact Force	Nozzle Velocity (ft/sec)	16	16	16
210 lbs	104			

Motor/MWD	Calc. Circ. Pressure
3,100 psi	5,072 psi

Afternoon Remarks/Recommendations:

Sweep Contains:

10 ppb Magmafiber F

10 ppb Newcarb M

10 ppb Newphalt

10 ppb First Resonse

Afternoon Rig Activity:

Drilling 6 3/4" lateral hole section, samples are 100% Austin Chalk. Curve landed at MD 11173, TVD 10590. Reduced the mud wt. to 9.8 ppg through the use of the centrifuge and diesel dilution. Pumping a 10 bbls LCM sweep every 300' in lateral section. Continue with diesel and water additions to maintain OWR, adding Newphalt, sulfonated asphalt for wellbore integrity and to maintain HTHP fluid loss, lime for alkalinity and CaCl2 for WPS requirements.

06/04/20 **Report #34**

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

OUTSOURCE FLUID SOLUTIONS LLC.

0.0° **15,850' TVD**

Operator	Contractor	County / Parish / Block	Engineer Start Date	24 hr ftg.	Drilled Depth
MAGNOLIA OIL & GAS	**PATTERSON**	**WASHINGTON**	**04/22/20**	**2,335 ft**	**15,850 ft**
Well Name and No.	Rig Name and No.	State	Spud Date	Current ROP	Activity
LEVI GOODRICH UNIT 2 - 2H	**248**	**TEXAS**	**04/26/20**	**106 ft/hr**	**Drilling Lateral**
Report for	Report for	Field / OCS-G #	Fluid Type	Circulating Rate	Circulating Pressure
Kevin Burt/James Dyer	**Tool Pusher**	**GIDDINGS**	**OBM**	**378 gpm**	**4,900 psi**

MUD PROPERTY SPECIFICATIONS

Weight	PV	YP	E.S.	CaCl2	GELS	HTHP
9-17	**8-35**	**4-18**	**>400**	**±245K**	**<10 <25**	**<10**
				6/4/20		6/3/20
Time Sample Taken				3:00		11:00
Sample Location				ACTIVE		shaker
Flowline Temperature °F				165 °F		168 °F
Depth (ft)				13,443'		14,450'
Mud Weight (ppg)				9.8		9.8
Funnel Vis (sec/qt)			@ 130 °F	47		42
600 rpm				28		30
300 rpm				17		19
200 rpm				14		15
100 rpm				9		9
6 rpm				6		6
3 rpm				4		5
Plastic Viscosity (cp)			@ 150 °F	11		11
Yield Point (lb/100 ft²)			T0 = 2	6		8
Gel Strength (lb/100 ft²)			10 sec/10 min	5/9		6/9
Gel Strength (lb/100 ft^2)			30 min	14		12
HTHP Filtrate (cm/30 min)			@ 300 °F	7.0		6.4
HTHP Cake Thickness (32nds)				2.0		2.0
Retort Solids Content				14%		12.5%
Corrected Solids (vol%)				12.4%		10.9%
Retort Oil Content				67%		67.5%
Retort Water Content				19%		20%
O/W Ratio				78:22		77:23
Whole Mud Chlorides (mg/L)				40,000		42,000
Water Phase Salinity (ppm)				248,190		247,723
Whole Mud Alkalinity, Pom				2.2		2.0
Excess Lime (lb/bbl)				2.9 ppb		2.6 ppb
Electrical Stability (volts)				501 v		509 v
Average Specific Gravity of Solids				2.90		3.16
Percent Low Gravity Solids				8.5%		5.9%
ppb Low Gravity Solids				70 ppb		48 ppb
Percent Barite				3.9%		5%
ppb Barite				56 ppb		72 ppb
Estimated Total LCM in System			ppb			
Sample Taken By				A. Roman	0	M.Meehan

MUD VOLUME (BBL)

In Pits	694 bbl
In Hole	640 bbl
Active	1334 bbl
Storage	1319 bbl
Tot. on Location	2653 bbl

PUMP #1

Liner Size	5.25
Stroke	12
bbl/stk	0.0763
stk/min	59
gal/min	189

PUMP #2

Liner Size	5.25
Stroke	12
bbl/stk	0.0763
stk/min	59
gal/min	189

RISER BOOSTER

Liner Size	
Stroke	
bbl/stk	0.0000
stk/min	
gal/min	0

CIRCULATION DATA

PHHP = 1081 n = 0.720 K = 97.330

Bit Depth = 15,850 ' Washout = 2% Pump Efficiency = 95%

Drill String Disp.							
88.8 bbl	Volume to Bit	224.0 bbl	Strokes To Bit	2,935	Time To Bit	25 min
	Bottoms Up Vol.	415.7 bbl	BottomsUp Stks	5,447	BottomsUp Time	46 min
	TotalCirc.Vol.	1333.7 bbl	TotalCirc.Stks	17,477	Total Circ. Time	148 min

DRILLING ASSEMBLY DATA

Tubulars	OD (in.)	ID (in.)	Length	Top
Drill Pipe	4.500	3.826	13,114'	0'
Agitator	4.500	3.000	37'	13,114'
Drill Pipe	4.500	3.826	2,553'	13,151'
Dir. BHA	5.250	2.500	145'	15,705'

CASING & HOLE DATA

Casing	OD (in.)	ID (in.)	Depth	Top
Riser	0		0'	
Surface	10 1/2		2,991'	0'
Int. Csg.	7 5/8	6.875	10,273'	0'

Open Hole Size 6.885 15,850'

ANNULAR GEOMETRY & RHEOLOGY

annular section	meas. depth	velocity ft/min	flow reg	ECD lb/gal
6.875x4.5	10,273'	343.1	turb	10.71
6.885x4.5	13,114'	341.4	turb	10.95
6.885x4.5	13,151'	341.4	turb	11.04
6.885x4.5	15,705'	341.4	turb	11.28
6.885x5.25	15,850'	467.2	turb	11.39

BIT DATA Manuf./Type Ulterra/U611s

Size	Depth In	Hours	Footage	ROP ft/hr
6 3/4	10,375 ft	84.0	6,410 ft	76.3

SOLIDS CONTROL

Unit	Screens	Hours
Shaker 1	170	24.0
Shaker 2	170	24.0
Shaker 3	170	24.0
Centrifuge 1		12.0

VOLUME ACCOUNTING (bbls)

Prev. Total on Location	2524.9
Transferred In(+)/Out(-)	
Oil Added (+)	187.2
Barite Added (+)	0.0
Other Product Usage (+)	7.4
Water Added (+)	100.0
Left on Cuttings (-)	-107.5
Centrifuge losses	-24.0
Non-Recoverable Vol. (-)	-35.3
Est. Total on Location	2652.7
Est. Losses/Gains (-)/(+)	0.0

BIT HYDRAULICS DATA

Bit H.S.I.	Bit ΔP	Nozzles (32nds)		
0.57	92 psi	18	15	15
Bit Impact Force	Nozzle Velocity (ft/sec)	16	16	16
197 lbs	103			

Motor/MWD	Calc. Circ. Pressure
3,100 psi	5,134 psi

Remarks/Recommendations:

OBM RECEIVED: (8,400) bbls

OBM ON SURFACE TANKS--2,013 bbls (storage + Active)

TOTAL OBM ON LOCATION: 2653 BBLS

OBM Kill mud on Hand----410bbls //14.4# // $65.00/bbl

Discounted OBM on hand -(593bbl--12.5#)(316bbl--10#) // $15.00/bbl

Rig Activity:

Continue drilling ahead on lateral section of the hole. MW has been lowerd to 9.8ppg, as moderate losses continue. Intruduction of LCM into the active system continue with (First Respose, New Carb and Cyberseal) 3 sxs each respectably every hr. Conservative treatment with Lime for Alkalinity, CaCl2 for WPS.Opti G and New Phalt for Fluid Loss. Constant additions of Diesel and Water to offset evaporation and for dilution. However, LCM in the System reflects increase on Solids % on retort and consequently increase of LGS. Casing pressure on Connections @400psi. Drilling with 380gpm / 4900psi / 140-180ROP on rotation. At this time Well not taking any mud, steady.

Eng. 1:	Eng. 2:	WH 1:	WH 2:	Rig Phone:
Matt Meehan	Adolfo Roman	MIDLAND	WH #2	
Phone: 985-351-7561	Phone: 956-821-9994	Phone: 432-685-4023	Phone: -	

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

	Daily Total	Cumulative Cost
	$6,541.55	**$547,121.83**
INCLUDING 3RD PARTY CHARGES	**$15,066.27**	**$675,720.62**

OUTSOURCE FLUID SOLUTIONS LLC.

MATERIAL CONSUMPTION

Date	Operator	Well Name and No.	Rig Name and No.	Report No.
06/04/20	MAGNOLIA OIL & GAS	LEVI GOODRICH UNIT 2 - 2H	248	Report #34

DAILY USAGE & COST								CUMULATIVE	
Item	Unit	Unit Cost	Previous Inventory	Received	Closing Inventory	Daily Usage	Daily Cost	Cum Usage	Cum Cost
ALUMINUM TRISTEARATE	25# sk	$162.83							
SAPP (50)	50# sk	$44.50						31	$1,379.50
PHPA LIQUID (pail)	5 gal	$41.36						2	$82.72
DYNA DET	pail	$32.23						4	$128.92
DYNAFIBER C	25# sk	$53.67	70		40	30	$1,610.10	48	$2,576.16
DYNAFIBER MED	25# sk	$53.67	85		85			35	$1,878.45
FIBER PLUG	40# sk	$30.37	30		30			10	$303.70
CACL2 (50)	50# sk	$16.60	125		110	15	$249.00	463	$7,685.80
LIME (50)	50# sk	$5.00	125		110	15	$75.00	440	$2,200.00
BENTONE 910 (50)	50# sk	$59.94	30		30			40	$2,397.60
BENTONE 990 (50)	50# sk	$83.59	40		35	5	$417.95	45	$3,761.55
OPTI G	50# sk	$30.59	80		80			160	$4,894.40
OPTI MUL HP	gal	$10.75	400		300	100	$1,075.00	625	$6,718.75
OPTI WET	gal	$8.34	440		330	110	$917.40	485	$4,044.90
NEW PHALT	50# sk	$38.72	40		40			120	$4,646.40
NEWCARB 200	50# sk	$5.25	60		36	24	$126.00	134	$703.50
MAGMAFIBER F (25)	25# sk	$28.05	35		35			159	$4,459.95
OIL SORB (25)	25# sk	$4.75	40		40				
PHPA LIQUID (pail)	5 gal	$41.36	88		88			9	$372.24
GEL (100)	100# sk		70		70				
BENTONE 38 (50)	50# sk	$163.94	20		20			20	$3,278.80
CYBERSEAL	25# sk	$21.47	200		200			48	$1,030.56
Evo-Lube	gal	$9.31	975		975			125	$1,163.75
CAL CARB COARSE (50)	50# sk	$5.37	120		90	30	$161.10	30	$161.10
MAGMAFIBER R (30)	30# sk	$28.05	80		80				
NEW-WATE (SACK BARITE)	100# sk	$11.50	160		160				
BARITE BULK (100)	100# sk	$7.00	1550		1550			4016	$28,112.00
OPTI DRILL (OBM)	bbl	$65.00	890		890			5526	$359,190.00
Magnolia Owned OBM	bbl		721	128	849			568	
Discounted High LGS OBM	bbl	$15.00	914		914			1716	$25,740.00
ENGINEERING (24 HR)	each	$925.00				2	$1,850.00	64	$59,200.00
ENGINEERING (DIEM)	bbl	$30.00				2	$60.00	64	$1,920.00
ENGINEERING (MILES)	each	$1.00						1049	$1,049.00
TRUCKING (cwt)	each	$2.50						6000	$15,000.08
TRUCKING (min)	each	$795.00						2	$1,590.00
PALLETS (ea)	each	$12.00						62	$744.00
SHRINK WRAP (ea)	each	$12.00						59	$708.00
		Daily Sub-Total $6,541.55			**Cumulative Total $547,121.83**			**$547,121.83**	

THIRD PARTY COST SHEET

Date	Operator	Well Name and No.	Rig Name and No.	Report No.
06/04/20	**MAGNOLIA OIL & GAS**	**LEVI GOODRICH UNIT 2 - 2H**	**248**	**Report #34**

DAILY USAGE & COST								CUMULATIVE	
Item	Unit	Unit Cost	Previous Inventory	Received	Closing Inventory	Daily Usage	Daily Cost	Cum Usage	Cum Cost
Diesel 4/25/20	gal	$0.91							
Diesel 5/6/20	gal	$0.90						5040	$4,536.00
Diesel 5/8/20	gal	$0.93						7302	$6,790.86
Diesel 5/9/20	gal	$0.96						7006	$6,725.76
Diesel 5/10/20	gal	$0.97						7300	$7,081.00
Diesel 5/14/20	gal	$0.98						7400	$7,252.00
Diesel 5/15/20	gal	$0.97						6750	$6,547.50
Diesel 5/16/20	gal	$1.03						7100	$7,313.00
Diesel 5/17/20	gal	$1.03						7634	$7,863.02
Diesel 5/17/20 Load #2	gal	$1.03						7402	$7,624.06
Diesel 5/19/ 20	gal	$1.06						6221	$6,594.26
Diesel 5/19/20	gal	$1.06						7301	$7,739.06
TurboChem First Response	each	$41.75	220		220			280	$11,690.00
TurboChem Pallets	each	$20.00	5		5			5	$100.00
TurboChem Shrink Wrap	each	$20.00	5		5			5	$100.00
Diesel 5/22/20	gal	$1.11						5545	$6,154.95
DIESEL 5/25/20	gal	$1.12						7404	$8,292.48
DIESEL 05/26/20	gal	$1.12						7201	$8,065.12
DIESEL 05/26/20	gal	$1.13						7202	$8,138.26
DIESEL 06/02/20	gal	$1.13	5904			5904	$6,671.52	7202	$8,138.26
DIESEL 06/03/20	gal	$1.13		7400	5760	1640	$1,853.20	1640	$1,853.20
					Daily Sub-Total $8,524.72			**$128,598.79**	

Cumulative Total AES & 3rd Party $675,720.62

OUTSOURCE FLUID SOLUTIONS LLC.

FLUID VOLUME ACCOUNTING

Operator:	MAGNOLIA OIL & GAS
Rig Name:	248
Well Name:	LEVI GOODRICH UNIT 2 - 2H

		WEEK 1							WEEK 2							WEEK 3						
	Date	5/9/20	5/10/20	5/11/20	5/12/20	5/13/20	5/14/20	5/15/20	5/16/20	5/17/20	5/18/20	5/19/20	5/20/20	5/21/20	5/22/20	5/23/20	5/24/20	5/25/20	5/26/20	5/27/20	5/28/20	5/29/20
		Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri
	Bit Size	9 7/8	9 7/8	9 7/8	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4
Grand Totals	Starting Depth	3,000	4,915	10,102	10,284	10,284	10,284	10,380	11,970	11,970	14,305	15,905	16,662	16,940	16,027	16,029	16,029	16,029	16,029	16,029	11,100	11,100
	Ending Depth	4,915	10,102	10,284	10,284	10,284	10,380	11,970	11,970	14,305	15,905	16,662	16,940	16,027	16,029	16,029	16,029	16,029	16,029	11,100	11,100	11,100
19,622	Footage Drilled	1,915	5,187	182	-	-	96	1,590	-	2,335	1,600	757	278	-	2	-	-	-	-	-	-	-
1,237	New Hole Vol.	182	491	17	-	-	4	70	-	103	71	34	12	-	0	-	-	-	-	-	-	-
	Starting System Volume	2,395	2,448	2,477	2,020	2,436	2,738	2,755	2,753	2,348	2,141	715	1,829	1,664	2,075	1,555	2,403	1,971	2,857	3,290	2,975	2,894
140	Chemical Additions	11	17			6	4	8	1	25	11	-	-	2	-	-	-	-	5	4	-	2
2,551	Base Fluid Added	129	304	34	47	5	26	185	118	308	183	46	215	3	82	18	18	80	171	146	15	26
279	Barite Increase		28	10			7	26	26	2	29	-	8	-	-	-	20	28	14	22	14	7
6,236	Weighted Mud Added				421	291				208	-	744	-	526	-	916	782	1,537	811	-	-	-
-	Slurry Added										-	-	-	-	-	-	-	-	-	-	-	-
26,156	Water Added	16	56							107	384	10,371	1,590	11,756	500	279	200	91	564	-	-	-
191	Added for Washout	48	48	39							-	-	-	-	-	-	-	-	-	-	-	56
35,553	Total Additions	204	453	83	468	302	37	219	145	650	607	11,161	1,813	12,287	582	1,213	1,020	1,736	1,565	172	29	91
480	Surface Losses	7	23	74	10		16	40	30	30	-		-	-	-	-	-	-	-	217	-	-
31,198	Formation Loss			18				105	500	705	326	10,047	1,978	11,875	1,102	365	1,452	850	1,132	270	77	-
1,048	Mud Loss to Cuttings	132	383	19			4	76		108	75		-	-	-	-	-	-	-	-	-	-
399	Unrecoverable Volume			42	42				20		-		-	-	-	-	-	-	-	-	33	73
156	Centrifuge Losses	12	18	5						15	-		-	-	-	-	-	-	-	-	-	-
33,281	Total Losses	151	425	158	52	-	20	221	550	857	401	10,047	1,978	11,875	1,102	365	1,452	850	1,132	487	110	73
2,014	Mud Transferred Out			382							1,632											
2,653	Ending System Volume	2,448	2,477	2,020	2,436	2,738	2,755	2,753	2,348	2,141	715	1,829	1,664	2,075	1,555	2,403	1,971	2,857	3,290	2,975	2,894	2,912
130	Mud Recovered		130																			

6,617

Comments:		Comments:		Comments:	
5/9/20	Trans in 2101bbls skid vol. Casing had 293bbls F surface displacement. Mud lost to Cuttings 132.1bbls, Evap 6.6, Cent 12bbls	5/16/20	Mud Lost to partial losses due to seepage and trip surge 500-bbls, Evap 20-bbls, Pit Settlement 10-bbls and Tripping out 20-bbls	5/23/20	Pump Kill mud on back side, Pick up fishing tools and TIH. Tag fish and hook on to it. Start POOH.
5/10/20	Mud lost to Cuttings 383.4-bbls, Evap 23.2-bbls and Cent. 18-bbls. Mud recovered from, shaker tank runoff due to sweeps and ROC's 129.7-bbls	5/17/20	Mud Lost to Formation 705-bbls. Mud lost to Cuttings 108-bbls, Evap 19.56, Pits 10-bbls and Cent. 14.54bbls	5/24/20	Kill well with fishing tools in. Top of fish 11100'… Work fishing tools through 18* dog legs. Receive 782bbls OBM
5/11/20	Returned 382-bbls to Newpark. Mud Lost Cuttings 19-bbls, Cent 5-bbls, Evap 12.5, TOOH/TIH 35-bbls, Shaker Run off 42.2-bbls and Trucking 26-bbls	5/18/20	Drilling under Mud Cap. Fresh water pumped down hole to continue drilling.	5/25/20	POOH to reset fishing tools and TIH for fish (3rd attempt). Continue to Pump Down DP and back side to kill well. Received 1537bbls OBM.
5/12/20	Rec. 421-bbls 16.0 (KILL) lost 10-bbls to Trucking In… Mud lost to spacer contamination 42-bbls	5/19/20	Drilling under Mud Cap. Fresh water pumped down hole to continue drilling.	5/26/20	Jaring on stuck pipe. Mix Isolation sweep for intentionaly plug DP in the hole.
5/13/20	Lost 10.2-bbls to Pit Settlement	5/20/20	Side Track time drilling 16027. Continue pumping fresh water down hole with 13# mud cap on back side.	5/27/20	Un latch from fish, Circulate while increasing MW to 10.7ppg. Well continue to take mud. LCM mix in active system.Kill well POOH to shoe, pump balance plug to POOH and pick up stinger
5/14/20	Mud Lost to Cutting 3.5-bbls, Evap 6-bbls and Pit Settlement 10-bbls	5/21/20	Side Track time drilling 16027. Continue pumping fresh water down hole with 13# mud cap on back side.	5/28/20	POOH lay down Fishing tools. Pick up 2 7/8" stinger and TIH for set up of cement plug. Stage in the hole, circulating Surf. Surf every time.
5/15/20	Mud Lost to Cuttings 76-bbls, Evap 21-bbls, Pits 10-bbls Cent. 9-bbls. Patrial Losses to formation 105-bbls	5/22/20	Work stuck pipe free, Dry ream up to 15780, resume pump fresh water. Kill well and POOH.	5/29/20	Pump Cement plug. POOH 20stans and circulate Sur-surf. POOH lay down DP. Cut MW in the active system 9.8ppg.

OUTSOURCE FLUID SOLUTIONS LLC.

FLUID VOLUME ACCOUNTING

Operator:	MAGNOLIA OIL & GAS
Rig Name:	248
Well Name:	LEVI GOODRICH UNIT 2 - 2H

Grand Totals		WEEK 4							WEEK 5							WEEK 6						
	Date	5/30/20	5/31/20	6/1/20	6/2/20	6/3/20	6/4/20	6/5/20	6/6/20	6/7/20	6/8/20	6/9/20	6/10/20	6/11/20	6/12/20	6/13/20	6/14/20	6/15/20	6/16/20	6/17/20	6/18/20	6/19/20
		Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri
	Bit Size	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4															
	Starting Depth	11,100	11,100	10,170	10,424	11,026	13,515	15,850														
	Ending Depth	11,100	10,170	10,424	11,026	13,515	15,850															
19,622	Footage Drilled	-	-	254	602	2,489	2,335	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,237	New Hole Vol.	-	-	11	27	110	103	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Starting System Volume	2,912	2,915	2,838	2,863	2,889	2,525	2,653	2,653	2,653	2,653	2,653	2,653	2,653	2,653	2,653	2,653	2,653	2,653	2,653	2,653	2,653
140	Chemical Additions	-	3	12	8	13	7															
2,551	Base Fluid Added	18	16	25	58	88	187															
279	Barite Increase	7	31	-	-	-	-															
6,236	Weighted Mud Added	-	-	-	-	-	-															
-	Slurry Added	-	-	-	-	-	-															
26,156	Water Added	-	-	24	48	70	100															
191	Added for Washout	-	-	-	-	-	-															
35,553	Total Additions	25	50	61	114	171	295	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
480	Surface Losses	-	-	33	-	-	-															
31,198	Formation Loss	-	-	-	-	361	35															
1,048	Mud Loss to Cuttings	-	-	2	28	114	108															
399	Unrecoverable Volume	-	128	-	62	-	-															
156	Centrifuge Losses	22		-	-	60	24															
33,281	Total Losses	22	128	35	89	535	167	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,014	Mud Transferred Out																					
2,653	Ending System Volume	2,915	2,838	2,863	2,889	2,525	2,653	2,653	2,653	2,653	2,653	2,653	2,653	2,653	2,653	2,653	2,653	2,653	2,653	2,653	2,653	2,653
130	Mud Recovered																					

6,617

Comments:		Comments:	Comments:
5/30/20	Finish lay down DP, Change out Drill line spool and Test BOP's. stage new DP on pipe racks for pick up .	6/6/20	6/13/20
5/31/20	TIH with new DP. Circulate top of the cement plug, Gas up 4000units. Condition MW to 11.1ppg. 127bbls lost below cement plug.	6/7/20	6/14/20
6/1/20	POOH to change out BHA. TIH resume drilling on side track. Maintain MW 11.1ppg.	6/8/20	6/15/20
6/2/20	Drilling ahead on curve section. MW drop to 10.5 with diesel and Centrifuge.	6/9/20	6/16/20
6/3/20	Curve landed. Drilling lateral. @12500' well taking mud. Continue pumping 400gpm, Casing pressure on connections 450-550psi.	6/10/20	6/17/20
6/4/20	Drilling ahead on Lateral section. Well taking some to 0 mud . LCM into the active and Pumping sweeps every 300' (20bbls) LCM.Casing prss. 400psi / Pump 380gpm / 180rop on rotation.	6/11/20	6/18/20
6/5/20		6/12/20	6/19/20

06/05/20 **Report #35**

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

OUTSOURCE FLUID SOLUTIONS LLC.

0.0° **16,273' TVD**

Operator	Contractor	County / Parish / Block	Engineer Start Date	24 hr ftg.	Drilled Depth
MAGNOLIA OIL & GAS	**PATTERSON**	**WASHINGTON**	**04/22/20**	**423 ft**	**16,273 ft**
Well Name and No.	Rig Name and No.	State	Spud Date	Current ROP	Activity
LEVI GOODRICH UNIT 2 - 2H	**248**	**TEXAS**	**04/26/20**	**106 ft/hr**	**POOH**
Report for	Report for	Field / OCS-G #	Fluid Type	Circulating Rate	Circulating Pressure
Kevin Burt/Jim Harrison	**Tool Pusher**	**GIDDINGS**	**OBM**	**160 gpm**	**3,483 psi**

MUD PROPERTY SPECIFICATIONS							MUD VOLUME (BBL)		PUMP #1		PUMP #2		RISER BOOSTER	
Weight	PV	YP	E.S.	CaCl2	GELS	HTHP	In Pits	743 bbl	Liner Size	5.25	Liner Size	5.25	Liner Size	
9-17	**8-35**	**4-18**	**>400**	**±250K**	**<10 <25**	**<10**	In Hole	726 bbl	Stroke	12	Stroke	12	Stroke	
				6/5/20		6/4/20	Active	887 bbl	bbl/stk	0.0763	bbl/stk	0.0763	bbl/stk	0.0000
Time Sample Taken				3:00		11:00	Storage	1147 bbl	stk/min	0	stk/min	50	stk/min	
Sample Location				ACTIVE		shaker	Tot. on Location	2616 bbl	gal/min	0	gal/min	160	gal/min	0

Flowline Temperature °F						168 °F	PHHP = 326		**CIRCULATION DATA**						n = 0.688	K = 125.689
Depth (ft)				16,273'		16,273'	Bit Depth = 3,620 '				Washout = 2%				Pump Efficiency = 95%	
Mud Weight (ppg)				9.9		9.8	Drill String Disp.	Volume to Bit	50.1 bbl		Strokes To Bit	656			Time To Bit	13 min
Funnel Vis (sec/qt)		@ 115 °F		49		45		Bottoms Up Vol.	94.0 bbl		BottomsUp Stks	1,231			BottomsUp Time	25 min
600 rpm				29		30	22.2 bbl	TotalCirc.Vol.	887.1 bbl		TotalCirc.Stks	11,625			Total Circ. Time	232 min
300 rpm				18		19	**DRILLING ASSEMBLY DATA**						**SOLIDS CONTROL**			
200 rpm				14		15	Tubulars	OD (in.)	ID (in.)	Length	Top		Unit	Screens	Hours	
100 rpm				9		10	Drill Pipe	4.500	3.826	884'	0'		Shaker 1	170	18.0	
6 rpm				6		6	Agitator	4.500	3.000	37'	884'		Shaker 2	170	18.0	
3 rpm				4		5	Drill Pipe	4.500	3.826	2,553'	921'		Shaker 3	170	18.0	
Plastic Viscosity (cp)		@ 150 °F		11		11	Dir. BHA	5.250	2.500	145'	3,475'		Centrifuge 1		6.0	
Yield Point (lb/100 ft²)		T0 =	2	7		8	**CASING & HOLE DATA**									
Gel Strength (lb/100 ft²)		10 sec/10 min		6/9		6/9	Casing	OD (in.)	ID (in.)	Depth	Top					
Gel Strength (lb/100 ft²)		30 min		15		13	Riser	0		0'			**VOLUME ACCOUNTING (bbls)**			
HTHP Filtrate (cm/30 min)		@ 300 °F		6.0		6.4	Surface	10 1/2		2,991'	0'		Prev. Total on Location			2652.7
HTHP Cake Thickness (32nds)				2.0		2.0	Int. Csg.	7 5/8	6.875	10,273'	0'		Transferred In(+)/Out(-)			
Retort Solids Content				13%		14%							Oil Added (+)			107.0
Corrected Solids (vol%)				11.4%		12.3%							Barite Added (+)			17.4
Retort Oil Content				69%		66%	Open Hole Size		6.885	16,273'			Other Product Usage (+)			3.1
Retort Water Content				18%		20%	**ANNULAR GEOMETRY & RHEOLOGY**						Water Added (+)			0.0
O/W Ratio				79:21		77:23	annular section	meas. depth	velocity ft/min	flow reg	ECD lb/gal		Left on Cuttings (-)			-19.5
Whole Mud Chlorides (mg/L)				40,000		43,000							Centrifuge losses			-18.0
Water Phase Salinity (ppm)				258,415		252,134							Non-Recoverable Vol. (-)			-126.8
Whole Mud Alkalinity, Pom				1.8		2.3	6.875x4.5	884'	145.4	lam			Est. Total on Location			2615.9
Excess Lime (lb/bbl)				2.3 ppb		3 ppb	6.875x4.5	921'	145.4	lam			Est. Losses/Gains (-)/(+)			0.0
Electrical Stability (volts)				521 v		508 v	6.875x4.5	3,475'	145.4	lam	10.42		**BIT HYDRAULICS DATA**			
Average Specific Gravity of Solids				3.21		2.88	6.875x5.25	3,620'	199.3	lam	10.63		Bit H.S.I.	Bit ΔP	Nozzles (32nds)	
Percent Low Gravity Solids				5.8%		8.6%							0.04	17 psi	18 15 15	
ppb Low Gravity Solids				48 ppb		71 ppb							Bit Impact Force	Nozzle Velocity (ft/sec)	16 16 16	
Percent Barite				5.6%		3.7%										
ppb Barite				80 ppb		53 ppb	**BIT DATA**		Manuf./Type		Ulterra/U611s		36 lbs	43		
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.Meehan	6 3/4	10,375 ft	97.0	6,823 ft	70.3		2,800 psi		2,961 psi	

Remarks/Recommendations:

OBM RECEIVED: (8,400) bbls

OBM ON SURFACE TANKS--1,892 bbls (storage + Active)

TOTAL OBM ON LOCATION: 2,616 BBLS

OBM Kill mud on Hand----311bbls //14.4# // $65.00/bbl

Discounted OBM on hand -(617bbl--12#)(219bbl--9.8#) // $15.00/bbl

Rig Activity:

Drilled 6 3/4" hole to 16,273', as cuttings samples show indications of EagleFord Formation, an attempt to Slide out of it was attempted howerver unsuccessful. Hole packed off traping Drill String. Work Drill string free, and pull up to 16100'. Pump LCM sweep to clean hole. TD was called at this point. Pump 3 sweeps for clean up cycle and circulated 5 BU. As floats on Drill string fail, Slug was pumped and Kill mud was use to fill up back side with calculated fill while stripping up to the shoe (10,274'). 0psi on Casing and DP, well in static condition. Perform Rig service while monitoring Well on Trip Tanks. Pump additions 36bbls of kill mud (16ppg) down DP and continue POOH to run casing. At this time Well in stable conditions, taking proper fill. Bit passing 3000'.

Eng. 1:	Matt Meehan	Eng. 2:	Adolfo Roman	WH 1:	MIDLAND	WH 2:	WH #2	Rig Phone:	Daily Total	Cumulative Cost
Phone:	985-351-7561	Phone:	956-821-9994	Phone:	432-685-4023	Phone:	-			

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

$7,188.00 **$554,309.83**

INCLUDING 3RD PARTY CHARGES **$12,951.38** **$689,507.00**

OUTSOURCE FLUID SOLUTIONS LLC.

MATERIAL CONSUMPTION

Date	Operator	Well Name and No.	Rig Name and No.	Report No.
06/05/20	MAGNOLIA OIL & GAS	LEVI GOODRICH UNIT 2 - 2H	248	Report #35

DAILY USAGE & COST								CUMULATIVE	
Item	Unit	Unit Cost	Previous Inventory	Received	Closing Inventory	Daily Usage	Daily Cost	Cum Usage	Cum Cost
ALUMINUM TRISTEARATE	25# sk	$162.83							
SAPP (50)	50# sk	$44.50						31	$1,379.50
PHPA LIQUID (pail)	5 gal	$41.36						2	$82.72
DYNA DET	pail	$32.23						4	$128.92
DYNAFIBER C	25# sk	$53.67	40			40	$2,146.80	88	$4,722.96
DYNAFIBER MED	25# sk	$53.67	85		85			35	$1,878.45
FIBER PLUG	40# sk	$30.37	30		30			10	$303.70
CACL2 (50)	50# sk	$16.60	110		110			463	$7,685.80
LIME (50)	50# sk	$5.00	110		110			440	$2,200.00
BENTONE 910 (50)	50# sk	$59.94	30		30			40	$2,397.60
BENTONE 990 (50)	50# sk	$83.59	35		35			45	$3,761.55
OPTI G	50# sk	$30.59	80		80			160	$4,894.40
OPTI MUL HP	gal	$10.75	300		275	25	$268.75	650	$6,987.50
OPTI WET	gal	$8.34	330		330			485	$4,044.90
NEW PHALT	50# sk	$38.72	40		40			120	$4,646.40
NEWCARB 200	50# sk	$5.25	36		36			134	$703.50
MAGMAFIBER F (25)	25# sk	$28.05	35		20	15	$420.75	174	$4,880.70
OIL SORB (25)	25# sk	$4.75	40		30	10	$47.50	10	$47.50
PHPA LIQUID (pail)	5 gal	$41.36	88		88			9	$372.24
GEL (100)	100# sk		70		70				
BENTONE 38 (50)	50# sk	$163.94	20		20			20	$3,278.80
CYBERSEAL	25# sk	$21.47	200		180	20	$429.40	68	$1,459.96
Evo-Lube	gal	$9.31	975		975			125	$1,163.75
CAL CARB COARSE (50)	50# sk	$5.37	90		50	40	$214.80	70	$375.90
MAGMAFIBER R (30)	30# sk	$28.05	80		80				
NEW-WATE (SACK BARITE)	100# sk	$11.50	160		160				
BARITE BULK (100)	100# sk	$7.00	1550		1300	250	$1,750.00	4266	$29,862.00
OPTI DRILL (OBM)	bbl	$65.00	890		890			5526	$359,190.00
Magnolia Owned OBM	bbl		849		812	37		605	
Discounted High LGS OBM	bbl	$15.00	914		914			1716	$25,740.00
ENGINEERING (24 HR)	each	$925.00				2	$1,850.00	66	$61,050.00
ENGINEERING (DIEM)	bbl	$30.00				2	$60.00	66	$1,980.00
ENGINEERING (MILES)	each	$1.00						1049	$1,049.00
TRUCKING (cwt)	each	$2.50						6000	$15,000.08
TRUCKING (min)	each	$795.00						2	$1,590.00
PALLETS (ea)	each	$12.00						62	$744.00
SHRINK WRAP (ea)	each	$12.00						59	$708.00
		Daily Sub-Total $7,188.00			**Cumulative Total $554,309.83**			**$554,309.83**	

THIRD PARTY COST SHEET

Date	Operator	Well Name and No.	Rig Name and No.	Report No.
06/05/20	MAGNOLIA OIL & GAS	LEVI GOODRICH UNIT 2 - 2H	248	Report #35

DAILY USAGE & COST								CUMULATIVE	
Item	Unit	Unit Cost	Previous Inventory	Received	Closing Inventory	Daily Usage	Daily Cost	Cum Usage	Cum Cost
Diesel 4/25/20	gal	$0.91							
Diesel 5/6/20	gal	$0.90						5040	$4,536.00
Diesel 5/8/20	gal	$0.93						7302	$6,790.86
Diesel 5/9/20	gal	$0.96						7006	$6,725.76
Diesel 5/10/20	gal	$0.97						7300	$7,081.00
Diesel 5/14/20	gal	$0.98						7400	$7,252.00
Diesel 5/15/20	gal	$0.97						6750	$6,547.50
Diesel 5/16/20	gal	$1.03						7100	$7,313.00
Diesel 5/17/20	gal	$1.03						7634	$7,863.02
Diesel 5/17/20 Load #2	gal	$1.03						7402	$7,624.06
Diesel 5/19/ 20	gal	$1.06						6221	$6,594.26
Diesel 5/19/20	gal	$1.06						7301	$7,739.06
TurboChem First Response	each	$41.75	200		180	20	$835.00	320	$13,360.00
TurboChem Pallets	each	$20.00	5		4	1	$20.00	6	$120.00
TurboChem Shrink Wrap	each	$20.00	5		4	1	$20.00	6	$120.00
Diesel 5/22/20	gal	$1.11						5545	$6,154.95
DIESEL 5/25/20	gal	$1.12						7404	$8,292.48
DIESEL 05/26/20	gal	$1.12						7201	$8,065.12
DIESEL 05/26/20	gal	$1.13						7202	$8,138.26
DIESEL 06/02/20	gal	$1.13						7202	$8,138.26
DIESEL 06/03/20	gal	$1.13	5760		1434	4326	$4,888.38	5966	$6,741.58
DIESEL 06/04/20	gal	$1.19		7398	7398				
							Daily Sub-Total $5,763.38		$135,197.17

Cumulative Total AES & 3rd Party $689,507.00

OUTSOURCE FLUID SOLUTIONS LLC.

FLUID VOLUME ACCOUNTING

Operator:	MAGNOLIA OIL & GAS
Rig Name:	248
Well Name:	LEVI GOODRICH UNIT 2 - 2H

		WEEK 1							WEEK 2							WEEK 3						
	Date	5/9/20	5/10/20	5/11/20	5/12/20	5/13/20	5/14/20	5/15/20	5/16/20	5/17/20	5/18/20	5/19/20	5/20/20	5/21/20	5/22/20	5/23/20	5/24/20	5/25/20	5/26/20	5/27/20	5/28/20	5/29/20
		Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri
	Bit Size	9 7/8	9 7/8	9 7/8	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4
Grand Totals	Starting Depth	3,000	4,915	10,102	10,284	10,284	10,284	10,380	11,970	11,970	14,305	15,905	16,662	16,940	16,027	16,029	16,029	16,029	16,029	16,029	11,100	11,100
	Ending Depth	4,915	10,102	10,284	10,284	10,284	10,380	11,970	11,970	14,305	15,905	16,662	16,940	16,027	16,029	16,029	16,029	16,029	16,029	11,100	11,100	11,100
20,045	Footage Drilled	1,915	5,187	182	-	-	96	1,590	-	2,335	1,600	757	278	-	2	-	-	-	-	-	-	-
1,256	New Hole Vol.	182	491	17	-	-	4	70	-	103	71	34	12	-	0	-	-	-	-	-	-	-
	Starting System Volume	2,395	2,448	2,477	2,020	2,436	2,738	2,755	2,753	2,348	2,141	715	1,829	1,664	2,075	1,555	2,403	1,971	2,857	3,290	2,975	2,894
143	Chemical Additions	11	17			6	4	8	1	25	11	-	-	2	-	-	-	-	5	4	-	2
2,658	Base Fluid Added	129	304	34	47	5	26	185	118	308	183	46	215	3	82	18	18	80	171	146	15	26
296	Barite Increase		28	10			7	26	26	2	29	-	8	-	-	-	20	28	14	22	14	7
6,236	Weighted Mud Added				421	291				208	-	744	-	526	-	916	782	1,537	811	-	-	-
-	Slurry Added										-	-	-	-	-	-	-	-	-	-	-	-
26,156	Water Added	16	56							107	384	10,371	1,590	11,756	500	279	200	91	564	-	-	-
191	Added for Washout	48	48	39							-	-	-	-	-	-	-	-	-	-	-	56
35,680	Total Additions	204	453	83	468	302	37	219	145	650	607	11,161	1,813	12,287	582	1,213	1,020	1,736	1,565	172	29	91
480	Surface Losses	7	23	74	10		16	40	30	30	-		-	-	-	-	-	-	-	217	-	-
31,235	Formation Loss			18				105	500	705	326	10,047	1,978	11,875	1,102	365	1,452	850	1,132	270	77	-
1,068	Mud Loss to Cuttings	132	383	19			4	76		108	75		-	-	-	-	-	-	-	-	-	-
488	Unrecoverable Volume			42	42				20		-		-	-	-	-	-	-	-	-	33	73
174	Centrifuge Losses	12	18	5						15	-		-	-	-	-	-	-	-	-	-	-
33,445	Total Losses	151	425	158	52	-	20	221	550	857	401	10,047	1,978	11,875	1,102	365	1,452	850	1,132	487	110	73
2,014	Mud Transferred Out			382							1,632											
2,616	Ending System Volume	2,448	2,477	2,020	2,436	2,738	2,755	2,753	2,348	2,141	715	1,829	1,664	2,075	1,555	2,403	1,971	2,857	3,290	2,975	2,894	2,912
130	Mud Recovered		130																			

6,617

Comments:		Comments:		Comments:	
5/9/20	Trans in 2101bbls skid vol. Casing had 293bbls F surface displacement. Mud lost to Cuttings 132.1bbls, Evap 6.6, Cent 12bbls	5/16/20	Mud Lost to partial losses due to seepage and trip surge 500-bbls, Evap 20-bbls, Pit Settlement 10-bbls and Tripping out 20-bbls	5/23/20	Pump Kill mud on back side, Pick up fishing tools and TIH. Tag fish and hook on to it. Start POOH.
5/10/20	Mud lost to Cuttings 383.4-bbls, Evap 23.2-bbls and Cent. 18-bbls. Mud recovered from, shaker tank runoff due to sweeps and ROC's 129.7-bbls	5/17/20	Mud Lost to Formation 705-bbls. Mud lost to Cuttings 108-bbls, Evap 19.56, Pits 10-bbls and Cent. 14.54bbls	5/24/20	Kill well with fishing tools in. Top of fish 11100'… Work fishing tools through 18* dog legs. Receive 782bbls OBM
5/11/20	Returned 382-bbls to Newpark. Mud Lost Cuttings 19-bbls, Cent 5-bbls, Evap 12.5, TOOH/TIH 35-bbls, Shaker Run off 42.2-bbls and Trucking 26-bbls	5/18/20	Drilling under Mud Cap. Fresh water pumped down hole to continue drilling.	5/25/20	POOH to reset fishing tools and TIH for fish (3rd attempt). Continue to Pump Down DP and back side to kill well. Received 1537bbls OBM.
5/12/20	Rec. 421-bbls 16.0 (KILL) lost 10-bbls to Trucking In… Mud lost to spacer contamination 42-bbls	5/19/20	Drilling under Mud Cap. Fresh water pumped down hole to continue drilling.	5/26/20	Jaring on stuck pipe. Mix Isolation sweep for intentionaly plug DP in the hole.
5/13/20	Lost 10.2-bbls to Pit Settlement	5/20/20	Side Track time drilling 16027. Continue pumping fresh water down hole with 13# mud cap on back side.	5/27/20	Un latch from fish, Circulate while increasing MW to 10.7ppg. Well continue to take mud. LCM mix in active system.Kill well POOH to shoe, pump balance plug to POOH and pick up stinger
5/14/20	Mud Lost to Cutting 3.5-bbls, Evap 6-bbls and Pit Settlement 10-bbls	5/21/20	Side Track time drilling 16027. Continue pumping fresh water down hole with 13# mud cap on back side.	5/28/20	POOH lay down Fishing tools. Pick up 2 7/8" stinger and TIH for set up of cement plug. Stage in the hole, circulating Surf. Surf every time.
5/15/20	Mud Lost to Cuttings 76-bbls, Evap 21-bbls, Pits 10-bbls Cent. 9-bbls. Patrial Losses to formation 105-bbls	5/22/20	Work stuck pipe free, Dry ream up to 15780, resume pump fresh water. Kill well and POOH.	5/29/20	Pump Cement plug. POOH 20stans and circulate Sur-surf. POOH lay down DP. Cut MW in the active system 9.8ppg.

OUTSOURCE FLUID SOLUTIONS LLC.

FLUID VOLUME ACCOUNTING

Operator:	MAGNOLIA OIL & GAS
Rig Name:	248
Well Name:	LEVI GOODRICH UNIT 2 - 2H

Grand Totals		WEEK 4							WEEK 5							WEEK 6						
	Date	5/30/20	5/31/20	6/1/20	6/2/20	6/3/20	6/4/20	6/5/20	6/6/20	6/7/20	6/8/20	6/9/20	6/10/20	6/11/20	6/12/20	6/13/20	6/14/20	6/15/20	6/16/20	6/17/20	6/18/20	6/19/20
		Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri
	Bit Size	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4														
	Starting Depth	11,100	11,100	10,170	10,424	11,026	13,515	15,850	16,273													
	Ending Depth	11,100	10,170	10,424	11,026	13,515	15,850	16,273														
20,045	Footage Drilled	-	-	254	602	2,489	2,335	423	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,256	New Hole Vol.	-	-	11	27	110	103	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Starting System Volume	2,912	2,915	2,838	2,863	2,889	2,525	2,653	2,616	2,616	2,616	2,616	2,616	2,616	2,616	2,616	2,616	2,616	2,616	2,616	2,616	2,616
143	Chemical Additions	-	3	12	8	13	7	3														
2,658	Base Fluid Added	18	16	25	58	88	187	107														
296	Barite Increase	7	31	-	-	-	-	17														
6,236	Weighted Mud Added	-	-	-	-	-	-	-														
-	Slurry Added	-	-	-	-	-	-	-														
26,156	Water Added	-	-	24	48	70	100	-														
191	Added for Washout	-	-	-	-	-	-	-														
35,680	Total Additions	25	50	61	114	171	295	127	-	-	-	-	-	-	-	-	-	-	-	-	-	-
480	Surface Losses	-	-	33	-	-	-	-														
31,235	Formation Loss	-	-	-	-	361	35	37														
1,068	Mud Loss to Cuttings	-	-	2	28	114	108	20														
488	Unrecoverable Volume	-	128	-	62	-	-	89														
174	Centrifuge Losses	22		-	-	60	24	18														
33,445	Total Losses	22	128	35	89	535	167	164	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,014	Mud Transferred Out																					
2,616	Ending System Volume	2,915	2,838	2,863	2,889	2,525	2,653	2,616	2,616	2,616	2,616	2,616	2,616	2,616	2,616	2,616	2,616	2,616	2,616	2,616	2,616	2,616
130	Mud Recovered																					

6,617

Comments:		Comments:	Comments:
5/30/20	Finish lay down DP, Change out Drill line spool and Test BOP's. stage new DP on pipe racks for pick up .	6/6/20	6/13/20
5/31/20	TIH with new DP. Circulate top of the cement plug, Gas up 4000units. Condition MW to 11.1ppg. 127bbls lost below cement plug.	6/7/20	6/14/20
6/1/20	POOH to change out BHA. TIH resume drilling on side track. Maintain MW 11.1ppg.	6/8/20	6/15/20
6/2/20	Drilling ahead on curve section. MW drop to 10.5 with diesel and Centrifuge.	6/9/20	6/16/20
6/3/20	Curve landed. Drilling lateral. @12500' well taking mud. Continue pumping 400gpm, Casing pressure on connections 450-550psi.	6/10/20	6/17/20
6/4/20	Drilling ahead on Lateral section. Well taking some to 0 mud . LCM into the active and Pumping sweeps every 300' (20bbls) LCM.Casing prss. 400psi / Pump 380gpm / 180rop on rotation.	6/11/20	6/18/20
6/5/20	Drilled to 16273'. Into Eagle Ford formation. DP stuck/Packed off. Lost 37bbls while pumping into formation to free up pipe. Pipe free, call TD. Circulate hole clean and POOH to run Casing.	6/12/20	6/19/20

6/5/2020 **Report 35 pm**

110 Old Market St.
St Martinville, LA 70582

TEL: (337) 394-1078

16,273' TVD

Operator	Contractor	County / Parish / Block	Engineer Start Date	24 hr ftg.	Drilled Depth
MAGNOLIA OIL & GAS	**PATTERSON**	**WASHINGTON**	**04/22/20**		**16,273 ft**
Well Name and No.	Rig Name and No.	State	Spud Date	Current ROP	Activity
LEVI GOODRICH UNIT 2 - 2H	**248**	**TEXAS**	**04/26/20**		**Run Casing**
Report for	Report for	Field / OSC-G #	Fluid Type	Circulating Rate	Circulating Pressure
Kevin Burt/Jim Harrison	**Tool Pusher**	**GIDDINGS**	**OBM**		

MUD PROPERTY SPECIFICATIONS						
Weight	PV	YP	E.S.	CaCl2	GELS	HTHP
9-17	**8-35**	**4-18**	**>400**	**±250K**	**<10 <25**	**<10**

MUD PROPERTIES				
Time Sample Taken		3:00		11:30
Sample Location		ACTIVE		shaker
Flowline Temperature °F				
Depth (ft)		16,273'		16,273'
Mud Weight (ppg)		9.9		9.9
Funnel Vis (sec/qt)	@ 115 °F	49		50
600 rpm		29		30
300 rpm		18		19
200 rpm		14		15
100 rpm		9		10
6 rpm		6		6
3 rpm		4		5
Plastic Viscosity (cp)	@ 150 °F	11		11
Yield Point (lb/100 ft²)	T0 = 2	7		8
Gel Strength (lb/100 ft²)	10 sec / 10 min	6/9		6/9
Gel Strength (lb/100 ft2)	30 min	15		14
HTHP Filtrate (cm/30 min)	@ 300 °F	6.0		6.0
HTHP Cake Thickness (32nds)		2.0		2.0
Retort Solids Content		13%		13%
Corrected Solids (vol%)		11.4%		11.4%
Retort Oil Content		69%		68%
Retort Water Content		18%		19%
O/W Ratio		79:21		78:22
Whole Mud Chlorides (mg/L)		40,000		42,000
Water Phase Salinity (ppm)		258,415		257,405
Whole Mud Alkalinity, Pom		1.8		2.0
Excess Lime (lb/bbl)		2.3 ppb		2.6 ppb
Electrical Stability (volts)		521 v		515 v
Average Specific Gravity of Solids		3.21		3.18
Percent Low Gravity Solids		5.8%		6%
ppb Low Gravity Solids		48 ppb		49 ppb
Percent Barite		5.6%		5.4%
ppb Barite		80 ppb		77 ppb
Estimated Total LCM in System				
Sample Taken By		A. Roman		M.Meehan

MUD VOLUME (BBL)		PUMP #1		PUMP #2		RISER BOOSTER
In Pits	714 bbl	Liner Size	5.25	Liner Size	5.25	Liner Size
In Hole	745 bbl	Stroke	12	Stroke	12	Stroke
Active	735 bbl	bbl/stk	0.0763	bbl/stk	0.0763	bbl/stk
Storage	1147 bbl	stk/min		stk/min		stk/min
Tot. on Location	2606 bbl	gal/min		gal/min		gal/min

Mud Wt. = 9.9 PV=11 YP=7 **CIRCULATION DATA** n = 0.688 K = 125.7

Bit Depth = 514 ' | Washout = 2% | Pump Efficiency = 95%

Drill String Disp.	Volume to Bit	9.7 bbl	Strokes To Bit	Time To Bit
	Bottoms Up Vol.	11.1 bbl	BottomsUp Stks	BottomsUp Time
2.8 bbl	TotalCirc.Vol.	734.8 bbl	TotalCirc.Stks	Total Circ. Time

DRILLING ASSEMBLY DATA

Tubulars	OD (in.)	ID (in.)	Length	Top
Drill Pipe	5.000	4.401	514'	
Agitator				514'
Drill Pipe				514'
Dir. BHA				514'

CASING & HOLE DATA

Casing	OD (in.)	ID (in.)	Depth	Top
Riser				
Surface	10 1/2		2,991'	
Int. Csg.	7 5/8	6.875	10,273'	
Open Hole Size	6.885		16,273'	

ANNULAR GEOMETRY & RHEOLOGY

annular section	depth	velocity ft/min	flow reg	ECD lb/gal
6.875x5	514'		lam	

BIT DATA Manuf./Type Ulterra/U611s

Size	Depth In	Hours	Footage	ROP ft/hr	Motor/MWD	Calc. Circ. Pressure
6 3/4	16,273 ft					#DIV/0!

SOLIDS CONTROL

Unit	Screens	Hours
Shaker 1	170	
Shaker 2	170	
Shaker 3	170	
Centrifuge 1		

VOLUME ACCOUNTING (bbls)

Prev. Total on Location	2615.8
Transferred In(+)/Out(-)	
Oil Added (+)	
Barite Added (+)	
Other Product Usage (+)	
Water Added (+)	
Left on Cuttings (-)	
Centrifuge losses	
Non-Recoverable Vol. (-)	-9.7
Est. Total on Location	2606.1
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!				

Afternoon Remarks/Recommendations:

Sweep Contains:

10 ppb Magmafiber F

10 ppb Newcarb M

10 ppb Newphalt

10 ppb First Resonse

Afternoon Rig Activity:

Continue to POOH. Laid down BHA. Rigged up to run casing. Running 5" casing at report time.

6/6/2020

Report 36 pm

110 Old Market St.
St Martinville, LA 70582

TEL: (337) 394-1078

16,273' TVD

Operator	Contractor	County / Parish / Block	Engineer Start Date	24 hr ftg.	Drilled Depth
MAGNOLIA OIL & GAS	**PATTERSON**	**WASHINGTON**	**04/22/20**		**16,273 ft**
Well Name and No.	Rig Name and No.	State	Spud Date	Current ROP	Activity
LEVI GOODRICH UNIT 2 - 2H	**248**	**TEXAS**	**04/26/20**		**Run Casing**
Report for	Report for	Field / OSC-G #	Fluid Type	Circulating Rate	Circulating Pressure
Kevin Burt/Jim Harrison	**Tool Pusher**	**GIDDINGS**	**OBM**		

MUD PROPERTY SPECIFICATIONS						
Weight	PV	YP	E.S.	CaCl2	GELS	HTHP
9-17	**8-35**	**4-18**	**>400**	**±250K**	**<10 <25**	**<10**

MUD PROPERTIES				
Time Sample Taken		3:00		11:00
Sample Location		ACTIVE		ACTIVE
Flowline Temperature °F				
Depth (ft)		16,273'		16,273'
Mud Weight (ppg)		10.0		9.8
Funnel Vis (sec/qt)	@ 100 °F	52		45
600 rpm		32		29
300 rpm		20		18
200 rpm		16		15
100 rpm		10		10
6 rpm		6		5
3 rpm		4		4
Plastic Viscosity (cp)	@ 150 °F	12		11
Yield Point (lb/100 ft²)	T0 = 2	8		7
Gel Strength (lb/100 ft²)	10 sec / 10 min	6/10		6/9
Gel Strength (lb/100 ft2)	30 min	16		14
HTHP Filtrate (cm/30 min)	@ 300 °F	6.0		6.0
HTHP Cake Thickness (32nds)		2.0		2.0
Retort Solids Content		14%		13%
Corrected Solids (vol%)		12.4%		11.4%
Retort Oil Content		67%		68%
Retort Water Content		19%		19%
O/W Ratio		78:22		78:22
Whole Mud Chlorides (mg/L)		41,000		41,000
Water Phase Salinity (ppm)		252,826		252,826
Whole Mud Alkalinity, Pom		1.8		1.7
Excess Lime (lb/bbl)		2.3 ppb		2.2 ppb
Electrical Stability (volts)		498 v		490 v
Average Specific Gravity of Solids		3.09		3.08
Percent Low Gravity Solids		7.1%		6.7%
ppb Low Gravity Solids		58 ppb		55 ppb
Percent Barite		5.3%		4.7%
ppb Barite		75 ppb		68 ppb
Estimated Total LCM in System				
Sample Taken By		A. Roman		M.Meehan

MUD VOLUME (BBL)		PUMP #1		PUMP #2		RISER BOOSTER
In Pits	811 bbl	Liner Size	5.25	Liner Size	5.25	Liner Size
In Hole	616 bbl	Stroke	12	Stroke	12	Stroke
Active	1420 bbl	bbl/stk	0.0763	bbl/stk	0.0763	bbl/stk
Storage	708 bbl	stk/min		stk/min		stk/min
Tot. on Location	2135 bbl	gal/min		gal/min		gal/min

Mud Wt. = 10.0 PV=12 YP=8 **CIRCULATION DATA** n = 0.678 K = 148.6

Bit Depth = 16,102 ' | Washout = | Pump Efficiency = 95%

Drill String Disp.	Volume to Bit	318.4 bbl	Strokes To Bit	Time To Bit
	Bottoms Up Vol.	290.3 bbl	BottomsUp Stks	BottomsUp Time
120.9 bbl	TotalCirc.Vol.	1419.8 bbl	TotalCirc.Stks	Total Circ. Time

DRILLING ASSEMBLY DATA

Tubulars	OD (in.)	ID (in.)	Length	Top
Casing	5.500	4.670	9,474'	
Casing	5.000	4.276	6,628'	9,474'
				16,102'
				16,102'

CASING & HOLE DATA

Casing	OD (in.)	ID (in.)	Depth	Top
Riser				
Surface	10 1/2		2,991'	
Int. Csg.	7 5/8	6.875	10,273'	
Open Hole Size		6.750	16,273'	

ANNULAR GEOMETRY & RHEOLOGY

annular section	depth	velocity ft/min	flow reg	ECD lb/gal
6.875x5.5	9,474'		lam	10.00
6.875x5	10,273'		lam	10.00
6.75x5	16,102'		lam	10.00

BIT DATA Manuf./Type

Size	Depth In	Hours	Footage	ROP ft/hr	Motor/MWD	Calc. Circ. Pressure
6 3/4						#DIV/0!

SOLIDS CONTROL

Unit	Screens	Hours
Shaker 1	170	12.0
Shaker 2	170	12.0
Shaker 3	170	12.0
Centrifuge 1		1.0

VOLUME ACCOUNTING (bbls)

Prev. Total on Location	2184.8
Transferred In(+)/Out(-)	
Oil Added (+)	
Barite Added (+)	
Other Product Usage (+)	
Water Added (+)	
Left on Cuttings (-)	
Centrifuge losses	
Lost Returns (-)	-49.5
Est. Total on Location	2135.3
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!				

Afternoon Remarks/Recommendations:

Sweep Contains:

10 ppb Magmafiber F

10 ppb Newcarb M

10 ppb Newphalt

10 ppb First Resonse

Afternoon Rig Activity:

Continue to run casing to 13570 ft. Circulate casing with 50 bbl of mud lost to formation (approx. 40% returns). Continue to run casing to bottom. Mixed 250 bbl of 9.8 ppg mud for volume. Ran centrifuge as needed to reduce the mud wt. to 9.8 ppg.

06/07/20 **Report #37**

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

OUTSOURCE FLUID SOLUTIONS LLC.

0.0° **16,102' TVD**

Operator	Contractor	County / Parish / Block	Engineer Start Date	24 hr ftg.	Drilled Depth
MAGNOLIA OIL & GAS	**PATTERSON**	**WASHINGTON**	**04/22/20**	**0 ft**	**16,102 ft**
Well Name and No.	Rig Name and No.	State	Spud Date	Current ROP	Activity
LEVI GOODRICH UNIT 2 - 2H	**248**	**TEXAS**	**04/26/20**	**0 ft/hr**	**WELL SECURE**
Report for	Report for	Field / OCS-G #	Fluid Type	Circulating Rate	Circulating Pressure
Kevin Burt/Jim Harrison	**Tool Pusher**	**GIDDINGS**	**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	0 bbl	Liner Size	5.25	Liner Size	5.25	Liner Size	
9-17	**8-35**	**4-18**	**>400**	**±250K**	**<10 <25**	**<10**	In Hole	0 bbl	Stroke	12	Stroke	12	Stroke	
				6/7/20		6/6/20	Active	0 bbl	bbl/stk	0.0763	bbl/stk	0.0763	bbl/stk	0.0000
Time Sample Taken				3:00		11:00	Storage	0 bbl	stk/min	0	stk/min	0	stk/min	
Sample Location				ACTIVE		ACTIVE	Tot. on Location	0 bbl	gal/min	0	gal/min	0	gal/min	0
Flowline Temperature °F							PHHP = 0		**CIRCULATION DATA**				n = 0.737 K = 92.647	
Depth (ft)				16,102'		16,273'	Bit Depth = '		Washout = 0%				Pump Efficiency = 95%	
Mud Weight (ppg)				9.8		9.8	Drill String Disp.	Volume to Bit 0.0 bbl	Strokes To Bit		Time To Bit			
Funnel Vis (sec/qt)	@ 100 °F			44		45		Bottoms Up Vol. 0.0 bbl	BottomsUp Stks		BottomsUp Time			
600 rpm				30		29	0.0 bbl	TotalCirc.Vol. 0.0 bbl	TotalCirc.Stks		Total Circ. Time			
300 rpm				18		18	**DRILLING ASSEMBLY DATA**				**SOLIDS CONTROL**			
200 rpm				14		15	Tubulars	OD (in.) ID (in.)	Length	Top	Unit	Screens	Hours	
100 rpm				9		10			0'	0'	Shaker 1	170	6.0	
6 rpm				5		5				0'	Shaker 2	170	6.0	
3 rpm				3		4				0'	Shaker 3	170	6.0	
Plastic Viscosity (cp)	@ 150 °F			12		11				0'	Centrifuge 1		0.0	
Yield Point (lb/100 ft²)	T0 = 1			6		7	**CASING & HOLE DATA**							
Gel Strength (lb/100 ft²)	10 sec/10 min			5/9		6/9	Casing	OD (in.) ID (in.)	Depth	Top				
Gel Strength (lb/100 ft^2)	30 min			12		14	Riser	0	0'		**VOLUME ACCOUNTING (bbls)**			
HTHP Filtrate (cm/30 min)	@ 300 °F			8.0		6.0	Surface	10 1/2	2,991'	0'	Prev. Total on Location			2184.8
HTHP Cake Thickness (32nds)				2.0		2.0	Int. Csg.	7 5/8	10,273'	0'	Transferred In(+)/Out(-)			-1970.0
Retort Solids Content				12%		13%	Prod.	5 1/2	9,474'	0'	Oil Added (+)			175.3
Corrected Solids (vol%)				10.3%		11.4%	Prod.	5	16,102'	6,628'	Barite Added (+)			0.0
Retort Oil Content				69%		68%	Open Hole Size	0.000	16,102'		Other Product Usage (+)			0.0
Retort Water Content				19%		19%	**ANNULAR GEOMETRY & RHEOLOGY**				Water Added (+)			
O/W Ratio				78:22		78:22	annular section	meas. depth	velocity ft/min	flow reg	ECD lb/gal	Left on Cuttings (-)		0.0
Whole Mud Chlorides (mg/L)				42,000		41,000						Left behind Csg.		-32.0
Water Phase Salinity (ppm)				257,405		252,826						Non-Recoverable Vol. (-)		-358.0
Whole Mud Alkalinity, Pom				1.7		1.7						Est. Total on Location		0.0
Excess Lime (lb/bbl)				2.2 ppb		2.2 ppb						Est. Losses/Gains (-)/(+)		0.0
Electrical Stability (volts)				500 v		490 v						**BIT HYDRAULICS DATA**		
Average Specific Gravity of Solids				3.30		3.08						Bit H.S.I.	Bit ΔP	Nozzles (32nds)
Percent Low Gravity Solids				4.7%		6.7%								
ppb Low Gravity Solids				39 ppb		55 ppb						Bit Impact Force	Nozzle Velocity (ft/sec)	
Percent Barite				5.6%		4.7%								
ppb Barite				80 ppb		68 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				A. Roman	0	M.Meehan								

Remarks/Recommendations:

OBM RECEIVED: (8,400) bbls

OBM ON SURFACE TANKS--1,970 bbls (storage + Active)

TOTAL OBM ON LOCATION: 1,970 BBLS

OBM Kill mud on Hand----372bbls //15# // $65.00/bbl

Discounted OBM on hand -(367bbl--12#)(377 bbl--9.8#) // $15.00/bbl

Rig Activity:

Completed Casing run down to 16,102'. Break circulation sustaining losses down hole. Circulated BU and move over to Cement operations. Pump Spacer + Cement (50bbls Spacer 12# / 5bpm---209bbls Cement 13.5# / 7bpm). Displace Cement with 318bbl of fresh water, bump plug 1000psi over, hold pressure for 5min and ck floats. Shut well in and rig down cement tools. Bleed off pressure and monitor well in the cellar. Pull landing joint and set pack off to secure well. Nipple down and make preparations to skid rig to next well. 358bbls lost to casing run, Circulation and while pumping Cement, 32bbls left behind Casing. Transfer out all treatment chemicals and OBM inventory to the 3H. Last report for Levi Goodrich Unit 2 - 2H. Thank you.

Eng. 1:	Eng. 2:	WH 1:	WH 2:	Rig Phone:	Daily Total	Cumulative Cost
Matt Meehan	Adolfo Roman	MIDLAND	WH #2	
Phone: 985-351-7561	Phone: 956-821-9994	Phone: 432-685-4023	Phone: -		**$1,910.00**	**$558,129.83**

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

INCLUDING 3RD PARTY CHARGES	**$10,643.55**	**$703,190.55**

OUTSOURCE FLUID SOLUTIONS LLC.

MATERIAL CONSUMPTION

Date	Operator	Well Name and No.	Rig Name and No.	Report No.
06/07/20	MAGNOLIA OIL & GAS	LEVI GOODRICH UNIT 2 - 2H	248	Report #37

DAILY USAGE & COST								CUMULATIVE	
Item	Unit	Unit Cost	Previous Inventory	Received	Closing Inventory	Daily Usage	Daily Cost	Cum Usage	Cum Cost
ALUMINUM TRISTEARATE	25# sk	$162.83							
SAPP (50)	50# sk	$44.50						31	$1,379.50
PHPA LIQUID (pail)	5 gal	$41.36						2	$82.72
DYNA DET	pail	$32.23						4	$128.92
DYNAFIBER C	25# sk	$53.67						88	$4,722.96
DYNAFIBER MED	25# sk	$53.67	85	-85				35	$1,878.45
FIBER PLUG	40# sk	$30.37	30	-30				10	$303.70
CACL2 (50)	50# sk	$16.60	110	-110				463	$7,685.80
LIME (50)	50# sk	$5.00	110	-110				440	$2,200.00
BENTONE 910 (50)	50# sk	$59.94	30	-30				40	$2,397.60
BENTONE 990 (50)	50# sk	$83.59	35	-35				45	$3,761.55
OPTI G	50# sk	$30.59	80	-80				160	$4,894.40
OPTI MUL HP	gal	$10.75	275	-275				650	$6,987.50
OPTI WET	gal	$8.34	330	-330				485	$4,044.90
NEW PHALT	50# sk	$38.72	40	-40				120	$4,646.40
NEWCARB 200	50# sk	$5.25	36	-36				134	$703.50
MAGMAFIBER F (25)	25# sk	$28.05	20	-20				174	$4,880.70
OIL SORB (25)	25# sk	$4.75	30	-30				10	$47.50
PHPA LIQUID (pail)	5 gal	$41.36	88	-88				9	$372.24
GEL (100)	100# sk		70	-70					
BENTONE 38 (50)	50# sk	$163.94	20	-20				20	$3,278.80
CYBERSEAL	25# sk	$21.47	180	-180				68	$1,459.96
Evo-Lube	gal	$9.31	975	-975				125	$1,163.75
CAL CARB COARSE (50)	50# sk	$5.37	50	-50				70	$375.90
MAGMAFIBER R (30)	30# sk	$28.05	80	-80					
NEW-WATE (SACK BARITE)	100# sk	$11.50	160	-160					
BARITE BULK (100)	100# sk	$7.00	1300	-1300				4266	$29,862.00
OPTI DRILL (OBM)	bbl	$65.00	890	-890				5526	$359,190.00
Magnolia Owned OBM	bbl		381	-166		215		1251	
Discounted High LGS OBM	bbl	$15.00	914	-914				1716	$25,740.00
ENGINEERING (24 HR)	each	$925.00				2	$1,850.00	70	$64,750.00
ENGINEERING (DIEM)	bbl	$30.00				2	$60.00	70	$2,100.00
ENGINEERING (MILES)	each	$1.00						1049	$1,049.00
TRUCKING (cwt)	each	$2.50						6000	$15,000.08
TRUCKING (min)	each	$795.00						2	$1,590.00
PALLETS (ea)	each	$12.00						62	$744.00
SHRINK WRAP (ea)	each	$12.00						59	$708.00
		Daily Sub-Total $1,910.00			**Cumulative Total $558,129.83**			**$558,129.83**	

THIRD PARTY COST SHEET

Date	Operator	Well Name and No.	Rig Name and No.	Report No.
06/07/20	MAGNOLIA OIL & GAS	LEVI GOODRICH UNIT 2 - 2H	248	Report #37

DAILY USAGE & COST								CUMULATIVE	
Item	Unit	Unit Cost	Previous Inventory	Received	Closing Inventory	Daily Usage	Daily Cost	Cum Usage	Cum Cost
Diesel 4/25/20	gal	$0.91							
Diesel 5/6/20	gal	$0.90						5040	$4,536.00
Diesel 5/8/20	gal	$0.93						7302	$6,790.86
Diesel 5/9/20	gal	$0.96						7006	$6,725.76
Diesel 5/10/20	gal	$0.97						7300	$7,081.00
Diesel 5/14/20	gal	$0.98						7400	$7,252.00
Diesel 5/15/20	gal	$0.97						6750	$6,547.50
Diesel 5/16/20	gal	$1.03						7100	$7,313.00
Diesel 5/17/20	gal	$1.03						7634	$7,863.02
Diesel 5/17/20 Load #2	gal	$1.03						7402	$7,624.06
Diesel 5/19/ 20	gal	$1.06						6221	$6,594.26
Diesel 5/19/20	gal	$1.06						7301	$7,739.06
TurboChem First Response	each	$41.75	180	-180				320	$13,360.00
TurboChem Pallets	each	$20.00	4	-4				6	$120.00
TurboChem Shrink Wrap	each	$20.00	4	-4				6	$120.00
Diesel 5/22/20	gal	$1.11						5545	$6,154.95
DIESEL 5/25/20	gal	$1.12						7404	$8,292.48
DIESEL 05/26/20	gal	$1.12						7201	$8,065.12
DIESEL 05/26/20	gal	$1.13						7202	$8,138.26
DIESEL 06/02/20	gal	$1.13						7202	$8,138.26
DIESEL 06/03/20	gal	$1.13	434			434	$490.42	7400	$8,362.00
DIESEL 06/04/20	gal	$1.19	7398	-471		6927	$8,243.13	6927	$8,243.13
DIESEL 6/6/20	gal	$1.16		-7401	-7401				

Daily Sub-Total	$8,733.55
	$145,060.72

Cumulative Total AES & 3rd Party $703,190.55

OUTSOURCE FLUID SOLUTIONS LLC.

FLUID VOLUME ACCOUNTING

Operator:	MAGNOLIA OIL & GAS
Rig Name:	248
Well Name:	LEVI GOODRICH UNIT 2 - 2H

		WEEK 1							WEEK 2							WEEK 3						
	Date	5/9/20	5/10/20	5/11/20	5/12/20	5/13/20	5/14/20	5/15/20	5/16/20	5/17/20	5/18/20	5/19/20	5/20/20	5/21/20	5/22/20	5/23/20	5/24/20	5/25/20	5/26/20	5/27/20	5/28/20	5/29/20
		Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri
	Bit Size	9 7/8	9 7/8	9 7/8	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4
Grand Totals	Starting Depth	3,000	4,915	10,102	10,284	10,284	10,284	10,380	11,970	11,970	14,305	15,905	16,662	16,940	16,027	16,029	16,029	16,029	16,029	16,029	11,100	11,100
	Ending Depth	4,915	10,102	10,284	10,284	10,284	10,380	11,970	11,970	14,305	15,905	16,662	16,940	16,027	16,029	16,029	16,029	16,029	16,029	11,100	11,100	11,100
20,045	Footage Drilled	1,915	5,187	182	-	-	96	1,590	-	2,335	1,600	757	278	-	2	-	-	-	-	-	-	-
1,255	New Hole Vol.	181	491	17	-	-	4	70	-	103	71	34	12	-	0	-	-	-	-	-	-	-
	Starting System Volume	2,395	2,448	2,477	2,020	2,436	2,738	2,755	2,753	2,348	2,141	715	1,829	1,664	2,075	1,555	2,403	1,971	2,857	3,290	2,975	2,894
143	Chemical Additions	11	17			6	4	8	1	25	11	-	-	2	-	-	-	-	5	4	-	2
2,857	Base Fluid Added	129	304	34	47	5	26	185	118	308	183	46	215	3	82	18	18	80	171	146	15	26
296	Barite Increase		28	10			7	26	26	2	29	-	8	-	-	-	20	28	14	22	14	7
6,236	Weighted Mud Added				421	291				208	-	744	-	526	-	916	782	1,537	811	-	-	-
-	Slurry Added										-	-	-	-	-	-	-	-	-	-	-	-
26,156	Water Added	16	56							107	384	10,371	1,590	11,756	500	279	200	91	564	-	-	-
191	Added for Washout	48	48	39							-	-	-	-	-	-	-	-	-	-	-	56
35,879	Total Additions	204	453	83	468	302	37	219	145	650	607	11,161	1,813	12,287	582	1,213	1,020	1,736	1,565	172	29	91
480	Surface Losses	7	23	74	10		16	40	30	30	-		-	-	-	-	-	-	-	217	-	-
32,048	Formation Loss			18				105	500	705	326	10,047	1,978	11,875	1,102	365	1,452	850	1,132	270	77	-
1,068	Mud Loss to Cuttings	132	383	19			4	76		108	75		-	-	-	-	-	-	-	-	-	-
520	Unrecoverable Volume			42	42				20		-		-	-	-	-	-	-	-	-	33	73
174	Centrifuge Losses	12	18	5						15	-		-	-	-	-	-	-	-	-	-	-
34,290	Total Losses	151	425	158	52	-	20	221	550	857	401	10,047	1,978	11,875	1,102	365	1,452	850	1,132	487	110	73
3,984	Mud Transferred Out			382							1,632											
0	Ending System Volume	2,448	2,477	2,020	2,436	2,738	2,755	2,753	2,348	2,141	715	1,829	1,664	2,075	1,555	2,403	1,971	2,857	3,290	2,975	2,894	2,912
130	Mud Recovered		130																			

4,647			

Comments:		Comments:		Comments:	
5/9/20	Trans in 2101bbls skid vol. Casing had 293bbls F surface displacement. Mud lost to Cuttings 132.1bbls, Evap 6.6, Cent 12bbls	5/16/20	Mud Lost to partial losses due to seepage and trip surge 500-bbls, Evap 20-bbls, Pit Settlement 10-bbls and Tripping out 20-bbls	5/23/20	Pump Kill mud on back side, Pick up fishing tools and TIH. Tag fish and hook on to it. Start POOH.
5/10/20	Mud lost to Cuttings 383.4-bbls, Evap 23.2-bbls and Cent. 18-bbls. Mud recovered from, shaker tank runoff due to sweeps and ROC's 129.7-bbls	5/17/20	Mud Lost to Formation 705-bbls. Mud lost to Cuttings 108-bbls, Evap 19.56, Pits 10-bbls and Cent. 14.54bbls	5/24/20	Kill well with fishing tools in. Top of fish 11100'… Work fishing tools through 18* dog legs. Receive 782bbls OBM
5/11/20	Returned 382-bbls to Newpark. Mud Lost Cuttings 19-bbls, Cent 5-bbls, Evap 12.5, TOOH/TIH 35-bbls, Shaker Run off 42.2-bbls and Trucking 26-bbls	5/18/20	Drilling under Mud Cap. Fresh water pumped down hole to continue drilling.	5/25/20	POOH to reset fishing tools and TIH for fish (3rd attempt). Continue to Pump Down DP and back side to kill well. Received 1537bbls OBM.
5/12/20	Rec. 421-bbls 16.0 (KILL) lost 10-bbls to Trucking In… Mud lost to spacer contamination 42-bbls	5/19/20	Drilling under Mud Cap. Fresh water pumped down hole to continue drilling.	5/26/20	Jaring on stuck pipe. Mix Isolation sweep for intentionaly plug DP in the hole.
5/13/20	Lost 10.2-bbls to Pit Settlement	5/20/20	Side Track time drilling 16027. Continue pumping fresh water down hole with 13# mud cap on back side.	5/27/20	Un latch from fish, Circulate while increasing MW to 10.7ppg. Well continue to take mud. LCM mix in active system.Kill well POOH to shoe, pump balance plug to POOH and pick up stinger
5/14/20	Mud Lost to Cutting 3.5-bbls, Evap 6-bbls and Pit Settlement 10-bbls	5/21/20	Side Track time drilling 16027. Continue pumping fresh water down hole with 13# mud cap on back side.	5/28/20	POOH lay down Fishing tools. Pick up 2 7/8" stinger and TIH for set up of cement plug. Stage in the hole, circulating Surf. Surf every time.
5/15/20	Mud Lost to Cuttings 76-bbls, Evap 21-bbls, Pits 10-bbls Cent. 9-bbls. Patrial Losses to formation 105-bbls	5/22/20	Work stuck pipe free, Dry ream up to 15780, resume pump fresh water. Kill well and POOH.	5/29/20	Pump Cement plug. POOH 20stans and circulate Sur-surf. POOH lay down DP. Cut MW in the active system 9.8ppg.

OUTSOURCE FLUID SOLUTIONS LLC.

FLUID VOLUME ACCOUNTING

Operator:	MAGNOLIA OIL & GAS
Rig Name:	248
Well Name:	LEVI GOODRICH UNIT 2 - 2H

		WEEK 4							WEEK 5							WEEK 6						
	Date	5/30/20	5/31/20	6/1/20	6/2/20	6/3/20	6/4/20	6/5/20	6/6/20	6/7/20	6/8/20	6/9/20	6/10/20	6/11/20	6/12/20	6/13/20	6/14/20	6/15/20	6/16/20	6/17/20	6/18/20	6/19/20
		Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri
	Bit Size	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4												
Grand Totals	Starting Depth	11,100	11,100	10,170	10,424	11,026	13,515	15,850	16,273	16,273	16,102											
	Ending Depth	11,100	10,170	10,424	11,026	13,515	15,850	16,273	16,273	16,102												
20,045	Footage Drilled	-	-	254	602	2,489	2,335	423	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,255	New Hole Vol.	-	-	11	27	110	103	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Starting System Volume	2,912	2,915	2,838	2,863	2,889	2,525	2,653	2,616	2,185	0	0	0	0	0	0	0	0	0	0	0	0
143	Chemical Additions	-	3	12	8	13	7	3	-	-												
2,857	Base Fluid Added	18	16	25	58	88	187	107	24	175												
296	Barite Increase	7	31	-	-	-	-	17	-	-												
6,236	Weighted Mud Added	-	-	-	-	-	-	-	-	-												
-	Slurry Added	-	-	-	-	-	-	-	-	-												
26,156	Water Added	-	-	24	48	70	100	-	-	-												
191	Added for Washout	-	-	-	-	-	-	-	-	-												
35,879	Total Additions	25	50	61	114	171	295	127	24	175	-	-	-	-	-	-	-	-	-	-	-	-
480	Surface Losses	-	-	33	-	-	-	-	-	-												
32,048	Formation Loss	-	-	-	-	361	35	37	455	358												
1,068	Mud Loss to Cuttings	-	-	2	28	114	108	20	-	-												
520	Unrecoverable Volume	-	128	-	62	-	-	89	-	32												
174	Centrifuge Losses	22		-	-	60	24	18	-	-												
34,290	Total Losses	22	128	35	89	535	167	164	455	390	-	-	-	-	-	-	-	-	-	-	-	-
3,984	Mud Transferred Out									1,970												
0	Ending System Volume	2,915	2,838	2,863	2,889	2,525	2,653	2,616	2,185	0	0	0	0	0	0	0	0	0	0	0	0	0
130	Mud Recovered																					

4,647

Comments:		Comments:		Comments:	
5/30/20	Finish lay down DP, Change out Drill line spool and Test BOP's. stage new DP on pipe racks for pick up .	6/6/20	POOH lay down BHA, Running Casing, partial returns. 11665 lost returns. Circulate well with partial returns.	6/13/20	
5/31/20	TIH with new DP. Circulate top of the cement plug, Gas up 4000units. Condition MW to 11.1ppg. 127bbls lost below cement plug.	6/7/20	Production Casing in the hole. Circulate and Cemented while sustaining losses down hole. Bump Cement plug and secure well. Transfer Inventory to 3H. Last Report for well.	6/14/20	
6/1/20	POOH to change out BHA. TIH resume drilling on side track. Maintain MW 11.1ppg.	6/8/20		6/15/20	
6/2/20	Drilling ahead on curve section. MW drop to 10.5 with diesel and Centrifuge.	6/9/20		6/16/20	
6/3/20	Curve landed. Drilling lateral. @12500' well taking mud. Continue pumping 400gpm, Casing pressure on connections 450-550psi.	6/10/20		6/17/20	
6/4/20	Drilling ahead on Lateral section. Well taking some to 0 mud . LCM into the active and Pumping sweeps every 300' (20bbls) LCM.Casing prss. 400psi / Pump 380gpm / 180rop on rotation.	6/11/20		6/18/20	
6/5/20	Drilled to 16273'. Into Eagle Ford formation. DP stuck/Packed off. Lost 37bbls while pumping into formation to free up pipe. Pipe free, call TD. Circulate hole clean and POOH to run Casing.	6/12/20		6/19/20	