04/28/20 **Report #1**

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

OUTSOURCE FLUID SOLUTIONS LLC.

0.0° **200' TVD**

Operator	Contractor	County / Parish / Block	Engineer Start Date	24 hr ftg.	Drilled Depth
MAGNOLIA OIL & GAS	**PATTERSON**	**WASHINGTON**	**04/27/20**	**3,000 ft**	**3,000 ft**
Well Name and No.	Rig Name and No.	State	Spud Date	Current ROP	Activity
LEVI GOODRICH U2 - 3H	**248**	**TEXAS**	**04/27/20**	**400 ft/hr**	**POOH**
Report for	Report for	Field / OCS-G #	Fluid Type	Circulating Rate	Circulating Pressure
JAMES DYER / BOBBY GWINN	**Tool Pusher**	**GIDDIGNS**	**WBM**	**804 gpm**	**1,750 psi**

MUD PROPERTY SPECIFICATIONS

Weight	PV	YP	GELS	pH	API fl	% Solids
8.4-9.6	**0-10**	**0-10**	**<5 <10**	**8.4-9**	**<25**	**2-10**
						4/28/20
Time Sample Taken						1:00
Sample Location						suction
Flowline Temperature °F						100 °F
Depth (ft)						2,600'
Mud Weight (ppg)						9.2
Funnel Vis (sec/qt)			@ 90 °F			32
600 rpm						6
300 rpm						4
200 rpm						2
100 rpm						1
6 rpm						1
3 rpm						1
Plastic Viscosity (cp)			@ 120 °F			2
Yield Point (lb/100 ft²)			T0 = 1			2
Gel Strength (lb/100 ft²)			10 sec/10 min			1/2
Gel Strength (lb/100 ft^2)			30 min			4
API Filtrate / Cake Thickness						25/1
HTHP Filtrate / Cake Thickness			@ 0 °F			
Retort Solids Content						6.4%
Retort Oil Content						
Retort Water Content						93.6%
Sand Content						0.5%
M.B.T. (Methylene Blue Capacity) (ppb)						
pH						8.5
Alkalinity, Mud Pm						0.1
Alkalinities, Filtrate Pf/Mf						0.1/0.2
Chlorides (mg/L)						400
Calcium (ppm)						80
Excess Lime (lb/bbl)						
Average Specific Gravity of Solids				2.60	2.60	2.60
Percent Low Gravity Solids						6.4%
Percent Drill Solids						6.4%
PPA Spurt / Total (ml) @			@ 0 °F			
Estimated Total LCM in System			ppb			
Sample Taken By						A. ROMAN

MUD VOLUME (BBL)

In Pits	650 bbl
In Hole	601 bbl
Active	705 bbl
Storage	
Tot. on Location	1251 bbl

PUMP #1

Liner Size	6
Stroke	12
bbl/stk	0.0997
stk/min	96
gal/min	402

PUMP #2

Liner Size	6
Stroke	12
bbl/stk	0.0997
stk/min	96
gal/min	402

RISER BOOSTER

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

PHHP = 821 **CIRCULATION DATA** n = 0.585 K = 53.126

Bit Depth = 200 ' Washout = 5% Pump Efficiency = 95%

Drill String Disp.							
1.3 bbl	Volume to Bit	3.6 bbl	Strokes To Bit	36	Time To Bit	0 min
	Bottoms Up Vol.	51.0 bbl	BottomsUp Stks	511	BottomsUp Time	3 min
	Riser Ann. Vol.	35.3 bbl	Riser Strokes	354	Riser Circ. Time	2 min

DRILLING ASSEMBLY DATA

Tubulars	OD (in.)	ID (in.)	Length	Top
Drill Pipe	5.000	4.276	200'	0'
Hevi Wt	5.500	3.000		200'
Dir. BHA	8.000	2.875		200'
				200'

CASING & HOLE DATA

Casing	OD (in.)	ID (in.)	Depth	Top
Riser	20	19.000	108'	
Surface				108'
Int. Csg.				108'
Washout 1				
Washout 2				
Open Hole Size	14.175		3,000'	

ANNULAR GEOMETRY & RHEOLOGY

annular section	meas. depth	velocity ft/min	flow reg	ECD lb/gal
19x5	108'	58.6	lam	11.16
14.175x5	200'	112.0	lam	11.27

BIT DATA Manuf./Type Ulterra/SPL616

Size	Depth In	Hours	Footage	ROP ft/hr
13 1/2	108 ft	7.5	3,000 ft	400.0

SOLIDS CONTROL

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

VOLUME ACCOUNTING (bbls)

Prev. Total on Location	0.0
Transferred In(+)/Out(-)	
Oil Added (+)	0.0
Barite Added (+)	0.0
Other Product Usage (+)	3.2
Water Added (+)	2000.0
Left on Cuttings (-)	-292.8
Sand Trap Discharge	-473.1
Est. Total on Location	1237.4
Est. Losses/Gains (-)/(+)	13.7

BIT HYDRAULICS DATA

Bit H.S.I.	Bit ΔP	Nozzles (32nds)		
0.98	299 psi	14	14	14
Bit Impact Force	Nozzle Velocity (ft/sec)	14	14	14
		14	14	14
730 lbs	191			

Motor/MWD	Calc. Circ. Pressure
1,330 psi	1,684 psi

Remarks/Recommendations:

OBM transfer from 2H ----- 1492 bbls -- 9.5ppg

SWEEP: Fresh water 100bbls / 2sxs SAPP / 5gal DD.

Pump 20bbls every 300' and 60-80 bbls every 500'

Dump Sand trap every 500', Run Centrifuge / D-Sander / D-Silter while drilling / circulating.

Rig Activity:

Skid Rig from 2H over to the 3H. TIH with Directional BHA, set MWD tool in the BHA, and Spud in at 16:30hrs 4/27/20. Driled 13.5" hole with fresh water with SAPP and Drilling Detergent; Mnaintain constant additions of same through out drilling/circulating process. Implement SAPP and DD sweeps, 20bbls every 300' and 60-80bbls every 500'. Dump sandtrap every 500' to avoid accumulation of sand and the active system, run Centrifuge / DSander / Dsilter while drilling / Circulating. Drilled to 400' and POOH to change out MWD. Resume drilling 19:20hrs. @1800' Circulate Gumbo for 30min, resume drilling and Reach TD 3000' @ 01:30hrs. Pump 2 30bbls Hi-Vis Sweeps and circulate hole clean. POOH to run surface casing.

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

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

Daily Total	Cumulative Cost
$4,356.22	**$4,356.22**
INCLUDING 3RD PARTY CHARGES	**$4,356.22**	**$4,356.22**

OUTSOURCE FLUID SOLUTIONS LLC.

MATERIAL CONSUMPTION

Date	Operator	Well Name and No.	Rig Name and No.	Report No.
04/28/20	MAGNOLIA OIL & GAS	LEVI GOODRICH U2 - 3H	248	Report #1

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	38	2	$325.66	2	$325.66
SAPP (50)	50# sk	$44.50		95	55	40	$1,780.00	40	$1,780.00
PHPA LIQUID (pail)	5 gal	$41.36		62	60	2	$82.72	2	$82.72
DYNA DET	pail	$32.23		28	20	8	$257.84	8	$257.84
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		1492	1492				
ENGINEERING (24 HR)	each	$925.00				2	$1,850.00	2	$1,850.00
ENGINEERING (DIEM)	bbl	$30.00				2	$60.00	2	$60.00
ENGINEERING (MILES)	each	$1.00							
TRUCKING (cwt)	each	$2.50							
TRUCKING (min)	each	$795.00							
PALLETS (ea)	each	$12.00							
SHRINK WRAP (ea)	each	$12.00							
		Daily Sub-Total $4,356.22			**Cumulative Total $4,356.22**			**$4,356.22**	

THIRD PARTY COST SHEET

Date	Operator	Well Name and No.	Rig Name and No.	Report No.
04/28/20	**MAGNOLIA OIL & GAS**	**LEVI GOODRICH U2 - 3H**	**248**	**Report #1**

DAILY USAGE & COST								**CUMULATIVE**	
Item	Unit	Unit Cost	Previous Inventory	Received	Closing Inventory	Daily Usage	Daily Cost	Cum Usage	Cum Cost
Diesel Transfer from 2H	gal	$0.91		7401	7401				

Cumulative Total AES & 3rd Party $4,356.22

4/29/2020 **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**	**04/27/20**	**0 ft**	**3,000 ft**
Well Name and No.	Rig Name and No.	State	Spud Date	Current ROP	Activity
LEVI GOODRICH U2 - 3H	**248**	**TEXAS**	**04/27/20**	**0 ft/hr**	**Transfer Report**
Report for	Report for	Field / OSC-G #	Fluid Type	Circulating Rate	Circulating Pressure
JAMES DYER / BOBBY GWINN	**Tool Pusher**	**GIDDIGNS**	**WBM**	**0 gpm**	**psi**

MUD PROPERTY SPECIFICATIONS

Weight	PV	YP	GELS	pH	API fl	% Solids
8.4-9.6	**0-10**	**0-10**	**<5 <10**	**8.4-9**	**<25**	**2-10**

MUD PROPERTIES

Time Sample Taken	10:30	0:00	1:00
Sample Location	suction	0	suction
Flowline Temperature °F	110 °F	0 °F	100 °F
Depth (ft)	3,000'	0'	2,600'
Mud Weight (ppg)	9.3	0.0	9.2
Funnel Vis (sec/qt) @ 90 °F	34	0	32
600 rpm	6	0	6
300 rpm	4	0	4
200 rpm	3	0	2
100 rpm	2	0	1
6 rpm	1	0	1
3 rpm	1	0	1
Plastic Viscosity (cp) @ 120 °F	2	0	2
Yield Point (lb/100 ft²) T0 = 1	2	0	2
Gel Strength (lb/100 ft²) 10 sec / 10 min	1/2		1/2
Gel Strength (lb/100 ft2) 30 min	3	0	4
API Filtrate / Cake Thickness @ 0 °F	25/1		25/1
HTHP Filtrate / Cake Thickness @ 0 °F			
Retort Solids Content	0.1	0.0	0.1
Retort Oil Content	0.0	0.0	0.0
Retort Water Content	0.9	0.0	0.9
Sand Content	0.0	0.0	0.0
M.B.T. (Methylene Blue Capacity) (ppb)	5.0		
pH	8	0	9
Alkalinity, Mud Pm	0	0	0
Alkalinities, Filtrate Pf/Mf	0.1/0.2		0.1/0.2
Chlorides (mg/L)	500.00	0.00	400.00
Calcium (ppm)	120	0	80
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	0.1	0.0	0.1
Percent Drill Solids	0.1	0.0	0.1
PPA Spurt / Total (ml) @ @ 0 °F			
Estimated Total LCM in System @ 0 °F	0.0	0.0	0.0
Sample Taken By	M Washburn	0	A. ROMAN

MUD VOLUME (BBL)

In Pits	0 bbl		
In Hole	278 bbl		
Active	0 bbl		
Storage	0 bbl		
Tot. on Location	278 bbl		

PUMP #1

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

PUMP #2

Liner Size	6
Stroke	12
bbl/stk	0.0997
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. = 9.3 PV=2 YP=2 **CIRCULATION DATA** n = 0.585 K = 53.1

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

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

DRILLING ASSEMBLY DATA

Tubulars	OD (in.)	ID (in.)	Length	Top
0	0.000	0.000	0'	0'
0	0.000	0.000	0'	0'
0	0.000	0.000	0'	0'
0	0.000	0.000	0'	0'

CASING & HOLE DATA

Casing	OD (in.)	ID (in.)	Depth	Top
Riser	20	0.000	108'	
Surface	10 3/4	9.950	3,000'	108'
Int. Csg.	0	0.000	0'	108'
Washout 1	0	0.000	0'	0'
Washout 2	0	0.000	0'	0'
Open Hole Size		0.000	3,000'	

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	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	140-80	0.0
Shaker 2	140-80	0.0
Shaker 3	140-80	0.0
Desander	0	0.0
Desilter	0	0.0
Centrifuge 1	0	0.0

VOLUME ACCOUNTING (bbls)

Prev. Total on Location	1251.1
Transferred In(+)/Out(-)	278.0
Oil Added (+)	0.0
Barite Added (+)	0.0
Other Product Usage (+)	0.0
Water Added (+)	0.0
Left on Cuttings (-)	0.0
Discharged (-)	-1250.9
0	0.0
Est. Total on Location	278.2
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
#DIV/0!	0	0	0	0

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

Remarks/Recommendations:

OBM transfer from 2H ----- 1492 bbls -- 9.5ppg

OBM transfer to Grand Canyon A 1H------1237bbls

0

0

0

Rig Activity:

Transfer sack material / Diesel and OBM to Grand Canyon A 1H. 278bbls of OBM left inside casing. Transfer 1237bbls to next well.

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: 432-686-7361	Phone: -	

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

	Daily Total	Cumulative Cost
	$0.00	**$4,356.22**
INCLUDING 3RD PARTY CHARGES	**$0.00**	**$4,356.22**

Previous Cost **$4,356.22**

OUTSOURCE FLUID SOLUTIONS LLC.

MATERIAL CONSUMPTION

Date	Operator	Well Name and No.	Rig Name and No.	Report No.
04/29/20	**MAGNOLIA OIL & GAS**	**LEVI GOODRICH U2 - 3H**	**248**	**Report #2**

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	38	-38				2	$325.66
SAPP (50)	50# sk	$44.50	55	-55				40	$1,780.00
PHPA LIQUID (pail)	5 gal	$41.36	60	-60				2	$82.72
DYNA DET	pail	$32.23	20	-20				8	$257.84
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	1492	-1492					
ENGINEERING (24 HR)	each	$925.00						2	$1,850.00
ENGINEERING (DIEM)	bbl	$30.00						2	$60.00
ENGINEERING (MILES)	each	$1.00							
TRUCKING (cwt)	each	$2.50							
TRUCKING (min)	each	$795.00							
PALLETS (ea)	each	$12.00							
SHRINK WRAP (ea)	each	$12.00							
					Cumulative Total	**$4,356.22**		**$4,356.22**	

THIRD PARY COST SHEET

Date	Operator	Well Name and No.	Rig Name and No.	Report No.
04/29/20	**MAGNOLIA OIL & GAS**	**LEVI GOODRICH U2 - 3H**	**248**	**Report #2**

DAILY USAGE & COST								**CUMULATIVE**	
Item	Unit	Unit Cost	Previous Inventory	Received	Closing Inventory	Daily Usage	Daily Cost	Cum Usage	Cum Cost
Diesel Transfer from 2H	gal	$0.91	7401	-7401					

05/05/20 **Report #3**

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

OUTSOURCE FLUID SOLUTIONS LLC.

0.2° **2,699' TVD**

Operator	Contractor	County / Parish / Block	Engineer Start Date	24 hr ftg.	Drilled Depth
MAGNOLIA OIL & GAS	**PATTERSON**	**WASHINGTON**	**04/27/20**	**0 ft**	**3,000 ft**
Well Name and No.	Rig Name and No.	State	Spud Date	Current ROP	Activity
LEVI GOODRICH U2 - 3H	**248**	**TEXAS**	**04/27/20**	**0 ft/hr**	**TIH**
Report for	Report for	Field / OCS-G #	Fluid Type	Circulating Rate	Circulating Pressure
JAMES DYER / BOBBY GWINN	**Tool Pusher**	**GIDDIGNS**	**OBM**	**0 gpm**	**psi**

MUD PROPERTY SPECIFICATIONS

Weight	PV	YP	E.S.	CaCl2	GELS	HTHP
9.3-10.2	**8-20**	**5-12**	**>300**	**±264K**	**<10 <25**	**<10**
				5/5/20		
Time Sample Taken				1:00		
Sample Location				suction		
Flowline Temperature °F						
Depth (ft)				3,000'		
Mud Weight (ppg)				9.5		
Funnel Vis (sec/qt)			@ 90 °F	51		
600 rpm				26		
300 rpm				16		
200 rpm				11		
100 rpm				9		
6 rpm				5		
3 rpm				4		
Plastic Viscosity (cp)			@ 150 °F	10		
Yield Point (lb/100 ft²)			T0 = 3	6		
Gel Strength (lb/100 ft²)			10 sec/10 min	5/8		
Gel Strength (lb/100 ft^2)			30 min	11		
HTHP Filtrate (cm/30 min)			@ 300 °F	9.0		
HTHP Cake Thickness (32nds)				2.0		
Retort Solids Content				11%		
Corrected Solids (vol%)				9%		
Retort Oil Content				67%		
Retort Water Content				22%		
O/W Ratio				75:25		
Whole Mud Chlorides (mg/L)				50,000		
Water Phase Salinity (ppm)				262,745		
Whole Mud Alkalinity, Pom				1.4		
Excess Lime (lb/bbl)				1.8 ppb		
Electrical Stability (volts)				400 v		
Average Specific Gravity of Solids				3.10		
Percent Low Gravity Solids				5.2%		
ppb Low Gravity Solids				42 ppb		
Percent Barite				3.8%		
ppb Barite				55 ppb		
Estimated Total LCM in System			ppb			
Sample Taken By				A. Roman	0	0

MUD VOLUME (BBL)

In Pits	932 bbl
In Hole	215 bbl
Active	1118 bbl
Storage	769 bbl
Tot. on Location	1916 bbl

PUMP #1

Liner Size	5.75
Stroke	12
bbl/stk	0.0915
stk/min	0
gal/min	0

PUMP #2

Liner Size	5.75
Stroke	12
bbl/stk	0.0915
stk/min	0
gal/min	0

RISER BOOSTER

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

PHHP = 0 **CIRCULATION DATA** n = 0.700 K = 103.420

Bit Depth = 2,700 ' | Washout = 1% | Pump Efficiency = 95%

Drill String Disp.				
73.2 bbl	Volume to Bit	42.5 bbl	Strokes To Bit	Time To Bit
	Bottoms Up Vol.	143.9 bbl	BottomsUp Stks	BottomsUp Time
	TotalCirc.Vol.	1118.4 bbl	TotalCirc.Stks	Total Circ. Time

DRILLING ASSEMBLY DATA

Tubulars	OD (in.)	ID (in.)	Length	Top
Drill Pipe	5.000	4.276	19'	0'
Other Pipe	6.500	4.276	2,101'	19'
Hevi Wt	6.500	3.000	276'	2,120'
Dir. BHA	7.750	2.875	304'	2,396'

CASING & HOLE DATA

Casing	OD (in.)	ID (in.)	Depth	Top
Riser				
Surface	10 3/4	9.950	3,000'	0'
Int. Csg.				0'
Washout 1				
Washout 2				
Open Hole Size		9.974	3,000'	

ANNULAR GEOMETRY & RHEOLOGY

annular section	meas. depth	velocity ft/min	flow reg	ECD lb/gal
9.95x5	19'	0.0	lam	9.50
9.95x6.5	2,120'	0.0	lam	9.50
9.95x6.5	2,396'	0.0	lam	9.50
9.95x7.75	2,700'	0.0	lam	9.50

BIT DATA Manuf./Type ULTERRA/SPL613

Size	Depth In	Hours	Footage	ROP ft/hr
9 7/8	3,000 ft			

SOLIDS CONTROL

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

VOLUME ACCOUNTING (bbls)

Prev. Total on Location	278.1
Transferred In(+)/Out(-)	1638.1
Oil Added (+)	0.0
Barite Added (+)	0.0
Other Product Usage (+)	0.0
Water Added (+)	
Left on Cuttings (-)	0.0
Est. Total on Location	1916.2
Est. Losses/Gains (-)/(+)	0.0

BIT HYDRAULICS DATA

Bit H.S.I.	Bit ΔP	Nozzles (32nds)		
0.00	psi	14	14	14
Bit Impact Force	Nozzle Velocity (ft/sec)	14	14	14
		16	16	16
0 lbs	0			

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

Remarks/Recommendations:

OBM transfer from Grand Canyon ----- 1701 bbls -- 9.5ppg

OBM on hand------1916bbls

SWEEP: 100bblsOBM/10Mag.Fiber / 10Cal Carb / 10N.Phalt

Pump 10-15 bbls every 300' or as requested.

Rig Activity:

Skid Rig over from Grand Canyon A 1H, Nipple up , change rams and test BOP's Transfer all Sack material and OBM from Grand Canyon A 1H. Pick up New BHA, set MWD tools and start TIH. At this time we continue to TIH to top of float collar. Moving ahead will drill out shoe track and 10' new formation to perform FIT to 11.6EMW.

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

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

	Daily Total	Cumulative Cost
	$1,910.00	**$6,266.22**
INCLUDING 3RD PARTY CHARGES	**$1,910.00**	**$6,266.22**

OUTSOURCE FLUID SOLUTIONS LLC.

MATERIAL CONSUMPTION

Date	Operator	Well Name and No.	Rig Name and No.	Report No.
05/05/20	MAGNOLIA OIL & GAS	LEVI GOODRICH U2 - 3H	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						2	$325.66
SAPP (50)	50# sk	$44.50						40	$1,780.00
PHPA LIQUID (pail)	5 gal	$41.36						2	$82.72
DYNA DET	pail	$32.23						8	$257.84
CACL2 (50)	50# sk	$14.32		196	196				
LIME (50)	50# sk	$5.00		150	150				
BENTONE 910 (50)	50# sk	$59.94		34	34				
BENTONE 990 (50)	50# sk	$83.59		40	40				
OPTI G	50# sk	$30.59		150	150				
OPTI MUL HP	gal	$10.75		825	825				
OPTI WET	gal	$8.34		550	550				
NEW PHALT	50# sk	$38.72		140	140				
NEWCARB 200	50# sk	$5.25		140	140				
MAGMAFIBER F (25)	25# sk	$28.05		60	60				
OIL SORB (25)	25# sk	$4.75		60	60				
NEW-WATE (SACK BARITE)	100# sk	$11.50		160	160				
BARITE BULK (100)	100# sk	$7.00		1500	1500				
OPTI DRILL (OBM)	bbl	$65.00		1916	1916				
ENGINEERING (24 HR)	each	$925.00				2	$1,850.00	4	$3,700.00
ENGINEERING (DIEM)	bbl	$30.00				2	$60.00	4	$120.00
ENGINEERING (MILES)	each	$1.00							
TRUCKING (cwt)	each	$2.50							
TRUCKING (min)	each	$795.00							
PALLETS (ea)	each	$12.00							
SHRINK WRAP (ea)	each	$12.00							

Daily Sub-Total $1,910.00	Cumulative Total $6,266.22	$6,266.22

THIRD PARTY COST SHEET

Date	Operator	Well Name and No.	Rig Name and No.	Report No.
05/05/20	**MAGNOLIA OIL & GAS**	**LEVI GOODRICH U2 - 3H**	**248**	**Report #3**

	DAILY USAGE & COST							CUMULATIVE	
Item	Unit	Unit Cost	Previous Inventory	Received	Closing Inventory	Daily Usage	Daily Cost	Cum Usage	Cum Cost
Diesel Transfer from 2H	gal	$0.91							
Diesel Transfer from Grand Canyon A - 1H	gal	$0.87		2000	2000				
Diesel transfer from Grand Canyon A - 1H	gal	$0.96		7199	7199				

Cumulative Total AES & 3rd Party $6,266.22

OUTSOURCE FLUID SOLUTIONS LLC.

FLUID VOLUME ACCOUNTING

Operator:	MAGNOLIA OIL & GAS
Rig Name:	248
Well Name:	LEVI GOODRICH U2 - 3H

		WEEK 1							WEEK 2							WEEK 3						
	Date	5/5/20	5/6/20	5/7/20	5/8/20	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
		Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon
	Bit Size	9 7/8																				
Grand Totals	Starting Depth	3,000	3,000																			
	Ending Depth	3,000																				
-	Footage Drilled	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	New Hole Vol.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Starting System Volume	215	1,916	1,916	1,916	1,916	1,916	1,916	1,916	1,916	1,916	1,916	1,916	1,916	1,916	1,916	1,916	1,916	1,916	1,916	1,916	1,916
-	Chemical Additions																					
-	Base Fluid Added																					
-	Barite Increase																					
1,701	Weighted Mud Added	1,701																				
-	Slurry Added																					
-	Water Added																					
-	Added for Washout																					
1,701	Total Additions	1,701	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	Surface Losses																					
-	Formation Loss																					
-	Mud Loss to Cuttings																					
-	Unrecoverable Volume																					
-	Centrifuge Losses																					
-	Total Losses	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	Mud Transferred Out																					
1,916	Ending System Volume	1,916	1,916	1,916	1,916	1,916	1,916	1,916	1,916	1,916	1,916	1,916	1,916	1,916	1,916	1,916	1,916	1,916	1,916	1,916	1,916	1,916
-	Mud Recovered																					

Comments:		Comments:	Comments:
5/5/20	Skid Rig from Grand Canyon, Transfer Sack and Liquid material . OBM transfer 1730bbls . Pick up New BHA and TIH	5/12/20	5/19/20
5/6/20		5/13/20	5/20/20
5/7/20		5/14/20	5/21/20
5/8/20		5/15/20	5/22/20
5/9/20		5/16/20	5/23/20
5/10/20		5/17/20	5/24/20
5/11/20		5/18/20	5/25/20

1,916

05/06/20 **Report #4**

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

OUTSOURCE FLUID SOLUTIONS LLC.

0.7° **7,737' TVD**

Operator	Contractor	County / Parish / Block	Engineer Start Date	24 hr ftg.	Drilled Depth
MAGNOLIA OIL & GAS	**PATTERSON**	**WASHINGTON**	**04/27/20**	**4,750 ft**	**7,750 ft**
Well Name and No.	Rig Name and No.	State	Spud Date	Current ROP	Activity
LEVI GOODRICH U2 - 3H	**248**	**TEXAS**	**04/27/20**	**263 ft/hr**	**Drilling Inter.**
Report for	Report for	Field / OCS-G #	Fluid Type	Circulating Rate	Circulating Pressure
JAMES DYER / BOBBY GWINN	**Tool Pusher**	**GIDDINGS**	**OBM**	**754 gpm**	**3,650 psi**

MUD PROPERTY SPECIFICATIONS

Weight	PV	YP	E.S.	CaCl2	GELS	HTHP
9.3-10.2	**8-20**	**5-12**	**>300**	**±270K**	**<10 <25**	**<10**
				5/6/20		5/5/20
Time Sample Taken				2:00		1:30
Sample Location				suction		shaker
Flowline Temperature °F				165 °F		140 °F
Depth (ft)				7,130'		4,184'
Mud Weight (ppg)				9.6		9.5
Funnel Vis (sec/qt)			@ 145 °F	53		58
600 rpm				42		39
300 rpm				26		24
200 rpm				20		19
100 rpm				14		16
6 rpm				8		7
3 rpm				7		6
Plastic Viscosity (cp)			@ 150 °F	16		15
Yield Point (lb/100 ft²)			T0 = 6	10		9
Gel Strength (lb/100 ft²)			10 sec/10 min	7/12		7/10
Gel Strength (lb/100 ft^2)			30 min	17		12
HTHP Filtrate (cm/30 min)			@ 300 °F	6.0		8.0
HTHP Cake Thickness (32nds)				2.0		2.0
Retort Solids Content				11%		11%
Corrected Solids (vol%)				8.9%		8.7%
Retort Oil Content				66%		66%
Retort Water Content				23%		23%
O/W Ratio				74:26		74:26
Whole Mud Chlorides (mg/L)				52,000		57,000
Water Phase Salinity (ppm)				261,733		279,856
Whole Mud Alkalinity, Pom				1.6		1.8
Excess Lime (lb/bbl)				2.1 ppb		2.3 ppb
Electrical Stability (volts)				460 v		435 v
Average Specific Gravity of Solids				3.21		3.05
Percent Low Gravity Solids				4.6%		5.2%
ppb Low Gravity Solids				37 ppb		43 ppb
Percent Barite				4.4%		3.5%
ppb Barite				63 ppb		50 ppb
Estimated Total LCM in System			ppb			
Sample Taken By				A. Roman	0	0

MUD VOLUME (BBL)

In Pits	874 bbl		
In Hole	686 bbl		
Active	1560 bbl		
Storage	991 bbl		
Tot. on Location	2551 bbl		

PUMP #1

Liner Size	5.75
Stroke	12
bbl/stk	0.0915
stk/min	98
gal/min	377

PUMP #2

Liner Size	5.75
Stroke	12
bbl/stk	0.0915
stk/min	98
gal/min	377

RISER BOOSTER

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

CIRCULATION DATA

PHHP = 1605 n = 0.692 K = 177.275

Bit Depth = 7,750 ' Washout = 2% Pump Efficiency = 95%

Drill String Disp.							
71.0 bbl	Volume to Bit	132.2 bbl	Strokes To Bit	1,444	Time To Bit	7 min
	Bottoms Up Vol.	553.5 bbl	BottomsUp Stks	6,047	BottomsUp Time	31 min
	TotalCirc.Vol.	1559.8 bbl	TotalCirc.Stks	17,040	Total Circ. Time	87 min

DRILLING ASSEMBLY DATA

Tubulars	OD (in.)	ID (in.)	Length	Top
Drill Pipe	5.000	4.276	5,069'	0'
Other Pipe	5.000	4.276	2,101'	5,069'
Hevi Wt	6.500	3.000	276'	7,170'
Dir. BHA	7.750	2.875	304'	7,446'

CASING & HOLE DATA

Casing	OD (in.)	ID (in.)	Depth	Top
Riser				
Surface	10 3/4	9.950	2,989'	0'
Int. Csg.				0'
Washout 1				
Washout 2				
Open Hole Size	10.073		7,750'	

ANNULAR GEOMETRY & RHEOLOGY

annular section	meas. depth	velocity ft/min	flow reg	ECD lb/gal
9.95x5	2,989'	249.6	turb	10.04
10.073x5	5,069'	241.5	lam	10.18
10.073x5	7,170'	241.5	lam	10.31
10.073x6.5	7,446'	311.9	turb	10.53
10.073x7.75	7,750'	446.1	turb	10.79

BIT DATA Manuf./Type ULTERRA/SPL613

Size	Depth In	Hours	Footage	ROP ft/hr
9 7/8	3,000 ft	18.0	4,750 ft	263.9

SOLIDS CONTROL

Unit	Screens	Hours
Shaker 1	140-80	18.0
Shaker 2	140-80	18.0
Shaker 3	140-80	18.0
Centrifuge 1		6.0

VOLUME ACCOUNTING (bbls)

Prev. Total on Location	1916.3
Transferred In(+)/Out(-)	588.0
Oil Added (+)	180.2
Barite Added (+)	0.0
Other Product Usage (+)	19.4
Water Added (+)	111.0
Left on Cuttings (-)	-234.1
Evaporation	-10.1
Non-Recoverable Vol. (-)	-20.0
Est. Total on Location	2550.7
Est. Losses/Gains (-)/(+)	0.0

BIT HYDRAULICS DATA

Bit H.S.I.	Bit ΔP	Nozzles (32nds)		
1.30	226 psi	14	14	14
Bit Impact Force	Nozzle Velocity (ft/sec)	14	14	14
		16	16	16
608 lbs	162			

Motor/MWD	Calc. Circ. Pressure
1,330 psi	3,211 psi

Remarks/Recommendations:

OBM RECEIVED -----2504 bbls

OBM on hand------2551 bbls

OBM Gain / Loss------(+47bbl)

SWEEP: 100bblsOBM/10Mag.Fiber / 10Cal Carb / 10N.Phalt

Pump 10-15 bbls every 300' or as requested.

Rig Activity:

Perform FIT to 11.6EMW. Resume drilling operations on Intermediate section. Drilling / Sliding ahead, Maintain constant additions of Diesel and Water for dilution and to offset evaporation. Additions of CaCl2 and Lime for WPS and Alkalinity. Transfer OBM from storage to acitve to maintain volume in the active system. Run Centrifuge for assitance on solids control. No Losses at this time. Continue to Pump LCM Sweeps every 300' for preventive and hole cleaning. Opti G and NewPhalt added for fluid loss maintenance.

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

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

	Daily Total	Cumulative Cost
	$8,147.33	**$14,413.55**
INCLUDING 3RD PARTY CHARGES	**$14,955.17**	**$21,221.39**

OUTSOURCE FLUID SOLUTIONS LLC.

MATERIAL CONSUMPTION

Date	Operator	Well Name and No.	Rig Name and No.	Report No.
05/06/20	MAGNOLIA OIL & GAS	LEVI GOODRICH U2 - 3H	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						2	$325.66
SAPP (50)	50# sk	$44.50						40	$1,780.00
PHPA LIQUID (pail)	5 gal	$41.36						2	$82.72
DYNA DET	pail	$32.23						8	$257.84
CACL2 (50)	50# sk	$14.32	196		140	56	$801.92	56	$801.92
LIME (50)	50# sk	$5.00	150		100	50	$250.00	50	$250.00
BENTONE 910 (50)	50# sk	$59.94	34		30	4	$239.76	4	$239.76
BENTONE 990 (50)	50# sk	$83.59	40		40				
OPTI G	50# sk	$30.59	150		120	30	$917.70	30	$917.70
OPTI MUL HP	gal	$10.75	825		680	145	$1,558.75	145	$1,558.75
OPTI WET	gal	$8.34	550		405	145	$1,209.30	145	$1,209.30
NEW PHALT	50# sk	$38.72	140		120	20	$774.40	20	$774.40
NEWCARB 200	50# sk	$5.25	140		110	30	$157.50	30	$157.50
MAGMAFIBER F (25)	25# sk	$28.05	60		50	10	$280.50	10	$280.50
OIL SORB (25)	25# sk	$4.75	60		50	10	$47.50	10	$47.50
NEW-WATE (SACK BARITE)	100# sk	$11.50	160		160				
BARITE BULK (100)	100# sk	$7.00	1500		1500				
OPTI DRILL (OBM)	bbl	$65.00	1916	588	2504				
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							
TRUCKING (min)	each	$795.00							
PALLETS (ea)	each	$12.00							
SHRINK WRAP (ea)	each	$12.00							

Daily Sub-Total $8,147.33	Cumulative Total $14,413.55	$14,413.55

THIRD PARTY COST SHEET

Date	Operator	Well Name and No.	Rig Name and No.	Report No.
05/06/20	**MAGNOLIA OIL & GAS**	**LEVI GOODRICH U2 - 3H**	**248**	**Report #4**

DAILY USAGE & COST								**CUMULATIVE**	
Item	Unit	Unit Cost	Previous Inventory	Received	Closing Inventory	Daily Usage	Daily Cost	Cum Usage	Cum Cost
Diesel Transfer from 2H	gal	$0.91							
Diesel Transfer from Grand Canyon A - 1H	gal	$0.87	2000			2000	$1,740.00	2000	$1,740.00
Diesel transfer from Grand Canyon A - 1H	gal	$0.96	7199		1920	5279	$5,067.84	5279	$5,067.84

						Daily Sub-Total	**$6,807.84**		**$6,807.84**

Cumulative Total AES & 3rd Party $21,221.39

OUTSOURCE FLUID SOLUTIONS LLC.

FLUID VOLUME ACCOUNTING

Operator:	MAGNOLIA OIL & GAS
Rig Name:	248
Well Name:	LEVI GOODRICH U2 - 3H

Grand Totals		WEEK 1							WEEK 2							WEEK 3						
	Date	5/5/20	5/6/20	5/7/20	5/8/20	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
		Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon
	Bit Size	9 7/8	9 7/8																			
	Starting Depth	3,000	3,000	7,750																		
	Ending Depth	3,000	7,750																			
4,750	Footage Drilled	-	4,750	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
450	New Hole Vol.	-	450	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Starting System Volume	215	1,916	2,551	2,551	2,551	2,551	2,551	2,551	2,551	2,551	2,551	2,551	2,551	2,551	2,551	2,551	2,551	2,551	2,551	2,551	2,551
19	Chemical Additions		19																			
180	Base Fluid Added		180																			
-	Barite Increase		-																			
2,289	Weighted Mud Added	1,701	588																			
-	Slurry Added		-																			
111	Water Added		111																			
-	Added for Washout		-																			
2,600	Total Additions	1,701	899	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	Surface Losses		-																			
-	Formation Loss		-																			
234	Mud Loss to Cuttings		234																			
10	Unrecoverable Volume		10																			
20	Centrifuge Losses		20																			
264	Total Losses	-	264	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	Mud Transferred Out																					
2,551	Ending System Volume	1,916	2,551	2,551	2,551	2,551	2,551	2,551	2,551	2,551	2,551	2,551	2,551	2,551	2,551	2,551	2,551	2,551	2,551	2,551	2,551	2,551
-	Mud Recovered																					

2,504

Comments:		Comments:	Comments:
5/5/20	Skid Rig from Grand Canyon, Transfer Sack and Liquid material . OBM transfer 1730bbls . Pick up New BHA and TIH	5/12/20	5/19/20
5/6/20	Drilling ahead on Intermediate section. Maintain constant Diesel and Water additions. Receive 588bbls from Newpark Mud Plant	5/13/20	5/20/20
5/7/20		5/14/20	5/21/20
5/8/20		5/15/20	5/22/20
5/9/20		5/16/20	5/23/20
5/10/20		5/17/20	5/24/20
5/11/20		5/18/20	5/25/20

5/6/2020 **Report 4 pm**

110 Old Market St.
St Martinville, LA 70582

TEL: (337) 394-1078

1.0° **9,420' TVD**

Operator	Contractor	County / Parish / Block	Engineer Start Date	24 hr ftg.	Drilled Depth
MAGNOLIA OIL & GAS	**PATTERSON**	**WASHINGTON**	**04/27/20**	**1,685 ft**	**9,435 ft**
Well Name and No.	Rig Name and No.	State	Spud Date	Current ROP	Activity
LEVI GOODRICH U2 - 3H	**248**	**TEXAS**	**04/27/20**	**244 ft/hr**	**Drilling**
Report for	Report for	Field / OSC-G #	Fluid Type	Circulating Rate	Circulating Pressure
JAMES DYER / BOBBY GWINN	**Tool Pusher**	**GIDDINGS**	**OBM**	**696 gpm**	**4,516 psi**

MUD PROPERTY SPECIFICATIONS

Weight	PV	YP	E.S.	CaCl2	GELS	HTHP
9.3-10.2	**8-20**	**5-12**	**>300**	**±270K**	**<10 <25**	**<10**

MUD PROPERTIES				
Time Sample Taken		2:00		11:00
Sample Location		suction		shaker
Flowline Temperature °F		165 °F		168 °F
Depth (ft)		7,130'		9,435'
Mud Weight (ppg)		9.6		9.7
Funnel Vis (sec/qt)	@ 145 °F	53		54
600 rpm		42		44
300 rpm		26		27
200 rpm		20		20
100 rpm		14		16
6 rpm		8		8
3 rpm		7		7
Plastic Viscosity (cp)	@ 150 °F	16		17
Yield Point (lb/100 ft²)	T0 = 6	10		10
Gel Strength (lb/100 ft²)	10 sec / 10 min	7/12		8/12
Gel Strength (lb/100 ft2)	30 min	17		16
HTHP Filtrate (cm/30 min)	@ 300 °F	6.0		6.0
HTHP Cake Thickness (32nds)		2.0		2.0
Retort Solids Content		11%		12%
Corrected Solids (vol%)		8.9%		9.9%
Retort Oil Content		66%		66%
Retort Water Content		23%		22%
O/W Ratio		74:26		75:25
Whole Mud Chlorides (mg/L)		52,000		52,000
Water Phase Salinity (ppm)		261,733		270,413
Whole Mud Alkalinity, Pom		1.6		2.0
Excess Lime (lb/bbl)		2.1 ppb		2.6 ppb
Electrical Stability (volts)		460 v		491 v
Average Specific Gravity of Solids		3.21		3.10
Percent Low Gravity Solids		4.6%		5.7%
ppb Low Gravity Solids		37 ppb		47 ppb
Percent Barite		4.4%		4.3%
ppb Barite		63 ppb		61 ppb
Estimated Total LCM in System				
Sample Taken By		A. Roman		M.Meehan

MUD VOLUME (BBL)

In Pits	602 bbl
In Hole	841 bbl
Active	1443 bbl
Storage	1191 bbl
Tot. on Location	2634 bbl

PUMP #1

Liner Size	5.75
Stroke	12
bbl/stk	0.0915
stk/min	90
gal/min	346

PUMP #2

Liner Size	5.75
Stroke	12
bbl/stk	0.0915
stk/min	91
gal/min	350

RISER BOOSTER

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

Mud Wt. = 9.6 PV=16 YP=10 **CIRCULATION DATA** n = 0.692 K = 177.3

Bit Depth = 9,435 ' | Washout = 2% | Pump Efficiency = 95%

Drill String Disp.							
82.0 bbl	Volume to Bit	162.1 bbl	Strokes To Bit	1,771	Time To Bit	10 min
	Bottoms Up Vol.	678.7 bbl	BottomsUp Stks	7,415	BottomsUp Time	41 min
	TotalCirc.Vol.	1442.8 bbl	TotalCirc.Stks	15,763	Total Circ. Time	87 min

DRILLING ASSEMBLY DATA

Tubulars	OD (in.)	ID (in.)	Length	Top
Drill Pipe	5.000	4.276	6,754'	
Other Pipe	5.000	4.276	2,101'	6,754'
Hevi Wt	6.500	3.000	276'	8,855'
Dir. BHA	7.750	2.875	304'	9,131'

CASING & HOLE DATA

Casing	OD (in.)	ID (in.)	Depth	Top
Riser				
Surface	10 3/4	9.950	2,989'	
Int. Csg.				
Washout 1				
Washout 2				
Open Hole Size	10.073		9,435'	

ANNULAR GEOMETRY & RHEOLOGY

annular section	depth	velocity ft/min	flow reg	ECD lb/gal
9.95x5	2,989'	230.5	lam	10.04
10.073x5	6,754'	223.0	lam	10.14
10.073x5	8,855'	223.0	lam	10.30
10.073x6.5	9,131'	288.0	turb	10.53
10.073x7.75	9,435'	411.9	turb	10.77

BIT DATA Manuf./Type ULTERRA/SPL613

Size	Depth In	Hours	Footage	ROP ft/hr
9 7/8	3,000 ft	28.0	6,435 ft	229.8

SOLIDS CONTROL

Unit	Screens	Hours
Shaker 1	140-80	12.0
Shaker 2	140-80	12.0
Shaker 3	140-80	12.0
Centrifuge 1		1.0

VOLUME ACCOUNTING (bbls)

Prev. Total on Location	2550.8
Transferred In(+)/Out(-)	190.0
Oil Added (+)	
Barite Added (+)	
Other Product Usage (+)	
Water Added (+)	
Left on Cuttings (-)	-99.6
Evaporation	
Non-Recoverable Vol. (-)	-7.3
Est. Total on Location	2633.8
Est. Losses/Gains (-)/(+)	0.0

BIT HYDRAULICS DATA

Bit H.S.I.	Bit ΔP	Nozzles (32nds)		
1.02	193 psi	14	14	14
Bit Impact Force	Nozzle Velocity (ft/sec)	14	14	14
		16	16	16
518 lbs	150			

Motor/MWD	Calc. Circ. Pressure
2,650 psi	4,516 psi

Afternoon Remarks/Recommendations:

Pump a 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 maintian the hole angle in the 9 7/8" hole section. Pumping a 20 bbls LCM sweep every 300'. Adding Optimul HP and lime for ES maintenance and alkalinity, Optiwet for oil wetting of solids and Bentone 910 to gradually increase flow propeties. Received 190 bbls 9.5 OBM from Newpark Madisonville facility.

05/07/20 **Report #5**

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

OUTSOURCE FLUID SOLUTIONS LLC.

0.6° **2,397' TVD**

Operator	Contractor	County / Parish / Block	Engineer Start Date	24 hr ftg.	Drilled Depth
MAGNOLIA OIL & GAS	**PATTERSON**	**WASHINGTON**	**04/27/20**	**2,495 ft**	**10,245 ft**
Well Name and No.	Rig Name and No.	State	Spud Date	Current ROP	Activity
LEVI GOODRICH U2 - 3H	**248**	**TEXAS**	**04/27/20**	**244 ft/hr**	**TOOH**
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
9.3-10.2	**8-20**	**5-12**	**>300**	**±270K**	**<10 <25**	**<10**
				5/6/20		5/6/20
Time Sample Taken				1:30		11:00
Sample Location				suction		shaker
Flowline Temperature °F						168 °F
Depth (ft)				10,245'		9,435'
Mud Weight (ppg)				9.9		9.7
Funnel Vis (sec/qt)			@ 159 °F	49		54
600 rpm				46		44
300 rpm				28		27
200 rpm				23		20
100 rpm				16		16
6 rpm				8		8
3 rpm				7		7
Plastic Viscosity (cp)			@ 150 °F	18		17
Yield Point (lb/100 ft²)			T0 = 6	10		10
Gel Strength (lb/100 ft²)			10 sec/10 min	8/11		8/12
Gel Strength (lb/100 ft^2)			30 min	14		16
HTHP Filtrate (cm/30 min)			@ 300 °F	6.0		6.0
HTHP Cake Thickness (32nds)				2.0		2.0
Retort Solids Content				12%		12%
Corrected Solids (vol%)				10.1%		9.9%
Retort Oil Content				67%		66%
Retort Water Content				21%		22%
O/W Ratio				76:24		75:25
Whole Mud Chlorides (mg/L)				48,000		52,000
Water Phase Salinity (ppm)				263,850		270,413
Whole Mud Alkalinity, Pom				1.7		2.0
Excess Lime (lb/bbl)				2.2 ppb		2.6 ppb
Electrical Stability (volts)				408 v		491 v
Average Specific Gravity of Solids				3.37		3.10
Percent Low Gravity Solids				4.2%		5.7%
ppb Low Gravity Solids				34 ppb		47 ppb
Percent Barite				5.9%		4.3%
ppb Barite				84 ppb		61 ppb
Estimated Total LCM in System			ppb			
Sample Taken By				R. Bowlin	0	M.Meehan

MUD VOLUME (BBL)		PUMP #1		PUMP #2		RISER BOOSTER	
In Pits	787 bbl	Liner Size	5.75	Liner Size	5.75	Liner Size	
In Hole	967 bbl	Stroke	12	Stroke	12	Stroke	
Active	981 bbl	bbl/stk	0.0915	bbl/stk	0.0915	bbl/stk	0.0000
Storage	902 bbl	stk/min		stk/min		stk/min	
Tot. on Location	2656 bbl	gal/min	0	gal/min	0	gal/min	0

CIRCULATION DATA			
PHHP = 0			n = 0.716 K = 164.036
Bit Depth = 2,397 '		Washout = 2%	Pump Efficiency = 95%
Drill String Disp.	Volume to Bit 37.1 bbl	Strokes To Bit	Time To Bit
	Bottoms Up Vol. 157.3 bbl	BottomsUp Stks	BottomsUp Time
36.1 bbl	TotalCirc.Vol. 981.5 bbl	TotalCirc.Stks	Total Circ. Time

DRILLING ASSEMBLY DATA

Tubulars	OD (in.)	ID (in.)	Length	Top
Drill Pipe	5.000	4.276	1,817'	0'
Other Pipe	5.000	4.276		1,817'
Hevi Wt	6.500	3.000	276'	1,817'
Dir. BHA	7.750	2.875	304'	2,093'

CASING & HOLE DATA

Casing	OD (in.)	ID (in.)	Depth	Top
Riser				
Surface	10 3/4	9.950	2,989'	0'
Int. Csg.				0'
Washout 1				
Washout 2				
Open Hole Size	10.073	10,245'		

ANNULAR GEOMETRY & RHEOLOGY

annular section	meas. depth	velocity ft/min	flow reg	ECD lb/gal
9.95x5	1,817'	0.0	lam	9.90
9.95x6.5	2,093'	0.0	lam	9.90
9.95x7.75	2,397'	0.0	lam	9.90

BIT DATA

Manuf./Type	Size	Depth In	Hours	Footage	ROP ft/hr
ULTERRA/SPL613	9 7/8	3,000 ft	38.0	7,245 ft	190.7

SOLIDS CONTROL

Unit	Screens	Hours
Shaker 1	140-80	24.0
Shaker 2	140-80	24.0
Shaker 3	140-80	24.0
Centrifuge 1		2.0

VOLUME ACCOUNTING (bbls)

Prev. Total on Location	2550.8
Transferred In(+)/Out(-)	190.0
Oil Added (+)	98.5
Barite Added (+)	19.1
Other Product Usage (+)	0.0
Water Added (+)	30.0
Left on Cuttings (-)	-196.7
Evaporation	-20.0
Non-Recoverable Vol. (-)	-16.1
Est. Total on Location	2655.6
Est. Losses/Gains (-)/(+)	0.0

BIT HYDRAULICS DATA

Bit H.S.I.	Bit ΔP	Nozzles (32nds)		
0.00	psi	14	14	14
Bit Impact Force	Nozzle Velocity (ft/sec)	14	14	14
		16	16	16
0 lbs	0			

Motor/MWD	Calc. Circ. Pressure
psi	

Remarks/Recommendations:

OBM RECEIVED -----2,694 bbls

OBM on hand------ 2656bbls

OBM Gain / Loss------(-38)

SWEEP: 100bblsOBM/10Mag.Fiber / 10Cal Carb / 10N.Phalt

Pump 10-15 bbls every 300' or as requested.

Rig Activity:

Drilled ahead in the intermediate section from 7,750'MD to TD of the section at 10,245'MD. Increased active density from 9.6ppg to 9.8ppg. Pumped preventative LCM sweeps in 10/bbl increments every 300' or as requested. Continual additions of diesel and drill H2O to maintain hole volume. Pumped (2) 30/bbl sweeps for the cleanup cycle, observed little no increase in cuttings load at the shakers. Sweeps came back to surface at calculated strokes. Pumped a 50/bbl slug 2.5ppg over the active MW of 9.8ppg. At the time of the morning report tripping out of the hole at 2,397'MD.

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

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

Daily Total	Cumulative Cost
$8,364.20	**$22,777.75**
INCLUDING 3RD PARTY CHARGES	**$12,150.50**	**$33,371.89**

5/7/2020 **Report 5 pm**

110 Old Market St.
St Martinville, LA 70582

TEL: (337) 394-1078

0.6° **111' TVD**

Operator	Contractor	County / Parish / Block	Engineer Start Date	24 hr ftg.	Drilled Depth
MAGNOLIA OIL & GAS	**PATTERSON**	**WASHINGTON**	**04/27/20**		**10,245 ft**
Well Name and No.	Rig Name and No.	State	Spud Date	Current ROP	Activity
LEVI GOODRICH U2 - 3H	**248**	**TEXAS**	**04/27/20**		**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
9.3-10.2	**8-20**	**5-12**	**>300**	**±270K**	**<10 <25**	**<10**

MUD PROPERTIES				
Time Sample Taken		1:30		11:00
Sample Location		suction		shaker
Flowline Temperature °F				
Depth (ft)		10,245'		10,245'
Mud Weight (ppg)		9.9		9.9
Funnel Vis (sec/qt)	@ 159 °F	49		55
600 rpm		46		47
300 rpm		28		28
200 rpm		23		22
100 rpm		16		16
6 rpm		8		8
3 rpm		7		7
Plastic Viscosity (cp)	@ 150 °F	18		19
Yield Point (lb/100 ft²)	T0 = 6	10		9
Gel Strength (lb/100 ft²)	10 sec / 10 min	8/11		8/12
Gel Strength (lb/100 ft2)	30 min	14		15
HTHP Filtrate (cm/30 min)	@ 300 °F	6.0		6.0
HTHP Cake Thickness (32nds)		2.0		2.0
Retort Solids Content		12%		12.5%
Corrected Solids (vol%)		10.1%		10.7%
Retort Oil Content		67%		66.5%
Retort Water Content		21%		21%
O/W Ratio		76:24		76:24
Whole Mud Chlorides (mg/L)		48,000		47,000
Water Phase Salinity (ppm)		263,850		259,781
Whole Mud Alkalinity, Pom		1.7		1.5
Excess Lime (lb/bbl)		2.2 ppb		2 ppb
Electrical Stability (volts)		408 v		481 v
Average Specific Gravity of Solids		3.37		3.25
Percent Low Gravity Solids		4.2%		5.2%
ppb Low Gravity Solids		34 ppb		43 ppb
Percent Barite		5.9%		5.5%
ppb Barite		84 ppb		78 ppb
Estimated Total LCM in System				
Sample Taken By		R. Bowlin		M.Meehan

MUD VOLUME (BBL)		PUMP #1		PUMP #2		RISER BOOSTER
In Pits	650 bbl	Liner Size	5.75	Liner Size	5.75	Liner Size
In Hole	1001 bbl	Stroke	12	Stroke	12	Stroke
Active	660 bbl	bbl/stk	0.0915	bbl/stk	0.0915	bbl/stk
Storage	972 bbl	stk/min		stk/min		stk/min
Tot. on Location	2623 bbl	gal/min		gal/min		gal/min

Mud Wt. = 9.9 PV=18 YP=10 **CIRCULATION DATA** n = 0.716 K = 164.0

Bit Depth = 111 ' | Washout = 2% | Pump Efficiency = 95%

Drill String Disp.	Volume to Bit	5.1 bbl	Strokes To Bit	Time To Bit
	Bottoms Up Vol.	4.4 bbl	BottomsUp Stks	BottomsUp Time
1.2 bbl	TotalCirc.Vol.	659.5 bbl	TotalCirc.Stks	Total Circ. Time

DRILLING ASSEMBLY DATA

Tubulars	OD (in.)	ID (in.)	Length	Top
	7.625	6.875	111'	
				111'
				111'
				111'

CASING & HOLE DATA

Casing	OD (in.)	ID (in.)	Depth	Top
Riser				
Surface	10 3/4	9.950	2,989'	
Int. Csg.				
Washout 1				
Washout 2				
Open Hole Size	10.073		10,245'	

ANNULAR GEOMETRY & RHEOLOGY

annular section	depth	velocity ft/min	flow reg	ECD lb/gal
9.95x7.625	111'		lam	9.90

BIT DATA Manuf./Type

Size	Depth In	Hours	Footage	ROP ft/hr	Motor/MWD	Calc. Circ. Pressure
9 7/8	10,245 ft					#DIV/0!

SOLIDS CONTROL

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

VOLUME ACCOUNTING (bbls)

Prev. Total on Location	2655.6
Transferred In(+)/Out(-)	
Oil Added (+)	
Barite Added (+)	
Other Product Usage (+)	
Water Added (+)	
Left on Cuttings (-)	
Evaporation	
Non-Recoverable Vol. (-)	-32.1
Est. Total on Location	2623.5
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:

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

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

Afternoon Rig Activity:

Continue to POOH. Laid down BHA. Changed the pipe rams and tested the BOPS. Rigged up to run casing. Running the 7.625" intermediate casing.

05/08/20 **Report #6**

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

OUTSOURCE FLUID SOLUTIONS LLC.

0.0° **0' TVD**

Operator	Contractor	County / Parish / Block	Engineer Start Date	24 hr ftg.	Drilled Depth
MAGNOLIA OIL & GAS	**PATTERSON**	**WASHINGTON**	**04/27/20**	**0 ft**	**10,245 ft**
Well Name and No.	Rig Name and No.	State	Spud Date	Current ROP	Activity
LEVI GOODRICH U2 - 3H	**248**	**TEXAS**	**04/27/20**	**0 ft/hr**	**Prep to Skid**
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
9.3-10.2	**8-20**	**5-12**	**>300**	**±270K**	**<10 <25**	**<10**
				5/8/20		5/7/20
Time Sample Taken				1:30		11:00
Sample Location				suction		shaker
Flowline Temperature °F						
Depth (ft)				10,245'		10,245'
Mud Weight (ppg)				9.9		9.9
Funnel Vis (sec/qt)			@ 125 °F	55		55
600 rpm				46		47
300 rpm				28		28
200 rpm				22		22
100 rpm				17		16
6 rpm				8		8
3 rpm				7		7
Plastic Viscosity (cp)			@ 150 °F	18		19
Yield Point (lb/100 ft²)			T0 = 6	10		9
Gel Strength (lb/100 ft²)			10 sec/10 min	8/11		8/12
Gel Strength (lb/100 ft^2)			30 min	14		15
HTHP Filtrate (cm/30 min)			@ 300 °F	6.0		6.0
HTHP Cake Thickness (32nds)				2.0		2.0
Retort Solids Content				12.5%		12.5%
Corrected Solids (vol%)				10.7%		10.7%
Retort Oil Content				66.5%		66.5%
Retort Water Content				21%		21%
O/W Ratio				76:24		76:24
Whole Mud Chlorides (mg/L)				46,000		47,000
Water Phase Salinity (ppm)				255,667		259,781
Whole Mud Alkalinity, Pom				1.5		1.5
Excess Lime (lb/bbl)				2 ppb		2 ppb
Electrical Stability (volts)				422 v		481 v
Average Specific Gravity of Solids				3.25		3.25
Percent Low Gravity Solids				5.2%		5.2%
ppb Low Gravity Solids				42 ppb		43 ppb
Percent Barite				5.5%		5.5%
ppb Barite				79 ppb		78 ppb
Estimated Total LCM in System			ppb			
Sample Taken By				R. Bowlin	0	M.Meehan

MUD VOLUME (BBL)

In Pits	
In Hole	470 bbl
Active	0 bbl
Storage	
Tot. on Location	470 bbl

PUMP #1		PUMP #2		RISER BOOSTER	
Liner Size	5.75	Liner Size	5.75	Liner Size	
Stroke	12	Stroke	12	Stroke	
bbl/stk	0.0915	bbl/stk	0.0915	bbl/stk	0.0000
stk/min		stk/min		stk/min	
gal/min	0	gal/min	0	gal/min	0

PHHP = 0

CIRCULATION DATA n = 0.716 K = 164.036

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.	0.0 bbl	TotalCirc.Stks	Total Circ. Time

DRILLING ASSEMBLY DATA

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

CASING & HOLE DATA

Casing	OD (in.)	ID (in.)	Depth	Top
Riser				
Surface	10 3/4		2,989'	0'
Int. Csg.	7 5/8	6.875	10,237'	0'
Washout 1				
Washout 2				
Open Hole Size	0.000		10,245'	

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

SOLIDS CONTROL

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

VOLUME ACCOUNTING (bbls)

Prev. Total on Location	2655.6
Transferred In(+)/Out(-)	-2101.0
Oil Added (+)	0.0
Barite Added (+)	0.0
Other Product Usage (+)	0.0
Water Added (+)	
Left on Cuttings (-)	0.0
Spacer/ Interface/ Evap	-31.0
Non-Recoverable Vol. (-)	-53.6
Est. Total on Location	470.0
Est. Losses/Gains (-)/(+)	0.0

BIT HYDRAULICS DATA

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

Motor/MWD	Calc. Circ. Pressure
psi	

Remarks/Recommendations:

OBM RECEIVED -----2,694 bbls

OBM on hand------ 2571bbls

OBM Gain / Loss------(-123)

Left in Casing 470bbls

Skid Vol 2101

Rig Activity:

Finished TOOH, LD the 9.875" directional BHA. RU casing crew, MU the shoe track and ran the 7.625" intermediate casing to bottom setting shoe at 10,237'MD, RD casing crew. Circulate 1X casing volume, RU cementing crew and cement the the same, pumped 40bbls spacer, 285bbls lead, 78bbls tail and displaced with 9.9ppg OBM 446bbls and 20bbls H2O last. Trans excess volume to the frac storage for use on the 2H. Good returns during the cement job. The active volume will be conditioned and the density will be decreased to 9.5ppg with diesel for drill out. Began dumping interface/spacer at 440bbls into the displacement, dumped a total of 26bbls.

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

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

	Daily Total	Cumulative Cost
	$8,600.00	**$31,377.75**
INCLUDING 3RD PARTY CHARGES	**$8,600.00**	**$41,971.89**

5/8/2020 **Report 6 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**	**04/27/20**		**10,245 ft**
Well Name and No.	Rig Name and No.	State	Spud Date	Current ROP	Activity
LEVI GOODRICH U2 - 3H	**248**	**TEXAS**	**04/27/20**		**Skid Rig**
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
9.3-10.2	**8-20**	**5-12**	**>300**	**±270K**	**<10 <25**	**<10**

MUD PROPERTIES				
Time Sample Taken		1:30		11:00
Sample Location		suction		suction
Flowline Temperature °F				
Depth (ft)		10,245'		10,245'
Mud Weight (ppg)		9.9		9.5
Funnel Vis (sec/qt)	@ 125 °F	55		50
600 rpm		46		34
300 rpm		28		21
200 rpm		22		15
100 rpm		17		10
6 rpm		8		5
3 rpm		7		4
Plastic Viscosity (cp)	@ 150 °F	18		13
Yield Point (lb/100 ft²)	T0 = 6	10		8
Gel Strength (lb/100 ft²)	10 sec / 10 min	8/11		5/7
Gel Strength (lb/100 ft2)	30 min	14		9
HTHP Filtrate (cm/30 min)	@ 300 °F	6.0		8.0
HTHP Cake Thickness (32nds)		2.0		2.0
Retort Solids Content		12.5%		10.5%
Corrected Solids (vol%)		10.7%		8.5%
Retort Oil Content		66.5%		66.5%
Retort Water Content		21%		23%
O/W Ratio		76:24		74:26
Whole Mud Chlorides (mg/L)		46,000		52,000
Water Phase Salinity (ppm)		255,667		261,733
Whole Mud Alkalinity, Pom		1.5		2.1
Excess Lime (lb/bbl)		2 ppb		2.7 ppb
Electrical Stability (volts)		422 v		420 v
Average Specific Gravity of Solids		3.25		3.19
Percent Low Gravity Solids		5.2%		4.4%
ppb Low Gravity Solids		42 ppb		36 ppb
Percent Barite		5.5%		4.1%
ppb Barite		79 ppb		58 ppb
Estimated Total LCM in System				
Sample Taken By		R. Bowlin		M.Meehan

MUD VOLUME (BBL)

In Pits	
In Hole	470 bbl
Active	
Storage	
Tot. on Location	470 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=18 YP=10 **CIRCULATION DATA** n = 0.716 K = 164.0

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.	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 3/4		2,989'	
Int. Csg.	7 5/8	6.875	10,237'	
Washout 1				
Washout 2				
Open Hole Size			10,245'	

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	140-80	
Shaker 2	140-80	
Shaker 3	140-80	
Centrifuge 1		

VOLUME ACCOUNTING (bbls)

Prev. Total on Location	470.0
Transferred In(+)/Out(-)	
Oil Added (+)	
Barite Added (+)	
Other Product Usage (+)	
Water Added (+)	
Left on Cuttings (-)	
Spacer/ Interface/ Evap	
Non-Recoverable Vol. (-)	
Est. Total on Location	470.0
Est. Losses/Gains (-)/(+)	

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:

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

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

Afternoon Rig Activity:

Rigged down cementers. Rigged down to skid the rig. Skidding the rig to the Levi Goodrick U2-2H well. Circulated the mud pits and reduced the mud wt. to 9.5 ppg with diesel. Pretreating the system with 100 gals of Optimul and Optiwet in preparation for rapid drilling in the vertical section. Adding Lime to increase the alkalinity. Added Calcium Chloride to increase the CaCL2 content. Changed worn shale shaker screens to 140 mesh.

06/07/20 **Report #7**

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

OUTSOURCE FLUID SOLUTIONS LLC.

0.0° **0' TVD**

Operator	Contractor	County / Parish / Block	Engineer Start Date	24 hr ftg.	Drilled Depth
MAGNOLIA OIL & GAS	**PATTERSON**	**WASHINGTON**	**04/27/20**	**0 ft**	**10,245 ft**
Well Name and No.	Rig Name and No.	State	Spud Date	Current ROP	Activity
LEVI GOODRICH U2 - 3H	**248**	**TEXAS**	**04/27/20**	**0 ft/hr**	**Skid Rig/Transfer**
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						
Weight	PV	YP	E.S.	CaCl2	GELS	HTHP
9.3-10.2	**8-20**	**5-12**	**>300**	**±270K**	**<10 <25**	**<10**
				5/8/20		
Time Sample Taken				1:30		
Sample Location				suction		
Flowline Temperature °F						
Depth (ft)				10,245'		
Mud Weight (ppg)				9.9		
Funnel Vis (sec/qt)		@ 125 °F		55		
600 rpm				46		
300 rpm				28		
200 rpm				22		
100 rpm				17		
6 rpm				8		
3 rpm				7		
Plastic Viscosity (cp)		@ 150 °F		18		
Yield Point (lb/100 ft²)		T0 = 6		10		
Gel Strength (lb/100 ft²)		10 sec/10 min		8/11		
Gel Strength (lb/100 ft^2)		30 min		14		
HTHP Filtrate (cm/30 min)		@ 300 °F		6.0		
HTHP Cake Thickness (32nds)				2.0		
Retort Solids Content				12.5%		
Corrected Solids (vol%)				10.7%		
Retort Oil Content				66.5%		
Retort Water Content				21%		
O/W Ratio				76:24		
Whole Mud Chlorides (mg/L)				46,000		
Water Phase Salinity (ppm)				255,667		
Whole Mud Alkalinity, Pom				1.5		
Excess Lime (lb/bbl)				2 ppb		
Electrical Stability (volts)				422 v		
Average Specific Gravity of Solids				3.25		
Percent Low Gravity Solids				5.2%		
ppb Low Gravity Solids				42 ppb		
Percent Barite				5.5%		
ppb Barite				79 ppb		
Estimated Total LCM in System		ppb				
Sample Taken By				R. Bowlin	0	M.Meehan

MUD VOLUME (BBL)		PUMP #1		PUMP #2		RISER BOOSTER	
In Pits	844 bbl	Liner Size	5.25	Liner Size	5.25	Liner Size	
In Hole	470 bbl	Stroke	12	Stroke	12	Stroke	
Active	844 bbl	bbl/stk	0.0763	bbl/stk	0.0763	bbl/stk	0.0000
Storage	1126 bbl	stk/min	0	stk/min	0	stk/min	
Tot. on Location	2440 bbl	gal/min	0	gal/min	0	gal/min	0

PHHP = 0 **CIRCULATION DATA** n = 0.716 K = 164.036

Bit Depth = ' Washout = 0% 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	TotalCirc.Vol.	844.0 bbl	TotalCirc.Stks	Total Circ. Time

DRILLING ASSEMBLY DATA

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

CASING & HOLE DATA

Casing	OD (in.)	ID (in.)	Depth	Top
Riser				
Surface	10 3/4		2,989'	0'
Int. Csg.	7 5/8	6.875	10,237'	0'
Washout 1				
Washout 2				
Open Hole Size	0.000		10,245'	

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
					psi	

SOLIDS CONTROL

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

VOLUME ACCOUNTING (bbls)

Prev. Total on Location	470.0
Transferred In(+)/Out(-)	1970.0
Oil Added (+)	0.0
Barite Added (+)	0.0
Other Product Usage (+)	0.0
Water Added (+)	
Left on Cuttings (-)	0.0
Spacer/ Interface/ Evap	
Non-Recoverable Vol. (-)	
Est. Total on Location	2440.0
Est. Losses/Gains (-)/(+)	0.0

BIT HYDRAULICS DATA

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

Remarks/Recommendations:

OBM RECEIVED -----1,970 bbls

OBM on hand------ 2440 bbls (storage + Active + in Casing)

OBM Gain / Loss------()

Kill mud on Hand: 372bbls // 15# // $65.00/bbl

Discounted OBM: 367bbls / 12.5# -- 377bbls 9.8# // $15.00/bbl

Rig Activity:

Skid Rig from 2H, Transfer all sack material and OBM to inventory.

Eng. 1:	Eng. 2:	WH 1:	WH 2:	Rig Phone:
ADOLFO ROMAN	Matt Meehan	MIDLAND	WH #2	
Phone: 956-821-9994	Phone: 985-351-7561	Phone: 432-686-7361	Phone: -	

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

	Daily Total	Cumulative Cost
	$0.00	**$31,377.75**
INCLUDING 3RD PARTY CHARGES	**$0.00**	**$41,971.89**

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 U2 - 3H	248	Report #7

			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						2	$325.66
SAPP (50)	50# sk	$44.50						40	$1,780.00
PHPA LIQUID (pail)	5 gal	$41.36		88	88			2	$82.72
DYNA DET	pail	$32.23						8	$257.84
EVO-LUBE	gal	$9.31		975	975				
GEL (100)	100# sk	$10.00		70	70				
BENTONE 38 (50)	50# sk	$163.94		20	20				
CACL2 (50)	50# sk	$14.32		110	110			56	$801.92
LIME (50)	50# sk	$5.00		110	110			50	$250.00
BENTONE 910 (50)	50# sk	$59.94		30	30			4	$239.76
BENTONE 990 (50)	50# sk	$83.59		35	35				
OPTI G	50# sk	$30.59		80	80			30	$917.70
OPTI MUL HP	gal	$10.75		275	275			175	$1,881.25
OPTI WET	gal	$8.34		330	330			175	$1,459.50
NEW PHALT	50# sk	$38.72		40	40			20	$774.40
NEWCARB 200	50# sk	$5.25		36	36			30	$157.50
MAGMAFIBER F (25)	25# sk	$28.05		20	20			10	$280.50
NEWCARB 100	each	$5.37		50	50				
OIL SORB (25)	25# sk	$4.75		30	30			20	$95.00
CYBERSEAL	each	$21.47		180	180				
NEW-WATE (SACK BARITE)	100# sk	$11.50		160	160				
BARITE BULK (100)	100# sk	$7.00	-460	1760	1300			275	$1,925.00
DYNA FIBER MED.	each	$53.67		85	85				
FIBER PLUG	each	$30.37		30	30				
MAGMAFIBER R (30)	30# sk	$28.05		80	80				
OPTI DRILL (OBM)	bbl	$65.00	470	890	1360			123	$7,995.00
MAGNOLIA OBM	bbl			166	166				
DISCOUNTED OBM	bbl	$15.00		914	914				
ENGINEERING (24 HR)	each	$925.00						10	$9,250.00
ENGINEERING (DIEM)	bbl	$30.00						10	$300.00
ENGINEERING (MILES)	each	$1.00						1439	$1,439.00
SCALE TICKET		$15.00						1	$15.00
TRUCKING (cwt)	each	$2.50						460	$1,150.00
TRUCKING (min)	each	$795.00							
PALLETS (ea)	each	$12.00							
SHRINK WRAP (ea)	each	$12.00							
					Cumulative Total	$31,377.75		$31,377.75	

THIRD PARTY COST SHEET

Date	Operator	Well Name and No.	Rig Name and No.	Report No.
06/07/20	**MAGNOLIA OIL & GAS**	**LEVI GOODRICH U2 - 3H**	**248**	**Report #7**

DAILY USAGE & COST								CUMULATIVE	
Item	Unit	Unit Cost	Previous Inventory	Received	Closing Inventory	Daily Usage	Daily Cost	Cum Usage	Cum Cost
Diesel Transfer from 2H	gal	$0.91							
Diesel Transfer from Grand Canyon A - 1H	gal	$0.87						2000	$1,740.00
Diesel transfer from Grand Canyon A - 1H	gal	$0.96						7199	$6,911.04
Diesel 5/6/20	gal	$0.90						2159	$1,943.10
DIESEL TRANSFER FROM 2H	gal	$1.16		7872	7872				
TURBO CHEM FIRST RESPONSE	each	$41.75		180	180				

$10,594.14

Cumulative Total AES & 3rd Party $41,971.89

OUTSOURCE FLUID SOLUTIONS LLC.

FLUID VOLUME ACCOUNTING

Operator:	MAGNOLIA OIL & GAS
Rig Name:	248
Well Name:	LEVI GOODRICH U2 - 3H

		WEEK 1							WEEK 2							WEEK 3						
	Date	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	6/20/20	6/21/20	6/22/20	6/23/20	6/24/20	6/25/20	6/26/20	6/27/20
		Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat
	Bit Size	6 3/4																				
Grand Totals	Starting Depth	10,245	10,245																			
	Ending Depth	10,245																				
-	Footage Drilled	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	New Hole Vol.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Starting System Volume	470	2,440	2,440	2,440	2,440	2,440	2,440	2,440	2,440	2,440	2,440	2,440	2,440	2,440	2,440	2,440	2,440	2,440	2,440	2,440	2,440
-	Chemical Additions	-																				
-	Base Fluid Added	-																				
-	Barite Increase	-																				
1,970	Weighted Mud Added	1,970																				
-	Slurry Added	-																				
-	Water Added	-																				
-	Added for Washout	-																				
1,970	Total Additions	1,970	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	Surface Losses	-																				
-	Formation Loss	-																				
-	Mud Loss to Cuttings	-																				
-	Unrecoverable Volume	-																				
-	Centrifuge Losses	-																				
-	Total Losses	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	Mud Transferred Out	-																				
2,440	Ending System Volume	2,440	2,440	2,440	2,440	2,440	2,440	2,440	2,440	2,440	2,440	2,440	2,440	2,440	2,440	2,440	2,440	2,440	2,440	2,440	2,440	2,440
-	Mud Recovered																					

	Comments:	Comments:	Comments:
	6/7/20 TRANSFER FROM 2H.	6/14/20	6/21/20
2,440	6/8/20	6/15/20	6/22/20
	6/9/20	6/16/20	6/23/20
	6/10/20	6/17/20	6/24/20
	6/11/20	6/18/20	6/25/20
	6/12/20	6/19/20	6/26/20
	6/13/20	6/20/20	6/27/20

06/08/20 **Report #8**

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**	**04/27/20**	**0 ft**	**10,245 ft**
Well Name and No.	Rig Name and No.	State	Spud Date	Current ROP	Activity
LEVI GOODRICH U2 - 3H	**248**	**TEXAS**	**04/27/20**	**0 ft/hr**	**Repair BOP's**
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	844 bbl	Liner Size	5.25	Liner Size	5.25	Liner Size	
9.3-10.2	**8-20**	**5-12**	**>300**	**±250K**	**<10 <25**	**<10**	In Hole	470 bbl	Stroke	12	Stroke	12	Stroke	
				6/8/20		6/7/20	Active	844 bbl	bbl/stk	0.0763	bbl/stk	0.0763	bbl/stk	0.0000
Time Sample Taken				2:00		11:00	Storage	1615 bbl	stk/min	0	stk/min	0	stk/min	
Sample Location				suction		suction	Tot. on Location	2929 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)				10,245'		10,245'	Bit Depth = '		Washout = 0%				Pump Efficiency = 95%	
Mud Weight (ppg)				10.0		10.1	Drill String Disp.	Volume to Bit 0.0 bbl	Strokes To Bit				Time To Bit	
Funnel Vis (sec/qt)			@ 125 °F	50		47		Bottoms Up Vol. 0.0 bbl	BottomsUp Stks				BottomsUp Time	
600 rpm				30		29	0.0 bbl	TotalCirc.Vol. 844.0 bbl	TotalCirc.Stks				Total Circ. Time	
300 rpm				18		18	**DRILLING ASSEMBLY DATA**						**SOLIDS CONTROL**	
200 rpm				15		15	Tubulars	OD (in.) ID (in.) Length Top					Unit Screens Hours	
100 rpm				10		12		0' 0'					Shaker 1 170 0.0	
6 rpm				6		5		0'					Shaker 2 170 0.0	
3 rpm				4		4		0'					Shaker 3 170 0.0	
Plastic Viscosity (cp)			@ 150 °F	12		11		0'					Centrifuge 1 0.0	
Yield Point (lb/100 ft²)			T0 = 2	6		7	**CASING & HOLE DATA**							
Gel Strength (lb/100 ft²)			10 sec/10 min	6/9		5/7	Casing	OD (in.) ID (in.) Depth Top						
Gel Strength (lb/100 ft^2)			30 min	11		9	Riser						**VOLUME ACCOUNTING (bbls)**	
HTHP Filtrate (cm/30 min)			@ 300 °F	8.0		8.0	Surface	10 3/4 2,989' 0'					Prev. Total on Location	2440.0
HTHP Cake Thickness (32nds)				2.0		2.0	Int. Csg.	7 5/8 6.875 10,237' 0'					Transferred In(+)/Out(-)	489.0
Retort Solids Content				13%		13%	Washout 1						Oil Added (+)	0.0
Corrected Solids (vol%)				11.3%		11.4%	Washout 2						Barite Added (+)	0.0
Retort Oil Content				68%		68%	Open Hole Size	0.000 10,245'					Other Product Usage (+)	0.0
Retort Water Content				19%		19%	**ANNULAR GEOMETRY & RHEOLOGY**						Water Added (+)	0.0
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								
Water Phase Salinity (ppm)				257,405		252,826								
Whole Mud Alkalinity, Pom				1.8		1.4							Est. Total on Location	2929.0
Excess Lime (lb/bbl)				2.3 ppb		1.8 ppb							Est. Losses/Gains (-)/(+)	0.0
Electrical Stability (volts)				422 v		438 v							**BIT HYDRAULICS DATA**	
Average Specific Gravity of Solids				3.29		3.39							Bit H.S.I. / Bit ΔP / Nozzles (32nds)	
Percent Low Gravity Solids				5.2%		4.6%								
ppb Low Gravity Solids				43 ppb		38 ppb							Bit Impact Force / Nozzle Velocity (ft/sec)	
Percent Barite				6.1%		6.8%								
ppb Barite				87 ppb		97 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							psi	

Remarks/Recommendations:

OBM RECEIVED -----2,459 bbls

OBM on hand------ 2,929bbls (storage + Active + in Casing)

OBM Gain / Loss------()

Kill mud on Hand: 372bbls // 15# // $65.00/bbl

Discounted OBM: 372bbl//12.5# --382bbls 9.8#--489 bbls //10.9# ------$15.00/bbl

Rig Activity:

Testing BOP's. Upper Ram's not testing. Change out Ram inserts and changing out Annular Preventer Element. Shakers dressed up and pre-treat OBM in active system in preparation to drilling out from Intermediate casing shoe. 489bbls of Discounted OBM 10.9ppg received from Madisonville Mud Plant.

Eng. 1:	Eng. 2:	WH 1:	WH 2:	Rig Phone:
ADOLFO ROMAN	Matt Meehan	MIDLAND	WH #2	
Phone: 956-821-9994	Phone: 985-351-7561	Phone: 432-686-7361	Phone: -	

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

	Daily Total	Cumulative Cost
	$1,910.00	**$33,287.75**
INCLUDING 3RD PARTY CHARGES	**$1,910.00**	**$43,881.89**

OUTSOURCE FLUID SOLUTIONS LLC.

MATERIAL CONSUMPTION

Date	Operator	Well Name and No.	Rig Name and No.	Report No.
06/08/20	MAGNOLIA OIL & GAS	LEVI GOODRICH U2 - 3H	248	Report #8

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						2	$325.66
SAPP (50)	50# sk	$44.50						40	$1,780.00
PHPA LIQUID (pail)	5 gal	$41.36	88		88			2	$82.72
DYNA DET	pail	$32.23						8	$257.84
EVO-LUBE	gal	$9.31	975		975				
GEL (100)	100# sk	$10.00	70		70				
BENTONE 38 (50)	50# sk	$163.94	20		20				
CACL2 (50)	50# sk	$14.32	110		110			56	$801.92
LIME (50)	50# sk	$5.00	110		110			50	$250.00
BENTONE 910 (50)	50# sk	$59.94	30		30			4	$239.76
BENTONE 990 (50)	50# sk	$83.59	35		35				
OPTI G	50# sk	$30.59	80		80			30	$917.70
OPTI MUL HP	gal	$10.75	275		275			175	$1,881.25
OPTI WET	gal	$8.34	330		330			175	$1,459.50
NEW PHALT	50# sk	$38.72	40		40			20	$774.40
NEWCARB 200	50# sk	$5.25	36		36			30	$157.50
MAGMAFIBER F (25)	25# sk	$28.05	20		20			10	$280.50
NEWCARB 100	each	$5.37	50		50				
OIL SORB (25)	25# sk	$4.75	30		30			20	$95.00
CYBERSEAL	each	$21.47	180		180				
NEW-WATE (SACK BARITE)	100# sk	$11.50	160		160				
BARITE BULK (100)	100# sk	$7.00	1300		1300			275	$1,925.00
DYNA FIBER MED.	each	$53.67	85		85				
FIBER PLUG	each	$30.37	30		30				
MAGMAFIBER R (30)	30# sk	$28.05	80		80				
OPTI DRILL (OBM)	bbl	$65.00	1360		1360			123	$7,995.00
MAGNOLIA OBM	bbl		166		166				
DISCOUNTED OBM	bbl	$15.00	914	489	1403				
ENGINEERING (24 HR)	each	$925.00				2	$1,850.00	12	$11,100.00
ENGINEERING (DIEM)	bbl	$30.00				2	$60.00	12	$360.00
ENGINEERING (MILES)	each	$1.00						1439	$1,439.00
SCALE TICKET		$15.00						1	$15.00
TRUCKING (cwt)	each	$2.50						460	$1,150.00
TRUCKING (min)	each	$795.00							
PALLETS (ea)	each	$12.00							
SHRINK WRAP (ea)	each	$12.00							
		Daily Sub-Total $1,910.00			**Cumulative Total $33,287.75**			**$33,287.75**	

THIRD PARTY COST SHEET

Date	Operator	Well Name and No.	Rig Name and No.	Report No.
06/08/20	**MAGNOLIA OIL & GAS**	**LEVI GOODRICH U2 - 3H**	**248**	**Report #8**

DAILY USAGE & COST								CUMULATIVE	
Item	Unit	Unit Cost	Previous Inventory	Received	Closing Inventory	Daily Usage	Daily Cost	Cum Usage	Cum Cost
Diesel Transfer from 2H	gal	$0.91							
Diesel Transfer from Grand Canyon A - 1H	gal	$0.87						2000	$1,740.00
Diesel transfer from Grand Canyon A - 1H	gal	$0.96						7199	$6,911.04
Diesel 5/6/20	gal	$0.90						2159	$1,943.10
DIESEL TRANSFER FROM 2H	gal	$1.16	7872		7872				
TURBO CHEM FIRST RESPONSE	each	$41.75	180		180				
								$10,594.14	

Cumulative Total AES & 3rd Party $43,881.89

OUTSOURCE FLUID SOLUTIONS LLC.

FLUID VOLUME ACCOUNTING

Operator:	MAGNOLIA OIL & GAS
Rig Name:	248
Well Name:	LEVI GOODRICH U2 - 3H

		WEEK 1							WEEK 2							WEEK 3						
	Date	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	6/20/20	6/21/20	6/22/20	6/23/20	6/24/20	6/25/20	6/26/20	6/27/20
		Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat
	Bit Size	6 3/4	6 3/4																			
Grand Totals	Starting Depth	10,245	10,245	10,245																		
	Ending Depth	10,245	10,245																			
-	Footage Drilled	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	New Hole Vol.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Starting System Volume	470	2,440	2,929	2,929	2,929	2,929	2,929	2,929	2,929	2,929	2,929	2,929	2,929	2,929	2,929	2,929	2,929	2,929	2,929	2,929	2,929
-	Chemical Additions	-	-																			
-	Base Fluid Added	-	-																			
-	Barite Increase	-	-																			
2,459	Weighted Mud Added	1,970	489																			
-	Slurry Added	-	-																			
-	Water Added	-	-																			
-	Added for Washout	-	-																			
2,459	Total Additions	1,970	489	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	Surface Losses	-	-																			
-	Formation Loss	-	-																			
-	Mud Loss to Cuttings	-	-																			
-	Unrecoverable Volume	-	-																			
-	Centrifuge Losses	-	-																			
-	Total Losses	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	Mud Transferred Out	-	-																			
2,929	Ending System Volume	2,440	2,929	2,929	2,929	2,929	2,929	2,929	2,929	2,929	2,929	2,929	2,929	2,929	2,929	2,929	2,929	2,929	2,929	2,929	2,929	2,929
-	Mud Recovered																					

2,929

Comments:		Comments:	Comments:
6/7/20	TRANSFER FROM 2H.	6/14/20	6/21/20
6/8/20	Testing and repair to BOP's. Received 489bbls 10.9# Discounted mud.	6/15/20	6/22/20
6/9/20		6/16/20	6/23/20
6/10/20		6/17/20	6/24/20
6/11/20		6/18/20	6/25/20
6/12/20		6/19/20	6/26/20
6/13/20		6/20/20	6/27/20

6/8/2020 **Report 8 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**	**04/27/20**		**10,245 ft**
Well Name and No.	Rig Name and No.	State	Spud Date	Current ROP	Activity
LEVI GOODRICH U2 - 3H	**248**	**TEXAS**	**04/27/20**		**Test BOPS**
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
9.3-10.2	**8-20**	**5-12**	**>300**	**±250K**	**<10 <25**	**<10**

MUD PROPERTIES				
Time Sample Taken		2:00		11:00
Sample Location		suction		suction
Flowline Temperature °F				
Depth (ft)		10,245'		10,245'
Mud Weight (ppg)		10.0		10.0
Funnel Vis (sec/qt)	@ 125 °F	50		51
600 rpm		30		29
300 rpm		18		18
200 rpm		15		15
100 rpm		10		12
6 rpm		6		6
3 rpm		4		4
Plastic Viscosity (cp)	@ 150 °F	12		11
Yield Point (lb/100 ft²)	T0 = 2	6		7
Gel Strength (lb/100 ft²)	10 sec / 10 min	6/9		6/9
Gel Strength (lb/100 ft2)	30 min	11		11
HTHP Filtrate (cm/30 min)	@ 300 °F	8.0		6.8
HTHP Cake Thickness (32nds)		2.0		2.0
Retort Solids Content		13%		13%
Corrected Solids (vol%)		11.3%		11.4%
Retort Oil Content		68%		68%
Retort Water Content		19%		19%
O/W Ratio		78:22		78:22
Whole Mud Chlorides (mg/L)		42,000		41,000
Water Phase Salinity (ppm)		257,405		252,826
Whole Mud Alkalinity, Pom		1.8		1.8
Excess Lime (lb/bbl)		2.3 ppb		2.3 ppb
Electrical Stability (volts)		422 v		431 v
Average Specific Gravity of Solids		3.29		3.29
Percent Low Gravity Solids		5.2%		5.3%
ppb Low Gravity Solids		43 ppb		44 ppb
Percent Barite		6.1%		6.1%
ppb Barite		87 ppb		88 ppb
Estimated Total LCM in System				
Sample Taken By		A. ROMAN		M.Meehan

MUD VOLUME (BBL)		PUMP #1		PUMP #2		RISER BOOSTER
In Pits	844 bbl	Liner Size	5.25	Liner Size	5.25	Liner Size
In Hole	470 bbl	Stroke	12	Stroke	12	Stroke
Active	844 bbl	bbl/stk	0.0763	bbl/stk	0.0763	bbl/stk
Storage	1615 bbl	stk/min		stk/min		stk/min
Tot. on Location	2929 bbl	gal/min		gal/min		gal/min

Mud Wt. = 10.0 PV=12 YP=6 **CIRCULATION DATA** n = 0.737 K = 92.6

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. 844.0 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 3/4		2,989'	
Int. Csg.	7 5/8	6.875	10,237'	
Washout 1				
Washout 2				
Open Hole Size			10,245'	

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	170	
Shaker 2	170	
Shaker 3	170	
Centrifuge 1		

VOLUME ACCOUNTING (bbls)

Prev. Total on Location	2929.0
Transferred In(+)/Out(-)	
Oil Added (+)	
Barite Added (+)	
Other Product Usage (+)	
Water Added (+)	
Left on Cuttings (-)	
Est. Total on Location	2929.0
Est. Losses/Gains (-)/(+)	

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:

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

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

Afternoon Rig Activity:

Completed changing out the Annular Preventer Element. Continue to test BOPS. Will make up BHA and RIH to drill out the casing. Will blend the mud in the system with the 9.5 ppg mud in the hole and adjust to 9.8 ppg mud for drilling out. Added Bentone 990 to increase the 6/3 RPM. Added Opti-G to lower the HTHP fluid loss. Mixed a tank of LCM sweep mud.

6/9/2020 **Report 9 pm**

110 Old Market St.
St Martinville, LA 70582

TEL: (337) 394-1078

64.5° **10,585' TVD**

Operator	Contractor	County / Parish / Block	Engineer Start Date	24 hr ftg.	Drilled Depth
MAGNOLIA OIL & GAS	**PATTERSON**	**WASHINGTON**	**04/27/20**	**510 ft**	**10,821 ft**
Well Name and No.	Rig Name and No.	State	Spud Date	Current ROP	Activity
LEVI GOODRICH U2 - 3H	**248**	**TEXAS**	**04/27/20**	**163 ft/hr**	**Drilling Curve**
Report for	Report for	Field / OSC-G #	Fluid Type	Circulating Rate	Circulating Pressure
KEVIN BURT/ JIM HARRISON	**Tool Pusher**	**GIDDINGS**	**OBM**	**391 gpm**	**4,842 psi**

MUD PROPERTY SPECIFICATIONS

Weight	PV	YP	E.S.	CaCl2	GELS	HTHP
9.3-10.2	**8-20**	**5-12**	**>300**	**±250K**	**<10 <25**	**<10**

MUD PROPERTIES				
Time Sample Taken		3:00		11:00
Sample Location		suction		suction
Flowline Temperature °F		120 °F		140 °F
Depth (ft)		10,256'		10,821'
Mud Weight (ppg)		9.9		9.8
Funnel Vis (sec/qt)	@ 90 °F	50		45
600 rpm		28		33
300 rpm		18		21
200 rpm		14		15
100 rpm		10		12
6 rpm		6		7
3 rpm		4		6
Plastic Viscosity (cp)	@ 150 °F	10		12
Yield Point (lb/100 ft²)	T0 = 2	8		9
Gel Strength (lb/100 ft²)	10 sec / 10 min	6/10		7/10
Gel Strength (lb/100 ft2)	30 min	13		13
HTHP Filtrate (cm/30 min)	@ 250 °F	7.0		6.4
HTHP Cake Thickness (32nds)		2.0		2.0
Retort Solids Content		13%		12%
Corrected Solids (vol%)		11.5%		10.3%
Retort Oil Content		68%		67%
Retort Water Content		19%		21%
O/W Ratio		78:22		76:24
Whole Mud Chlorides (mg/L)		39,000		45,000
Water Phase Salinity (ppm)		243,496		251,507
Whole Mud Alkalinity, Pom		2.0		2.2
Excess Lime (lb/bbl)		2.6 ppb		2.9 ppb
Electrical Stability (volts)		500 v		431 v
Average Specific Gravity of Solids		3.23		3.25
Percent Low Gravity Solids		5.7%		5%
ppb Low Gravity Solids		47 ppb		41 ppb
Percent Barite		5.8%		5.3%
ppb Barite		83 ppb		75 ppb
Estimated Total LCM in System				
Sample Taken By		A. ROMAN		M.Meehan

MUD VOLUME (BBL)

In Pits	844 bbl
In Hole	434 bbl
Active	1278 bbl
Storage	1620 bbl
Tot. on Location	2898 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. = 9.9 PV=10 YP=8 **CIRCULATION DATA** n = 0.637 K = 172.4

Bit Depth = 10,821 ' Washout = Pump Efficiency = 95%

Drill String Disp.							
61.8 bbl	Volume to Bit	152.4 bbl	Strokes To Bit	1,997	Time To Bit	16 min
	Bottoms Up Vol.	281.7 bbl	BottomsUp Stks	3,691	BottomsUp Time	30 min
	TotalCirc.Vol.	1278.1 bbl	TotalCirc.Stks	16,749	Total Circ. Time	137 min

DRILLING ASSEMBLY DATA

Tubulars	OD (in.)	ID (in.)	Length	Top
Drill Pipe	4.500	3.826	8,026'	
Agitator	5.250	2.750	43'	8,026'
Drill Pipe	4.500	3.826	2,609'	8,069'
Direct. BHA	5.250	2.500	144'	10,677'

CASING & HOLE DATA

Casing	OD (in.)	ID (in.)	Depth	Top
Riser				
Surface	10 3/4		2,989'	
Int. Csg.	7 5/8	6.875	10,237'	
Open Hole Size	6.750		10,821'	

ANNULAR GEOMETRY & RHEOLOGY

annular section	depth	velocity ft/min	flow reg	ECD lb/gal
6.875x4.5	8,026'	354.7	turb	10.93
6.875x5.25	8,069'	486.4	turb	11.06
6.875x4.5	10,237'	354.7	turb	11.13
6.75x4.5	10,677'	378.6	turb	11.26
6.75x5.25	10,821'	532.4	turb	11.42

BIT DATA Manuf./Type Ulterra/U611S

Size	Depth In	Hours	Footage	ROP ft/hr	Motor/MWD	Calc. Circ. Pressure
6 3/4	10,245 ft	10.0	584 ft	58.4	3,300 psi	4,842 psi

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	2900.3
Transferred In(+)/Out(-)	
Oil Added (+)	
Barite Added (+)	
Other Product Usage (+)	
Water Added (+)	20.4
Left on Cuttings (-)	-22.6
Gas Buster Fill	
Discharged (-)	
Est. Total on Location	2898.1
Est. Losses/Gains (-)/(+)	0.0

BIT HYDRAULICS DATA

Bit H.S.I.	Bit ΔP	Nozzles (32nds)		
0.64	101 psi	16	16	16
Bit Impact Force: 214 lbs	Nozzle Velocity (ft/sec): 106	16	16	16

Afternoon Remarks/Recommendations:

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

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

Afternoon Rig Activity:

Sliding ahead and increasing the angle while continuing to build the curve.Pump a 10 bbl LCM sweep every 300 ft. Added Opti-G to lower the HTHP fluid loss. Added Bentone 38 and Bentone 990 to increase the Yield Point and 6/3 RPM readings. Added Calcium Chloride to increase the chloride content. Ran the centrifuge to lower the mud wt. to 9.8 ppg.

06/10/20 **Report #10**

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

OUTSOURCE FLUID SOLUTIONS LLC.

93.4° **10,523' TVD**

Operator	Contractor	County / Parish / Block	Engineer Start Date	24 hr ftg.	Drilled Depth
MAGNOLIA OIL & GAS	**PATTERSON**	**WASHINGTON**	**04/27/20**	**1,992 ft**	**12,303 ft**
Well Name and No.	Rig Name and No.	State	Spud Date	Current ROP	Activity
LEVI GOODRICH U2 - 3H	**248**	**TEXAS**	**04/27/20**	**91 ft/hr**	**Drilling Lateral**
Report for	Report for	Field / OCS-G #	Fluid Type	Circulating Rate	Circulating Pressure
KEVIN BURT/ JIM HARRISON	**Tool Pusher**	**GIDDINGS**	**OBM**	**346 gpm**	**3,509 psi**

MUD PROPERTY SPECIFICATIONS

Weight	PV	YP	E.S.	CaCl2	GELS	HTHP
9.3-10.2	**8-20**	**5-12**	**>300**	**±250K**	**<10 <25**	**<10**
				6/10/20		6/8/20
Time Sample Taken				3:00		11:00
Sample Location				suction		suction
Flowline Temperature °F				165 °F		140 °F
Depth (ft)				12,195'		10,821'
Mud Weight (ppg)				9.8		9.8
Funnel Vis (sec/qt)			@ 120 °F	54		45
600 rpm				39		33
300 rpm				25		21
200 rpm				18		15
100 rpm				12		12
6 rpm				7		7
3 rpm				6		6
Plastic Viscosity (cp)			@ 150 °F	14		12
Yield Point (lb/100 ft²)			T0 = 5	11		9
Gel Strength (lb/100 ft²)			10 sec/10 min	6/12		7/10
Gel Strength (lb/100 ft²)			30 min	15		13
HTHP Filtrate (cm/30 min)			@ 250 °F	6.0		6.4
HTHP Cake Thickness (32nds)				2.0		2.0
Retort Solids Content				13%		12%
Corrected Solids (vol%)				11.2%		10.3%
Retort Oil Content				67%		67%
Retort Water Content				20%		21%
O/W Ratio				77:23		76:24
Whole Mud Chlorides (mg/L)				44,000		45,000
Water Phase Salinity (ppm)				256,494		251,507
Whole Mud Alkalinity, Pom				2.5		2.2
Excess Lime (lb/bbl)				3.3 ppb		2.9 ppb
Electrical Stability (volts)				514 v		431 v
Average Specific Gravity of Solids				3.10		3.25
Percent Low Gravity Solids				6.4%		5%
ppb Low Gravity Solids				53 ppb		41 ppb
Percent Barite				4.8%		5.3%
ppb Barite				69 ppb		75 ppb
Estimated Total LCM in System			ppb			
Sample Taken By				A. ROMAN	0	M.Meehan

MUD VOLUME (BBL)

In Pits	700 bbl
In Hole	495 bbl
Active	1195 bbl
Storage	1560 bbl
Tot. on Location	2755 bbl

PUMP #1

Liner Size	5.25
Stroke	12
bbl/stk	0.0763
stk/min	54
gal/min	173

PUMP #2

Liner Size	5.25
Stroke	12
bbl/stk	0.0763
stk/min	54
gal/min	173

RISER BOOSTER

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

PHHP = 709 **CIRCULATION DATA** n = 0.642 K = 233.310

Bit Depth = 12,303 ' | Washout = 2% | Pump Efficiency = 95%

Drill String Disp.							
69.9 bbl	Volume to Bit	173.5 bbl	Strokes To Bit	2,273	Time To Bit	21 min
	Bottoms Up Vol.	321.8 bbl	BottomsUp Stks	4,217	BottomsUp Time	39 min
	TotalCirc.Vol.	1195.3 bbl	TotalCirc.Stks	15,664	Total Circ. Time	145 min

DRILLING ASSEMBLY DATA

Tubulars	OD (in.)	ID (in.)	Length	Top
Drill Pipe	4.500	3.826	9,508'	0'
Agitator	5.250	2.750	43'	9,508'
Drill Pipe	4.500	3.826	2,609'	9,551'
Direct. BHA	5.250	2.500	144'	12,159'

CASING & HOLE DATA

Casing	OD (in.)	ID (in.)	Depth	Top
Riser				
Surface	10 3/4		2,989'	0'
Int. Csg.	7 5/8	6.875	10,237'	0'
Open Hole Size		6.885	12,303'	

ANNULAR GEOMETRY & RHEOLOGY

annular section	meas. depth	velocity ft/min	flow reg	ECD lb/gal
6.875x4.5	9,508'	314.0	turb	10.68
6.875x5.25	9,551'	430.6	turb	10.76
6.875x4.5	10,237'	314.0	turb	10.84
6.885x4.5	12,159'	312.4	turb	11.02
6.885x5.25	12,303'	427.6	turb	11.13

BIT DATA Manuf./Type Ulterra/U611S

Size	Depth In	Hours	Footage	ROP ft/hr
6 3/4	10,245 ft	24.0	2,576 ft	107.3

SOLIDS CONTROL

Unit	Screens	Hours
Shaker 1	170	24.0
Shaker 2	170	24.0
Shaker 3	170	24.0
Centrifuge 1		8.0

VOLUME ACCOUNTING (bbls)

Prev. Total on Location	2900.3
Transferred In(+)/Out(-)	
Oil Added (+)	54.6
Barite Added (+)	0.0
Other Product Usage (+)	11.5
Water Added (+)	50.0
Left on Cuttings (-)	-91.7
Centrifuge Disch.	-24.0
Non-Recoverable Vol. (-)	-145.3
Est. Total on Location	2755.3
Est. Losses/Gains (-)/(+)	0.0

BIT HYDRAULICS DATA

Bit H.S.I.	Bit ΔP	Nozzles (32nds)		
0.44	78 psi	16	16	16
Bit Impact Force	Nozzle Velocity (ft/sec)	16	16	16
166 lbs	94			

Motor/MWD	Calc. Circ. Pressure
2,240 psi	3,722 psi

Remarks/Recommendations:

OBM RECEIVED -----2,929 bbls

OBM on Surface ------ 2,260 bbls (storage + Active)

OBM Daily Gain / Loss--(-169bbls) // Total G/L (-190bbls)

Kill mud on Hand: 372bbls // 15# // $65.00/bbl

Discounted OBM: 372bbl//12.5# --320bbls 9.8#--489 bbls //10.9# ------$15.00/bbl

Rig Activity:

Continue drilling ahead on lateral section. Curve landed @11,055'MD / 10,594'TVD. While drilling ahead pump LCM sweeps (1st Response / MagmaFiber / NewCarb M / Cyberseal 5sx ea) every 300'. @11,400'MD seepeage noted, monitor losses and Increase Sweeps to 10bbls every connection- Lower pump rate to 350gpm and reduce MW 9.7ppg with diesel and Centrifuge at this time. will continue down to 9.6ppg. Additions of LCM (first response / Cyberseal / NewCarb- 3sxs ea) to active system attempting to minimize losses down hole. Treatment with Lime for Alkalinity, CaCl2 for WPS. Opti G for Fluid loss, and bentone for Rheology.

Eng. 1:	Eng. 2:	WH 1:	WH 2:	Rig Phone:
ADOLFO ROMAN	Matt Meehan	MIDLAND	WH #2	
Phone: 956-821-9994	Phone: 985-351-7561	Phone: 432-686-7361	Phone: -	

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

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

	Daily Total	Cumulative Cost
	$9,442.14	**$49,774.21**
INCLUDING 3RD PARTY CHARGES	**$12,889.41**	**$64,024.37**

OUTSOURCE FLUID SOLUTIONS LLC.

MATERIAL CONSUMPTION

Date	Operator	Well Name and No.	Rig Name and No.	Report No.
06/10/20	MAGNOLIA OIL & GAS	LEVI GOODRICH U2 - 3H	248	Report #10

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						2	$325.66
SAPP (50)	50# sk	$44.50						40	$1,780.00
PHPA LIQUID (pail)	5 gal	$41.36	88		88			2	$82.72
DYNA DET	pail	$32.23						8	$257.84
EVO-LUBE	gal	$9.31	975		975				
GEL (100)	100# sk	$10.00	70		70				
BENTONE 38 (50)	50# sk	$163.94	16		9	7	$1,147.58	11	$1,803.34
CACL2 (50)	50# sk	$14.32	182		182			96	$1,374.72
LIME (50)	50# sk	$5.00	240		215	25	$125.00	95	$475.00
BENTONE 910 (50)	50# sk	$59.94	30		30			4	$239.76
BENTONE 990 (50)	50# sk	$83.59	31		20	11	$919.49	15	$1,253.85
OPTI G	50# sk	$30.59	140		100	40	$1,223.60	90	$2,753.10
OPTI MUL HP	gal	$10.75	615		450	165	$1,773.75	440	$4,730.00
OPTI WET	gal	$8.34	275		220	55	$458.70	285	$2,376.90
NEW PHALT	50# sk	$38.72	120		100	20	$774.40	40	$1,548.80
NEWCARB 200	50# sk	$5.25	91		91			35	$183.75
MAGMAFIBER F (25)	25# sk	$28.05	15		15			15	$420.75
NEWCARB 100	each	$5.37	50		24	26	$139.62	26	$139.62
OIL SORB (25)	25# sk	$4.75	30		30			20	$95.00
CYBERSEAL	each	$21.47	175		175			5	$107.35
NEW-WATE (SACK BARITE)	100# sk	$11.50	160		160				
BARITE BULK (100)	100# sk	$7.00	1300		1300			275	$1,925.00
DYNA FIBER MED.	each	$53.67	85		85				
FIBER PLUG	each	$30.37	30		30				
MAGMAFIBER R (30)	30# sk	$28.05	80		80				
OPTI DRILL (OBM)	bbl	$65.00	1360		1352	8	$520.00	131	$8,515.00
MAGNOLIA OBM	bbl		145			145		166	
DISCOUNTED OBM	bbl	$15.00	1403		1403				
ENGINEERING (24 HR)	each	$925.00				2	$1,850.00	16	$14,800.00
ENGINEERING (DIEM)	bbl	$30.00				2	$60.00	16	$480.00
ENGINEERING (MILES)	each	$1.00				450	$450.00	1889	$1,889.00
SCALE TICKET		$15.00						1	$15.00
TRUCKING (cwt)	each	$2.50						766	$1,914.05
TRUCKING (min)	each	$795.00							
PALLETS (ea)	each	$12.00						12	$144.00
SHRINK WRAP (ea)	each	$12.00						12	$144.00
		Daily Sub-Total $9,442.14			**Cumulative Total $49,774.21**			**$49,774.21**	

THIRD PARTY COST SHEET

Date	Operator	Well Name and No.	Rig Name and No.	Report No.
06/10/20	MAGNOLIA OIL & GAS	LEVI GOODRICH U2 - 3H	248	Report #10

DAILY USAGE & COST								CUMULATIVE	
Item	Unit	Unit Cost	Previous Inventory	Received	Closing Inventory	Daily Usage	Daily Cost	Cum Usage	Cum Cost
Diesel Transfer from 2H	gal	$0.91							
Diesel Transfer from Grand Canyon A - 1H	gal	$0.87						2000	$1,740.00
Diesel transfer from Grand Canyon A - 1H	gal	$0.96						7199	$6,911.04
Diesel 5/6/20	gal	$0.90						2159	$1,943.10
DIESEL TRANSFER FROM 2H	gal	$1.16	7872		5800	2072	$2,403.52	2072	$2,403.52
TURBO CHEM FIRST RESPONSE	each	$41.75	175	350	500	25	$1,043.75	30	$1,252.50
						Daily Sub-Total	$3,447.27		$14,250.16

Cumulative Total AES & 3rd Party $64,024.37

OUTSOURCE FLUID SOLUTIONS LLC.

FLUID VOLUME ACCOUNTING

Operator:	MAGNOLIA OIL & GAS
Rig Name:	248
Well Name:	LEVI GOODRICH U2 - 3H

		WEEK 1							WEEK 2							WEEK 3						
	Date	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	6/20/20	6/21/20	6/22/20	6/23/20	6/24/20	6/25/20	6/26/20	6/27/20
		Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat
	Bit Size	6 3/4	6 3/4	6 3/4	6 3/4																	
Grand Totals	Starting Depth	10,245	10,245	10,245	10,311	12,303																
	Ending Depth	10,245	10,245	10,311	12,303																	
2,058	Footage Drilled	-	-	66	1,992	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
91	New Hole Vol.	-	-	3	88	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Starting System Volume	470	2,440	2,929	2,908	2,755	2,755	2,755	2,755	2,755	2,755	2,755	2,755	2,755	2,755	2,755	2,755	2,755	2,755	2,755	2,755	2,755
20	Chemical Additions	-	-	9	12																	
66	Base Fluid Added	-	-	12	55																	
-	Barite Increase	-	-	-	-																	
2,459	Weighted Mud Added	1,970	489	-	-																	
-	Slurry Added	-	-	-	-																	
50	Water Added	-	-	-	50																	
-	Added for Washout	-	-	-	-																	
2,596	Total Additions	1,970	489	20	116	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	Surface Losses	-	-	8	-																	
150	Formation Loss	-	-	-	150																	
95	Mud Loss to Cuttings	-	-	3	92																	
30	Unrecoverable Volume	-	-	30	-																	
28	Centrifuge Losses	-	-	-	28																	
311	Total Losses	-	-	41	270	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	Mud Transferred Out	-	-	-																		
2,755	Ending System Volume	2,440	2,929	2,908	2,755	2,755	2,755	2,755	2,755	2,755	2,755	2,755	2,755	2,755	2,755	2,755	2,755	2,755	2,755	2,755	2,755	2,755
-	Mud Recovered																					

2,929

Comments:		Comments:	Comments:
6/7/20	TRANSFER FROM 2H.	6/14/20	6/21/20
6/8/20	Testing and repair to BOP's. Received 489bbls 10.9# Discounted mud.	6/15/20	6/22/20
6/9/20	TIH, FIT 13emw / 1600psi. Drilling ahead on Curve section.	6/16/20	6/23/20
6/10/20	Drilling on lateral section. Well taking mud after 11400'. Lower MW to 9.6ppg. Adding LCM to active system First response/Cyberseal/newcarb 3 sxs ea.	6/17/20	6/24/20
6/11/20		6/18/20	6/25/20
6/12/20		6/19/20	6/26/20
6/13/20		6/20/20	6/27/20

06/11/20 **Report #11**

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

OUTSOURCE FLUID SOLUTIONS LLC.

92.3° **10,454' TVD**

Operator	Contractor	County / Parish / Block	Engineer Start Date	24 hr ftg.	Drilled Depth
MAGNOLIA OIL & GAS	**PATTERSON**	**WASHINGTON**	**04/27/20**	**1,770 ft**	**14,073 ft**
Well Name and No.	Rig Name and No.	State	Spud Date	Current ROP	Activity
LEVI GOODRICH U2 - 3H	**248**	**TEXAS**	**04/27/20**	**163 ft/hr**	**Drilling Lateral**
Report for	Report for	Field / OCS-G #	Fluid Type	Circulating Rate	Circulating Pressure
KEVIN BURT/ JIM HARRISON	**Tool Pusher**	**GIDDINGS**	**OBM**	**378 gpm**	**4,676 psi**

MUD PROPERTY SPECIFICATIONS							MUD VOLUME (BBL)		PUMP #1		PUMP #2		RISER BOOSTER	
Weight	PV	YP	E.S.	CaCl2	GELS	HTHP	In Pits	750 bbl	Liner Size	5.25	Liner Size	5.25	Liner Size	
9.3-10.2	**8-20**	**5-12**	**>300**	**±250K**	**<10 <25**	**<10**	In Hole	567 bbl	Stroke	12	Stroke	12	Stroke	
				6/11/20		6/10/20	Active	1317 bbl	bbl/stk	0.0763	bbl/stk	0.0763	bbl/stk	0.0000
Time Sample Taken				2:00		11:00	Storage	1230 bbl	stk/min	59	stk/min	59	stk/min	
Sample Location				suction		suction	Tot. on Location	2547 bbl	gal/min	189	gal/min	189	gal/min	0
Flowline Temperature °F				156 °F		168 °F	PHHP = 1032		**CIRCULATION DATA**				n = 0.585	K = 265.629
Depth (ft)				14,003'		12,897'	Bit Depth = 14,073 '		Washout = 2%				Pump Efficiency = 95%	
Mud Weight (ppg)				9.2		9.6	Drill String Disp.	Volume to Bit 198.7 bbl	Strokes To Bit	2,603			Time To Bit	22 min
Funnel Vis (sec/qt)		@ 119 °F		41		47		Bottoms Up Vol. 368.5 bbl	BottomsUp Stks	4,829			BottomsUp Time	41 min
600 rpm				30		32	79.5 bbl	TotalCirc.Vol. 1317.2 bbl	TotalCirc.Stks	17,261			Total Circ. Time	146 min
300 rpm				20		21	**DRILLING ASSEMBLY DATA**				**SOLIDS CONTROL**			
200 rpm				16		18	Tubulars	OD (in.)	ID (in.)	Length	Top	Unit	Screens	Hours
100 rpm				11		12	Drill Pipe	4.500	3.826	11,278'	0'	Shaker 1	170	24.0
6 rpm				6		6	Agitator	5.250	2.750	43'	11,278'	Shaker 2	170	24.0
3 rpm				5		5	Drill Pipe	4.500	3.826	2,609'	11,321'	Shaker 3	170	24.0
Plastic Viscosity (cp)		@ 150 °F		10		11	Direct. BHA	5.250	2.500	144'	13,929'	Centrifuge 1		6.0
Yield Point (lb/100 ft²)		T0 = 4		10		10	**CASING & HOLE DATA**							
Gel Strength (lb/100 ft²)		10 sec/10 min		6/11		6/10	Casing	OD (in.)	ID (in.)	Depth	Top			
Gel Strength (lb/100 ft^2)		30 min		14		13	Riser					**VOLUME ACCOUNTING (bbls)**		
HTHP Filtrate (cm/30 min)		@ 250 °F		6.0		6.0	Surface	10 3/4		2,989'	0'	Prev. Total on Location		2755.3
HTHP Cake Thickness (32nds)				2.0		2.0	Int. Csg.	7 5/8	6.875	10,237'	0'	Transferred In(+)/Out(-)		
Retort Solids Content				10.5%		12%						Oil Added (+)		204.6
Corrected Solids (vol%)				8.8%		10.3%						Barite Added (+)		0.0
Retort Oil Content				69.2%		68%	Open Hole Size	6.885	14,073'			Other Product Usage (+)		11.0
Retort Water Content				20.3%		20%	**ANNULAR GEOMETRY & RHEOLOGY**					Water Added (+)		102.0
O/W Ratio				77:23		77:23	annular section	meas. depth	velocity ft/min	flow reg	ECD lb/gal	Left on Cuttings (-)		-81.5
Whole Mud Chlorides (mg/L)				43,000		43,000						Centrifuge Disch.		-66.0
Water Phase Salinity (ppm)				249,337		252,134						Lost Returns (-)		-378.2
Whole Mud Alkalinity, Pom				1.5		2.4	6.875x4.5	10,237'	343.1	turb	10.11	Est. Total on Location		2547.2
Excess Lime (lb/bbl)				2 ppb		3.1 ppb	6.885x4.5	11,278'	341.4	turb	10.30	Est. Losses/Gains (-)/(+)		0.0
Electrical Stability (volts)				517 v		522 v	6.885x5.25	11,321'	467.2	turb	10.45	**BIT HYDRAULICS DATA**		
Average Specific Gravity of Solids				2.87		3.04	6.885x4.5	13,929'	341.4	turb	10.80	Bit H.S.I.	Bit ΔP	Nozzles (32nds)
Percent Low Gravity Solids				6.2%		6.3%	6.885x5.25	14,073'	467.2	turb	10.97	0.54	87 psi	16 16 16
ppb Low Gravity Solids				51 ppb		52 ppb						Bit Impact Force	Nozzle Velocity (ft/sec)	16 16 16
Percent Barite				2.6%		4.1%								
ppb Barite				37 ppb		58 ppb	**BIT DATA**		Manuf./Type		Ulterra/U611S	186 lbs	103	
Estimated Total LCM in System		ppb					Size	Depth In	Hours	Footage	ROP ft/hr	Motor/MWD	Calc. Circ. Pressure	
Sample Taken By				R. Bowlin	0	M.Meehan	6 3/4	10,245 ft	45.0	3,828 ft	85.1	2,700 psi	4,411 psi	

Remarks/Recommendations:

OBM RECEIVED -----2,929 bbls

OBM on Surface ------ 1980 bbls (storage + Active)

OBM Daily Gain / Loss--(-444bbls) // Total G/L (-634bbls)

Kill mud on Hand: 372bbls // 15# // $65.00/bbl

Discounted OBM: 357bbl//12.5# --55bbls 9.8#--446 bbls //10.9# ----$15.00/bbl

Rig Activity:

Continued drilling ahead on the lateral section F-12,303'MD T-14,073'MD at the time of the morning report. Observed seepage and partial to moderate losses throughout the past 24 hours. The MW was cut back from 9.6ppg to 9.5ppg, losses subsided. Again observed 35-bbls per hour lost down hole from 13,565'MD to 13,732'MD. Decreased active MW to 9.4ppg, LCM sweeps continue to be pumped in 10-bbls increments every stand, additions of background LCM being added to the active hourly. Active MW currently at 9.2ppg losses have subsided. Chemical treatments will be made as necessary to maintain the drilling fluid within the recommended parameters.

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

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

$10,583.55 **$60,357.76**

INCLUDING 3RD PARTY CHARGES **$21,385.79** **$85,410.16**

6/12/2020 **Report 12 pm**

110 Old Market St.
St Martinville, LA 70582

TEL: (337) 394-1078

92.4° **10,492' TVD**

Operator	Contractor	County / Parish / Block	Engineer Start Date	24 hr ftg.	Drilled Depth
MAGNOLIA OIL & GAS	**PATTERSON**	**WASHINGTON**	**04/27/20**	**251 ft**	**15,610 ft**
Well Name and No.	Rig Name and No.	State	Spud Date	Current ROP	Activity
LEVI GOODRICH U2 - 3H	**248**	**TEXAS**	**04/27/20**		**Wiper Trip**
Report for	Report for	Field / OSC-G #	Fluid Type	Circulating Rate	Circulating Pressure
KEVIN BURT/ JIM HARRISON	**Tool Pusher**	**GIDDINGS**	**OBM**	**295 gpm**	**1,854 psi**

MUD PROPERTY SPECIFICATIONS

Weight	PV	YP	E.S.	CaCl2	GELS	HTHP
9-10.2	**8-20**	**5-12**	**>300**	**±250K**	**<10 <25**	**<10**

MUD PROPERTIES

Time Sample Taken	2:30	21:00	11:00
Sample Location	Suction	shaker	suction
Flowline Temperature °F	134 °F	156 °F	150 °F
Depth (ft)	15,359'	15,098'	15,610'
Mud Weight (ppg)	9.0	9.1	9.0
Funnel Vis (sec/qt) @ 106 °F	41	42	42
600 rpm	30	37	31
300 rpm	19	24	20
200 rpm	13	20	14
100 rpm	9	13	11
6 rpm	5	6	6
3 rpm	4	5	5
Plastic Viscosity (cp) @ 150 °F	11	13	11
Yield Point (lb/100 ft²) T0 = 3	8	11	9
Gel Strength (lb/100 ft²) 10 sec / 10 min	4/9	6/12	6/10
Gel Strength (lb/100 ft2) 30 min	11	15	12
HTHP Filtrate (cm/30 min) @ 250 °F	6.0	6.4	6.0
HTHP Cake Thickness (32nds)	2.0	2.0	2.0
Retort Solids Content	10%	11%	10%
Corrected Solids (vol%)	8.3%	9.4%	8.4%
Retort Oil Content	69.5%	68.5%	70%
Retort Water Content	20.5%	20.5%	20%
O/W Ratio	77:23	77:23	78:22
Whole Mud Chlorides (mg/L)	42,000	41,000	42,000
Water Phase Salinity (ppm)	243,150	238,743	247,723
Whole Mud Alkalinity, Pom	1.5	1.6	1.7
Excess Lime (lb/bbl)	2 ppb	2.1 ppb	2.2 ppb
Electrical Stability (volts)	408 v	390 v	435 v
Average Specific Gravity of Solids	2.70	2.63	2.70
Percent Low Gravity Solids	6.7%	7.9%	6.7%
ppb Low Gravity Solids	55 ppb	65 ppb	55 ppb
Percent Barite	1.7%	1.5%	1.7%
ppb Barite	24 ppb	21 ppb	24 ppb
Estimated Total LCM in System			
Sample Taken By	R. Bowlin	R. Bowlin	M.Meehan

MUD VOLUME (BBL)

In Pits	640 bbl
In Hole	638 bbl
Active	1166 bbl
Storage	1092 bbl
Tot. on Location	2370 bbl

PUMP #1

Liner Size	5.25
Stroke	12
bbl/stk	0.0763
stk/min	46
gal/min	147

PUMP #2

Liner Size	5.25
Stroke	12
bbl/stk	0.0763
stk/min	46
gal/min	147

RISER BOOSTER

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

Mud Wt. = 9.0 PV=11 YP=8 **CIRCULATION DATA** n = 0.659 K = 159.1

Bit Depth = 13,117 ' Washout = 1% Pump Efficiency = 95%

Drill String Disp.							
74.3 bbl	Volume to Bit	185.1 bbl	Strokes To Bit	2,425	Time To Bit	26 min
	Bottoms Up Vol.	340.7 bbl	BottomsUp Stks	4,465	BottomsUp Time	49 min
	TotalCirc.Vol.	1165.8 bbl	TotalCirc.Stks	15,277	Total Circ. Time	166 min

DRILLING ASSEMBLY DATA

Tubulars	OD (in.)	ID (in.)	Length	Top
Drill Pipe	4.500	3.826	10,322'	
Agitator	5.250	2.750	43'	10,322'
Drill Pipe	4.500	3.826	2,609'	10,365'
Direct. BHA	5.250	2.500	144'	12,973'

CASING & HOLE DATA

Casing	OD (in.)	ID (in.)	Depth	Top
Riser				
Surface	10 3/4		2,989'	
Int. Csg.	7 5/8	6.875	10,237'	
Open Hole Size	6.818		15,610'	

ANNULAR GEOMETRY & RHEOLOGY

annular section	depth	velocity ft/min	flow reg	ECD lb/gal
6.875x4.5	10,237'	267.5	turb	9.50
6.818x4.5	10,322'	275.5	turb	9.50
6.818x5.25	10,365'	381.9	turb	9.51
6.818x4.5	12,973'	275.5	turb	9.63
6.818x5.25	13,117'	381.9	turb	9.65

BIT DATA Manuf./Type Ulterra/U611S

Size	Depth In	Hours	Footage	ROP ft/hr
6 3/4	10,245 ft	71.0	5,365 ft	75.6

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	2602.8
Transferred In(+)/Out(-)	
Oil Added (+)	69.7
Barite Added (+)	
Other Product Usage (+)	
Water Added (+)	20.2
Left on Cuttings (-)	-11.3
Cent/ Evap	
Lost Returns (-)	-311.0
Est. Total on Location	2370.4
Est. Losses/Gains (-)/(+)	0.0

BIT HYDRAULICS DATA

Bit H.S.I.	Bit ΔP	Nozzles (32nds)		
0.25	52 psi	16	16	16
Bit Impact Force	Nozzle Velocity (ft/sec)	16	16	16
110 lbs	80			

Motor/MWD	Calc. Circ. Pressure
800 psi	1,854 psi

Afternoon Remarks/Recommendations:

Pump a 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 in the lateral section. At 15610 ft. making a 30 stand wiper trip while backreaming out of the hole. Pumping 10 bbl LCM sweep every connection. Reduced the mud wt. to 9.0 ppg with additions of diesel and running the centrifuge on the active system. Monitoring moderate losses. Making additions of LCM (first response / Cyberseal / NewCarb- 3sxs ea) to active system attempting to minimize losses down hole. Treatment with Lime for Alkalinity, CaCl2 for WPS. Newphalt for Fluid loss, and bentone for Rheology.

6/13/2020 **Report 13 pm**

110 Old Market St.
St Martinville, LA 70582

TEL: (337) 394-1078

95.0° **10,535' TVD**

Operator	Contractor	County / Parish / Block	Engineer Start Date	24 hr ftg.	Drilled Depth
MAGNOLIA OIL & GAS	**PATTERSON**	**WASHINGTON**	**04/27/20**	**95 ft**	**16,365 ft**
Well Name and No.	Rig Name and No.	State	Spud Date	Current ROP	Activity
LEVI GOODRICH U2 - 3H	**248**	**TEXAS**	**04/27/20**		**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
9-10.2	**8-20**	**5-12**	**>300**	**±250K**	**<10 <25**	**<10**

MUD PROPERTIES

Time Sample Taken	2:30		11:00
Sample Location	suction		suction
Flowline Temperature °F	134 °F		
Depth (ft)	16,272'		16,365'
Mud Weight (ppg)	9.0		9.0
Funnel Vis (sec/qt) @ 111 °F	43		45
600 rpm	29		30
300 rpm	19		19
200 rpm	15		15
100 rpm	14		12
6 rpm	7		6
3 rpm	6		5
Plastic Viscosity (cp) @ 150 °F	10		11
Yield Point (lb/100 ft²) T0 = 5	9		8
Gel Strength (lb/100 ft²) 10 sec / 10 min	7/12		7/11
Gel Strength (lb/100 ft2) 30 min	15		14
HTHP Filtrate (cm/30 min) @ 250 °F	6.2		6.2
HTHP Cake Thickness (32nds)	2.0		2.0
Retort Solids Content	9.5%		9.5%
Corrected Solids (vol%)	7.8%		7.8%
Retort Oil Content	69%		69.5%
Retort Water Content	21.5%		21%
O/W Ratio	76:24		77:23
Whole Mud Chlorides (mg/L)	44,000		44,000
Water Phase Salinity (ppm)	242,946		247,300
Whole Mud Alkalinity, Pom	1.7		1.6
Excess Lime (lb/bbl)	2.2 ppb		2.1 ppb
Electrical Stability (volts)	402 v		422 v
Average Specific Gravity of Solids	2.78		2.79
Percent Low Gravity Solids	5.8%		5.8%
ppb Low Gravity Solids	48 ppb		48 ppb
Percent Barite	1.9%		2%
ppb Barite	28 ppb		28 ppb
Estimated Total LCM in System			
Sample Taken By	R. Bowlin		M.Meehan

MUD VOLUME (BBL)

In Pits	725 bbl
In Hole	678 bbl
Active	1207 bbl
Storage	1600 bbl
Tot. on Location	3003 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. = 9.0 PV=10 YP=9 **CIRCULATION DATA** n = 0.610 K = 215.8

Bit Depth = 12,025 ' | Washout = 1% | Pump Efficiency = 95%

Drill String Disp.	Volume to Bit	Strokes To Bit	Time To Bit
68.3 bbl	169.5 bbl		
	Bottoms Up Vol. 312.9 bbl	BottomsUp Stks	BottomsUp Time
	TotalCirc.Vol. 1207.4 bbl	TotalCirc.Stks	Total Circ. Time

DRILLING ASSEMBLY DATA

Tubulars	OD (in.)	ID (in.)	Length	Top
Drill Pipe	4.500	3.826	9,230'	
Agitator	5.250	2.750	43'	9,230'
Drill Pipe	4.500	3.826	2,609'	9,273'
Direct. BHA	5.250	2.500	144'	11,881'

CASING & HOLE DATA

Casing	OD (in.)	ID (in.)	Depth	Top
Riser				
Surface	10 3/4		2,989'	
Int. Csg.	7 5/8	6.875	10,237'	
Open Hole Size	6.818		16,365'	

ANNULAR GEOMETRY & RHEOLOGY

annular section	depth	velocity ft/min	flow reg	ECD lb/gal
6.875x4.5	9,230'		lam	9.00
6.875x5.25	9,273'		lam	9.00
6.875x4.5	10,237'		lam	9.00
6.818x4.5	11,881'		lam	9.00
6.818x5.25	12,025'		lam	9.00

BIT DATA Manuf./Type Ulterra/U611S

Size	Depth In	Hours	Footage	ROP ft/hr
6 3/4	10,245 ft	85.0	6,120 ft	72.0

SOLIDS CONTROL

Unit	Screens	Hours
Shaker 1	170	6.0
Shaker 2	170	6.0
Shaker 3	170	6.0
Centrifuge 1		1.0

VOLUME ACCOUNTING (bbls)

Prev. Total on Location	3082.1
Transferred In(+)/Out(-)	
Oil Added (+)	29.7
Barite Added (+)	
Other Product Usage (+)	
Water Added (+)	
Left on Cuttings (-)	-4.3
Cent/ Evap	-10.4
Lost Returns (-)	-93.7
Est. Total on Location	3003.4
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
	230 psi

Afternoon Remarks/Recommendations:

Pump a 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 in the lateral section to 16365 ft. Pumped a 20 bbl LCM sweep and circulated B/U. POOH to 14500 ft. Pumped a slug. Stripping out of the hole while keeping 11.0 ppg mud on the backside to control pressure. Losses of 10 bbl/hr continue while circulating and tripping out of the hole.

6/13/2020 **Report 13 pm**

110 Old Market St.
St Martinville, LA 70582

TEL: (337) 394-1078

95.0° **10,535' TVD**

Operator	Contractor	County / Parish / Block	Engineer Start Date	24 hr ftg.	Drilled Depth
MAGNOLIA OIL & GAS	**PATTERSON**	**WASHINGTON**	**04/27/20**	**95 ft**	**16,365 ft**
Well Name and No.	Rig Name and No.	State	Spud Date	Current ROP	Activity
LEVI GOODRICH U2 - 3H	**248**	**TEXAS**	**04/27/20**		**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
9-10.2	**8-20**	**5-12**	**>300**	**±250K**	**<10 <25**	**<10**

MUD PROPERTIES

Time Sample Taken	2:30		11:00
Sample Location	suction		suction
Flowline Temperature °F	134 °F		
Depth (ft)	16,272'		16,365'
Mud Weight (ppg)	9.0		9.0
Funnel Vis (sec/qt) @ 111 °F	43		45
600 rpm	29		30
300 rpm	19		19
200 rpm	15		15
100 rpm	14		12
6 rpm	7		6
3 rpm	6		5
Plastic Viscosity (cp) @ 150 °F	10		11
Yield Point (lb/100 ft²) T0 = 5	9		8
Gel Strength (lb/100 ft²) 10 sec / 10 min	7/12		7/11
Gel Strength (lb/100 ft2) 30 min	15		14
HTHP Filtrate (cm/30 min) @ 250 °F	6.2		6.2
HTHP Cake Thickness (32nds)	2.0		2.0
Retort Solids Content	9.5%		9.5%
Corrected Solids (vol%)	7.8%		7.8%
Retort Oil Content	69%		69.5%
Retort Water Content	21.5%		21%
O/W Ratio	76:24		77:23
Whole Mud Chlorides (mg/L)	44,000		44,000
Water Phase Salinity (ppm)	242,946		247,300
Whole Mud Alkalinity, Pom	1.7		1.6
Excess Lime (lb/bbl)	2.2 ppb		2.1 ppb
Electrical Stability (volts)	402 v		422 v
Average Specific Gravity of Solids	2.78		2.79
Percent Low Gravity Solids	5.8%		5.8%
ppb Low Gravity Solids	48 ppb		48 ppb
Percent Barite	1.9%		2%
ppb Barite	28 ppb		28 ppb
Estimated Total LCM in System			
Sample Taken By	R. Bowlin		M.Meehan

MUD VOLUME (BBL)

In Pits	725 bbl
In Hole	678 bbl
Active	1207 bbl
Storage	1600 bbl
Tot. on Location	3003 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. = 9.0 PV=10 YP=9 **CIRCULATION DATA** n = 0.610 K = 215.8

Bit Depth = 12,025 ' | Washout = 1% | Pump Efficiency = 95%

Drill String Disp.	Volume to Bit	Strokes To Bit	Time To Bit
68.3 bbl	169.5 bbl		
	Bottoms Up Vol. 312.9 bbl	BottomsUp Stks	BottomsUp Time
	TotalCirc.Vol. 1207.4 bbl	TotalCirc.Stks	Total Circ. Time

DRILLING ASSEMBLY DATA

Tubulars	OD (in.)	ID (in.)	Length	Top
Drill Pipe	4.500	3.826	9,230'	
Agitator	5.250	2.750	43'	9,230'
Drill Pipe	4.500	3.826	2,609'	9,273'
Direct. BHA	5.250	2.500	144'	11,881'

CASING & HOLE DATA

Casing	OD (in.)	ID (in.)	Depth	Top
Riser				
Surface	10 3/4		2,989'	
Int. Csg.	7 5/8	6.875	10,237'	
Open Hole Size	6.818		16,365'	

ANNULAR GEOMETRY & RHEOLOGY

annular section	depth	velocity ft/min	flow reg	ECD lb/gal
6.875x4.5	9,230'		lam	9.00
6.875x5.25	9,273'		lam	9.00
6.875x4.5	10,237'		lam	9.00
6.818x4.5	11,881'		lam	9.00
6.818x5.25	12,025'		lam	9.00

BIT DATA Manuf./Type Ulterra/U611S

Size	Depth In	Hours	Footage	ROP ft/hr
6 3/4	10,245 ft	85.0	6,120 ft	72.0

SOLIDS CONTROL

Unit	Screens	Hours
Shaker 1	170	6.0
Shaker 2	170	6.0
Shaker 3	170	6.0
Centrifuge 1		1.0

VOLUME ACCOUNTING (bbls)

Prev. Total on Location	3082.1
Transferred In(+)/Out(-)	
Oil Added (+)	29.7
Barite Added (+)	
Other Product Usage (+)	
Water Added (+)	
Left on Cuttings (-)	-4.3
Cent/ Evap	-10.4
Lost Returns (-)	-93.7
Est. Total on Location	3003.4
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
	230 psi

Afternoon Remarks/Recommendations:

Pump a 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 in the lateral section to 16365 ft. Pumped a 20 bbl LCM sweep and circulated B/U. POOH to 14500 ft. Pumped a slug. Stripping out of the hole while keeping 11.0 ppg mud on the backside to control pressure. Losses of 10 bbl/hr continue while circulating and tripping out of the hole.

6/14/2020 **Report 14 pm**

110 Old Market St.
St Martinville, LA 70582

TEL: (337) 394-1078

0.8° **7,986' TVD**

Operator	Contractor	County / Parish / Block	Engineer Start Date	24 hr ftg.	Drilled Depth
MAGNOLIA OIL & GAS	**PATTERSON**	**WASHINGTON**	**04/27/20**		**16,365 ft**
Well Name and No.	Rig Name and No.	State	Spud Date	Current ROP	Activity
LEVI GOODRICH U2 - 3H	**248**	**TEXAS**	**04/27/20**		**RIH**
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
9-10.2	**8-20**	**5-12**	**>300**	**±250K**	**<10 <25**	**<10**

MUD PROPERTIES

Time Sample Taken	1:30		11:00
Sample Location	suction		suction
Flowline Temperature °F			
Depth (ft)	16,365'		16,365'
Mud Weight (ppg)	9.1		9.0
Funnel Vis (sec/qt) @ 98 °F	45		42
600 rpm	31		29
300 rpm	20		18
200 rpm	16		15
100 rpm	13		12
6 rpm	6		6
3 rpm	5		5
Plastic Viscosity (cp) @ 150 °F	11		11
Yield Point (lb/100 ft²) T0 = 4	9		7
Gel Strength (lb/100 ft²) 10 sec / 10 min	6/11		6/10
Gel Strength (lb/100 ft2) 30 min	14		13
HTHP Filtrate (cm/30 min) @ 250 °F	6.2		6.2
HTHP Cake Thickness (32nds)	2.0		2.0
Retort Solids Content	9.5%		9%
Corrected Solids (vol%)	7.8%		7.3%
Retort Oil Content	69.5%		69.5%
Retort Water Content	21%		21.5%
O/W Ratio	77:23		76:24
Whole Mud Chlorides (mg/L)	44,000		45,000
Water Phase Salinity (ppm)	247,300		247,103
Whole Mud Alkalinity, Pom	1.5		1.5
Excess Lime (lb/bbl)	2 ppb		2 ppb
Electrical Stability (volts)	415 v		402 v
Average Specific Gravity of Solids	2.95		2.91
Percent Low Gravity Solids	5.1%		5%
ppb Low Gravity Solids	42 ppb		41 ppb
Percent Barite	2.7%		2.3%
ppb Barite	38 ppb		33 ppb
Estimated Total LCM in System			
Sample Taken By	R. Bowlin		M.Meehan

MUD VOLUME (BBL)

In Pits	784 bbl
In Hole	700 bbl
Active	1105 bbl
Storage	1475 bbl
Tot. on Location	2959 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. = 9.1 PV=11 YP=9 **CIRCULATION DATA** n = 0.632 K = 197.8

Bit Depth = 8,000 ' | Washout = 1% | Pump Efficiency = 95%

Drill String Disp.	Volume to Bit	Strokes To Bit	Time To Bit
46.4 bbl	112.3 bbl		
	Bottoms Up Vol. 208.6 bbl	BottomsUp Stks	BottomsUp Time
	TotalCirc.Vol. 1104.9 bbl	TotalCirc.Stks	Total Circ. Time

DRILLING ASSEMBLY DATA

Tubulars	OD (in.)	ID (in.)	Length	Top
Drill Pipe	4.500	3.826	5,205'	
Agitator	5.250	2.750	43'	5,205'
Drill Pipe	4.500	3.826	2,609'	5,248'
Direct. BHA	5.250	2.500	144'	7,856'

CASING & HOLE DATA

Casing	OD (in.)	ID (in.)	Depth	Top
Riser				
Surface	10 3/4		2,989'	
Int. Csg.	7 5/8	6.875	10,237'	
Open Hole Size	6.818		16,365'	

ANNULAR GEOMETRY & RHEOLOGY

annular section	depth	velocity ft/min	flow reg	ECD lb/gal
6.875x4.5	5,205'		lam	9.10
6.875x5.25	5,248'		lam	9.10
6.875x4.5	7,856'		lam	9.10
6.875x5.25	8,000'		lam	9.10

BIT DATA Manuf./Type Ulterra/U611S

Size	Depth In	Hours	Footage	ROP ft/hr	Motor/MWD	Calc. Circ. Pressure
6 3/4	16,365 ft					153 psi

SOLIDS CONTROL

Unit	Screens	Hours
Shaker 1	170	6.0
Shaker 2	170	6.0
Shaker 3	170	6.0
Centrifuge 1		2.0

VOLUME ACCOUNTING (bbls)

Prev. Total on Location	3111.7
Transferred In(+)/Out(-)	
Oil Added (+)	64.0
Barite Added (+)	
Other Product Usage (+)	
Water Added (+)	10.0
Left on Cuttings (-)	
Cent/ Evap	-10.0
Lost Returns (-)	-216.4
Est. Total on Location	2959.3
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:

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

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

Afternoon Rig Activity:

POOH to 8000 ft. Circulate and adjust the mud wt. to 9.0 ppg with diesel additions and running the centrifuge. Receiving 600 bbl of 9.0 ppg mud from the Madisonville warehouse. Adding Bentone 38 and Bentone 990 to increase the Yield Point and 6/3 RPM readings. Adding Optimul and Lime to increase the electrical stability. Increasing the chloride concentration with CaCL2.

06/15/20 **Report #15**

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

OUTSOURCE FLUID SOLUTIONS LLC.

94.6° **10,376' TVD**

Operator	Contractor	County / Parish / Block	Engineer Start Date	24 hr ftg.	Drilled Depth
MAGNOLIA OIL & GAS	**PATTERSON**	**WASHINGTON**	**04/27/20**	**255 ft**	**16,620 ft**
Well Name and No.	Rig Name and No.	State	Spud Date	Current ROP	Activity
LEVI GOODRICH U2 - 3H	**248**	**TEXAS**	**04/27/20**	**0 ft/hr**	**TOOH**
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	740 bbl	Liner Size	5.25	Liner Size	5.25	Liner Size	
9-10.2	**8-20**	**5-12**	**>300**	**±250K**	**<10 <25**	**<10**	In Hole	673 bbl	Stroke	12	Stroke	12	Stroke	
				6/15/20		6/14/20	Active	1349 bbl	bbl/stk	0.0763	bbl/stk	0.0763	bbl/stk	0.0000
Time Sample Taken				2:30		11:00	Storage	1367 bbl	stk/min		stk/min		stk/min	
Sample Location				suction		suction	Tot. on Location	2780 bbl	gal/min	0	gal/min	0	gal/min	0
Flowline Temperature °F							PHHP = 0		**CIRCULATION DATA**				n = 0.670	K = 172.089
Depth (ft)				16,620'		16,365'	Bit Depth = 15,215 '		Washout = 1%				Pump Efficiency = 95%	
Mud Weight (ppg)				9.1		9.0	Drill String Disp.	Volume to Bit 214.9 bbl	Strokes To Bit				Time To Bit	
Funnel Vis (sec/qt)		@ 100 °F		43		42		Bottoms Up Vol. 394.2 bbl	BottomsUp Stks				BottomsUp Time	
600 rpm				35		29	85.7 bbl	TotalCirc.Vol. 1349.1 bbl	TotalCirc.Stks				Total Circ. Time	
300 rpm				22		18	**DRILLING ASSEMBLY DATA**						**SOLIDS CONTROL**	
200 rpm				15		15	Tubulars	OD (in.)	ID (in.)	Length	Top		Unit	Screens	Hours
100 rpm				13		12	Drill Pipe	4.500	3.826	12,420'	0'		Shaker 1	170	24.0
6 rpm				6		6	Agitator	5.250	2.750	43'	12,420'		Shaker 2	170	24.0
3 rpm				5		5	Drill Pipe	4.500	3.826	2,609'	12,463'		Shaker 3	170	24.0
Plastic Viscosity (cp)		@ 150 °F		13		11	Direct. BHA	5.250	2.500	144'	15,071'		Centrifuge 1		4.0
Yield Point (lb/100 ft²)		T0 = 4		9		7	**CASING & HOLE DATA**								
Gel Strength (lb/100 ft²)		10 sec/10 min		6/12		6/10	Casing	OD (in.)	ID (in.)	Depth	Top				
Gel Strength (lb/100 ft^2)		30 min		13		13	Riser						**VOLUME ACCOUNTING (bbls)**		
HTHP Filtrate (cm/30 min)		@ 250 °F		6.0		6.2	Surface	10 3/4		2,989'	0'		Prev. Total on Location		3111.7
HTHP Cake Thickness (32nds)				2.0		2.0	Int. Csg.	7 5/8	6.875	10,237'	0'		Transferred In(+)/Out(-)		565.0
Retort Solids Content				9.5%		9%							Oil Added (+)		156.1
Corrected Solids (vol%)				7.8%		7.3%							Barite Added (+)		0.0
Retort Oil Content				70.5%		69.5%	Open Hole Size		6.818	16,620'			Other Product Usage (+)		6.9
Retort Water Content				20%		21.5%	**ANNULAR GEOMETRY & RHEOLOGY**						Water Added (+)		42.0
O/W Ratio				78:22		76:24	annular section	meas. depth	velocity ft/min	flow reg	ECD lb/gal		Left on Cuttings (-)		-11.5
Whole Mud Chlorides (mg/L)				42,000		45,000							Cent/ Evap		-25.0
Water Phase Salinity (ppm)				247,723		247,103							Lost Returns (-)		-1065.7
Whole Mud Alkalinity, Pom				1.5		1.5	6.875x4.5	10,237'	0.0	lam	9.10		Est. Total on Location		2779.5
Excess Lime (lb/bbl)				2 ppb		2 ppb	6.818x4.5	12,420'	0.0	lam	9.10		Est. Losses/Gains (-)/(+)		0.0
Electrical Stability (volts)				411 v		402 v	6.818x5.25	12,463'	0.0	lam	9.10		**BIT HYDRAULICS DATA**		
Average Specific Gravity of Solids				2.98		2.91	6.818x4.5	15,071'	0.0	lam	9.10		Bit H.S.I.	Bit ΔP	Nozzles (32nds)
Percent Low Gravity Solids				5%		5%	6.818x5.25	15,215'	0.0	lam	9.10		0.00	psi	16 16 16
ppb Low Gravity Solids				41 ppb		41 ppb							Bit Impact Force	Nozzle Velocity (ft/sec)	16 16 16
Percent Barite				2.8%		2.3%									
ppb Barite				41 ppb		33 ppb	**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				R. Bowlin	0	M.Meehan	6 3/4	16,365 ft	4.0	255 ft	63.8				

Remarks/Recommendations:

OBM RECEIVED __5,242-bbls__Rec._565-bbl of 9.0ppg

OBM on Surface _2,107-bbls (storage + Active)

OBM Daily Gain / Loss __(-1090bbls) / Total G/L (-3,403-bbls)

Kill mud& New Build: 219bbls-15# 2,003bbls-9# $65.00/bbl

Discounted OBM: 558bbl_11.0# _$15.00/bbl

Rig Activity:

Over the past 24 hours Patterson 248 staged in the hole, circulating out heavy densities. Observed moderate/severe losses while circulating. Drilled ahead to 16,620'MD whereas experienced a mud motor failure, circulate gas from wellbore began TOOH. At the time of the am report TOOH at 15,215'MD.

Eng. 1:	Rob Bowlin	Eng. 2:	Matt Meehan	WH 1:	MIDLAND	WH 2:	WH #2	Rig Phone:	Daily Total	Cumulative Cost
Phone:	228-990-1055	Phone:	985-351-7561	Phone:	432-686-7361	Phone:	-			
W P Y E C g G H O 1 1 1 1 1 1 1 1 1									**$60,504.82**	**$195,872.50**

INCLUDING 3RD PARTY CHARGES	**$70,199.03**	**$260,996.41**

06/16/20 **Report #16**

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**	**04/27/20**	**0 ft**	**16,620 ft**
Well Name and No.	Rig Name and No.	State	Spud Date	Current ROP	Activity
LEVI GOODRICH U2 - 3H	**248**	**TEXAS**	**04/27/20**	**0 ft/hr**	**TIH**
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	699 bbl	Liner Size	5.25	Liner Size	5.25	Liner Size	
9-10.2	**8-20**	**5-12**	**>300**	**±250K**	**<10 <25**	**<10**	In Hole	682 bbl	Stroke	12	Stroke	12	Stroke	
				6/16/20		6/15/20	Active	1237 bbl	bbl/stk	0.0763	bbl/stk	0.0763	bbl/stk	0.0000
Time Sample Taken				2:00		11:00	Storage	1608 bbl	stk/min		stk/min		stk/min	
Sample Location				suction		suction	Tot. on Location	2989 bbl	gal/min	0	gal/min	0	gal/min	0
Flowline Temperature °F							PHHP = 0		**CIRCULATION DATA**				n = 0.628	K = 223.367
Depth (ft)				16,630'		16,620'	Bit Depth = 13,431 '		Washout = 1%				Pump Efficiency = 95%	
Mud Weight (ppg)				9.1		9.0	Drill String Disp.	Volume to Bit 189.5 bbl	Strokes To Bit				Time To Bit	
Funnel Vis (sec/qt)		@ 80 °F		44		45		Bottoms Up Vol. 348.7 bbl	BottomsUp Stks				BottomsUp Time	
600 rpm				34		33	76.0 bbl	TotalCirc.Vol. 1237.3 bbl	TotalCirc.Stks				Total Circ. Time	
300 rpm				22		21	**DRILLING ASSEMBLY DATA**						**SOLIDS CONTROL**	
200 rpm				17		16	Tubulars	OD (in.)	ID (in.)	Length	Top		Unit	Screens	Hours
100 rpm				15		13	Drill Pipe	4.500	3.826	10,636'	0'		Shaker 1	170	12.0
6 rpm				7		6	Agitator	5.250	2.750	43'	10,636'		Shaker 2	170	12.0
3 rpm				6		5	Drill Pipe	4.500	3.826	2,609'	10,679'		Shaker 3	170	12.0
Plastic Viscosity (cp)		@ 150 °F		12		12	Direct. BHA	5.250	2.500	144'	13,287'		Centrifuge 1		0.0
Yield Point (lb/100 ft²)		T0 = 5		10		9	**CASING & HOLE DATA**								
Gel Strength (lb/100 ft²)		10 sec/10 min		7/12		6/11	Casing	OD (in.)	ID (in.)	Depth	Top				
Gel Strength (lb/100 ft^2)		30 min		15		13	Riser						**VOLUME ACCOUNTING (bbls)**		
HTHP Filtrate (cm/30 min)		@ 250 °F		6.4		6.0	Surface	10 3/4		2,989'	0'		Prev. Total on Location		2779.5
HTHP Cake Thickness (32nds)				2.0		2.0	Int. Csg.	7 5/8	6.875	10,237'	0'		Transferred In(+)/Out(-)		799.0
Retort Solids Content				9%		9%							Oil Added (+)		87.8
Corrected Solids (vol%)				7.2%		7.3%							Barite Added (+)		0.0
Retort Oil Content				69%		70%	Open Hole Size		6.818	16,620'			Other Product Usage (+)		1.1
Retort Water Content				22%		21%	**ANNULAR GEOMETRY & RHEOLOGY**						Water Added (+)		20.0
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)				45,000		44,000							Evap/ Trips		-25.0
Water Phase Salinity (ppm)				242,851		247,300							Lost Returns (-)		-673.2
Whole Mud Alkalinity, Pom				1.6		1.6	6.875x4.5	10,237'	0.0	lam			Est. Total on Location		2989.3
Excess Lime (lb/bbl)				2.1 ppb		2.1 ppb	6.818x4.5	10,636'	0.0	lam			Est. Losses/Gains (-)/(+)		0.0
Electrical Stability (volts)				395 v		404 v	6.818x5.25	10,679'	0.0	lam			**BIT HYDRAULICS DATA**		
Average Specific Gravity of Solids				3.07		2.92	6.818x4.5	13,287'	0.0	lam			Bit H.S.I.	Bit ΔP	Nozzles (32nds)
Percent Low Gravity Solids				4.3%		4.9%	6.818x5.25	13,431'	0.0	lam			0.00	psi	16 16 16
ppb Low Gravity Solids				35 ppb		40 ppb							Bit Impact Force	Nozzle Velocity (ft/sec)	16 16 16
Percent Barite				3%		2.4%									
ppb Barite				42 ppb		34 ppb	**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				R. Bowlin	0	M.Meehan	6 3/4	16,620 ft	0.0		#DIV/0!				

Remarks/Recommendations:

OBM REC. _6,041-bbls__Rec._529-bbl_9.0ppg 270-bbls 14.9ppg

OBM on Surface _2,307-bbls (storage + Active)

OBM Daily Gain / Loss __(-698-bbls) / Total G/L (-4,101-bbls)

Kill mud& New Build: 454bbls-14.9# 1977bbls-9# $65.00/bbl

Discounted OBM: 558bbl_11.0# _$15.00/bbl

Rig Activity:

TOOH to swap out the BHA, TIH to 6,083'MD circulated BU observed highest MW of 9.4ppg. Continued staging in the hole to 8,087'MD, circ observing MW of 9.3ppg and again staged to the shoe at 10,395'MD circ. 9.0ppg observed. The drilling fluid will be conditioned as needed to maintain the drilling fluid within the recommended parameters while the hole is circulated. At the time of report TIH at 13,431'MD. Conditioned surface volumes with Bentone 38/990 and preparing LCM sweeps in slug tank currently.

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

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

	Daily Total	Cumulative Cost
	$35,975.60	**$231,848.10**
INCLUDING 3RD PARTY CHARGES	**$49,192.64**	**$310,189.05**

6/16/2020 **Report 16 pm**

110 Old Market St.
St Martinville, LA 70582

TEL: (337) 394-1078

63.3° **10,528' TVD**

Operator	Contractor	County / Parish / Block	Engineer Start Date	24 hr ftg.	Drilled Depth
MAGNOLIA OIL & GAS	**PATTERSON**	**WASHINGTON**	**04/27/20**		**16,620 ft**
Well Name and No.	Rig Name and No.	State	Spud Date	Current ROP	Activity
LEVI GOODRICH U2 - 3H	**248**	**TEXAS**	**04/27/20**		**Circulating**
Report for	Report for	Field / OSC-G #	Fluid Type	Circulating Rate	Circulating Pressure
KEVIN BURT/ JIM HARRISON	**Tool Pusher**	**GIDDINGS**	**OBM**	**122 gpm**	**1,330 psi**

MUD PROPERTY SPECIFICATIONS

Weight	PV	YP	E.S.	CaCl2	GELS	HTHP
9-10.2	**8-20**	**5-12**	**>300**	**±250K**	**<10 <25**	**<10**

MUD PROPERTIES				
Time Sample Taken		2:00		12:00
Sample Location		suction		suction
Flowline Temperature °F				
Depth (ft)		16,630'		16,630'
Mud Weight (ppg)		9.1		9.0
Funnel Vis (sec/qt)	@ 80 °F	44		42
600 rpm		34		31
300 rpm		22		20
200 rpm		17		16
100 rpm		15		13
6 rpm		7		6
3 rpm		6		5
Plastic Viscosity (cp)	@ 150 °F	12		11
Yield Point (lb/100 ft²)	T0 = 5	10		9
Gel Strength (lb/100 ft²)	10 sec / 10 min	7/12		6/11
Gel Strength (lb/100 ft2)	30 min	15		13
HTHP Filtrate (cm/30 min)	@ 250 °F	6.4		7.0
HTHP Cake Thickness (32nds)		2.0		2.0
Retort Solids Content		9%		9%
Corrected Solids (vol%)		7.2%		7.3%
Retort Oil Content		69%		69%
Retort Water Content		22%		22%
O/W Ratio		76:24		76:24
Whole Mud Chlorides (mg/L)		45,000		45,000
Water Phase Salinity (ppm)		242,851		242,851
Whole Mud Alkalinity, Pom		1.6		1.5
Excess Lime (lb/bbl)		2.1 ppb		2 ppb
Electrical Stability (volts)		395 v		380 v
Average Specific Gravity of Solids		3.07		2.89
Percent Low Gravity Solids		4.3%		5%
ppb Low Gravity Solids		35 ppb		41 ppb
Percent Barite		3%		2.2%
ppb Barite		42 ppb		32 ppb
Estimated Total LCM in System				
Sample Taken By		R. Bowlin		M.Meehan

MUD VOLUME (BBL)

In Pits	755 bbl
In Hole	697 bbl
Active	1184 bbl
Storage	1127 bbl
Tot. on Location	2579 bbl

PUMP #1

Liner Size	5.25
Stroke	12
bbl/stk	0.0763
stk/min	19
gal/min	61

PUMP #2

Liner Size	5.25
Stroke	12
bbl/stk	0.0763
stk/min	19
gal/min	61

RISER BOOSTER

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

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

Bit Depth = 10,690 ' | Washout = 1% | Pump Efficiency = 95%

Drill String Disp.							
61.1 bbl	Volume to Bit	150.5 bbl	Strokes To Bit	1,973	Time To Bit	52 min
	Bottoms Up Vol.	278.9 bbl	BottomsUp Stks	3,655	BottomsUp Time	96 min
	TotalCirc.Vol.	1184.4 bbl	TotalCirc.Stks	15,521	Total Circ. Time	408 min

DRILLING ASSEMBLY DATA

Tubulars	OD (in.)	ID (in.)	Length	Top
Drill Pipe	4.500	3.826	7,895'	
Agitator	5.250	2.750	43'	7,895'
Drill Pipe	4.500	3.826	2,609'	7,938'
Direct. BHA	5.250	2.500	144'	10,546'

CASING & HOLE DATA

Casing	OD (in.)	ID (in.)	Depth	Top
Riser				
Surface	10 3/4		2,989'	
Int. Csg.	7 5/8	6.875	10,237'	
Open Hole Size	6.818		16,620'	

ANNULAR GEOMETRY & RHEOLOGY

annular section	depth	velocity ft/min	flow reg	ECD lb/gal
6.875x4.5	7,895'	110.5	lam	9.52
6.875x5.25	7,938'	151.5	lam	9.52
6.875x4.5	10,237'	110.5	lam	9.52
6.818x4.5	10,546'	113.8	lam	9.52
6.818x5.25	10,690'	157.7	lam	9.53

BIT DATA Manuf./Type Ulterra/U611S

Size	Depth In	Hours	Footage	ROP ft/hr
6 3/4	16,620 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	2989.3
Transferred In(+)/Out(-)	111.0
Oil Added (+)	
Barite Added (+)	
Other Product Usage (+)	
Water Added (+)	
Left on Cuttings (-)	
Evap/ Trips	
Lost Returns (-)	-521.1
Est. Total on Location	2579.2
Est. Losses/Gains (-)/(+)	0.0

BIT HYDRAULICS DATA

Bit H.S.I.	Bit ΔP	Nozzles (32nds)		
0.02	9 psi	16	16	16
Bit Impact Force	Nozzle Velocity (ft/sec)	16	16	16
19 lbs	33			

Motor/MWD	Calc. Circ. Pressure
	384 psi

Afternoon Remarks/Recommendations:

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

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

Afternoon Rig Activity:

POOH to 12000 ft. Circulate and pumped a 20 bbl LCM sweep with losses of 100 bbl/hr. Pulled up to 10631 ft. Continue to circulate with reduced losses of 50 bbl/hr. Receiving mud from the Madisonville warehouse. Received Barite and Diesel to replenish stocks. Continuing to treat the system with Optimul and Lime to maintain the emulsion. Adding Bentone 38 and Bentone 990 to increase the rheology. Adding Opti-G to reduce the HTHP fluid loss.

6/18/2020 **Report 18 pm**

110 Old Market St.
St Martinville, LA 70582

TEL: (337) 394-1078

92.7° **10,247' TVD**

Operator	Contractor	County / Parish / Block	Engineer Start Date	24 hr ftg.	Drilled Depth
MAGNOLIA OIL & GAS	**PATTERSON**	**WASHINGTON**	**04/27/20**	**874 ft**	**17,902 ft**
Well Name and No.	Rig Name and No.	State	Spud Date	Current ROP	Activity
LEVI GOODRICH U2 - 3H	**248**	**TEXAS**	**04/27/20**	**95 ft/hr**	**DRILLING**
Report for	Report for	Field / OSC-G #	Fluid Type	Circulating Rate	Circulating Pressure
JAMES DYER / BOBBY GWIN	**Tool Pusher**	**GIDDINGS**	**OBM**	**295 gpm**	**2,680 psi**

MUD PROPERTY SPECIFICATIONS

Weight	PV	YP	E.S.	CaCl2	GELS	HTHP
9-10.2	**8-20**	**5-12**	**>300**	**±260K**	**<10 <25**	**<10**

MUD PROPERTIES

Time Sample Taken	2:00		1:30
Sample Location	suction		shaker
Flowline Temperature °F	120 °F		118 °F
Depth (ft)	16,900'		17,902'
Mud Weight (ppg)	9.0		9.0
Funnel Vis (sec/qt) @ 108 °F	44		46
600 rpm	28		32
300 rpm	17		21
200 rpm	14		18
100 rpm	10		13
6 rpm	6		7
3 rpm	5		6
Plastic Viscosity (cp) @ 150 °F	11		11
Yield Point (lb/100 ft²) T0 = 4	6		10
Gel Strength (lb/100 ft²) 10 sec / 10 min	6/10		6/12
Gel Strength (lb/100 ft2) 30 min	14		13
HTHP Filtrate (cm/30 min) @ 250 °F	6.0		6.0
HTHP Cake Thickness (32nds)	3.0		2.0
Retort Solids Content	9%		9%
Corrected Solids (vol%)	7.2%		7.2%
Retort Oil Content	71%		71%
Retort Water Content	20%		20%
O/W Ratio	78:22		78:22
Whole Mud Chlorides (mg/L)	44,000		46,500
Water Phase Salinity (ppm)	256,494		267,174
Whole Mud Alkalinity, Pom	2.0		1.7
Excess Lime (lb/bbl)	2.6 ppb		2.2 ppb
Electrical Stability (volts)	435 v		455 v
Average Specific Gravity of Solids	2.96		2.94
Percent Low Gravity Solids	4.7%		4.7%
ppb Low Gravity Solids	39 ppb		39 ppb
Percent Barite	2.5%		2.4%
ppb Barite	36 ppb		35 ppb
Estimated Total LCM in System			
Sample Taken By	A Roman		M Washburn

MUD VOLUME (BBL)

In Pits	658 bbl
In Hole	716 bbl
Active	1374 bbl
Storage	1989 bbl
Tot. on Location	3363 bbl

PUMP #1

Liner Size	5.25
Stroke	12
bbl/stk	0.0763
stk/min	46
gal/min	147

PUMP #2

Liner Size	5.25
Stroke	12
bbl/stk	0.0763
stk/min	46
gal/min	147

RISER BOOSTER

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

Mud Wt. = 9.0 PV=11 YP=6 **CIRCULATION DATA** n = 0.720 K = 97.3

Bit Depth = 17,902 ' Washout = 1% Pump Efficiency = 95%

Drill String Disp.							
100.4 bbl	Volume to Bit	253.1 bbl	Strokes To Bit	3,317	Time To Bit	36 min
	Bottoms Up Vol.	462.7 bbl	BottomsUp Stks	6,063	BottomsUp Time	66 min
	TotalCirc.Vol.	1373.8 bbl	TotalCirc.Stks	18,003	Total Circ. Time	196 min

DRILLING ASSEMBLY DATA

Tubulars	OD (in.)	ID (in.)	Length	Top
Drill Pipe	4.500	3.826	15,107'	
Agitator	5.250	2.750	43'	15,107'
Drill Pipe	4.500	3.826	2,609'	15,150'
Direct. BHA	5.250	2.500	144'	17,758'

CASING & HOLE DATA

Casing	OD (in.)	ID (in.)	Depth	Top
Riser				
Surface	10 3/4		2,989'	
Int. Csg.	7 5/8	6.875	10,237'	
Open Hole Size	6.818		17,902'	

ANNULAR GEOMETRY & RHEOLOGY

annular section	depth	velocity ft/min	flow reg	ECD lb/gal
6.875x4.5	10,237'	267.5	turb	9.61
6.818x4.5	15,107'	275.5	turb	9.96
6.818x5.25	15,150'	381.9	turb	10.08
6.818x4.5	17,758'	275.5	turb	10.34
6.818x5.25	17,902'	381.9	turb	10.47

BIT DATA Manuf./Type Ulterra/U611S

Size	Depth In	Hours	Footage	ROP ft/hr
6 3/4	16,620 ft	16.0	1,384 ft	86.5

SOLIDS CONTROL

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

VOLUME ACCOUNTING (bbls)

Prev. Total on Location	3332.1
Transferred In(+)/Out(-)	
Oil Added (+)	
Barite Added (+)	
Other Product Usage (+)	
Water Added (+)	
Left on Cuttings (-)	-39.5
Evap/ Trips/ Cent	
Lost Returns (-)	
Est. Total on Location	3292.7
Est. Losses/Gains (-)/(+)	70.1

BIT HYDRAULICS DATA

Bit H.S.I.	Bit ΔP	Nozzles (32nds)		
0.25	52 psi	16	16	16
Bit Impact Force	Nozzle Velocity (ft/sec)	16	16	16
110 lbs	80			

Motor/MWD	Calc. Circ. Pressure
1,200 psi	2,605 psi

Afternoon Remarks/Recommendations:

Afternoon Rig Activity:

Drilling in lateral hole section, samples are 100% Austin Chalk. Crossed second fault in graben structure. Maintain mud wt @ 9.0. Experiencing periodic mud losses ranging from 10 - 40 bbls / hr. Increase LCM concentrations in sweeps from 20 to 30 PPB and adding additional medium to coarse grade sealants. Maintaining LCM in active system. Preparing for TD clean up cycle and subsequent LCM spot in open hole. Receiving 800 bbls 9.0 OBM from Madisonville.

06/18/20 **Report #18**

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

OUTSOURCE FLUID SOLUTIONS LLC.

95.1° **10,207' TVD**

Operator	Contractor	County / Parish / Block	Engineer Start Date	24 hr ftg.	Drilled Depth
MAGNOLIA OIL & GAS	**PATTERSON**	**WASHINGTON**	**04/27/20**	**510 ft**	**17,130 ft**
Well Name and No.	Rig Name and No.	State	Spud Date	Current ROP	Activity
LEVI GOODRICH U2 - 3H	**248**	**TEXAS**	**04/27/20**	**128 ft/hr**	**Drilling Lateral**
Report for	Report for	Field / OCS-G #	Fluid Type	Circulating Rate	Circulating Pressure
JAMES DYER / BOBBY GWIN	**Tool Pusher**	**GIDDINGS**	**OBM**	**295 gpm**	**2,740 psi**

MUD PROPERTY SPECIFICATIONS

Weight	PV	YP	E.S.	CaCl2	GELS	HTHP
9-10.2	**8-20**	**5-12**	**>300**	**±260K**	**<10 <25**	**<10**
				6/18/20		6/17/20
Time Sample Taken				2:00		15:00
Sample Location				suction		suction
Flowline Temperature °F				120 °F		
Depth (ft)				16,900'		17,028'
Mud Weight (ppg)				9.0		9.0
Funnel Vis (sec/qt)			@ 105 °F	44		45
600 rpm				28		32
300 rpm				17		21
200 rpm				14		18
100 rpm				10		13
6 rpm				6		7
3 rpm				5		6
Plastic Viscosity (cp)			@ 150 °F	11		11
Yield Point (lb/100 ft²)			T0 = 4	6		10
Gel Strength (lb/100 ft²)			10 sec/10 min	6/10		6/12
Gel Strength (lb/100 ft^2)			30 min	14		13
HTHP Filtrate (cm/30 min)			@ 250 °F	6.0		6.2
HTHP Cake Thickness (32nds)				3.0		2.0
Retort Solids Content				9%		9%
Corrected Solids (vol%)				7.2%		7.2%
Retort Oil Content				71%		70%
Retort Water Content				20%		21%
O/W Ratio				78:22		77:23
Whole Mud Chlorides (mg/L)				44,000		46,500
Water Phase Salinity (ppm)				256,494		257,730
Whole Mud Alkalinity, Pom				2.0		1.4
Excess Lime (lb/bbl)				2.6 ppb		1.8 ppb
Electrical Stability (volts)				435 v		420 v
Average Specific Gravity of Solids				2.96		2.91
Percent Low Gravity Solids				4.7%		4.9%
ppb Low Gravity Solids				39 ppb		40 ppb
Percent Barite				2.5%		2.3%
ppb Barite				36 ppb		33 ppb
Estimated Total LCM in System			ppb			
Sample Taken By				A Roman	0	M Washburn

MUD VOLUME (BBL)

In Pits	658 bbl		
In Hole	685 bbl		
Active	1343 bbl		
Storage	1989 bbl		
Tot. on Location	3332 bbl		

PUMP #1

Liner Size	5.25
Stroke	12
bbl/stk	0.0763
stk/min	46
gal/min	147

PUMP #2

Liner Size	5.25
Stroke	12
bbl/stk	0.0763
stk/min	46
gal/min	147

RISER BOOSTER

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

PHHP = 471 **CIRCULATION DATA** n = 0.720 K = 97.330

Bit Depth = 17,130 ' | Washout = 1% | Pump Efficiency = 95%

Drill String Disp.					
96.2 bbl	Volume to Bit	242.1 bbl	Strokes To Bit	3,173	Time To Bit 34 min
	Bottoms Up Vol.	443.0 bbl	BottomsUp Stks	5,805	BottomsUp Time 63 min
	TotalCirc.Vol.	1343.1 bbl	TotalCirc.Stks	17,601	Total Circ. Time 191 min

DRILLING ASSEMBLY DATA

Tubulars	OD (in.)	ID (in.)	Length	Top
Drill Pipe	4.500	3.826	14,335'	0'
Agitator	5.250	2.750	43'	14,335'
Drill Pipe	4.500	3.826	2,609'	14,378'
Direct. BHA	5.250	2.500	144'	16,986'

CASING & HOLE DATA

Casing	OD (in.)	ID (in.)	Depth	Top
Riser				
Surface	10 3/4		2,989'	0'
Int. Csg.	7 5/8	6.875	10,237'	0'
Open Hole Size	6.818		17,130'	

ANNULAR GEOMETRY & RHEOLOGY

annular section	meas. depth	velocity ft/min	flow reg	ECD lb/gal
6.875x4.5	10,237'	267.5	turb	9.65
6.818x4.5	14,335'	275.5	turb	9.99
6.818x5.25	14,378'	381.9	turb	10.14
6.818x4.5	16,986'	275.5	turb	10.45
6.818x5.25	17,130'	381.9	turb	10.62

BIT DATA Manuf./Type Ulterra/U611S

Size	Depth In	Hours	Footage	ROP ft/hr
6 3/4	16,620 ft	4.0	510 ft	127.5

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	3511.7
Transferred In(+)/Out(-)	762.0
Oil Added (+)	67.4
Barite Added (+)	13.9
Other Product Usage (+)	3.4
Water Added (+)	10.0
Left on Cuttings (-)	-23.0
Evap/ Trips/ Cent	-65.0
Lost Returns (-)	-948.3
Est. Total on Location	3332.1
Est. Losses/Gains (-)/(+)	0.0

BIT HYDRAULICS DATA

Bit H.S.I.	Bit ΔP	Nozzles (32nds)		
0.25	52 psi	16	16	16
Bit Impact Force	Nozzle Velocity (ft/sec)	16	16	16
110 lbs	80			

Motor/MWD	Calc. Circ. Pressure
1,200 psi	2,548 psi

Remarks/Recommendations:

OBM REC. --7807 bbls Daily Rec 762bbls

OBM on Surface _2,647-bbls (storage + Active)

OBM Daily Gain / Loss (-998bbls) / Total G/L (-5,099-bbls)

Kill mud& New Build: 471bbls-14.9# --1197bbls-9# $65.00/bbl

Discounted OBM: 321bbl_11.0# _$15.00/bbl

Rig Activity:

TIH back to bottom, Wash and ream last 5 stands. Resume drilling operations. Maintain MW 9.0ppg, Transfer OBM from storage to active to maintain volume. Well continues to take mud, about 46bbls per hr. while drilling, lost 65bbls while TIH. Maintain LCM sweep pumping 10bbls / connection, as well as mixing First Response / Cyberseal / NewCarb into Active system to assist on Losses, proving to be in-effective

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

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

	Daily Total	Cumulative Cost
	$60,449.09	**$327,095.92**
INCLUDING 3RD PARTY CHARGES	**$65,024.62**	**$434,641.52**

OUTSOURCE FLUID SOLUTIONS LLC.

MATERIAL CONSUMPTION

Date	Operator	Well Name and No.	Rig Name and No.	Report No.
06/18/20	MAGNOLIA OIL & GAS	LEVI GOODRICH U2 - 3H	248	Report #18

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						2	$325.66
SAPP (50)	50# sk	$44.50						40	$1,780.00
PHPA LIQUID (pail)	5 gal	$41.36	88		88			2	$82.72
DYNA DET	pail	$32.23						8	$257.84
EVO-LUBE	gal	$9.31	975		975				
GEL (100)	100# sk	$10.00	70		70				
BENTONE 38 (50)	50# sk	$163.94	17		17			43	$7,049.42
CACL2 (50)	50# sk	$14.32	112		112			390	$5,584.80
LIME (50)	50# sk	$5.00	200		200			310	$1,550.00
BENTONE 910 (50)	50# sk	$59.94	1		1			33	$1,978.02
BENTONE 990 (50)	50# sk	$83.59	16		16			59	$4,931.81
OPTI G	50# sk	$30.59	135		135			135	$4,129.65
OPTI MUL HP	gal	$10.75						890	$9,567.50
OPTI WET	gal	$8.34	55		55			450	$3,753.00
NEW PHALT	50# sk	$38.72	55		55			85	$3,291.20
NEWCARB 200	50# sk	$5.25	114		90	24	$126.00	96	$504.00
MAGMAFIBER F (25)	25# sk	$28.05						30	$841.50
NEWCARB 100	each	$5.37						50	$268.50
OIL SORB (25)	25# sk	$4.75	28		28			22	$104.50
CYBERSEAL	each	$21.47	127		100	27	$579.69	200	$4,294.00
NEW-WATE (SACK BARITE)	100# sk	$11.50	160		160				
BARITE BULK (100)	100# sk	$7.00	1400		1200	200	$1,400.00	1175	$8,225.00
DYNA FIBER MED.	each	$53.67	80		60	20	$1,073.40	25	$1,341.75
FIBER PLUG	each	$30.37	30		30				
MAGMAFIBER R (30)	30# sk	$28.05	80		80				
OPTI DRILL (OBM)	bbl	$65.00	3062	762	3011	813	$52,845.00	3244	$210,860.00
MAGNOLIA OBM	bbl							166	
DISCOUNTED OBM	bbl	$15.00	450		321	129	$1,935.00	1082	$16,230.00
ENGINEERING (24 HR)	each	$925.00				2	$1,850.00	32	$29,600.00
ENGINEERING (DIEM)	bbl	$30.00				2	$60.00	32	$960.00
ENGINEERING (MILES)	each	$1.00				580	$580.00	4068	$4,068.00
SCALE TICKET		$15.00						3	$45.00
TRUCKING (cwt)	each	$2.50						1930	$4,824.05
TRUCKING (min)	each	$795.00							
PALLETS (ea)	each	$12.00						27	$324.00
SHRINK WRAP (ea)	each	$12.00						27	$324.00
		Daily Sub-Total $60,449.09			**Cumulative Total $327,095.92**			**$327,095.92**	

THIRD PARTY COST SHEET

Date	Operator	Well Name and No.	Rig Name and No.	Report No.
06/18/20	MAGNOLIA OIL & GAS	LEVI GOODRICH U2 - 3H	248	Report #18

DAILY USAGE & COST								CUMULATIVE	
Item	Unit	Unit Cost	Previous Inventory	Received	Closing Inventory	Daily Usage	Daily Cost	Cum Usage	Cum Cost
Diesel Transfer from 2H	gal	$0.91							
Diesel Transfer from Grand Canyon A - 1H	gal	$0.87						2000	$1,740.00
Diesel transfer from Grand Canyon A - 1H	gal	$0.96						7199	$6,911.04
Diesel 5/6/20	gal	$0.90						2159	$1,943.10
DIESEL TRANSFER FROM 2H	gal	$1.16						7872	$9,131.52
DIESEL 6/10/20	gal	$1.22						7400	$9,028.00
Diesel 6_11_20	gal	$1.26						7399	$9,322.74
DIESEL 6/12/20	gal	$1.28						7400	$9,472.00
DIESEL 6/12/20	gal	$1.28						7400	$9,472.00
DIESEL 6/14/29	gal	$1.21						7200	$8,712.00
Diesel 6_15_20	gal	$1.20						7431	$8,917.20
DIESEL 6/16/20	gal	$1.22						7200	$8,784.00
DIESEL 6/16/20	gal	$1.22	1824			1824	$2,225.28	7400	$9,028.00
DIESEL 6/17/20	gal	$1.30		7005	6000	1005	$1,306.50	1005	$1,306.50
DIESEL 6/17/20	gal	$1.30		2200	2200				
TURBO CHEM FIRST RESPONSE	each	$41.75	225		200	25	$1,043.75	330	$13,777.50

Daily Sub-Total $4,575.53	$107,545.60

Cumulative Total AES & 3rd Party $434,641.52

OUTSOURCE FLUID SOLUTIONS LLC.

FLUID VOLUME ACCOUNTING

Operator:	MAGNOLIA OIL & GAS
Rig Name:	248
Well Name:	LEVI GOODRICH U2 - 3H

Grand Totals		WEEK 1							WEEK 2							WEEK 3						
	Date	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	6/20/20	6/21/20	6/22/20	6/23/20	6/24/20	6/25/20	6/26/20	6/27/20
		Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat
	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	6 3/4	6 3/4	6 3/4									
	Starting Depth	10,245	10,245	10,245	10,311	12,303	14,073	15,359	16,272	16,365	16,620	16,620	16,620	17,130								
	Ending Depth	10,245	10,245	10,311	12,303	14,073	15,359	16,272	16,365	16,620	16,620	16,620	17,130									
6,885	Footage Drilled	-	-	66	1,992	1,770	1,286	913	93	255	-	-	510	-	-	-	-	-	-	-	-	-
305	New Hole Vol.	-	-	3	88	78	57	40	4	11	-	-	23	-	-	-	-	-	-	-	-	-
	Starting System Volume	470	2,440	2,929	2,908	2,755	2,546	2,601	3,081	3,111	2,769	2,978	3,511	3,332	3,332	3,332	3,332	3,332	3,332	3,332	3,332	3,332
87	Chemical Additions	-	-	9	12	11	16	17	1	7	1	10	3									
1,471	Base Fluid Added	-	-	12	55	205	218	209	40	156	88	422	67									
63	Barite Increase	-	-	-	-			17	32				14									
7,337	Weighted Mud Added	1,970	489	-	-		407	811	530	565	799	1,004	762									
-	Slurry Added	-	-	-	-								-									
526	Water Added	-	-	-	50	102	100	100	17	42	20	85	10									
10	Added for Washout	-	-	-	-							10	-									
9,494	Total Additions	1,970	489	20	116	318	741	1,154	620	770	908	1,531	856	-	-	-	-	-	-	-	-	-
264	Surface Losses	-	-	8	-	36	35	35	5	15	25	40	65									
5,851	Formation Loss	-	-	-	150	378	563	568	577	1,066	673	928	948									
315	Mud Loss to Cuttings	-	-	3	92	82	58	41	4	12		-	23									
30	Unrecoverable Volume	-	-	30	-								-									
173	Centrifuge Losses	-	-	-	28	30	30	30	5	20		30	-									
6,633	Total Losses	-	-	41	270	526	686	674	591	1,112	698	998	1,036	-	-	-	-	-	-	-	-	-
-	Mud Transferred Out	-	-	-																		
3,332	Ending System Volume	2,440	2,929	2,908	2,755	2,546	2,601	3,081	3,111	2,769	2,978	3,511	3,332	3,332	3,332	3,332	3,332	3,332	3,332	3,332	3,332	3,332
-	Mud Recovered																					

7,807

Comments:		Comments:		Comments:	
6/7/20	TRANSFER FROM 2H.	6/14/20		6/21/20	
6/8/20	Testing and repair to BOP's. Received 489bbls 10.9# Discounted mud.	6/15/20		6/22/20	
6/9/20	TIH, FIT 13emw / 1600psi. Drilling ahead on Curve section.	6/16/20		6/23/20	
6/10/20	Drilling on lateral section. Well taking mud after 11400'. Lower MW to 9.6ppg. Adding LCM to active system First response/Cyberseal/newcarb 3 sxs ea.	6/17/20		6/24/20	
6/11/20		6/18/20	Resume drilling. Well continues to take mud.	6/25/20	
6/12/20		6/19/20		6/26/20	
6/13/20		6/20/20		6/27/20	

06/19/20 **Report #19**

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

OUTSOURCE FLUID SOLUTIONS LLC.

92.2° **10,570' TVD**

Operator	Contractor	County / Parish / Block	Engineer Start Date	24 hr ftg.	Drilled Depth
MAGNOLIA OIL & GAS	**PATTERSON**	**WASHINGTON**	**04/27/20**	**909 ft**	**18,039 ft**
Well Name and No.	Rig Name and No.	State	Spud Date	Current ROP	Activity
LEVI GOODRICH U2 - 3H	**248**	**TEXAS**	**04/27/20**	**95 ft/hr**	**POOH**
Report for	Report for	Field / OCS-G #	Fluid Type	Circulating Rate	Circulating Pressure
JAMES DYER / BOBBY GWIN	**Tool Pusher**	**GIDDINGS**	**OBM**	**64 gpm**	**psi**

MUD PROPERTY SPECIFICATIONS

Weight	PV	YP	E.S.	CaCl2	GELS	HTHP
9-10.2	**8-20**	**5-12**	**>300**	**±260K**	**<10 <25**	**<10**
				6/19/20		6/18/20
Time Sample Taken				2:00		1:30
Sample Location				suction		shaker
Flowline Temperature °F				120 °F		118 °F
Depth (ft)				18,039'		17,902'
Mud Weight (ppg)				9.0		9.0
Funnel Vis (sec/qt)			@ 108 °F	45		46
600 rpm				29		32
300 rpm				19		21
200 rpm				15		18
100 rpm				10		13
6 rpm				6		7
3 rpm				5		6
Plastic Viscosity (cp)			@ 150 °F	10		11
Yield Point (lb/100 ft²)			T0 = 4	9		10
Gel Strength (lb/100 ft²)			10 sec/10 min	6/11		6/12
Gel Strength (lb/100 ft^2)			30 min	14		13
HTHP Filtrate (cm/30 min)			@ 250 °F	6.0		6.0
HTHP Cake Thickness (32nds)				3.0		2.0
Retort Solids Content				9%		9%
Corrected Solids (vol%)				7.1%		7.2%
Retort Oil Content				71%		71%
Retort Water Content				20%		20%
O/W Ratio				78:22		78:22
Whole Mud Chlorides (mg/L)				46,000		46,500
Water Phase Salinity (ppm)				265,062		267,174
Whole Mud Alkalinity, Pom				1.5		1.7
Excess Lime (lb/bbl)				2 ppb		2.2 ppb
Electrical Stability (volts)				440 v		455 v
Average Specific Gravity of Solids				2.95		2.94
Percent Low Gravity Solids				4.7%		4.7%
ppb Low Gravity Solids				39 ppb		39 ppb
Percent Barite				2.5%		2.4%
ppb Barite				35 ppb		35 ppb
Estimated Total LCM in System			ppb			
Sample Taken By				A Roman	0	M Washburn

MUD VOLUME (BBL)

In Pits	891 bbl
In Hole	756 bbl
Active	1357 bbl
Storage	2050 bbl
Tot. on Location	3697 bbl

PUMP #1

Liner Size	5.25
Stroke	12
bbl/stk	0.0763
stk/min	20
gal/min	64

PUMP #2

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

RISER BOOSTER

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

CIRCULATION DATA

PHHP = 0 n = 0.610 K = 215.795

Bit Depth = 11,600 ' Washout = 1% Pump Efficiency = 95%

Drill String Disp.							
66.0 bbl	Volume to Bit	163.5 bbl	Strokes To Bit	2,142	Time To Bit	107 min
	Bottoms Up Vol.	302.1 bbl	BottomsUp Stks	3,959	BottomsUp Time	198 min
	TotalCirc.Vol.	1356.6 bbl	TotalCirc.Stks	17,777	Total Circ. Time	889 min

DRILLING ASSEMBLY DATA

Tubulars	OD (in.)	ID (in.)	Length	Top
Drill Pipe	4.500	3.826	8,805'	0'
Agitator	5.250	2.750	43'	8,805'
Drill Pipe	4.500	3.826	2,609'	8,848'
Direct. BHA	5.250	2.500	144'	11,456'

CASING & HOLE DATA

Casing	OD (in.)	ID (in.)	Depth	Top
Riser				
Surface	10 3/4		2,989'	0'
Int. Csg.	7 5/8	6.875	10,237'	0'
Open Hole Size		6.818	18,039'	

ANNULAR GEOMETRY & RHEOLOGY

annular section	meas. depth	velocity ft/min	flow reg	ECD lb/gal
6.875x4.5	8,805'	58.2	lam	9.85
6.875x5.25	8,848'	79.7	lam	10.34
6.875x4.5	10,237'	58.2	lam	10.71
6.818x4.5	11,456'	59.9	lam	11.23
6.818x5.25	11,600'	83.0	lam	11.76

BIT DATA Manuf./Type Ulterra/U611S

Size	Depth In	Hours	Footage	ROP ft/hr
6 3/4	16,620 ft	16.0	1,384 ft	86.5

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	3332.1
Transferred In(+)/Out(-)	778.0
Oil Added (+)	122.1
Barite Added (+)	0.0
Other Product Usage (+)	13.9
Water Added (+)	100.0
Left on Cuttings (-)	-41.0
Evap/ Trips/ Cent	-45.0
Formation losses	-562.8
Est. Total on Location	3697.3
Est. Losses/Gains (-)/(+)	0.0

BIT HYDRAULICS DATA

Bit H.S.I.	Bit ΔP	Nozzles (32nds)		
0.00	2 psi	16	16	16
Bit Impact Force	Nozzle Velocity (ft/sec)	16	16	16
5 lbs	17			

Motor/MWD	Calc. Circ. Pressure
1,200 psi	1,480 psi

Remarks/Recommendations:

OBM REC. --8585 bbls Daily Rec 778bbls

OBM on Surface _2,941-bbls (storage + Active)

OBM Daily Gain / Loss (-998bbls) / Total G/L (-5,099-bbls)

Kill mud& New Build: 393bbls-14.5# --1366bbls-9# $65.00/bbl

Discounted OBM: 291 bbl_11.0# _$15.00/bbl

Rig Activity:

Drilled to TD 18039'MD / 10,221' TVD. Pump 3, 30ppb sweep and circulate clean up cycle prior to wash and ream back to 16300'. At this depth circulate BU and pump 240bbls of 30ppb LCM (1st Response / New Carb M / CyberSeal) spot it out the bit. Continue POOH in good fashion, keeping hole full on back side. Plan forward, Stop POOH at the shoe and spot heavy OBM outside the bit for mud cap. will resume POOH. At the time of report bit passing 10668'.

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

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

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

	Daily Total	Cumulative Cost
	$32,390.15	**$359,486.07**
INCLUDING 3RD PARTY CHARGES	**$41,979.05**	**$476,620.57**

OUTSOURCE FLUID SOLUTIONS LLC.

MATERIAL CONSUMPTION

Date	Operator	Well Name and No.	Rig Name and No.	Report No.
06/19/20	MAGNOLIA OIL & GAS	LEVI GOODRICH U2 - 3H	248	Report #19

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						2	$325.66
SAPP (50)	50# sk	$44.50						40	$1,780.00
PHPA LIQUID (pail)	5 gal	$41.36	88		88			2	$82.72
DYNA DET	pail	$32.23						8	$257.84
EVO-LUBE	gal	$9.31	975		975				
GEL (100)	100# sk	$10.00	70		70				
BENTONE 38 (50)	50# sk	$163.94	17	40	50	7	$1,147.58	50	$8,197.00
CACL2 (50)	50# sk	$14.32	112	112	224			390	$5,584.80
LIME (50)	50# sk	$5.00	200	50	210	40	$200.00	350	$1,750.00
BENTONE 910 (50)	50# sk	$59.94	1		1			33	$1,978.02
BENTONE 990 (50)	50# sk	$83.59	16	40	53	3	$250.77	62	$5,182.58
OPTI G	50# sk	$30.59	135	40	175			135	$4,129.65
OPTI MUL HP	gal	$10.75		550	550			890	$9,567.50
OPTI WET	gal	$8.34	55	440	495			450	$3,753.00
NEW PHALT	50# sk	$38.72	55		55			85	$3,291.20
NEWCARB 200	50# sk	$5.25	90		15	75	$393.75	171	$897.75
MAGMAFIBER F (25)	25# sk	$28.05						30	$841.50
NEWCARB 100	each	$5.37						50	$268.50
OIL SORB (25)	25# sk	$4.75	28		28			22	$104.50
CYBERSEAL	each	$21.47	100	60	120	40	$858.80	240	$5,152.80
NEW-WATE (SACK BARITE)	100# sk	$11.50	160		160				
BARITE BULK (100)	100# sk	$7.00	1200		1200			1175	$8,225.00
DYNA FIBER MED.	each	$53.67	60	80	120	20	$1,073.40	45	$2,415.15
FIBER PLUG	each	$30.37	30		25	5	$151.85	5	$151.85
MAGMAFIBER R (30)	30# sk	$28.05	80		80				
OPTI DRILL (OBM)	bbl	$65.00	3011	778	3406	383	$24,895.00	3627	$235,755.00
MAGNOLIA OBM	bbl							166	
DISCOUNTED OBM	bbl	$15.00	321		291	30	$450.00	1112	$16,680.00
ENGINEERING (24 HR)	each	$925.00				2	$1,850.00	34	$31,450.00
ENGINEERING (DIEM)	bbl	$30.00				2	$60.00	34	$1,020.00
ENGINEERING (MILES)	each	$1.00						4068	$4,068.00
SCALE TICKET		$15.00						3	$45.00
TRUCKING (cwt)	each	$2.50						1930	$4,824.05
TRUCKING (min)	each	$795.00				1	$795.00	1	$795.00
PALLETS (ea)	each	$12.00				12	$144.00	39	$468.00
SHRINK WRAP (ea)	each	$12.00				10	$120.00	37	$444.00
		Daily Sub-Total $32,390.15			**Cumulative Total $359,486.07**			**$359,486.07**	

THIRD PARTY COST SHEET

Date	Operator	Well Name and No.	Rig Name and No.	Report No.
06/19/20	MAGNOLIA OIL & GAS	LEVI GOODRICH U2 - 3H	248	Report #19

DAILY USAGE & COST								CUMULATIVE	
Item	Unit	Unit Cost	Previous Inventory	Received	Closing Inventory	Daily Usage	Daily Cost	Cum Usage	Cum Cost
Diesel Transfer from 2H	gal	$0.91							
Diesel Transfer from Grand Canyon A - 1H	gal	$0.87						2000	$1,740.00
Diesel transfer from Grand Canyon A - 1H	gal	$0.96						7199	$6,911.04
Diesel 5/6/20	gal	$0.90						2159	$1,943.10
DIESEL TRANSFER FROM 2H	gal	$1.16						7872	$9,131.52
DIESEL 6/10/20	gal	$1.22						7400	$9,028.00
Diesel 6_11_20	gal	$1.26						7399	$9,322.74
DIESEL 6/12/20	gal	$1.28						7400	$9,472.00
DIESEL 6/12/20	gal	$1.28						7400	$9,472.00
DIESEL 6/14/29	gal	$1.21						7200	$8,712.00
Diesel 6_15_20	gal	$1.20						7431	$8,917.20
DIESEL 6/16/20	gal	$1.22						7200	$8,784.00
DIESEL 6/16/20	gal	$1.22						7400	$9,028.00
DIESEL 6/17/20	gal	$1.30	6000		872	5128	$6,666.40	6133	$7,972.90
DIESEL 6/17/20	gal	$1.30	2200		2200				
DIESEL 6/18/20	gal	$1.30		7200	7200				
TURBO CHEM FIRST RESPONSE	each	$41.75	200		130	70	$2,922.50	400	$16,700.00

Daily Sub-Total $9,588.90 | **$117,134.50**

Cumulative Total AES & 3rd Party $476,620.57

OUTSOURCE FLUID SOLUTIONS LLC.

FLUID VOLUME ACCOUNTING

Operator:	MAGNOLIA OIL & GAS
Rig Name:	248
Well Name:	LEVI GOODRICH U2 - 3H

		WEEK 1							WEEK 2							WEEK 3						
	Date	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	6/20/20	6/21/20	6/22/20	6/23/20	6/24/20	6/25/20	6/26/20	6/27/20
		Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat
	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	6 3/4	6 3/4	6 3/4	6 3/4								
Grand Totals	Starting Depth	10,245	10,245	10,245	10,311	12,303	14,073	15,359	16,272	16,365	16,620	16,620	16,620	17,130	18,039							
	Ending Depth	10,245	10,245	10,311	12,303	14,073	15,359	16,272	16,365	16,620	16,620	16,620	17,130	18,039								
7,794	Footage Drilled	-	-	66	1,992	1,770	1,286	913	93	255	-	-	510	909	-	-	-	-	-	-	-	-
345	New Hole Vol.	-	-	3	88	78	57	40	4	11	-	-	23	40	-	-	-	-	-	-	-	-
	Starting System Volume	470	2,440	2,929	2,908	2,755	2,546	2,601	3,081	3,111	2,769	2,978	3,511	3,332	3,697	3,697	3,697	3,697	3,697	3,697	3,697	3,697
101	Chemical Additions	-	-	9	12	11	16	17	1	7	1	10	3	14								
1,593	Base Fluid Added	-	-	12	55	205	218	209	40	156	88	422	67	122								
63	Barite Increase	-	-	-	-			17	32				14	-								
8,115	Weighted Mud Added	1,970	489	-	-		407	811	530	565	799	1,004	762	778								
-	Slurry Added	-	-	-	-								-	-								
626	Water Added	-	-	-	50	102	100	100	17	42	20	85	10	100								
10	Added for Washout	-	-	-	-							10	-	-								
10,508	Total Additions	1,970	489	20	116	318	741	1,154	620	770	908	1,531	856	1,014	-	-	-	-	-	-	-	-
309	Surface Losses	-	-	8	-	36	35	35	5	15	25	40	65	45								
6,413	Formation Loss	-	-	-	150	378	563	568	577	1,066	673	928	948	563								
356	Mud Loss to Cuttings	-	-	3	92	82	58	41	4	12		-	23	41								
30	Unrecoverable Volume	-	-	30	-								-	-								
173	Centrifuge Losses	-	-	-	28	30	30	30	5	20		30	-	-								
7,281	Total Losses	-	-	41	270	526	686	674	591	1,112	698	998	1,036	649	-	-	-	-	-	-	-	-
-	Mud Transferred Out	-	-	-																		
3,697	Ending System Volume	2,440	2,929	2,908	2,755	2,546	2,601	3,081	3,111	2,769	2,978	3,511	3,332	3,697	3,697	3,697	3,697	3,697	3,697	3,697	3,697	3,697
-	Mud Recovered																					

	Comments:	Comments:	Comments:
	6/7/20 TRANSFER FROM 2H.	6/14/20	6/21/20
8,585	6/8/20 Testing and repair to BOP's. Received 489bbls 10.9# Discounted mud.	6/15/20	6/22/20
	6/9/20 TIH, FIT 13emw / 1600psi. Drilling ahead on Curve section.	6/16/20	6/23/20
	6/10/20 Drilling on lateral section. Well taking mud after 11400'. Lower MW to 9.6ppg. Adding LCM to active system First response/Cyberseal/newcarb 3 sxs ea.	6/17/20	6/24/20
	6/11/20	6/18/20 Resume drilling. Well continues to take mud.	6/25/20
	6/12/20	6/19/20 Drilled to TD 18039', circulate 3 sweeps out of hole. Wash & Ream up to 16300', circulate BU and spot 240bbls of 30ppb LCM sweep outside bit. Continue POOH to the shoe.	6/26/20
	6/13/20	6/20/20	6/27/20

6/19/2020 **Report 19 pm**

110 Old Market St.
St Martinville, LA 70582

TEL: (337) 394-1078

0.3° **2,795' TVD**

Operator	Contractor	County / Parish / Block	Engineer Start Date	24 hr ftg.	Drilled Depth
MAGNOLIA OIL & GAS	**PATTERSON**	**WASHINGTON**	**04/27/20**		**18,039 ft**
Well Name and No.	Rig Name and No.	State	Spud Date	Current ROP	Activity
LEVI GOODRICH U2 - 3H	**248**	**TEXAS**	**04/27/20**		**TD / POOH**
Report for	Report for	Field / OSC-G #	Fluid Type	Circulating Rate	Circulating Pressure
JAMES DYER / BOBBY GWIN	**Tool Pusher**	**GIDDINGS**	**OBM**		

MUD PROPERTY SPECIFICATIONS						
Weight	PV	YP	E.S.	CaCl2	GELS	HTHP
9-10.2	**8-20**	**5-12**	**>300**	**±260K**	**<10 <25**	**<10**

MUD PROPERTIES				
Time Sample Taken		2:00		14:00
Sample Location		suction		suction
Flowline Temperature °F		120 °F		
Depth (ft)		18,039'		18,039'
Mud Weight (ppg)		9.0		9.0
Funnel Vis (sec/qt)	@ 108 °F	45		43
600 rpm		29		30
300 rpm		19		20
200 rpm		15		17
100 rpm		10		12
6 rpm		6		6
3 rpm		5		5
Plastic Viscosity (cp)	@ 150 °F	10		10
Yield Point (lb/100 ft²)	T0 = 4	9		10
Gel Strength (lb/100 ft²)	10 sec / 10 min	6/11		5/12
Gel Strength (lb/100 ft2)	30 min	14		13
HTHP Filtrate (cm/30 min)	@ 250 °F	6.0		6.0
HTHP Cake Thickness (32nds)		3.0		2.0
Retort Solids Content		9%		9%
Corrected Solids (vol%)		7.1%		7.2%
Retort Oil Content		71%		71%
Retort Water Content		20%		20%
O/W Ratio		78:22		78:22
Whole Mud Chlorides (mg/L)		46,000		46,000
Water Phase Salinity (ppm)		265,062		265,062
Whole Mud Alkalinity, Pom		1.5		1.4
Excess Lime (lb/bbl)		2 ppb		1.8 ppb
Electrical Stability (volts)		440 v		450 v
Average Specific Gravity of Solids		2.95		2.94
Percent Low Gravity Solids		4.7%		4.7%
ppb Low Gravity Solids		39 ppb		39 ppb
Percent Barite		2.5%		2.4%
ppb Barite		35 ppb		35 ppb
Estimated Total LCM in System				
Sample Taken By		A Roman		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	804 bbl	Stroke	12	Stroke	12	Stroke
Active	864 bbl	bbl/stk	0.0763	bbl/stk	0.0763	bbl/stk
Storage	1973 bbl	stk/min		stk/min		stk/min
Tot. on Location	3567 bbl	gal/min		gal/min		gal/min

Mud Wt. = 9.0 PV=10 YP=9 **CIRCULATION DATA** n = 0.610 K = 215.8

Bit Depth = 250 ' | Washout = 1% | Pump Efficiency = 95%

Drill String Disp.	Volume to Bit	2.1 bbl	Strokes To Bit	Time To Bit
	Bottoms Up Vol.	72.0 bbl	BottomsUp Stks	BottomsUp Time
18.0 bbl	TotalCirc.Vol.	864.1 bbl	TotalCirc.Stks	Total Circ. Time

DRILLING ASSEMBLY DATA

Tubulars	OD (in.)	ID (in.)	Length	Top
Drill Pipe	4.500	3.826	**-2,545'**	
Agitator	5.250	2.750	43'	**-2,545'**
Drill Pipe	4.500	3.826	2,609'	**-2,502'**
Direct. BHA	5.250	2.500	144'	106'

CASING & HOLE DATA

Casing	OD (in.)	ID (in.)	Depth	Top
Riser				
Surface	10 3/4		2,989'	
Int. Csg.	7 5/8	6.875	10,237'	
Open Hole Size	6.818		18,039'	

ANNULAR GEOMETRY & RHEOLOGY

annular section	depth	velocity ft/min	flow reg	ECD lb/gal
6.875x5.25	43'		lam	9.00
6.875x4.5	2,652'		lam	9.00
6.875x5.25	2,795'		lam	9.00

BIT DATA Manuf./Type Ulterra/U611S

Size	Depth In	Hours	Footage	ROP ft/hr	Motor/MWD	Calc. Circ. Pressure
6 3/4	16,620 ft	16.0	1,384 ft	86.5	1,200 psi	1,255 psi

SOLIDS CONTROL

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

VOLUME ACCOUNTING (bbls)

Prev. Total on Location	3697.3
Transferred In(+)/Out(-)	
Oil Added (+)	
Barite Added (+)	
Other Product Usage (+)	
Water Added (+)	
Left on Cuttings (-)	
Evap/ Trips/ Cent	
Formation losses	
Est. Total on Location	3697.3
Est. Losses/Gains (-)/(+)	-130.0

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:

Afternoon Rig Activity:

Continue pulling out of hole to 10,200', circulate bottoms up, pump 100 bbls 14.0 kill mud down drill pipe and displace into annulus, leaving 2000' inside pipe, continue pulling out of hole, momitor fill on trip tank, at 7100' pump 30 bbls 14.0 slug, continue pulling out of hole, Trip depth at time of report is 250'.

06/20/20 **Report #20**

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

OUTSOURCE FLUID SOLUTIONS LLC.

0.4° **7,228' TVD**

Operator	Contractor	County / Parish / Block	Engineer Start Date	24 hr ftg.	Drilled Depth
MAGNOLIA OIL & GAS	**PATTERSON**	**WASHINGTON**	**04/27/20**	**0 ft**	**18,039 ft**
Well Name and No.	Rig Name and No.	State	Spud Date	Current ROP	Activity
LEVI GOODRICH U2 - 3H	**248**	**TEXAS**	**04/27/20**	**0 ft/hr**	**Run Casing**
Report for	Report for	Field / OCS-G #	Fluid Type	Circulating Rate	Circulating Pressure
JAMES DYER / BOBBY GWIN	**Tool Pusher**	**GIDDINGS**	**OBM**	**224 gpm**	**700 psi**

MUD PROPERTY SPECIFICATIONS

Weight	PV	YP	E.S.	CaCl2	GELS	HTHP
8.5-10.2	**8-20**	**5-12**	**>300**	**±260K**	**<10 <25**	**<10**
				6/20/20		6/19/20
Time Sample Taken				2:00		14:00
Sample Location				suction		suction
Flowline Temperature °F				100 °F		
Depth (ft)				18,039'		18,039'
Mud Weight (ppg)				8.9		9.0
Funnel Vis (sec/qt)			@ 108 °F	41		43
600 rpm				28		30
300 rpm				18		20
200 rpm				15		17
100 rpm				9		12
6 rpm				5		6
3 rpm				4		5
Plastic Viscosity (cp)			@ 150 °F	10		10
Yield Point (lb/100 ft²)			T0 = 3	8		10
Gel Strength (lb/100 ft²)			10 sec/10 min	5/10		5/12
Gel Strength (lb/100 ft^2)			30 min	13		13
HTHP Filtrate (cm/30 min)			@ 250 °F	8.0		6.0
HTHP Cake Thickness (32nds)				2.0		2.0
Retort Solids Content				8%		9%
Corrected Solids (vol%)				6.2%		7.2%
Retort Oil Content				72%		71%
Retort Water Content				20%		20%
O/W Ratio				78:22		78:22
Whole Mud Chlorides (mg/L)				44,000		46,000
Water Phase Salinity (ppm)				256,494		265,062
Whole Mud Alkalinity, Pom				1.5		1.4
Excess Lime (lb/bbl)				2 ppb		1.8 ppb
Electrical Stability (volts)				444 v		450 v
Average Specific Gravity of Solids				3.11		2.94
Percent Low Gravity Solids				3.5%		4.7%
ppb Low Gravity Solids				29 ppb		39 ppb
Percent Barite				2.7%		2.4%
ppb Barite				39 ppb		35 ppb
Estimated Total LCM in System			ppb			
Sample Taken By				A Roman	0	M Washburn

MUD VOLUME (BBL)

In Pits	842 bbl		
In Hole	775 bbl		
Active	1127 bbl		
Storage	1973 bbl		
Tot. on Location	3590 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	70
gal/min	224

RISER BOOSTER

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

CIRCULATION DATA

PHHP = 92 n = 0.637 K = 172.351

Bit Depth = 7,241 ' Washout = 1% Pump Efficiency = 95%

Drill String Disp.							
47.2 bbl	Volume to Bit	128.6 bbl	Strokes To Bit	1,685	Time To Bit	24 min
	Bottoms Up Vol.	156.6 bbl	BottomsUp Stks	2,052	BottomsUp Time	29 min
	TotalCirc.Vol.	1127.2 bbl	TotalCirc.Stks	14,772	Total Circ. Time	211 min

DRILLING ASSEMBLY DATA

Tubulars	OD (in.)	ID (in.)	Length	Top
Casing	5.500	4.670	0'	0'
Casing	5.000	4.276	7,241'	0'
				7,241'
				7,241'

CASING & HOLE DATA

Casing	OD (in.)	ID (in.)	Depth	Top
Riser				
Surface	10 3/4		2,989'	0'
Int. Csg.	7 5/8	6.875	10,237'	0'
Open Hole Size		6.818	18,039'	

ANNULAR GEOMETRY & RHEOLOGY

annular section	meas. depth	velocity ft/min	flow reg	ECD lb/gal
6.875x5	7,241'	247.0	turb	9.43

BIT DATA

Size	Depth In	Manuf./Type	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		

VOLUME ACCOUNTING (bbls)

Prev. Total on Location	3697.3
Transferred In(+)/Out(-)	
Oil Added (+)	20.8
Barite Added (+)	0.0
Other Product Usage (+)	0.0
Water Added (+)	
Left on Cuttings (-)	0.0
Evap/ Trips/ Cent	
Formation losses	-128.0
Est. Total on Location	3590.1
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 REC. --8585 bbls Daily Rec --bbls

OBM on Surface _2,815-bbls (storage + Active)

OBM Daily Gain / Loss (-109bbls) / Total G/L (-5,621-bbls)

Kill mud& New Build: 316bbls-14.5# --1366bbls-9# $65.00/bbl

Discounted OBM: 291 bbl_11.0# _$15.00/bbl

Rig Activity:

Finish POOH and lay down Directional tools. Clean up Rig floor and Rig up Casing tools. Make up Casing shoe and start running 5" casing in the hole. Breake circulation at 5000', continue TIH, @7100' lost displacement, Circulate BU and monitor losses, +- 45bbls lost while circulating. Shut down circulation and perform flow ck. Well Flowing; shut well in and monitor Casing presure while installing Rotating head to continue Stripping casing in the hole. At this time installing Rotating head,

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

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

	Daily Total	Cumulative Cost
	$8,865.00	**$368,351.07**
INCLUDING 3RD PARTY CHARGES	**$9,998.60**	**$486,619.17**

OUTSOURCE FLUID SOLUTIONS LLC.

MATERIAL CONSUMPTION

Date	Operator	Well Name and No.	Rig Name and No.	Report No.
06/20/20	MAGNOLIA OIL & GAS	LEVI GOODRICH U2 - 3H	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						2	$325.66
SAPP (50)	50# sk	$44.50						40	$1,780.00
PHPA LIQUID (pail)	5 gal	$41.36	88		88			2	$82.72
DYNA DET	pail	$32.23						8	$257.84
EVO-LUBE	gal	$9.31	975		975				
GEL (100)	100# sk	$10.00	70		70				
BENTONE 38 (50)	50# sk	$163.94	50		50			50	$8,197.00
CACL2 (50)	50# sk	$14.32	224		224			390	$5,584.80
LIME (50)	50# sk	$5.00	210		210			350	$1,750.00
BENTONE 910 (50)	50# sk	$59.94	1		1			33	$1,978.02
BENTONE 990 (50)	50# sk	$83.59	53		53			62	$5,182.58
OPTI G	50# sk	$30.59	175		175			135	$4,129.65
OPTI MUL HP	gal	$10.75	550		550			890	$9,567.50
OPTI WET	gal	$8.34	495		495			450	$3,753.00
NEW PHALT	50# sk	$38.72	55		55			85	$3,291.20
NEWCARB 200	50# sk	$5.25	15		15			171	$897.75
MAGMAFIBER F (25)	25# sk	$28.05						30	$841.50
NEWCARB 100	each	$5.37						50	$268.50
OIL SORB (25)	25# sk	$4.75	28		28			22	$104.50
CYBERSEAL	each	$21.47	120		120			240	$5,152.80
NEW-WATE (SACK BARITE)	100# sk	$11.50	160		160				
BARITE BULK (100)	100# sk	$7.00	1200		1200			1175	$8,225.00
DYNA FIBER MED.	each	$53.67	120		120			45	$2,415.15
FIBER PLUG	each	$30.37	25		25			5	$151.85
MAGMAFIBER R (30)	30# sk	$28.05	80		80				
OPTI DRILL (OBM)	bbl	$65.00	3406		3299	107	$6,955.00	3734	$242,710.00
MAGNOLIA OBM	bbl							166	
DISCOUNTED OBM	bbl	$15.00	291		291			1112	$16,680.00
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						4068	$4,068.00
SCALE TICKET		$15.00						3	$45.00
TRUCKING (cwt)	each	$2.50						1930	$4,824.05
TRUCKING (min)	each	$795.00						1	$795.00
PALLETS (ea)	each	$12.00						39	$468.00
SHRINK WRAP (ea)	each	$12.00						37	$444.00
		Daily Sub-Total $8,865.00			**Cumulative Total $368,351.07**			**$368,351.07**	

THIRD PARTY COST SHEET

Date	Operator	Well Name and No.	Rig Name and No.	Report No.
06/20/20	MAGNOLIA OIL & GAS	LEVI GOODRICH U2 - 3H	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 Transfer from 2H	gal	$0.91								
Diesel Transfer from Grand Canyon A - 1H	gal	$0.87							2000	$1,740.00
Diesel transfer from Grand Canyon A - 1H	gal	$0.96							7199	$6,911.04
Diesel 5/6/20	gal	$0.90							2159	$1,943.10
DIESEL TRANSFER FROM 2H	gal	$1.16							7872	$9,131.52
DIESEL 6/10/20	gal	$1.22							7400	$9,028.00
Diesel 6_11_20	gal	$1.26							7399	$9,322.74
DIESEL 6/12/20	gal	$1.28							7400	$9,472.00
DIESEL 6/12/20	gal	$1.28							7400	$9,472.00
DIESEL 6/14/29	gal	$1.21							7200	$8,712.00
Diesel 6_15_20	gal	$1.20							7431	$8,917.20
DIESEL 6/16/20	gal	$1.22							7200	$8,784.00
DIESEL 6/16/20	gal	$1.22							7400	$9,028.00
DIESEL 6/17/20	gal	$1.30	872			872	$1,133.60		7005	$9,106.50
DIESEL 6/17/20	gal	$1.30	2200		2200					
DIESEL 6/18/20	gal	$1.30	7200		7200					
TURBO CHEM FIRST RESPONSE	each	$41.75	130		130				400	$16,700.00
						Daily Sub-Total	$1,133.60			$118,268.10

Cumulative Total AES & 3rd Party $486,619.17

OUTSOURCE FLUID SOLUTIONS LLC.

FLUID VOLUME ACCOUNTING

Operator:	MAGNOLIA OIL & GAS
Rig Name:	248
Well Name:	LEVI GOODRICH U2 - 3H

		WEEK 1							WEEK 2							WEEK 3						
	Date	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	6/20/20	6/21/20	6/22/20	6/23/20	6/24/20	6/25/20	6/26/20	6/27/20
		Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat
	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	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4							
Grand Totals	Starting Depth	10,245	10,245	10,245	10,311	12,303	14,073	15,359	16,272	16,365	16,620	16,620	16,620	17,130	18,039	18,039						
	Ending Depth	10,245	10,245	10,311	12,303	14,073	15,359	16,272	16,365	16,620	16,620	16,620	17,130	18,039	18,039							
7,794	Footage Drilled	-	-	66	1,992	1,770	1,286	913	93	255	-	-	510	909	-	-	-	-	-	-	-	-
345	New Hole Vol.	-	-	3	88	78	57	40	4	11	-	-	23	40	-	-	-	-	-	-	-	-
	Starting System Volume	470	2,440	2,929	2,908	2,755	2,546	2,601	3,081	3,111	2,769	2,978	3,511	3,332	3,697	3,590	3,590	3,590	3,590	3,590	3,590	3,590
101	Chemical Additions	-	-	9	12	11	16	17	1	7	1	10	3	14	-							
1,614	Base Fluid Added	-	-	12	55	205	218	209	40	156	88	422	67	122	21							
63	Barite Increase	-	-	-	-			17	32				14	-	-							
8,115	Weighted Mud Added	1,970	489	-	-		407	811	530	565	799	1,004	762	778	-							
-	Slurry Added	-	-	-	-								-	-	-							
626	Water Added	-	-	-	50	102	100	100	17	42	20	85	10	100	-							
10	Added for Washout	-	-	-	-							10	-	-	-							
10,529	Total Additions	1,970	489	20	116	318	741	1,154	620	770	908	1,531	856	1,014	21	-	-	-	-	-	-	-
309	Surface Losses	-	-	8	-	36	35	35	5	15	25	40	65	45	-							
6,541	Formation Loss	-	-	-	150	378	563	568	577	1,066	673	928	948	563	128							
356	Mud Loss to Cuttings	-	-	3	92	82	58	41	4	12		-	23	41	-							
30	Unrecoverable Volume	-	-	30	-								-	-	-							
173	Centrifuge Losses	-	-	-	28	30	30	30	5	20		30	-	-	-							
7,409	Total Losses	-	-	41	270	526	686	674	591	1,112	698	998	1,036	649	128	-	-	-	-	-	-	-
-	Mud Transferred Out	-	-	-																		
3,590	Ending System Volume	2,440	2,929	2,908	2,755	2,546	2,601	3,081	3,111	2,769	2,978	3,511	3,332	3,697	3,590	3,590	3,590	3,590	3,590	3,590	3,590	3,590
-	Mud Recovered																					

8,585

Comments:		Comments:		Comments:	
6/7/20	TRANSFER FROM 2H.	6/14/20		6/21/20	
6/8/20	Testing and repair to BOP's. Received 489bbls 10.9# Discounted mud.	6/15/20		6/22/20	
6/9/20	TIH, FIT 13emw / 1600psi. Drilling ahead on Curve section.	6/16/20		6/23/20	
6/10/20	Drilling on lateral section. Well taking mud after 11400'. Lower MW to 9.6ppg. Adding LCM to active system First response/Cyberseal/newcarb 3 sxs ea.	6/17/20		6/24/20	
6/11/20		6/18/20	Resume drilling. Well continues to take mud.	6/25/20	
6/12/20		6/19/20	Drilled to TD 18039', circulate 3 sweeps out of hole. Wash & Ream up to 16300', circulate BU and spot 240bbls of 30ppb LCM sweep outside bit. Continue POOH to the shoe.	6/26/20	
6/13/20		6/20/20	POOH lay down BHA. Running 5" production casing in the hole.@7100 lost displacement. Circulate BU and lost 45bbls. Install rotating head and resume Stripping in the hole with Casing.	6/27/20	

6/20/2020 **Report 20 pm**

110 Old Market St.
St Martinville, LA 70582

TEL: (337) 394-1078

21.4° **10,163' TVD**

Operator	Contractor	County / Parish / Block	Engineer Start Date	24 hr ftg.	Drilled Depth
MAGNOLIA OIL & GAS	**PATTERSON**	**WASHINGTON**	**04/27/20**		**18,039 ft**
Well Name and No.	Rig Name and No.	State	Spud Date	Current ROP	Activity
LEVI GOODRICH U2 - 3H	**248**	**TEXAS**	**04/27/20**		**Run Prod Csg**
Report for	Report for	Field / OSC-G #	Fluid Type	Circulating Rate	Circulating Pressure
JAMES DYER / BOBBY GWIN	**Tool Pusher**	**GIDDINGS**	**OBM**		**2,200 psi**

MUD PROPERTY SPECIFICATIONS						
Weight	PV	YP	E.S.	CaCl2	GELS	HTHP
8.5-10.2	**8-20**	**5-12**	**>300**	**±260K**	**<10 <25**	**<10**

MUD PROPERTIES				
Time Sample Taken		2:00		14:00
Sample Location		suction		suction
Flowline Temperature °F		100 °F		
Depth (ft)		18,039'		18,039'
Mud Weight (ppg)		8.9		8.9
Funnel Vis (sec/qt)	@ 108 °F	41		40
600 rpm		28		27
300 rpm		18		18
200 rpm		15		16
100 rpm		9		10
6 rpm		5		6
3 rpm		4		5
Plastic Viscosity (cp)	@ 150 °F	10		9
Yield Point (lb/100 ft²)	T0 = 3	8		9
Gel Strength (lb/100 ft²)	10 sec / 10 min	5/10		5/11
Gel Strength (lb/100 ft2)	30 min	13		12
HTHP Filtrate (cm/30 min)	@ 250 °F	8.0		8.2
HTHP Cake Thickness (32nds)		2.0		2.0
Retort Solids Content		8%		8%
Corrected Solids (vol%)		6.2%		6.2%
Retort Oil Content		72%		72%
Retort Water Content		20%		20%
O/W Ratio		78:22		78:22
Whole Mud Chlorides (mg/L)		44,000		45,000
Water Phase Salinity (ppm)		256,494		260,803
Whole Mud Alkalinity, Pom		1.5		1.4
Excess Lime (lb/bbl)		2 ppb		1.8 ppb
Electrical Stability (volts)		444 v		435 v
Average Specific Gravity of Solids		3.11		3.09
Percent Low Gravity Solids		3.5%		3.6%
ppb Low Gravity Solids		29 ppb		30 ppb
Percent Barite		2.7%		2.6%
ppb Barite		39 ppb		38 ppb
Estimated Total LCM in System				
Sample Taken By		A Roman		M Washburn

MUD VOLUME (BBL)		PUMP #1		PUMP #2		RISER BOOSTER
In Pits	770 bbl	Liner Size	5.25	Liner Size	5.25	Liner Size
In Hole	751 bbl	Stroke	12	Stroke	12	Stroke
Active	1167 bbl	bbl/stk	0.0763	bbl/stk	0.0763	bbl/stk
Storage	1973 bbl	stk/min		stk/min		stk/min
Tot. on Location	3494 bbl	gal/min		gal/min		gal/min

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

Bit Depth = 10,194 ' | Washout = 1% | Pump Efficiency = 95%

Drill String Disp.	Volume to Bit	191.2 bbl	Strokes To Bit	Time To Bit
	Bottoms Up Vol.	205.4 bbl	BottomsUp Stks	BottomsUp Time
71.5 bbl	TotalCirc.Vol.	1166.6 bbl	TotalCirc.Stks	Total Circ. Time

DRILLING ASSEMBLY DATA

Tubulars	OD (in.)	ID (in.)	Length	Top
Casing	5.500	4.670	2,953'	
Casing	5.000	4.276	7,241'	2,953'
				10,194'
				10,194'

CASING & HOLE DATA

Casing	OD (in.)	ID (in.)	Depth	Top
Riser				
Surface	10 3/4		2,989'	
Int. Csg.	7 5/8	6.875	10,237'	
Open Hole Size		6.818	18,039'	

ANNULAR GEOMETRY & RHEOLOGY

annular section	depth	velocity ft/min	flow reg	ECD lb/gal
6.875x5.5	2,953'		lam	8.90
6.875x5	10,194'		lam	8.90

BIT DATA

Size	Manuf./Type	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	3590.1
Transferred In(+)/Out(-)	
Oil Added (+)	
Barite Added (+)	
Other Product Usage (+)	
Water Added (+)	
Left on Cuttings (-)	
Evap/ Trips/ Cent	
Formation losses	
Est. Total on Location	3590.1
Est. Losses/Gains (-)/(+)	-96.2

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
	#DIV/0!

Afternoon Remarks/Recommendations:

Afternoon Rig Activity:

Pick up and run 5" prouction casing to 8000, circulate bottoms up thru choke and gas buster, maximum mud cut from 9.0 to 8.7 with 600 units gas, lost 38 bbls to formation. Run 5" casing to 8562 change to 5-1/2" casing run to 9000, circulate bottoms up thru choke and gas buster, max mud cut 8.7, 500 units gas, lost 30 bbls downhole. Run casing to 10194, circulate B/U thru choke and gas buster, max gas cut from 8.9 to 8.7, 450 units, lost 8 bbls downhole, at time of report continue to stage in the hole.

06/22/20 **Report #22**

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**	**04/27/20**	**0 ft**	**18,019 ft**
Well Name and No.	Rig Name and No.	State	Spud Date	Current ROP	Activity
LEVI GOODRICH U2 - 3H	**248**	**TEXAS**	**04/27/20**	**0 ft/hr**	**Cement /skid Rig**
Report for	Report for	Field / OCS-G #	Fluid Type	Circulating Rate	Circulating Pressure
JAMES DYER / BOBBY GWIN	**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	
8.5-10.2	**8-20**	**5-12**	**>300**	**±260K**	**<10 <25**	**<10**	In Hole	0 bbl	Stroke	12	Stroke	12	Stroke	
				6/22/20		6/21/20	Active	0 bbl	bbl/stk	0.0763	bbl/stk	0.0763	bbl/stk	0.0000
Time Sample Taken				2:00		11:00	Storage	0 bbl	stk/min	0	stk/min	0	stk/min	
Sample Location				suction		suction	Tot. on Location	0 bbl	gal/min	0	gal/min	0	gal/min	0
Flowline Temperature °F						110 °F	PHHP = 0		**CIRCULATION DATA**				n = 0.667	K = 135.006
Depth (ft)				18,019'		18,059'	Bit Depth = '		Washout = 0%		Pump Efficiency = 95%			
Mud Weight (ppg)				9.0		9.0	Drill String Disp.	Volume to Bit 0.0 bbl	Strokes To Bit		Time To Bit			
Funnel Vis (sec/qt)			@ 98 °F	40		41		Bottoms Up Vol. 0.0 bbl	BottomsUp Stks		BottomsUp Time			
600 rpm				27		26	0.0 bbl	TotalCirc.Vol. 0.0 bbl	TotalCirc.Stks		Total Circ. Time			
300 rpm				17		17	**DRILLING ASSEMBLY DATA**				**SOLIDS CONTROL**			
200 rpm				14		14	Tubulars	OD (in.) ID (in.)	Length	Top	Unit	Screens	Hours	
100 rpm				9		10			0'	0'	Shaker 1	170	15.0	
6 rpm				5		5				0'	Shaker 2	170	15.0	
3 rpm				4		4				0'	Shaker 3	170	15.0	
Plastic Viscosity (cp)			@ 150 °F	10		9				0'	Centrifuge 1			
Yield Point (lb/100 ft²)			T0 = 3	7		8	**CASING & HOLE DATA**							
Gel Strength (lb/100 ft²)			10 sec/10 min	5/9		5/10	Casing	OD (in.) ID (in.)	Depth	Top				
Gel Strength (lb/100 ft^2)			30 min	12		12	Riser				**VOLUME ACCOUNTING (bbls)**			
HTHP Filtrate (cm/30 min)			@ 250 °F	8.0		8.0	Surface	10 3/4	2,989'	0'	Prev. Total on Location			3201.2
HTHP Cake Thickness (32nds)				2.0		2.0	Int. Csg.	7 5/8	10,237'	0'	Transferred In(+)/Out(-)			-2840.0
Retort Solids Content				9%		8%	Prod.	5 1/2	9,515'	0'	Oil Added (+)			26.1
Corrected Solids (vol%)				7.2%		6.3%	Prod.	5	18,019'	9,515'	Barite Added (+)			0.0
Retort Oil Content				71%		72%	Open Hole Size	0.000	18,019'		Other Product Usage (+)			0.0
Retort Water Content				20%		20%	**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)				44,000		44,500						Csg. Run / Circulation		-204.0
Water Phase Salinity (ppm)				256,494		258,654						Lost OBM on Cement job		-183.3
Whole Mud Alkalinity, Pom				1.4		1.4						Est. Total on Location		0.0
Excess Lime (lb/bbl)				1.8 ppb		1.8 ppb						Est. Losses/Gains (-)/(+)		0.0
Electrical Stability (volts)				400 v		435 v						**BIT HYDRAULICS DATA**		
Average Specific Gravity of Solids				2.96		3.29						Bit H.S.I.	Bit ΔP	Nozzles (32nds)
Percent Low Gravity Solids				4.7%		2.9%								
ppb Low Gravity Solids				39 ppb		24 ppb						Bit Impact Force	Nozzle Velocity (ft/sec)	
Percent Barite				2.5%		3.3%								
ppb Barite				36 ppb		48 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								

Remarks/Recommendations:

OBM REC. --8585 bbls Daily Rec --bbls

OBM on Surface _2,840-bbls (storage + Active)

OBM Daily Gain / Loss (--387bbls) / Total G/L (-6,411-bbls)

Kill mud& New Build: 408bbls-14.5# --1230bbls-9# $65.00/bbl

Discounted OBM: 260 bbl_11.0# _$15.00/bbl

Rig Activity:

Finish casing run to 18,019'. Set casing and circulate 14567stks. With back side gas free, transfer operations to Cementing casing. Pump Cement: 50bbl Spacer (9.5#); 257bbl Cement (13.5#); Displace with 351bbls of fresh water. Bump plug 1000psi over lift pressure, chek floats and procced to set pack off and secure well prior to Nipple down. OBM lost on last 5100' of csg run and circulation prior to cement (-204bbls). OBM lost while cementing (-183bbls). Total losses for this well (-6411bbls). Reconcile all chemicals and OBM to be transfer to next well (Grand Canyon A-1H). LAST REPORT FOR THIS WELL. THANK YOU.

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

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

	Daily Total	Cumulative Cost
	$25,825.00	**$421,580.87**
INCLUDING 3RD PARTY CHARGES	**$27,249.80**	**$541,273.77**

OUTSOURCE FLUID SOLUTIONS LLC.

MATERIAL CONSUMPTION

Date	Operator	Well Name and No.	Rig Name and No.	Report No.
06/22/20	MAGNOLIA OIL & GAS	LEVI GOODRICH U2 - 3H	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						2	$325.66
SAPP (50)	50# sk	$44.50						40	$1,780.00
PHPA LIQUID (pail)	5 gal	$41.36	88	-88				2	$82.72
DYNA DET	pail	$32.23						8	$257.84
EVO-LUBE	gal	$9.31	975	-975					
GEL (100)	100# sk	$10.00	70	-70					
BENTONE 38 (50)	50# sk	$163.94	50	-50				50	$8,197.00
CACL2 (50)	50# sk	$14.32	224	-224				390	$5,584.80
LIME (50)	50# sk	$5.00	210	-210				350	$1,750.00
BENTONE 910 (50)	50# sk	$59.94	1	-1				33	$1,978.02
BENTONE 990 (50)	50# sk	$83.59	53	-53				62	$5,182.58
OPTI G	50# sk	$30.59	175	-175				135	$4,129.65
OPTI MUL HP	gal	$10.75	550	-550				890	$9,567.50
OPTI WET	gal	$8.34	495	-495				450	$3,753.00
NEW PHALT	50# sk	$38.72	55	-55				85	$3,291.20
NEWCARB 200	50# sk	$5.25	15	-15				171	$897.75
MAGMAFIBER F (25)	25# sk	$28.05						30	$841.50
NEWCARB 100	each	$5.37						50	$268.50
OIL SORB (25)	25# sk	$4.75	28	-28				22	$104.50
CYBERSEAL	each	$21.47	120	-120				240	$5,152.80
NEW-WATE (SACK BARITE)	100# sk	$11.50	160	-160					
BARITE BULK (100)	100# sk	$7.00	1000	-1000				1375	$9,625.00
DYNA FIBER MED.	each	$53.67	120	-120				45	$2,415.15
FIBER PLUG	each	$30.37	15	-15				15	$455.55
MAGMAFIBER R (30)	30# sk	$28.05	78	-78				2	$56.10
OPTI DRILL (OBM)	bbl	$65.00	2941	-2580		361	$23,465.00	4453	$289,445.00
MAGNOLIA OBM	bbl							166	
DISCOUNTED OBM	bbl	$15.00	260	-260				1143	$17,145.00
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				450	$450.00	4518	$4,518.00
SCALE TICKET		$15.00						3	$45.00
TRUCKING (cwt)	each	$2.50						1930	$4,824.05
TRUCKING (min)	each	$795.00						1	$795.00
PALLETS (ea)	each	$12.00						39	$468.00
SHRINK WRAP (ea)	each	$12.00						37	$444.00
		Daily Sub-Total $25,825.00			**Cumulative Total $421,580.87**			**$421,580.87**	

THIRD PARTY COST SHEET

Date	Operator	Well Name and No.	Rig Name and No.	Report No.
06/22/20	MAGNOLIA OIL & GAS	LEVI GOODRICH U2 - 3H	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 Transfer from 2H	gal	$0.91							
Diesel Transfer from Grand Canyon A - 1H	gal	$0.87						2000	$1,740.00
Diesel transfer from Grand Canyon A - 1H	gal	$0.96						7199	$6,911.04
Diesel 5/6/20	gal	$0.90						2159	$1,943.10
DIESEL TRANSFER FROM 2H	gal	$1.16						7872	$9,131.52
DIESEL 6/10/20	gal	$1.22						7400	$9,028.00
Diesel 6_11_20	gal	$1.26						7399	$9,322.74
DIESEL 6/12/20	gal	$1.28						7400	$9,472.00
DIESEL 6/12/20	gal	$1.28						7400	$9,472.00
DIESEL 6/14/29	gal	$1.21						7200	$8,712.00
Diesel 6_15_20	gal	$1.20						7431	$8,917.20
DIESEL 6/16/20	gal	$1.22						7200	$8,784.00
DIESEL 6/16/20	gal	$1.22						7400	$9,028.00
DIESEL 6/17/20	gal	$1.30						7005	$9,106.50
DIESEL 6/17/20	gal	$1.30	2200	-1104		1096	$1,424.80	1096	$1,424.80
DIESEL 6/18/20	gal	$1.30	7200	-7200					
TURBO CHEM FIRST RESPONSE	each	$41.75	130	-130				400	$16,700.00
					Daily Sub-Total $1,424.80			$119,692.90	

Cumulative Total AES & 3rd Party $541,273.77

OUTSOURCE FLUID SOLUTIONS LLC.

FLUID VOLUME ACCOUNTING

Operator:	MAGNOLIA OIL & GAS
Rig Name:	248
Well Name:	LEVI GOODRICH U2 - 3H

		WEEK 1							WEEK 2							WEEK 3						
	Date	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	6/20/20	6/21/20	6/22/20	6/23/20	6/24/20	6/25/20	6/26/20	6/27/20
		Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat
	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	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	10,245	10,245	10,245	10,311	12,303	14,073	15,359	16,272	16,365	16,620	16,620	16,620	17,130	18,039	18,039	18,039	18,019				
	Ending Depth	10,245	10,245	10,311	12,303	14,073	15,359	16,272	16,365	16,620	16,620	16,620	17,130	18,039	18,039	18,039	18,019					
7,794	Footage Drilled	-	-	66	1,992	1,770	1,286	913	93	255	-	-	510	909	-	-	-	-	-	-	-	-
345	New Hole Vol.	-	-	3	88	78	57	40	4	11	-	-	23	40	-	-	-	-	-	-	-	-
	Starting System Volume	470	2,440	2,929	2,908	2,755	2,546	2,601	3,081	3,111	2,769	2,978	3,511	3,332	3,697	3,590	3,201	(0)	(0)	(0)	(0)	(0)
101	Chemical Additions	-	-	9	12	11	16	17	1	7	1	10	3	14	-	-	-					
1,640	Base Fluid Added	-	-	12	55	205	218	209	40	156	88	422	67	122	21	-	26					
77	Barite Increase	-	-	-	-			17	32				14	-	-	14	-					
8,115	Weighted Mud Added	1,970	489	-	-		407	811	530	565	799	1,004	762	778	-	-	-					
-	Slurry Added	-	-	-	-								-	-	-	-	-					
626	Water Added	-	-	-	50	102	100	100	17	42	20	85	10	100	-	-	-					
10	Added for Washout	-	-	-	-							10	-	-	-	-	-					
10,569	Total Additions	1,970	489	20	116	318	741	1,154	620	770	908	1,531	856	1,014	21	14	26	-	-	-	-	-
309	Surface Losses	-	-	8	-	36	35	35	5	15	25	40	65	45	-	-	-					
7,331	Formation Loss	-	-	-	150	378	563	568	577	1,066	673	928	948	563	128	403	387					
356	Mud Loss to Cuttings	-	-	3	92	82	58	41	4	12		-	23	41	-	-	-					
30	Unrecoverable Volume	-	-	30	-								-	-	-	-	-					
173	Centrifuge Losses	-	-	-	28	30	30	30	5	20		30	-	-	-	-	-					
8,199	Total Losses	-	-	41	270	526	686	674	591	1,112	698	998	1,036	649	128	403	387	-	-	-	-	-
2,840	Mud Transferred Out	-	-	-													2,840					
(0)	Ending System Volume	2,440	2,929	2,908	2,755	2,546	2,601	3,081	3,111	2,769	2,978	3,511	3,332	3,697	3,590	3,201	(0)	(0)	(0)	(0)	(0)	(0)
-	Mud Recovered																					

	Comments:		Comments:		Comments:	
	6/7/20	TRANSFER FROM 2H.	6/14/20		6/21/20	Running production casing in the hole.Ciculate every 500' after 10,000. continue to loose mud to formation.402bbls
5,745	6/8/20	Testing and repair to BOP's. Received 489bbls 10.9# Discounted mud.	6/15/20		6/22/20	Casing on bottom, Circulate gas out (Lost 204bbls) Cement same with losses of 183bbls. Last report for this well.
	6/9/20	TIH, FIT 13emw / 1600psi. Drilling ahead on Curve section.	6/16/20		6/23/20	
	6/10/20	Drilling on lateral section. Well taking mud after 11400'. Lower MW to 9.6ppg. Adding LCM to active system First response/Cyberseal/newcarb 3 sxs ea.	6/17/20		6/24/20	
	6/11/20		6/18/20	Resume drilling. Well continues to take mud.	6/25/20	
	6/12/20		6/19/20	Drilled to TD 18039', circulate 3 sweeps out of hole. Wash & Ream up to 16300', circulate BU and spot 240bbls of 30ppb LCM sweep outside bit. Continue POOH to the shoe.	6/26/20	
	6/13/20		6/20/20	POOH lay down BHA. Running 5" production casing in the hole.@7100 lost displacement. Circulate BU and lost 45bbls. Install rotating head and resume Stripping in the hole with Casing.	6/27/20	

06/21/20 **Report #21**

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

OUTSOURCE FLUID SOLUTIONS LLC.

93.1° **10,488' TVD**

Operator	Contractor	County / Parish / Block	Engineer Start Date	24 hr ftg.	Drilled Depth
MAGNOLIA OIL & GAS	**PATTERSON**	**WASHINGTON**	**04/27/20**	**0 ft**	**18,039 ft**
Well Name and No.	Rig Name and No.	State	Spud Date	Current ROP	Activity
LEVI GOODRICH U2 - 3H	**248**	**TEXAS**	**04/27/20**	**0 ft/hr**	**Run Prod Csg**
Report for	Report for	Field / OCS-G #	Fluid Type	Circulating Rate	Circulating Pressure
JAMES DYER / BOBBY GWIN	**Tool Pusher**	**GIDDINGS**	**OBM**	**160 gpm**	**581 psi**

MUD PROPERTY SPECIFICATIONS						
Weight	PV	YP	E.S.	CaCl2	GELS	HTHP
8.5-10.2	**8-20**	**5-12**	**>300**	**±260K**	**<10 <25**	**<10**
				6/21/20		6/20/20
Time Sample Taken				2:00		14:00
Sample Location				suction		suction
Flowline Temperature °F				100 °F		
Depth (ft)				12,897'		18,039'
Mud Weight (ppg)				9.0		8.9
Funnel Vis (sec/qt)			@ 90 °F	40		40
600 rpm				27		27
300 rpm				17		18
200 rpm				14		16
100 rpm				9		10
6 rpm				5		6
3 rpm				4		5
Plastic Viscosity (cp)			@ 150 °F	10		9
Yield Point (lb/100 ft²)			T0 = 3	7		9
Gel Strength (lb/100 ft²)			10 sec/10 min	5/9		5/11
Gel Strength (lb/100 ft²)			30 min	12		12
HTHP Filtrate (cm/30 min)			@ 250 °F	8.0		8.2
HTHP Cake Thickness (32nds)				2.0		2.0
Retort Solids Content				9%		8%
Corrected Solids (vol%)				7.2%		6.2%
Retort Oil Content				71%		72%
Retort Water Content				20%		20%
O/W Ratio				78:22		78:22
Whole Mud Chlorides (mg/L)				44,000		45,000
Water Phase Salinity (ppm)				256,494		260,803
Whole Mud Alkalinity, Pom				1.4		1.4
Excess Lime (lb/bbl)				1.8 ppb		1.8 ppb
Electrical Stability (volts)				400 v		435 v
Average Specific Gravity of Solids				2.96		3.09
Percent Low Gravity Solids				4.7%		3.6%
ppb Low Gravity Solids				39 ppb		30 ppb
Percent Barite				2.5%		2.6%
ppb Barite				36 ppb		38 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	805 bbl	Liner Size	5.25	Liner Size	5.25	Liner Size	
In Hole	726 bbl	Stroke	12	Stroke	12	Stroke	
Active	1313 bbl	bbl/stk	0.0763	bbl/stk	0.0763	bbl/stk	0.0000
Storage	1670 bbl	stk/min	0	stk/min	50	stk/min	
Tot. on Location	3201 bbl	gal/min	0	gal/min	160	gal/min	0

PHHP = 54 **CIRCULATION DATA** n = 0.667 K = 135.006

Bit Depth = 13,200 ' Washout = 1% Pump Efficiency = 95%

Drill String Disp.							
96.1 bbl	Volume to Bit	254.9 bbl	Strokes To Bit	3,340	Time To Bit	67 min
	Bottoms Up Vol.	252.9 bbl	BottomsUp Stks	3,314	BottomsUp Time	66 min
	TotalCirc.Vol.	1312.7 bbl	TotalCirc.Stks	17,203	Total Circ. Time	344 min

DRILLING ASSEMBLY DATA

Tubulars	OD (in.)	ID (in.)	Length	Top
Casing	5.500	4.670	5,959'	0'
Casing	5.000	4.276	7,241'	5,959'
				13,200'
				13,200'

CASING & HOLE DATA

Casing	OD (in.)	ID (in.)	Depth	Top
Riser				
Surface	10 3/4		2,989'	0'
Int. Csg.	7 5/8	6.875	10,237'	0'
Open Hole Size		6.818	18,039'	

ANNULAR GEOMETRY & RHEOLOGY

annular section	meas. depth	velocity ft/min	flow reg	ECD lb/gal
6.875x5.5	5,959'	230.8	turb	9.70
6.875x5	10,237'	176.4	lam	9.59
6.818x5	13,200'	182.8	lam	9.70

BIT DATA Manuf./Type

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

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	3590.1
Transferred In(+)/Out(-)	
Oil Added (+)	0.0
Barite Added (+)	13.9
Other Product Usage (+)	0.1
Water Added (+)	
Left on Cuttings (-)	0.0
Evap/ Trips/ Cent	
Formation losses	-402.8
Est. Total on Location	3201.3
Est. Losses/Gains (-)/(+)	0.0

BIT HYDRAULICS DATA

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

Motor/MWD	Calc. Circ. Pressure

Remarks/Recommendations:

OBM REC. --8585 bbls Daily Rec --bbls

OBM on Surface _2,475-bbls (storage + Active)

OBM Daily Gain / Loss (-403bbls) / Total G/L (-6,024-bbls)

Kill mud& New Build: 408bbls-14.5# --1002bbls-9# $65.00/bbl

Discounted OBM: 260 bbl_11.0# _$15.00/bbl

Rig Activity:

Continue running producion casing in the hole, Circulating every 500' after 8000', down to 12900'. OBM lost while circulating as follows: 8000'-56bbl / 9000'-73bbl / 10100'-19bbl / 10700'-57bbl / 11200'-95bbl / 11767'-127bbl / 12330'-154bbl / 12900'-90bbl. After 12900' call was made to continue Running casing to bottom, pausing for fill up and continue. Transfer OBM from storage to active to maintain Volume in the system. At this time casing shoe passing 13200'.

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

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

	Daily Total	Cumulative Cost
	$27,404.80	**$395,755.87**
INCLUDING 3RD PARTY CHARGES	**$27,404.80**	**$514,023.97**

OUTSOURCE FLUID SOLUTIONS LLC.

MATERIAL CONSUMPTION

Date	Operator	Well Name and No.	Rig Name and No.	Report No.
06/21/20	MAGNOLIA OIL & GAS	LEVI GOODRICH U2 - 3H	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						2	$325.66
SAPP (50)	50# sk	$44.50						40	$1,780.00
PHPA LIQUID (pail)	5 gal	$41.36	88		88			2	$82.72
DYNA DET	pail	$32.23						8	$257.84
EVO-LUBE	gal	$9.31	975		975				
GEL (100)	100# sk	$10.00	70		70				
BENTONE 38 (50)	50# sk	$163.94	50		50			50	$8,197.00
CACL2 (50)	50# sk	$14.32	224		224			390	$5,584.80
LIME (50)	50# sk	$5.00	210		210			350	$1,750.00
BENTONE 910 (50)	50# sk	$59.94	1		1			33	$1,978.02
BENTONE 990 (50)	50# sk	$83.59	53		53			62	$5,182.58
OPTI G	50# sk	$30.59	175		175			135	$4,129.65
OPTI MUL HP	gal	$10.75	550		550			890	$9,567.50
OPTI WET	gal	$8.34	495		495			450	$3,753.00
NEW PHALT	50# sk	$38.72	55		55			85	$3,291.20
NEWCARB 200	50# sk	$5.25	15		15			171	$897.75
MAGMAFIBER F (25)	25# sk	$28.05						30	$841.50
NEWCARB 100	each	$5.37						50	$268.50
OIL SORB (25)	25# sk	$4.75	28		28			22	$104.50
CYBERSEAL	each	$21.47	120		120			240	$5,152.80
NEW-WATE (SACK BARITE)	100# sk	$11.50	160		160				
BARITE BULK (100)	100# sk	$7.00	1200		1000	200	$1,400.00	1375	$9,625.00
DYNA FIBER MED.	each	$53.67	120		120			45	$2,415.15
FIBER PLUG	each	$30.37	25		15	10	$303.70	15	$455.55
MAGMAFIBER R (30)	30# sk	$28.05	80		78	2	$56.10	2	$56.10
OPTI DRILL (OBM)	bbl	$65.00	3299		2941	358	$23,270.00	4092	$265,980.00
MAGNOLIA OBM	bbl							166	
DISCOUNTED OBM	bbl	$15.00	291		260	31	$465.00	1143	$17,145.00
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						4068	$4,068.00
SCALE TICKET		$15.00						3	$45.00
TRUCKING (cwt)	each	$2.50						1930	$4,824.05
TRUCKING (min)	each	$795.00						1	$795.00
PALLETS (ea)	each	$12.00						39	$468.00
SHRINK WRAP (ea)	each	$12.00						37	$444.00
		Daily Sub-Total $27,404.80			**Cumulative Total $395,755.87**			**$395,755.87**	

THIRD PARTY COST SHEET

Date	Operator	Well Name and No.	Rig Name and No.	Report No.
06/21/20	MAGNOLIA OIL & GAS	LEVI GOODRICH U2 - 3H	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 Transfer from 2H	gal	$0.91							
Diesel Transfer from Grand Canyon A - 1H	gal	$0.87						2000	$1,740.00
Diesel transfer from Grand Canyon A - 1H	gal	$0.96						7199	$6,911.04
Diesel 5/6/20	gal	$0.90						2159	$1,943.10
DIESEL TRANSFER FROM 2H	gal	$1.16						7872	$9,131.52
DIESEL 6/10/20	gal	$1.22						7400	$9,028.00
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DIESEL 6/12/20	gal	$1.28						7400	$9,472.00
DIESEL 6/12/20	gal	$1.28						7400	$9,472.00
DIESEL 6/14/29	gal	$1.21						7200	$8,712.00
Diesel 6_15_20	gal	$1.20						7431	$8,917.20
DIESEL 6/16/20	gal	$1.22						7200	$8,784.00
DIESEL 6/16/20	gal	$1.22						7400	$9,028.00
DIESEL 6/17/20	gal	$1.30						7005	$9,106.50
DIESEL 6/17/20	gal	$1.30	2200		2200				
DIESEL 6/18/20	gal	$1.30	7200		7200				
TURBO CHEM FIRST RESPONSE	each	$41.75	130		130			400	$16,700.00
									$118,268.10

Cumulative Total AES & 3rd Party $514,023.97

OUTSOURCE FLUID SOLUTIONS LLC.

FLUID VOLUME ACCOUNTING

Operator:	MAGNOLIA OIL & GAS
Rig Name:	248
Well Name:	LEVI GOODRICH U2 - 3H

		WEEK 1							WEEK 2							WEEK 3						
	Date	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	6/20/20	6/21/20	6/22/20	6/23/20	6/24/20	6/25/20	6/26/20	6/27/20
		Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat
	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	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4	6 3/4							
Grand Totals	Starting Depth	10,245	10,245	10,245	10,311	12,303	14,073	15,359	16,272	16,365	16,620	16,620	16,620	17,130	18,039	18,039	18,039					
	Ending Depth	10,245	10,245	10,311	12,303	14,073	15,359	16,272	16,365	16,620	16,620	16,620	17,130	18,039	18,039	18,039						
7,794	Footage Drilled	-	-	66	1,992	1,770	1,286	913	93	255	-	-	510	909	-	-	-	-	-	-	-	-
345	New Hole Vol.	-	-	3	88	78	57	40	4	11	-	-	23	40	-	-	-	-	-	-	-	-
	Starting System Volume	470	2,440	2,929	2,908	2,755	2,546	2,601	3,081	3,111	2,769	2,978	3,511	3,332	3,697	3,590	3,201	3,201	3,201	3,201	3,201	3,201
101	Chemical Additions	-	-	9	12	11	16	17	1	7	1	10	3	14	-	-						
1,614	Base Fluid Added	-	-	12	55	205	218	209	40	156	88	422	67	122	21	-						
77	Barite Increase	-	-	-	-			17	32				14	-	-	14						
8,115	Weighted Mud Added	1,970	489	-	-		407	811	530	565	799	1,004	762	778	-	-						
-	Slurry Added	-	-	-	-								-	-	-	-						
626	Water Added	-	-	-	50	102	100	100	17	42	20	85	10	100	-	-						
10	Added for Washout	-	-	-	-							10	-	-	-	-						
10,543	Total Additions	1,970	489	20	116	318	741	1,154	620	770	908	1,531	856	1,014	21	14	-	-	-	-	-	-
309	Surface Losses	-	-	8	-	36	35	35	5	15	25	40	65	45	-	-						
6,944	Formation Loss	-	-	-	150	378	563	568	577	1,066	673	928	948	563	128	403						
356	Mud Loss to Cuttings	-	-	3	92	82	58	41	4	12		-	23	41	-	-						
30	Unrecoverable Volume	-	-	30	-								-	-	-	-						
173	Centrifuge Losses	-	-	-	28	30	30	30	5	20		30	-	-	-	-						
7,812	Total Losses	-	-	41	270	526	686	674	591	1,112	698	998	1,036	649	128	403	-	-	-	-	-	-
-	Mud Transferred Out	-	-	-																		
3,201	Ending System Volume	2,440	2,929	2,908	2,755	2,546	2,601	3,081	3,111	2,769	2,978	3,511	3,332	3,697	3,590	3,201	3,201	3,201	3,201	3,201	3,201	3,201
-	Mud Recovered																					

8,585

Comments:		Comments:		Comments:	
6/7/20	TRANSFER FROM 2H.	6/14/20		6/21/20	Running production casing in the hole.Ciculate every 500' after 10,000. continue to loose mud to formation.402bbls
6/8/20	Testing and repair to BOP's. Received 489bbls 10.9# Discounted mud.	6/15/20		6/22/20	
6/9/20	TIH, FIT 13emw / 1600psi. Drilling ahead on Curve section.	6/16/20		6/23/20	
6/10/20	Drilling on lateral section. Well taking mud after 11400'. Lower MW to 9.6ppg. Adding LCM to active system First response/Cyberseal/newcarb 3 sxs ea.	6/17/20		6/24/20	
6/11/20		6/18/20	Resume drilling. Well continues to take mud.	6/25/20	
6/12/20		6/19/20	Drilled to TD 18039', circulate 3 sweeps out of hole. Wash & Ream up to 16300', circulate BU and spot 240bbls of 30ppb LCM sweep outside bit. Continue POOH to the shoe.	6/26/20	
6/13/20		6/20/20	POOH lay down BHA. Running 5" production casing in the hole.@7100 lost displacement. Circulate BU and lost 45bbls. Install rotating head and resume Stripping in the hole with Casing.	6/27/20	

6/21/2020 **Report 21 pm**

110 Old Market St.
St Martinville, LA 70582

TEL: (337) 394-1078

91.3° **10,256' TVD**

Operator	Contractor	County / Parish / Block	Engineer Start Date	24 hr ftg.	Drilled Depth
MAGNOLIA OIL & GAS	**PATTERSON**	**WASHINGTON**	**04/27/20**		**18,059 ft**
Well Name and No.	Rig Name and No.	State	Spud Date	Current ROP	Activity
LEVI GOODRICH U2 - 3H	**248**	**TEXAS**	**04/27/20**		**Circ Csg on Btm**
Report for	Report for	Field / OSC-G #	Fluid Type	Circulating Rate	Circulating Pressure
JAMES DYER / BOBBY GWIN	**Tool Pusher**	**GIDDINGS**	**OBM**	**160 gpm**	**248 psi**

MUD PROPERTY SPECIFICATIONS

Weight	PV	YP	E.S.	CaCl2	GELS	HTHP
8.5-10.2	**8-20**	**5-12**	**>300**	**±260K**	**<10 <25**	**<10**

MUD PROPERTIES

Time Sample Taken	2:00		11:00
Sample Location	suction		suction
Flowline Temperature °F	100 °F		110 °F
Depth (ft)	12,897'		18,059'
Mud Weight (ppg)	9.0		9.0
Funnel Vis (sec/qt) @ 98 °F	40		41
600 rpm	27		26
300 rpm	17		17
200 rpm	14		14
100 rpm	9		10
6 rpm	5		5
3 rpm	4		4
Plastic Viscosity (cp) @ 150 °F	10		9
Yield Point (lb/100 ft²) T0 = 3	7		8
Gel Strength (lb/100 ft²) 10 sec / 10 min	5/9		5/10
Gel Strength (lb/100 ft2) 30 min	12		12
HTHP Filtrate (cm/30 min) @ 250 °F	8.0		8.0
HTHP Cake Thickness (32nds)	2.0		2.0
Retort Solids Content	9%		8%
Corrected Solids (vol%)	7.2%		6.3%
Retort Oil Content	71%		72%
Retort Water Content	20%		20%
O/W Ratio	78:22		78:22
Whole Mud Chlorides (mg/L)	44,000		44,500
Water Phase Salinity (ppm)	256,494		258,654
Whole Mud Alkalinity, Pom	1.4		1.4
Excess Lime (lb/bbl)	1.8 ppb		1.8 ppb
Electrical Stability (volts)	400 v		435 v
Average Specific Gravity of Solids	2.96		3.29
Percent Low Gravity Solids	4.7%		2.9%
ppb Low Gravity Solids	39 ppb		24 ppb
Percent Barite	2.5%		3.3%
ppb Barite	36 ppb		48 ppb
Estimated Total LCM in System			
Sample Taken By	A Roman		M Washburn

MUD VOLUME (BBL)

In Pits	774 bbl
In Hole	688 bbl
Active	1460 bbl
Storage	1666 bbl
Tot. on Location	3128 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	50
gal/min	160

RISER BOOSTER

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

Mud Wt. = 9.0 PV=10 YP=7 **CIRCULATION DATA** n = 0.667 K = 135.0

Bit Depth = 18,019 ' | Washout = 1% | Pump Efficiency = 95%

Drill String Disp.							
135.6 bbl	Volume to Bit	357.0 bbl	Strokes To Bit	4,678	Time To Bit	94 min
	Bottoms Up Vol.	328.9 bbl	BottomsUp Stks	4,310	BottomsUp Time	86 min
	TotalCirc.Vol.	1459.8 bbl	TotalCirc.Stks	19,131	Total Circ. Time	383 min

DRILLING ASSEMBLY DATA

Tubulars	OD (in.)	ID (in.)	Length	Top
Casing	5.500	4.670	10,778'	
Casing	5.000	4.276	7,241'	10,778'
				18,019'
				18,019'

CASING & HOLE DATA

Casing	OD (in.)	ID (in.)	Depth	Top
Riser				
Surface	10 3/4		2,989'	
Int. Csg.	7 5/8	6.875	10,237'	
Open Hole Size	6.818		18,059'	

ANNULAR GEOMETRY & RHEOLOGY

annular section	depth	velocity ft/min	flow reg	ECD lb/gal
6.875x5.5	10,237'	230.8	turb	9.70
6.818x5.5	10,778'	241.9	turb	9.71
6.818x5	18,019'	182.8	lam	10.05

BIT DATA Manuf./Type

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	3201.2
Transferred In(+)/Out(-)	
Oil Added (+)	
Barite Added (+)	
Other Product Usage (+)	
Water Added (+)	
Left on Cuttings (-)	
Evap/ Trips/ Cent	
Formation losses	
Est. Total on Location	3201.2
Est. Losses/Gains (-)/(+)	-73.6

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:

Run production casing to 18019, fill casing and circulate thru choke at 4 BPM with full returns, observe LCM spotted in open hole at shale shakers. Maintain mud wt at 9.0 with application of centrifuge and diesel additions. Rig up cementers and prepare for cementing operations.