



DRILL STEM TEST REPORT

Prepared For: **R F Hembree Oil LLC**

P O Box 542`
Ness City, Kansas

ATTN: Wyatt Urban

Blum #1

3-19s-13w Barton

Start Date: 2017.06.02 @ 00:00:00

End Date:

Job Ticket #: 01171

DST #: 3

Eagle Testers
1309 Patton Road Great Bend, Kansas 67530
620-791-7394

Printed: 2017.06.02 @ 17:13:45



DRILL STEM TEST REPORT

R F Hembree Oil LLC

3-19s-13w Barton

P O Box 542`
Ness City, Kansas

Blum #1

Job Ticket: 01171

DST#: 3

ATTN: Wyatt Urban

Test Start: 2017.06.02 @ 00:00:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:14:00

Time Test Ended:

Test Type: Conventional Bottom Hole (Initial)

Tester: Gene Budig

Unit No: 1

Interval: 3360.00 ft (KB) To 3419.00 ft (KB) (TVD)

Reference Elevations: 1886.00 ft (KB)

Total Depth: 3360.00 ft (KB) (TVD)

1879.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

Serial #: 9139 Inside

Press@RunDepth: 665.23 psig @ 3413.74 ft (KB)

Capacity: 5000.00 psig

Start Date: 2017.06.02

End Date:

2017.06.02

Last Calib.:

2017.06.02

Start Time: 11:14:00

End Time:

16:54:30

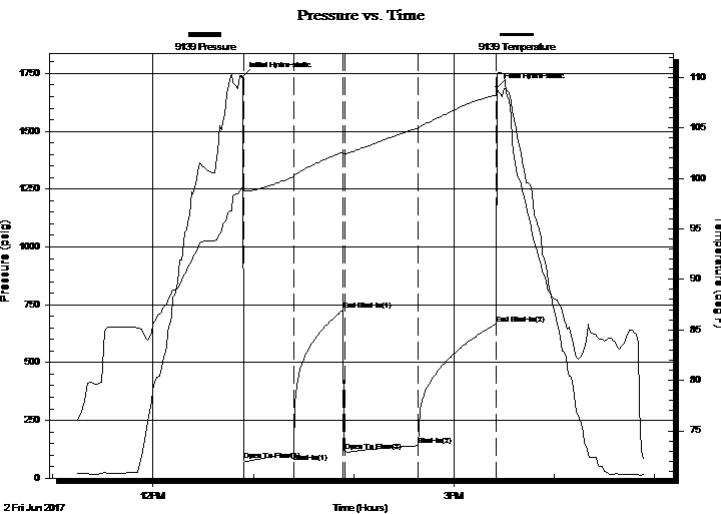
Time On Btm:

2017.06.02 @ 12:53:30

Time Off Btm:

2017.06.02 @ 15:25:30

TEST COMMENT: 1st opening 30 Minutes weak blow built to the bottom of a 5 gallon bucket in 28 minutes
1st Shut-in 30 Minutes no blow back
2nd Opening 45 Minutes weak building blow built to 5 3/4 inches into the water
2nd Shut-in 45 Minutes no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1735.50	99.14	Initial Hydro-static
1	78.40	98.76	Open To Flow (1)
31	105.86	100.18	Shut-In(1)
60	725.24	102.60	End Shut-In(1)
62	114.46	102.44	Open To Flow (2)
105	140.94	104.99	Shut-In(2)
152	665.23	108.23	End Shut-In(2)
152	1690.47	109.23	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Clean Oil	0.07
50.00	Oil cut mud	0.70
0.00	10%oil 10% Water 80%Mud	0.00
60.00	Oil cut w atery mud	0.84
60.00	5%Oil 40%w ater 55% Mud	0.84
60.00	slightly oil cut w atery mud	0.84

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



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Time Test Ended:

Test Type: Conventional Bottom Hole (Initial)

Tester: Gene Budig

Unit No: 1

Interval: 3360.00 ft (KB) To 3419.00 ft (KB) (TVD)

Reference Elevations: 1886.00 ft (KB)

Total Depth: 3360.00 ft (KB) (TVD)

1879.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

Serial #: 91716 Outside

Press@RunDepth: 660.67 psig @ 3413.74 ft (KB)

Capacity: 5000.00 psig

Start Date: 2017.06.02

End Date:

2017.06.02

Last Calib.:

2017.06.02

Start Time: 11:14:00

End Time:

16:54:00

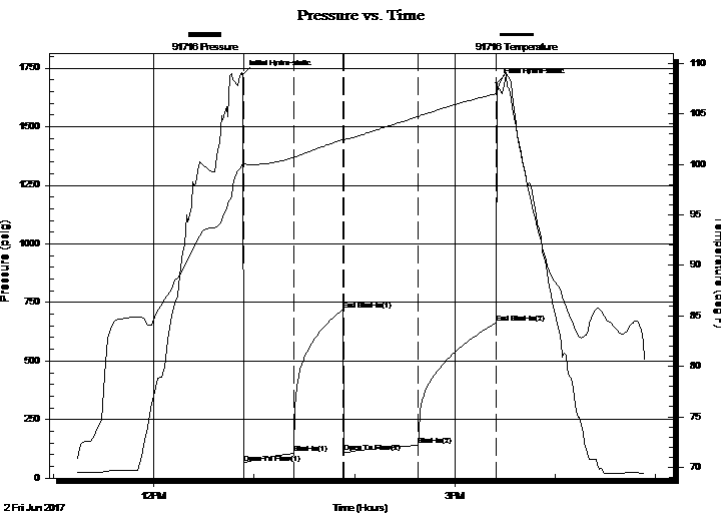
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1st Shut-in 30 Minutes no blow back
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2nd Shut-in 45 Minutes no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1724.06	100.03	Initial Hydro-static
1	64.24	100.08	Open To Flow (1)
31	104.98	100.66	Shut-In(1)
60	719.03	102.47	End Shut-In(1)
61	109.96	102.48	Open To Flow (2)
105	140.54	104.72	Shut-In(2)
152	660.67	107.00	End Shut-In(2)
152	1687.44	107.04	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Clean Oil	0.07
50.00	Oil cut mud	0.70
0.00	10%oilL 10% Water 80%Mud	0.00
60.00	Oil cut w atery mud	0.84
60.00	5%Oil 40%w ater 55% Mud	0.84
60.00	slightly oil cut w atery mud	0.84

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



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TOOL DIAGRAM

R F Hembree Oil LLC

3-19s-13w Barton

P O Box 542`
Ness City, Kansas

Blum #1

Job Ticket: 01171

DST#: 3

ATTN: Wyatt Urban

Test Start: 2017.06.02 @ 00:00:00

Tool Information

Drill Pipe:	Length: 3371.00 ft	Diameter: 3.80 inches	Volume: 47.29 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	63000.00 lb
			<u>Total Volume:</u>	Tool Chased	0.00 ft
				String Weight: Initial	48000.00 lb
				Final	48000.00 lb
Drill Pipe Above KB:	31.00 ft				
Depth to Top Packer:	3360.00 ft				
Depth to Bottom Packer:	ft				
Interval between Packers:	58.74 ft				
Tool Length:	78.74 ft				
Number of Packers:	2	Diameter:	6.75 inches		
Tool Comments:					

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3345.00	
Hydraulic tool	5.00			3350.00	
Top Packer	5.00			3355.00	
Packer	5.00			3360.00	20.00 Bottom Of Top Packer
Anchor	2.00			3362.00	
Change Over Sub	0.75			3362.75	
Drill Pipe	29.24			3391.99	
Change Over Sub	0.75			3392.74	
Anchor	21.00			3413.74	
Recorder	0.00	9139	Inside	3413.74	
Recorder	0.00	91716	Outside	3413.74	
Bullnose	5.00			3418.74	58.74 Anchor Tool

Total Tool Length: 78.74



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FLUID SUMMARY

R F Hembree Oil LLC

3-19s-13w Barton

P O Box 542`
Ness City, Kansas

Blum #1

Job Ticket: 01171

DST#: 3

ATTN: Wyatt Urban

Test Start: 2017.06.02 @ 00:00:00

Mud and Cushion Information

Mud Type:		Cushion Type:		Oil API:	deg API
Mud Weight:	lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	sec/qt	Cushion Volume:	bbbl		
Water Loss:	in ³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	ppm				
Filter Cake:	inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
5.00	Clean Oil	0.070
50.00	Oil cut mud	0.701
0.00	10%oil 10% Water 80%Mud	0.000
60.00	Oil cut w atery mud	0.842
60.00	5%Oil 40%w ater 55% Mud	0.842
60.00	slightly oil cut w atery mud	0.842
0.00	less than 1%Oil 30%Waterf 70%Mud	0.000
0.00	chloridess 16,000	0.000

Total Length: 235.00 ft Total Volume: 3.297 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 9139

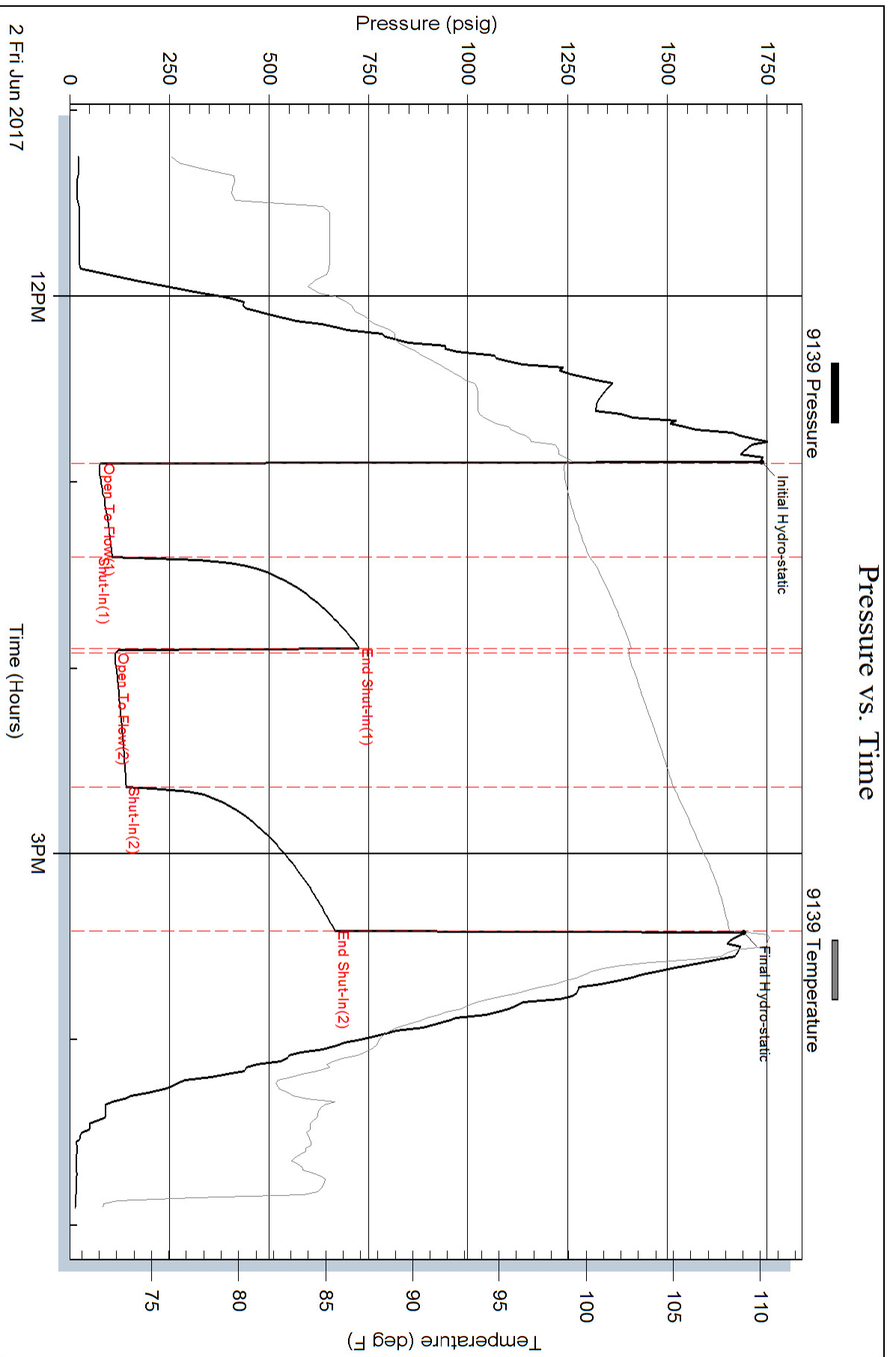
Inside

R F Hembree Oil LLC

Blum #1

DST Test Number: 3

Pressure vs. Time



Eagle Testers

Ref. No: 01171

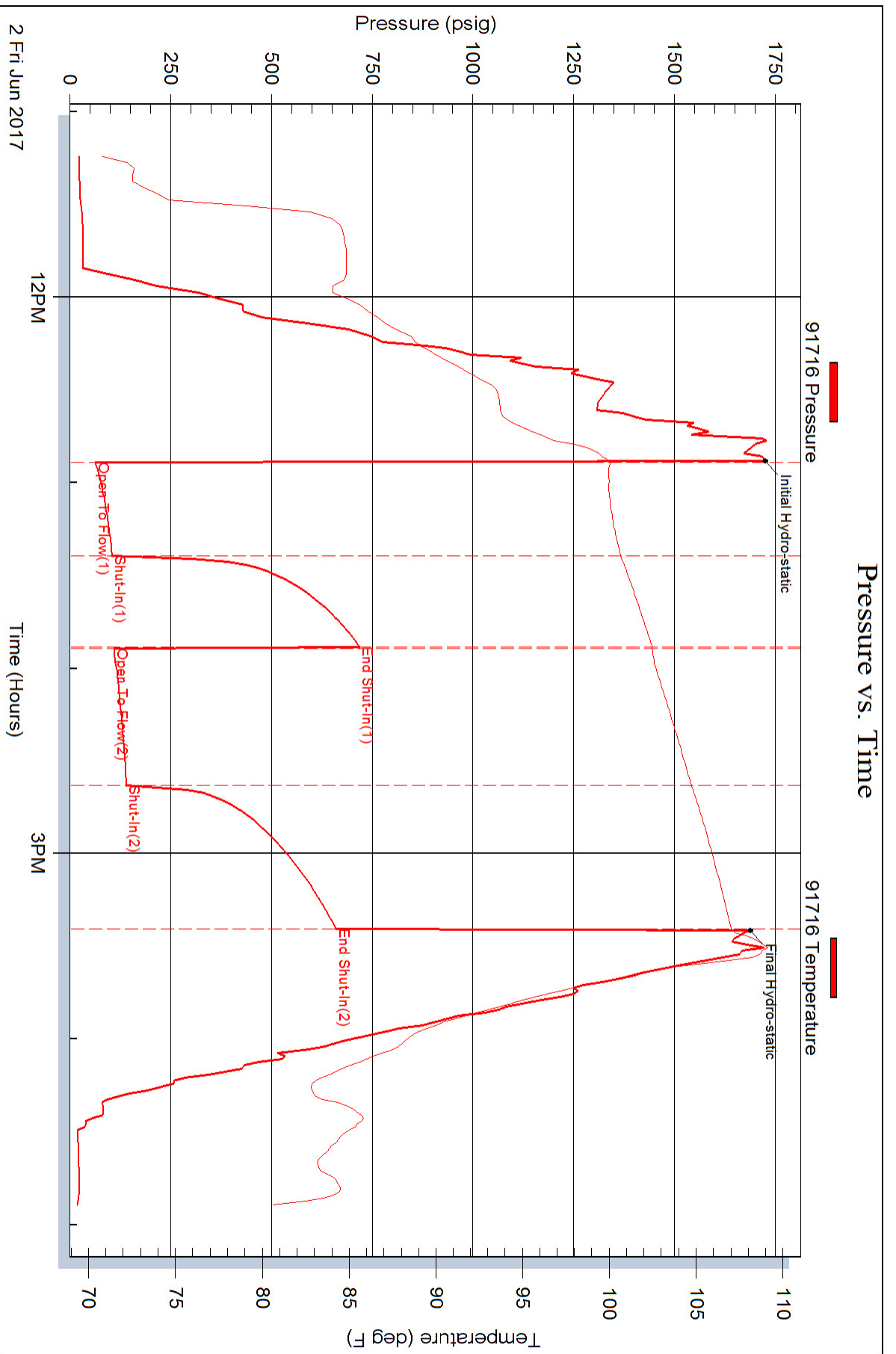
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Serial #: 91716

Outside R F Hembree Oil LLC

Blum #1

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