



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: 2017.06.01 @ 23:41:00

End Date: 2017.06.02 @ 03:59:00

Job Ticket #: 01170 DST #: 2

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

Printed: 2017.06.02 @ 04:17:24



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3-19s-13w Barton

P O Box 542
Ness City, Kansas

Blum #1

Job Ticket: 01170

DST#: 2

ATTN: Wyatt Urban

Test Start: 2017.06.01 @ 23:41:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:14:00

Time Test Ended: 03:59:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Gene Budig

Unit No: 1

Interval: 3360.00 ft (KB) To 3410.00 ft (KB) (TVD)

Reference Elevations: 1886.00 ft (KB)

Total Depth: 3410.00 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: 997.73 psig @ 3404.79 ft (KB)

Capacity: 5000.00 psig

Start Date: 2017.06.01

End Date:

2017.06.02

Last Calib.:

2017.06.02

Start Time: 23:41:00

End Time:

05:57:00

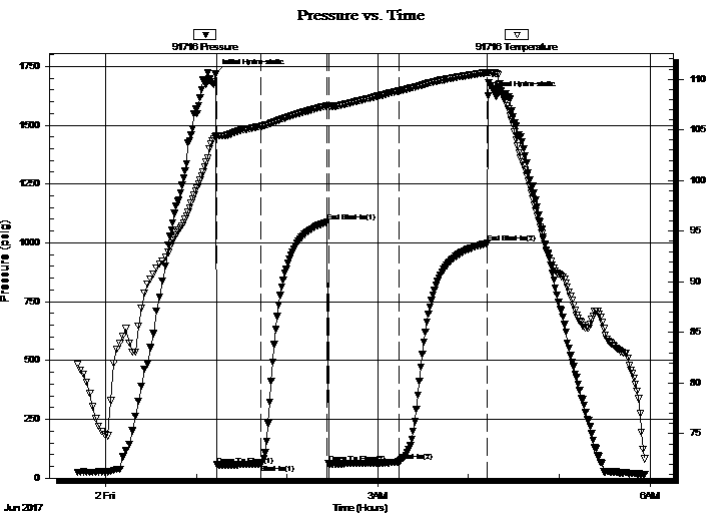
Time On Btm:

2017.06.02 @ 01:13:00

Time Off Btm:

2017.06.02 @ 04:13:00

TEST COMMENT: 1st Opening 30 Minutes Weak building blow built to 1 inch into the water
 1st Shut-In 45 Minutes no blow back
 2nd Opening 45 Minutes weak building blow built to 1 1/4 inches into the water
 2nd Shut-In 60 Minutes no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1718.99	104.40	Initial Hydro-static
1	56.11	104.45	Open To Flow (1)
30	60.21	105.34	Shut-In(1)
74	1087.77	107.40	End Shut-In(1)
75	60.81	107.40	Open To Flow (2)
121	71.15	108.85	Shut-In(2)
180	997.73	110.65	End Shut-In(2)
180	1623.58	110.66	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Clelan Oil	0.07
30.00	Oil cut mud 30% Oil 70% Mud	0.42

Gas Rates

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



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Tester: Gene Budig

Unit No: 1

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Reference Elevations: 1886.00 ft (KB)

Total Depth: 3410.00 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: 1005.78 psig @ 3404.79 ft (KB)

Capacity: 5000.00 psig

Start Date: 2017.06.01

End Date:

2017.06.02

Last Calib.:

2017.06.02

Start Time: 23:41:00

End Time:

05:57:30

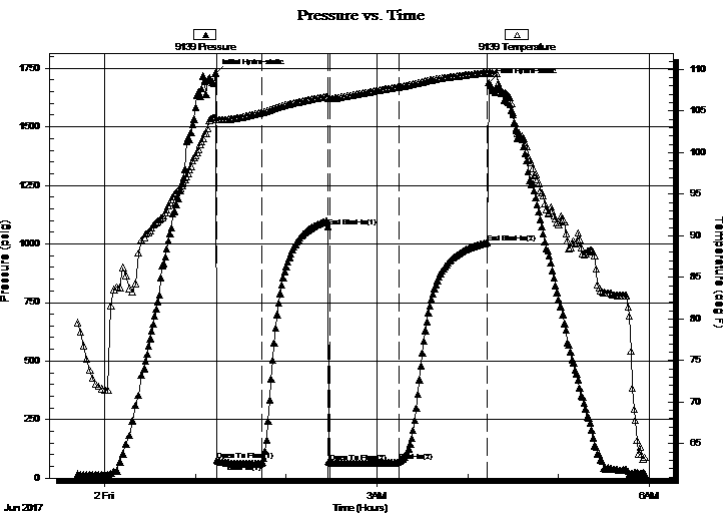
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 2nd Shut-In 60 Minutes no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1729.01	104.35	Initial Hydro-static
1	74.98	104.02	Open To Flow (1)
31	64.91	104.81	Shut-In(1)
75	1074.49	106.75	End Shut-In(1)
76	68.63	106.49	Open To Flow (2)
122	70.38	107.90	Shut-In(2)
180	1005.78	109.61	End Shut-In(2)
181	1690.00	109.64	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Clelan Oil	0.07
30.00	Oil cut mud 30% Oil 70% Mud	0.42

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: 01170

DST#: 2

ATTN: Wyatt Urban

Test Start: 2017.06.01 @ 23:41:00

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:	62000.00 lb
			<u>Total Volume: 47.29 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial	47000.00 lb
Depth to Top Packer:	3360.00 ft			Final	47000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	49.79 ft				
Tool Length:	69.79 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	31.29			3394.04	
Change Over Sub	0.75			3394.79	
Anchor	10.00			3404.79	
Recorder	0.00	9139	Inside	3404.79	
Recorder	0.00	91716	Outside	3404.79	
Bullnose	5.00			3409.79	49.79 Anchor Tool

Total Tool Length: 69.79



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FLUID SUMMARY

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DST#:2

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Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 10.00 lb/gal
Viscosity: 45.00 sec/qt
Water Loss: 10.20 in³
Resistivity: ohm.m
Salinity: 4000.00 ppm
Filter Cake: 1.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Clelan Oil	0.070
30.00	Oil cut mud 30% Oil 70% Mud	0.421

Total Length: 35.00 ft Total Volume: 0.491 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

