



## DRILL STEM TEST REPORT

Prepared For: **Younger Energy Company**

9415 E Harry Street Suite 403 Wichita KS  
67207+5083

ATTN: Kent Matson

### **MorrisonLutherUnit#1**

#### **06-21s-13w Stafford**

Start Date: 2014.06.25 @ 17:25:00

End Date: 2014.06.25 @ 22:56:30

Job Ticket #: 18589                      DST #: 7

Superior Testers Enterprises LLC  
PO Box 138 Great Bend KS 67530  
1-800-792-6902

Printed: 2014.06.26 @ 00:06:00



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Job Ticket: 18589

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ATTN: Kent Matson

Test Start: 2014.06.25 @ 17:25:00

## GENERAL INFORMATION:

Formation: **Lansing Kzone**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:04:30

Time Test Ended: 22:56:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Jared Scheck

Unit No: 3330-Great Bend -20

Interval: **3499.00 ft (KB) To 3510.00 ft (KB) (TVD)**

Reference Elevations: 1908.00 ft (KB)

Total Depth: 3510.00 ft (KB) (TVD)

1900.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

## Serial #: 8159

Press@RunDepth: 37.26 psig @ ft (KB)

Capacity: 5000.00 psig

Start Date: 2014.06.25

End Date: 2014.06.25

Last Calib.: 2014.06.25

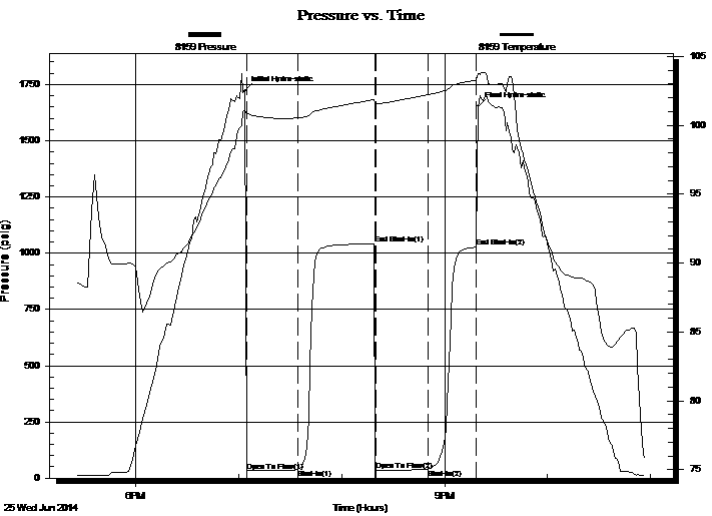
Start Time: 17:25:00

End Time: 22:56:30

Time On Btm: 2014.06.25 @ 19:03:30

Time Off Btm: 2014.06.25 @ 21:19:30

**TEST COMMENT:** 1st Opening 30 Minutes-Very weak surface blow stayed steady throughout opening  
1st Shut-in 45 Minutes-No blow back  
2nd Opening 30 Minutes-Very weak surge did not build  
2nd Shut-in 30 Minutes-No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1722.50	101.15	Initial Hydro-static
1	32.35	100.86	Open To Flow (1)
31	37.97	100.54	Shut-In(1)
76	1042.52	101.89	End Shut-In(1)
77	36.48	101.59	Open To Flow (2)
107	37.26	102.21	Shut-In(2)
135	1026.86	103.31	End Shut-In(2)
136	1652.99	103.73	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
4.00	mud	0.06

## Gas Rates

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



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Tester: Jared Scheck

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Reference Elevations: 1908.00 ft (KB)

Total Depth: 3510.00 ft (KB) (TVD)

1900.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

## Serial #: 8524

Press@RunDepth: 1026.02 psig @ ft (KB)

Capacity: 5000.00 psig

Start Date: 2014.06.25

End Date:

2014.06.25

Last Calib.:

2014.06.26

Start Time: 17:25:00

End Time:

22:56:00

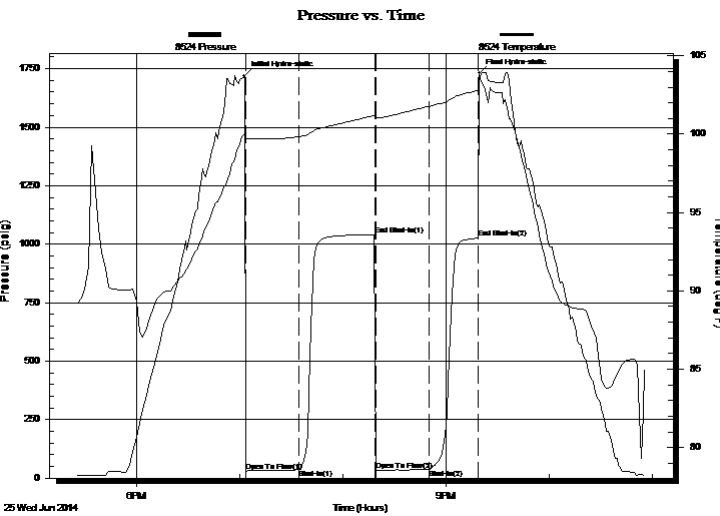
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2nd Opening 30 Minutes-Very weak surge did not build  
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## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1720.24	100.03	Initial Hydro-static
1	30.77	99.72	Open To Flow (1)
32	37.41	99.85	Shut-In(1)
76	1041.31	101.19	End Shut-In(1)
77	34.89	101.03	Open To Flow (2)
107	37.60	101.77	Shut-In(2)
136	1026.02	102.77	End Shut-In(2)
137	1730.90	103.44	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
4.00	mud	0.06

## Gas Rates

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



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TOOL DIAGRAM

Younger Energy Company

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MorrisonLutherUnit#1

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DST#: 7

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Test Start: 2014.06.25 @ 17:25:00

## Tool Information

Drill Pipe:	Length: 3496.00 ft	Diameter: 3.80 inches	Volume: 49.04 bbl	Tool Weight: 1000.00 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: 70000.00 lb
			<u>Total Volume: 49.04 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 53000.00 lb
Depth to Top Packer:	3499.00 ft			Final 53000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	11.00 ft			
Tool Length:	39.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut-In Tool	5.00			3476.00	
Hydraulic tool	5.00			3481.00	
Jars	6.00			3487.00	
Safety Joint	2.00			3489.00	
Top Packer	5.00			3494.00	
Packer	5.00			3499.00	28.00 Bottom Of Top Packer
Anchor	6.00			3505.00	
Recorder	1.00	8159	Inside	3506.00	
Recorder	1.00	8524	Outside	3507.00	
Bull Plug	3.00			3510.00	11.00 Anchor Tool
<b>Total Tool Length:</b>	<b>39.00</b>				



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FLUID SUMMARY

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## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length: ft

Water Salinity: ppm

Viscosity: 51.00 sec/qt

Cushion Volume: bbl

Water Loss: 8.00 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psig

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
4.00	mud	0.056

Total Length: 4.00 ft      Total Volume: 0.056 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

