



## DRILL STEM TEST REPORT

Prepared For: **Younger Energy Company**

9415 E. Harry Suite 403  
Wichita.Kansas 67207-5083

ATTN: Keith Reavis

### **Drack #3**

### **9-22s-13wStafford**

Start Date: 2017.06.13 @ 16:58:00

End Date: 2017.06.13 @ 21:49:00

Job Ticket #: 01172                      DST #: 1

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

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# DRILL STEM TEST REPORT

Younger Energy Company  
 9415 E. Harry Suite 403  
 Wichita, Kansas 67207-5083  
 ATTN: Keith Reavis

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**Drack #3**  
 Job Ticket: 01172      **DST#: 1**  
 Test Start: 2017.06.13 @ 16:58:00

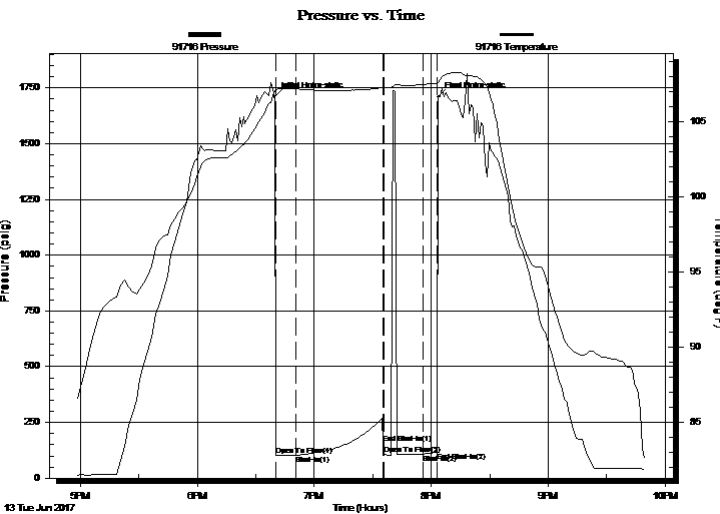
## GENERAL INFORMATION:

Formation: **Lansing "H-I & J"**  
 Deviated: No Whipstock:      ft (KB)  
 Time Tool Opened: 18:39:00  
 Time Test Ended: 21:49:00  
 Interval: **3508.00 ft (KB) To 3566.00 ft (KB) (TVD)**  
 Total Depth: 3566.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Gene Budig  
 Unit No: 1  
 Reference Elevations: 1898.00 ft (KB)  
 1890.00 ft (CF)  
 KB to GR/CF: 8.00 ft

## Serial #: 91716 Outside

Press@RunDepth: 117.14 psig @ 3555.92 ft (KB)      Capacity: 5000.00 psig  
 Start Date: 2017.06.13      End Date: 2017.06.13      Last Calib.: 2017.06.13  
 Start Time: 16:58:00      End Time: 21:49:29      Time On Btm: 2017.06.13 @ 18:39:30  
 Time Off Btm: 2017.06.13 @ 20:03:30

TEST COMMENT: 1st Opening 10 Minutes weak blow for 7 minutes and died  
 1st Shut-In 45 Minutes no blow back  
 2nd Opening 19 Minutes=No blow -Flushed tool good surge-Weak blow for 6 minutes and died  
 2nd Shut-In 10 Minutes No blkow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1710.22	107.09	Initial Hydro-static
1	101.36	107.15	Open To Flow (1)
11	101.74	107.20	Shut-In(1)
56	155.68	107.26	End Shut-In(1)
56	105.33	107.27	Open To Flow (2)
76	108.08	107.48	Shut-In(2)
84	117.14	107.59	End Shut-In(2)
85	1709.66	107.61	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
40.00	Drilling Mud there Was a good show of	0.56
0.00	oil betw een the tools	0.00

## Gas Rates

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



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**TOOL DIAGRAM**

Younger Energy Company

**9-22s-13wStafford**

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Job Ticket: 01172

**DST#: 1**

ATTN: Keith Reavis

Test Start: 2017.06.13 @ 16:58:00

## Tool Information

Drill Pipe:	Length: 3491.00 ft	Diameter: 3.80 inches	Volume: 48.97 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:	95000.00 lb
			<u>Total Volume: 48.97 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial	58000.00 lb
Depth to Top Packer:	3508.00 ft			Final	58000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	52.92 ft				
Tool Length:	79.92 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			3486.00	
Hydraulic tool	5.00			3491.00	
Jars	5.00			3496.00	
Safety Joint	2.00			3498.00	
Top Packer	5.00			3503.00	
Packer	5.00			3508.00	27.00 Bottom Of Top Packer
Anchor	5.00			3513.00	
Change Over Sub	0.75			3513.75	
Drill Pipe	31.42			3545.17	
Change Over Sub	0.75			3545.92	
Anchor	10.00			3555.92	
Recorder	0.00	9139	Inside	3555.92	
Recorder	0.00	91716	Outside	3555.92	
Bullnose	5.00			3560.92	52.92 Anchor Tool

**Total Tool Length: 79.92**



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## FLUID SUMMARY

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**DST#: 1**

ATTN: Keith Reavis

Test Start: 2017.06.13 @ 16:58:00

### Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 43.00 sec/qt  
Water Loss: 8.80 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 5000.00 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
40.00	Drilling Mud there Was a good show of	0.561
0.00	oil betw een the tools	0.000

Total Length: 40.00 ft      Total Volume: 0.561 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time

