



## DRILL STEM TEST REPORT

Prepared For: **Younger Energy Company**

9415 East Harry Street  
Suite 403 Building 400  
Wichita, Kansas 67207+5083

ATTN: Keith Reavis

**Bauer Y #1-27**

**27/21S/15W/Pawnee**

Start Date: 2014.03.21 @ 07:12:00

End Date: 2014.03.21 @ 13:27:30

Job Ticket #: 18208                      DST #: 1

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

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Younger Energy Company

27/21S/15W/Pawnee

Bauer Y #1-27

DST # 1

Lansing/Kansas City

2014.03.21



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Job Ticket: 18208

DST#: 1

Test Start: 2014.03.21 @ 07:12:00

## GENERAL INFORMATION:

Formation: **Lansing/Kansas City**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:12:30

Time Test Ended: 13:27:30

Test Type: Conventional Straddle (Initial)

Tester: Ken Swinney

Unit No: 3325 Great Bend/

Interval: **3632.00 ft (KB) To 3650.00 ft (KB) (TVD)**

Reference Elevations: 1963.00 ft (KB)

Total Depth: 3696.00 ft (KB) (TVD)

1955.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6749

Inside

Press@RunDepth: 60.14 psig @ 3644.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2014.03.21

End Date:

2014.03.21

Last Calib.:

2014.03.21

Start Time: 07:13:00

End Time:

13:27:30

Time On Btm:

2014.03.21 @ 09:10:30

Time Off Btm:

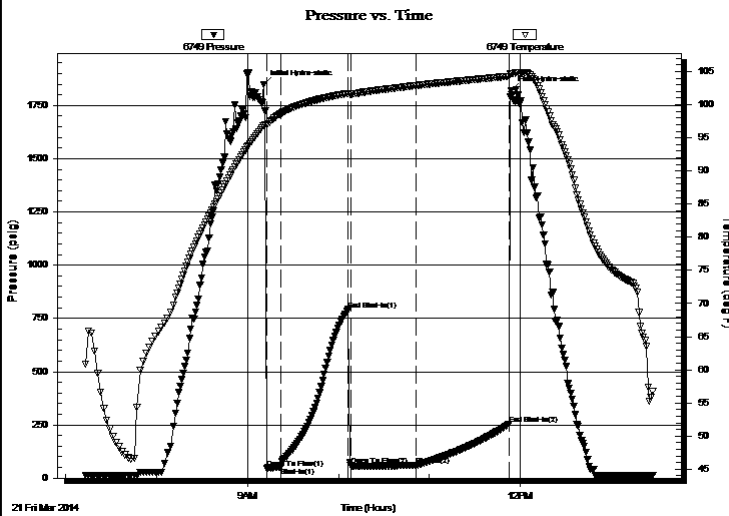
2014.03.21 @ 11:54:00

TEST COMMENT: 1ST Open 10 Minutes/Weak blow / Blow built to 3 inches in bucket of water

1ST Shut In 45 Minutes/No blow back

2ND Open 45 Minutes/Good blow / Blow built to bottom of bucket of water in 17 minutes 30 seconds

2ND Shut In 60 Minutes/No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1849.10	96.81	Initial Hydro-static
2	47.33	96.92	Open To Flow (1)
12	50.87	98.67	Shut-In(1)
56	791.60	101.72	End Shut-In(1)
58	58.73	101.60	Open To Flow (2)
101	60.14	102.89	Shut-In(2)
162	252.96	104.30	End Shut-In(2)
164	1820.24	104.70	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	115 Feet of gas in pipe	0.00
65.00	Oily Mud/Oil 20% Mud 80%	0.91

## Gas Rates

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



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Time Test Ended: 13:27:30

Test Type: Conventional Straddle (Initial)

Tester: Ken Swinney

Unit No: 3325 Great Bend/

Interval: **3632.00 ft (KB) To 3650.00 ft (KB) (TVD)**

Reference Elevations: 1963.00 ft (KB)

Total Depth: 3696.00 ft (KB) (TVD)

1955.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: **6663**

Inside

Press@RunDepth: 253.24 psig @ 3644.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2014.03.21

End Date:

2014.03.21

Last Calib.:

2014.03.21

Start Time: 07:13:00

End Time:

13:27:30

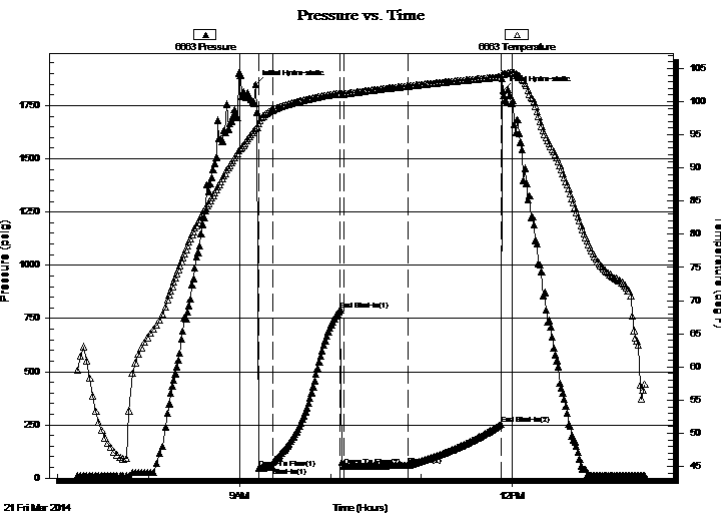
Time On Btm:

2014.03.21 @ 09:10:30

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2014.03.21 @ 11:54:00

TEST COMMENT: 1ST Open 10 Minutes/Weak blow / Blow built to 3 inches in bucket of water  
1ST Shut In 45 Minutes/No blow back  
2ND Open 45 Minutes/Good blow / Blow built to bottom of bucket of water in 17 minutes 30 seconds  
2ND Shut In 60 Minutes/No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1849.22	95.89	Initial Hydro-static
2	47.61	96.65	Open To Flow (1)
12	51.33	98.76	Shut-In(1)
56	791.72	101.27	End Shut-In(1)
58	56.63	101.13	Open To Flow (2)
101	60.57	102.35	Shut-In(2)
162	253.24	103.72	End Shut-In(2)
164	1820.35	104.12	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	115 Feet of gas in pipe	0.00
65.00	Oily Mud/Oil 20% Mud 80%	0.91

## Gas Rates

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





# DRILL STEM TEST REPORT

TOOL DIAGRAM

Younger Energy Company

27/21S/15W/Pawnee

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DST#: 1

Test Start: 2014.03.21 @ 07:12:00

## Tool Information

Drill Pipe:	Length: 3636.00 ft	Diameter: 3.80 inches	Volume: 51.00 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: 65000.00 lb
			Total Volume: 51.00 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	23.80 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3632.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	3649.55 ft			
Interval between Packers:	17.55 ft			
Tool Length:	81.62 ft			
Number of Packers:	3	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			3617.20	
Hydraulic tool	5.00			3622.20	
Jars	6.00			3628.20	
Safety Joint	2.00			3630.20	
Packer	1.80			3632.00	19.80 Bottom Of Top Packer
Anchor	12.00			3644.00	
Recorder	0.00	6663	Inside	3644.00	
Recorder	0.00	6749	Inside	3644.00	
Blank Off Sub	0.68			3644.68	
Travel Collar	1.64			3646.32	
Packer Anchor Side	1.58			3647.90	
Packer Tail Side	1.65			3649.55	17.55 Tool Interval
Packer	5.07			3654.62	
Perforations	3.00			3657.62	
Change Over Sub	0.80			3658.42	
Drill Pipe	31.74			3690.16	
Change Over Sub	0.66			3690.82	
Recorder	0.00	8938	Below	3690.82	
Bullnose	3.00			3693.82	44.27 Bottom Packers & Anchor

**Total Tool Length: 81.62**



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**FLUID SUMMARY**

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Job Ticket: 18208

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## Mud and Cushion Information

Mud Type: Gel Chem  
 Mud Weight: 9.00 lb/gal  
 Viscosity: 60.00 sec/qt  
 Water Loss: 9.19 in<sup>3</sup>  
 Resistivity: ohm.m  
 Salinity: 8000.00 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
0.00	115 Feet of gas in pipe	0.000
65.00	Oily Mud/Oil 20% Mud 80%	0.912

Total Length: 65.00 ft      Total Volume: 0.912 bbl

Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments:

# Pressure vs. Time

