



## 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: 2014.03.22 @ 08:07:00

End Date: 2014.03.22 @ 14:39:30

Job Ticket #: 18209                      DST #: 2

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

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## GENERAL INFORMATION:

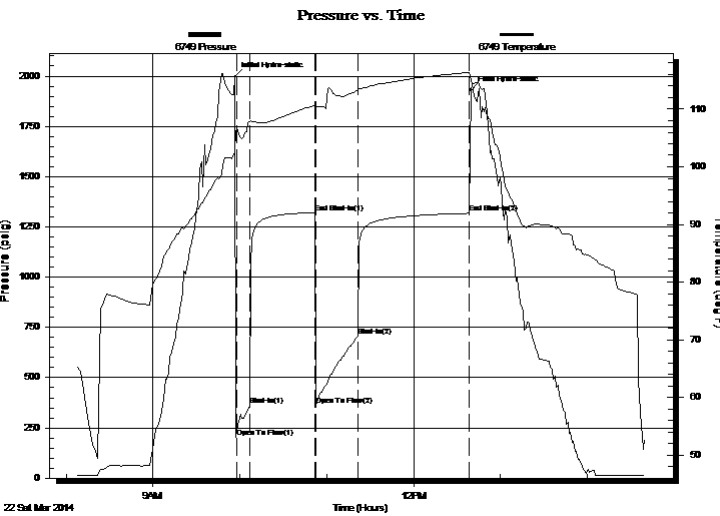
Formation: **Simpson Sand**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 09:57:30  
 Time Test Ended: 14:39:30  
 Interval: **3700.00 ft (KB) To 3895.00 ft (KB) (TVD)**  
 Total Depth: 3895.00 ft (KB) (TVD)  
 Hole Diameter: 7.80 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Ken Swinney  
 Unit No: 3325 Great Bend  
 Reference Elevations: 1963.00 ft (KB)  
 1955.00 ft (CF)  
 KB to GR/CF: 8.00 ft

## Serial #: 6749

Inside

Press@RunDepth: 704.36 psig @ 3890.38 ft (KB) Capacity: 5000.00 psig  
 Start Date: 2014.03.22 End Date: 2014.03.22 Last Calib.: 2014.03.22  
 Start Time: 08:07:00 End Time: 14:39:30 Time On Btm: 2014.03.22 @ 09:56:30  
 Time Off Btm: 2014.03.22 @ 12:39:30

TEST COMMENT: 1ST Open 10 Minutes/Strong blow/Blow built to bottom of bucket of water in 2 minutes  
 1ST Shut In 45 Minutes/No blow back  
 2ND Open 30 Minutes/Strong Blow/Blow built to bottom of bucket of water in 2 minutes 15 seconds  
 2ND Shut In 75 Minutes/No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1995.53	102.50	Initial Hydro-static
1	204.79	106.35	Open To Flow (1)
11	363.45	107.79	Shut-In(1)
56	1322.17	110.68	End Shut-In(1)
56	364.82	110.46	Open To Flow (2)
85	704.36	113.29	Shut-In(2)
162	1317.40	116.36	End Shut-In(2)
163	1930.38	115.10	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1275.00	Muddy Water/Mud 20% Water 80%	17.88
0.00	Recov. Chlorides 28,000 ppm	0.00
0.00	Recov. Resist. .42 ohms @ 60 deg	0.00

## Gas Rates

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



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Test Start: 2014.03.22 @ 08:07:00

## GENERAL INFORMATION:

Formation: **Simpson Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:57:30

Time Test Ended: 14:39:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 3325 Great Bend

Interval: **3700.00 ft (KB) To 3895.00 ft (KB) (TVD)**

Reference Elevations: 1963.00 ft (KB)

Total Depth: 3895.00 ft (KB) (TVD)

1955.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: **8938** Outside

Press@RunDepth: 1316.54 psig @ 3891.38 ft (KB)

Capacity: 5000.00 psig

Start Date: 2014.03.22

End Date: 2014.03.22

Last Calib.: 2014.03.22

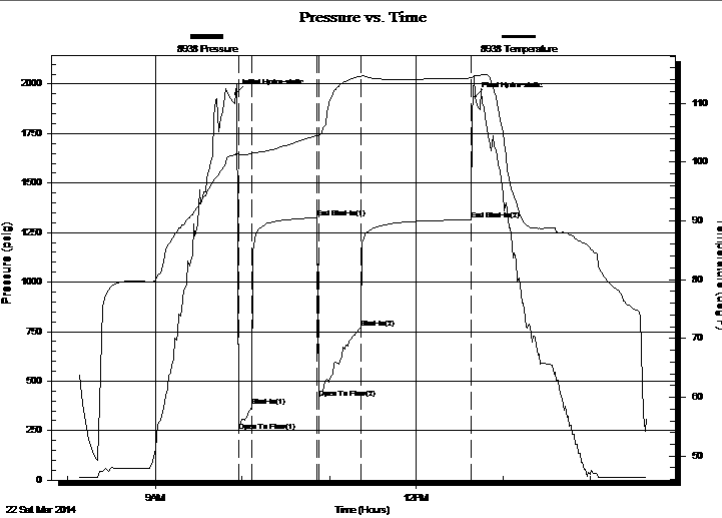
Start Time: 08:07:00

End Time: 14:39:00

Time On Btm: 2014.03.22 @ 09:55:30

Time Off Btm: 2014.03.22 @ 12:40:30

TEST COMMENT: 1ST Open 10 Minutes/Strong blow/Blow built to bottom of bucket of water in 2 minutes  
1ST Shut In 45 Minutes/No blow back  
2ND Open 30 Minutes/Strong Blow/Blow built to bottom of bucket of water in 2 minutes 15 seconds  
2ND Shut In 75 Minutes/No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1949.72	101.22	Initial Hydro-static
2	245.18	101.26	Open To Flow (1)
11	372.94	101.38	Shut-In(1)
56	1324.82	104.52	End Shut-In(1)
57	412.82	104.40	Open To Flow (2)
87	767.76	114.62	Shut-In(2)
163	1316.54	114.32	End Shut-In(2)
165	1936.02	114.73	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1275.00	Muddy Water/Mud 20% Water 80%	17.88
0.00	Recov. Chlorides 28,000 ppm	0.00
0.00	Recov. Resist. .42 ohms @ 60 deg	0.00

## 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#: 2

Test Start: 2014.03.22 @ 08:07:00

## Tool Information

Drill Pipe:	Length: 3692.00 ft	Diameter: 3.80 inches	Volume: 51.79 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: 60000.00 lb
			Total Volume: 51.79 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3700.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	194.38 ft			
Tool Length:	222.38 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			3677.00	
Hydraulic tool	5.00			3682.00	
Jars	6.00			3688.00	
Safety Joint	2.00			3690.00	
Top Packer	5.00			3695.00	
Packer	5.00			3700.00	28.00 Bottom Of Top Packer
Anchor	5.00			3705.00	
Change Over Sub	0.75			3705.75	
Drill Pipe	157.88			3863.63	
Change Over Sub	0.75			3864.38	
Anchor	25.00			3889.38	
Recorder	1.00	6749	Inside	3890.38	
Recorder	1.00	8938	Outside	3891.38	
Bullnose	3.00			3894.38	194.38 Anchor Tool

**Total Tool Length: 222.38**



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## FLUID SUMMARY

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### Mud and Cushion Information

Mud Type: Gel Chem  
 Mud Weight: 9.00 lb/gal  
 Viscosity: 58.00 sec/qt  
 Water Loss: 8.00 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
1275.00	Muddy Water/Mud 20% Water 80%	17.885
0.00	Recov. Chlorides 28,000 ppm	0.000
0.00	Recov. Resist. .42 ohms @ 60 deg	0.000

Total Length: 1275.00 ft      Total Volume: 17.885 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

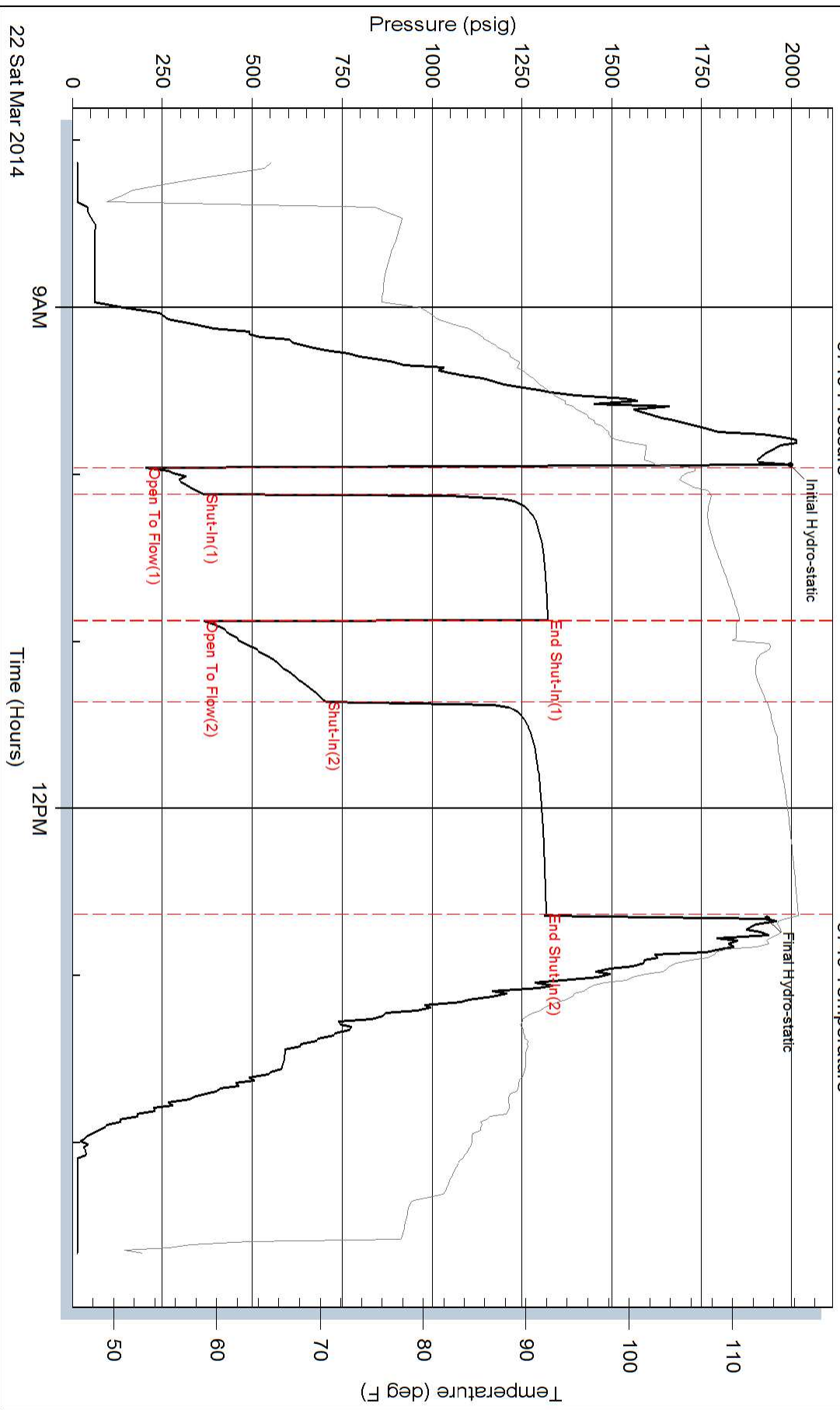
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time



### Pressure vs. Time

