



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: 2014.06.23 @ 10:35:00

End Date: 2014.06.23 @ 15:15:30

Job Ticket #: 18585 DST #: 3

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

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06-21s-13w Stafford

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MorrisonLutherUnit#1

Job Ticket: 18585

DST#: 3

ATTN: Kent Matson

Test Start: 2014.06.23 @ 10:35:00

GENERAL INFORMATION:

Formation: **Lansing G zone**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:44:00

Time Test Ended: 15:15:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Jared Scheck

Unit No: 33 -Great Bend-20

Interval: **3412.00 ft (KB) To 3430.00 ft (KB) (TVD)**

Reference Elevations: 1908.00 ft (KB)

Total Depth: 3430.00 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: 34.92 psig @ ft (KB)

Capacity: 5000.00 psig

Start Date: 2014.06.23

End Date: 2014.06.23

Last Calib.: 2014.06.23

Start Time: 10:35:00

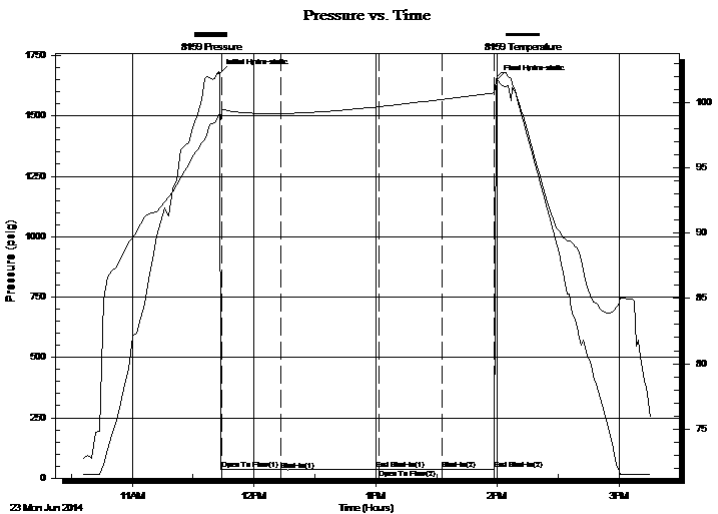
End Time: 15:15:30

Time On Btm: 2014.06.23 @ 11:43:00

Time Off Btm: 2014.06.23 @ 14:00:00

TEST COMMENT: 1st Opening 30 Minutes-Weak surface blow stayed steady throughout open
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	1677.29	99.16	Initial Hydro-static
1	35.28	99.42	Open To Flow (1)
30	34.59	99.15	Shut-In(1)
77	35.20	99.65	End Shut-In(1)
79	35.24	99.67	Open To Flow (2)
110	34.92	100.22	Shut-In(2)
136	36.63	100.72	End Shut-In(2)
137	1650.93	101.94	Final Hydro-static

Recovery

Gas Rates

Length (ft)	Description	Volume (bbl)
0.00		0.00

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



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Time Test Ended: 15:15:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Jared Scheck

Unit No: 33 -Great Bend-20

Interval: **3412.00 ft (KB) To 3430.00 ft (KB) (TVD)**

Reference Elevations: 1908.00 ft (KB)

Total Depth: 3430.00 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: 35.86 psig @ ft (KB)

Capacity: 5000.00 psig

Start Date: 2014.06.23

End Date: 2014.06.23

Last Calib.: 2014.06.23

Start Time: 10:35:00

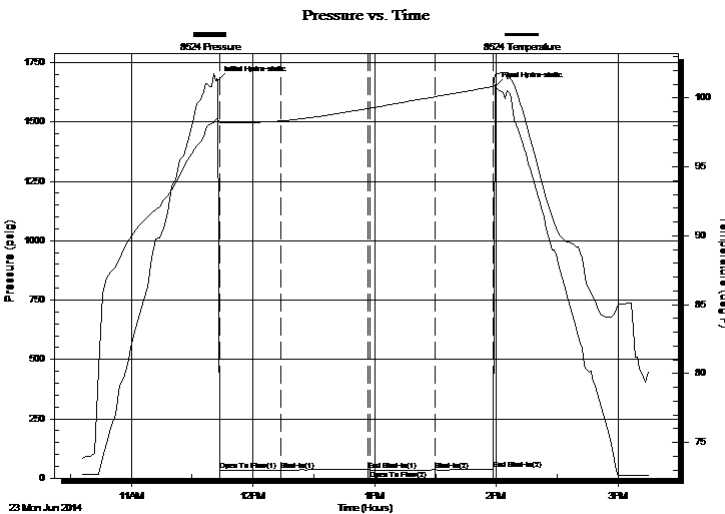
End Time: 15:15:30

Time On Btm: 2014.06.23 @ 11:42:30

Time Off Btm: 2014.06.23 @ 13:59:30

TEST COMMENT: 1st Opening 30 Minutes-Weak surface blow stayed steady throughout open
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	1675.59	98.46	Initial Hydro-static
1	33.63	98.20	Open To Flow (1)
31	34.01	98.33	Shut-In(1)
74	35.20	99.22	End Shut-In(1)
75	34.34	99.25	Open To Flow (2)
107	34.88	100.08	Shut-In(2)
136	35.86	100.81	End Shut-In(2)
137	1650.87	101.68	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00		0.00

Gas Rates

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



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TOOL DIAGRAM

Younger Energy Company

06-21s-13w Stafford

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DST#: 3

ATTN: Kent Matson

Test Start: 2014.06.23 @ 10:35:00

Tool Information

Drill Pipe:	Length: 3403.00 ft	Diameter: 3.80 inches	Volume: 47.74 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: 75000.00 lb
			<u>Total Volume: 47.74 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial 53000.00 lb
Depth to Top Packer:	3412.00 ft			Final 53000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	18.00 ft			
Tool Length:	46.00 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			3389.00	
Hydraulic tool	5.00			3394.00	
Jars	6.00			3400.00	
Safety Joint	2.00			3402.00	
Top Packer	5.00			3407.00	
Packer	5.00			3412.00	28.00 Bottom Of Top Packer
Anchor	13.00			3425.00	
Recorder	1.00	8159	Inside	3426.00	
Recorder	1.00	8524	Outside	3427.00	
Bull Plug	3.00			3430.00	18.00 Anchor Tool
Total Tool Length:	46.00				



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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: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.00 in³

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 bbbl
0.00		0.000

Total Length: ft

Total Volume: bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

