



DRILL STEM TEST REPORT

Prepared For: **Younger Energy Company**

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

ATTN: Keith Reavis

Kelly #1-33

33/21S/15W/Pawnee

Start Date: 2013.06.21 @ 14:04:00

End Date: 2013.06.21 @ 19:39:30

Job Ticket #: 18133 DST #: 3

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

Printed: 2013.06.21 @ 19:49:28



DRILL STEM TEST REPORT

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Job Ticket: 18133

DST#: 3

Test Start: 2013.06.21 @ 14:04:00

GENERAL INFORMATION:

Formation: **Viola**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:56:30

Time Test Ended: 19:39:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 3325 Great Bend/56

Interval: 3849.00 ft (KB) To 3881.00 ft (KB) (TVD)

Reference Elevations: 1985.00 ft (KB)

Total Depth: 3881.00 ft (KB) (TVD)

1973.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Fair

KB to GR/CF: 12.00 ft

Serial #: 6749 Inside

Press @ RunDepth: 52.24 psia @ 3872.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.06.21

End Date: 2013.06.21

Last Calib.: 2013.06.21

Start Time: 14:04:00

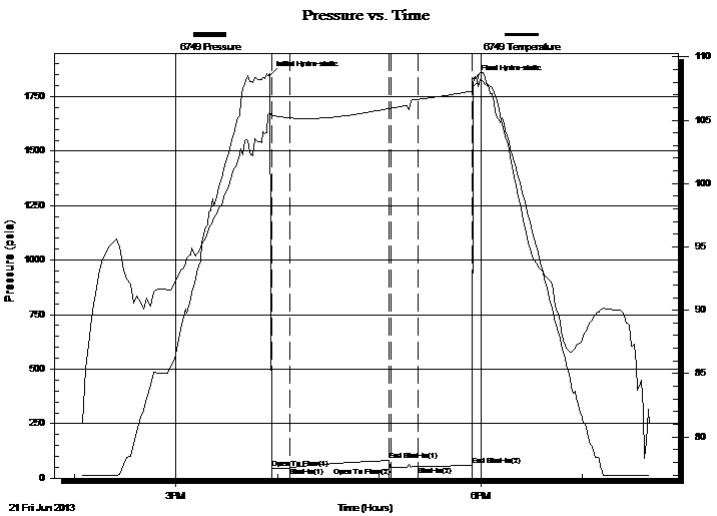
End Time: 19:39:30

Time On Btm: 2013.06.21 @ 15:55:30

Time Off Btm: 2013.06.21 @ 17:56:00

TEST COMMENT: 1ST Open 10 Minutes/Weak blow/Blow built to 1 inch
 1ST Shut In 60 Minutes/No blow back
 2ND Open 17 Minutes/Dead no blow /Flush tool didnt help
 2ND Shut In 30 Minutes/No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1847.32	105.61	Initial Hydro-static
1	46.32	105.39	Open To Flow (1)
12	47.53	105.17	Shut-In(1)
71	81.34	105.92	End Shut-In(1)
72	48.69	105.94	Open To Flow (2)
88	52.24	106.65	Shut-In(2)
120	58.63	107.30	End Shut-In(2)
121	1830.56	107.74	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	Mud 100%	0.42

Gas Rates

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



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Tester: Ken Swinney

Unit No: 3325 Great Bend/56

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Reference Elevations: 1985.00 ft (KB)

Total Depth: 3881.00 ft (KB) (TVD)

1973.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Fair

KB to GR/CF: 12.00 ft

Serial #: 6838 Outside

Press @ RunDepth: 62.21 psia @ 3873.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.06.21 End Date: 2013.06.21

Last Calib.: 2013.06.21

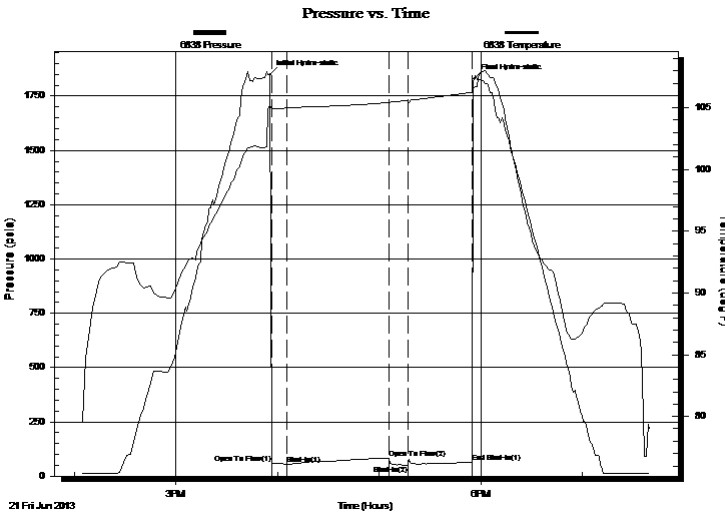
Start Time: 14:04:00 End Time: 19:40:00

Time On Btm: 2013.06.21 @ 15:55:30

Time Off Btm: 2013.06.21 @ 17:56:00

TEST COMMENT: 1ST Open 10 Minutes/Weak blow/Blow built to 1 inch
1ST Shut In 60 Minutes/No blow back
2ND Open 17 Mintues/Dead no blow /Flush tool didnt help
2ND Shut In 30 Minutes/No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1848.04	105.15	Initial Hydro-static
1	58.65	104.94	Open To Flow (1)
10	53.11	104.99	Shut-In(1)
71	84.14	105.45	Open To Flow (2)
82	51.43	105.59	Shut-In(2)
120	62.21	106.26	End Shut-In(1)
121	1829.65	106.62	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	Mud 100%	0.42

Gas Rates

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



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TOOL DIAGRAM

Younger Energy Company

33/21S/15W/Pawnee

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DST#: 3

Test Start: 2013.06.21 @ 14:04:00

Tool Information

Drill Pipe:	Length: 3840.00 ft	Diameter: 3.80 inches	Volume: 53.87 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: 90000.00 lb
			<u>Total Volume: 53.87 bbl</u>	Tool Chased 1.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 51000.00 lb
Depth to Top Packer:	3849.00 ft			Final 51000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	27.00 ft			
Tool Length:	54.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments: Replaced damaged packer

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3827.00	
Hydraulic Tool	5.00			3832.00	
Jars	5.00			3837.00	
Safety Joint	2.00			3839.00	
Packer	5.00			3844.00	27.00 Bottom Of Top Packer
Packer	5.00			3849.00	
Anchor	22.00			3871.00	
Recorder	1.00	6749	Inside	3872.00	
Recorder	1.00	6838	Outside	3873.00	
Bullnose	3.00			3876.00	27.00 Bottom Packers & Anchor
Total Tool Length:	54.00				



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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: 54.00 sec/qt
 Water Loss: 7.99 in³
 Resistivity: ohm.m
 Salinity: 5300.00 ppm
 Filter Cake: 1.00 inches

Cushion Type:
 Cushion Length: ft
 Cushion Volume: bbl
 Gas Cushion Type:
 Gas Cushion Pressure: psia

Oil API: deg API
 Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	Mud 100%	0.421

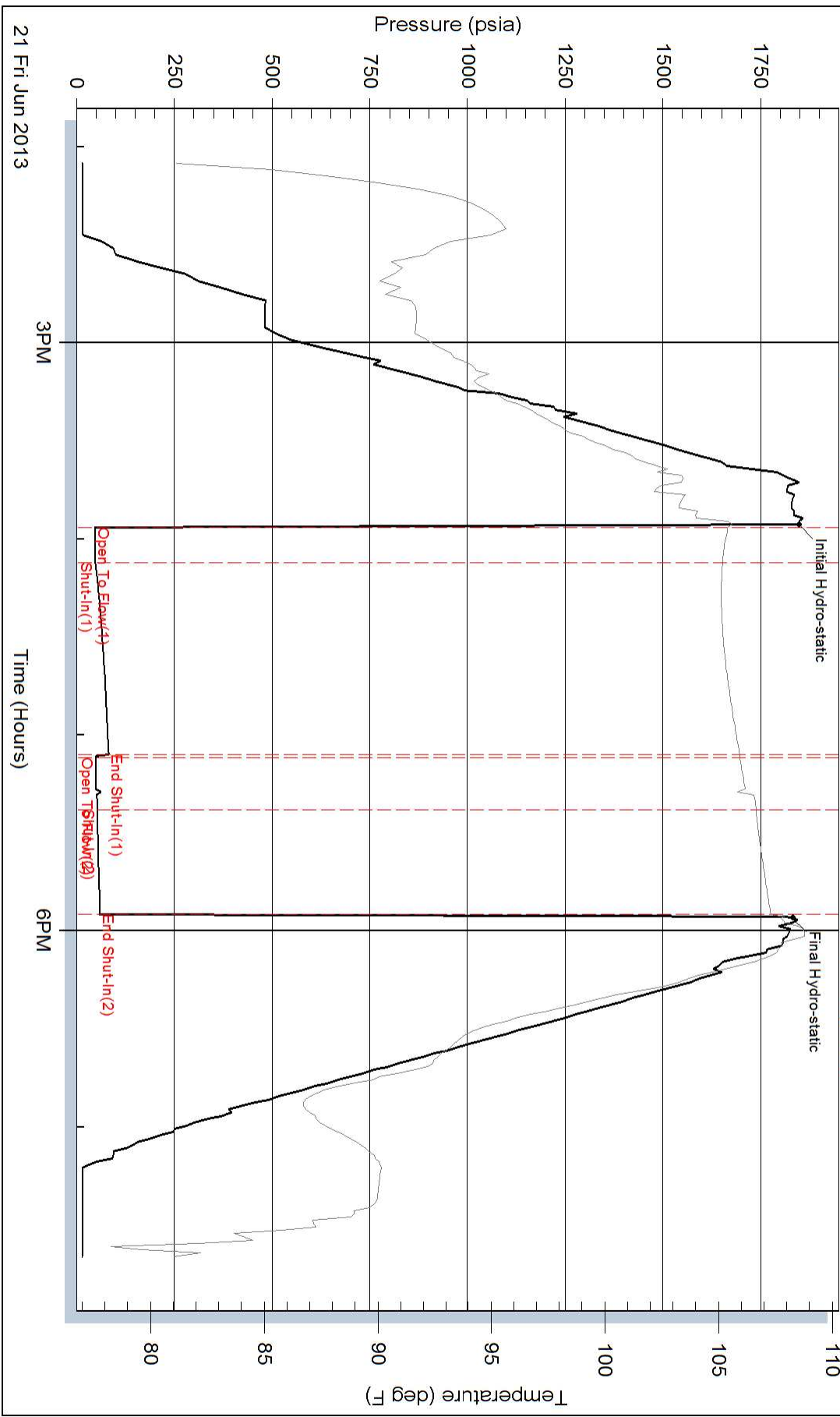
Total Length: 30.00 ft Total Volume: 0.421 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

Pressure vs. Time



Pressure vs. Time

