

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

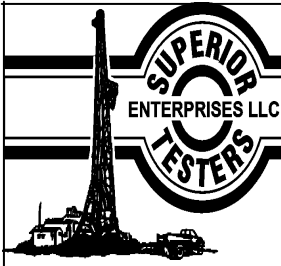
Start Date: 2013.06.21 @ 04:01:00

End Date: 2013.06.21 @ 09:04:00

Job Ticket #: 18132 DST #: 2

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

Printed: 2013.06.21 @ 09:17:55



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DST#: 2

Test Start: 2013.06.21 @ 04:01:00

GENERAL INFORMATION:

Formation: **Viola**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:01:30

Time Test Ended: 09:04:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 3325 Great Bend/56

Interval: 3853.00 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 @ Run Depth: 936.73 psia @ 3877.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.06.21

End Date: 2013.06.21

Last Calib.: 2013.06.21

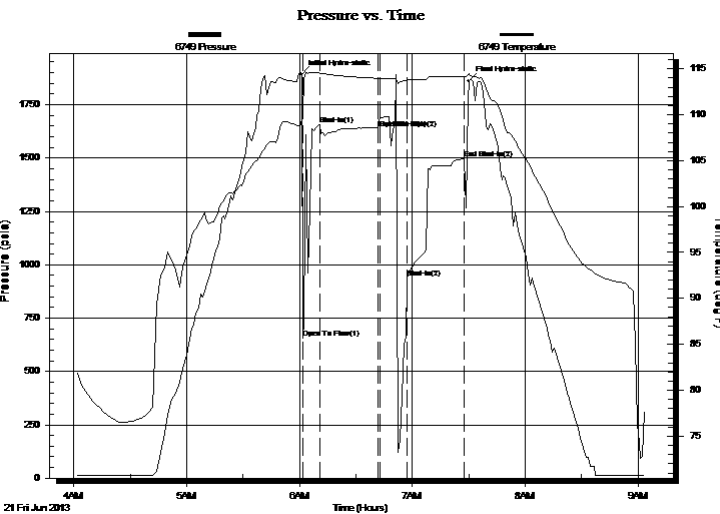
Start Time: 04:01:00

End Time: 09:04:00

Time On Btm: 2013.06.21 @ 06:01:00

Time Off Btm: 2013.06.21 @ 07:30:00

TEST COMMENT: 1ST Open 10 Mintues/13 foot slide/Blow at 5 3/4 inch after slide/Weak build to 6 1/4 inch
1ST Shut In 30 Mintues/No blow back
2ND Open 15 Mintues/Dead no blow /Flush tool didnt help
2ND Shut In 30 Mintues/No blow back



PRESSURE SUMMARY

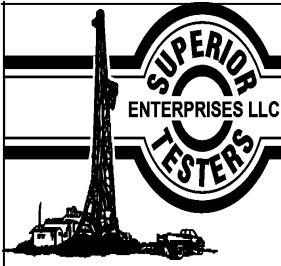
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1893.65	109.71	Initial Hydro-static
1	658.52	110.03	Open To Flow (1)
10	1656.37	114.53	Shut-In(1)
41	1640.36	113.97	End Shut-In(1)
42	1681.18	113.98	Open To Flow (2)
56	936.73	113.79	Shut-In(2)
87	1495.13	114.16	End Shut-In(2)
89	1861.02	114.48	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
75.00	Mud 100%	1.05

Gas Rates

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



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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 @ Run Depth: 1495.17 psia @ 3878.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.06.21

End Date: 2013.06.21

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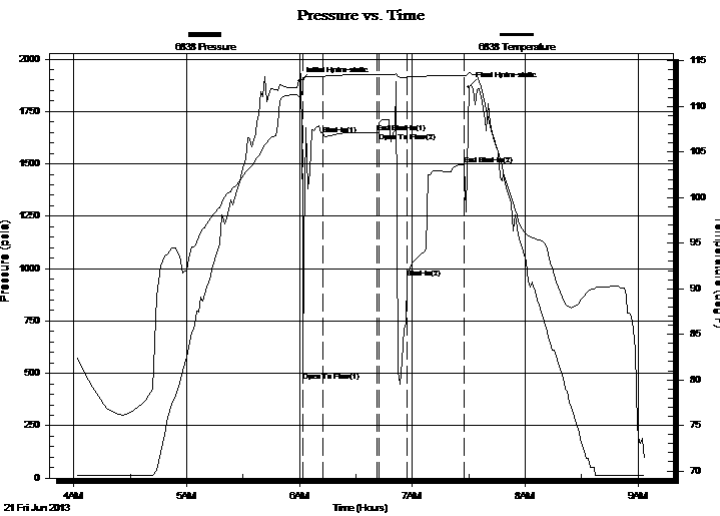
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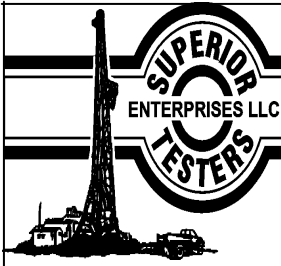
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1894.42	111.10	Initial Hydro-static
2	461.97	112.68	Open To Flow (1)
13	1641.58	113.33	Shut-In(1)
41	1649.02	113.53	End Shut-In(1)
42	1648.82	113.53	Open To Flow (2)
57	954.97	113.23	Shut-In(2)
88	1495.17	113.42	End Shut-In(2)
90	1867.23	113.74	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
75.00	Mud 100%	1.05

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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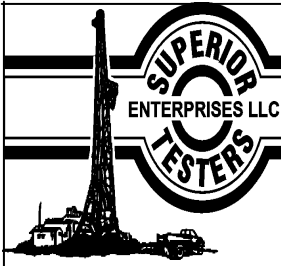
Tool Information

Drill Pipe:	Length: 3845.00 ft	Diameter: 3.80 inches	Volume: 53.94 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: 80000.00 lb
			<u>Total Volume: 53.94 bbl</u>	Tool Chased 13.00 ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial 51000.00 lb
Depth to Top Packer:	3853.00 ft			Final 51000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	28.00 ft			
Tool Length:	55.00 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			3831.00	
Hydraulic Tool	5.00			3836.00	
Jars	5.00			3841.00	
Safety Joint	2.00			3843.00	
Packer	5.00			3848.00	27.00 Bottom Of Top Packer
Packer	5.00			3853.00	
Anchor	23.00			3876.00	
Recorder	1.00	6749	Inside	3877.00	
Recorder	1.00	6838	Outside	3878.00	
Bullnose	3.00			3881.00	28.00 Bottom Packers & Anchor
Total Tool Length:	55.00				



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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: 61.00 sec/qt
Water Loss: 7.20 in³
Resistivity: ohm.m
Salinity: 3900.00 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
75.00	Mud 100%	1.052

Total Length: 75.00 ft Total Volume: 1.052 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

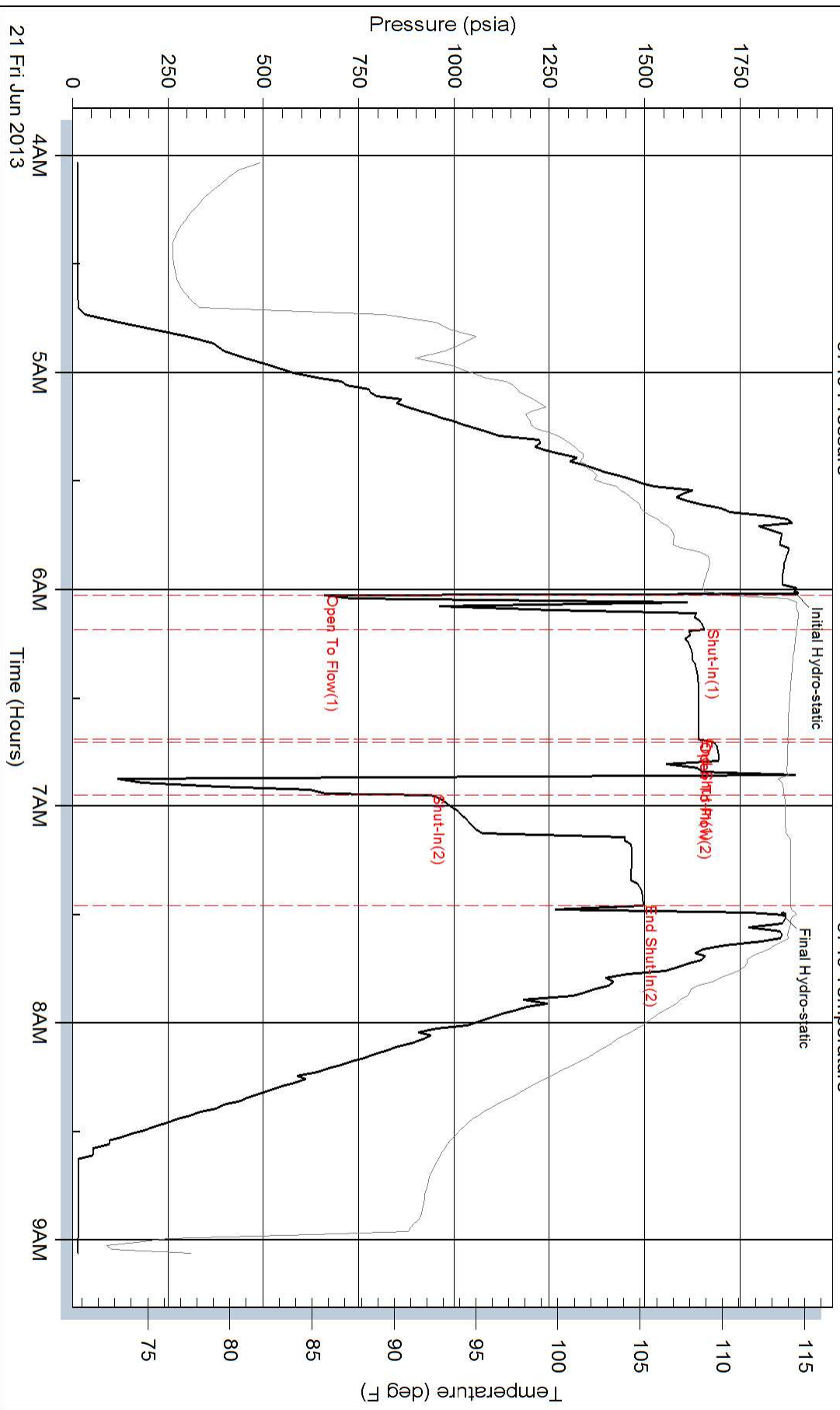
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



Pressure vs. Time

