



## DRILL STEM TEST REPORT

Prepared For: **LB Exploration Incorporated**

2135 2ND Road  
Holyrood, Kansas 67450+9021

ATTN: Steven Peterson

### **Kingston #4**

### **34/16S/14W/Barton**

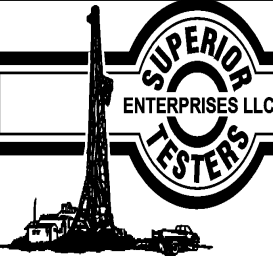
Start Date: 2012.05.28 @ 22:41:00

End Date: 2012.05.29 @ 05:06:30

Job Ticket #: 17645                      DST #: 4

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

Printed: 2012.05.29 @ 05:28:22



# DRILL STEM TEST REPORT

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**34/16S/14W/Barton**  
**Kingston #4**  
 Job Ticket: 17645      **DST#: 4**  
 Test Start: 2012.05.28 @ 22:41:00

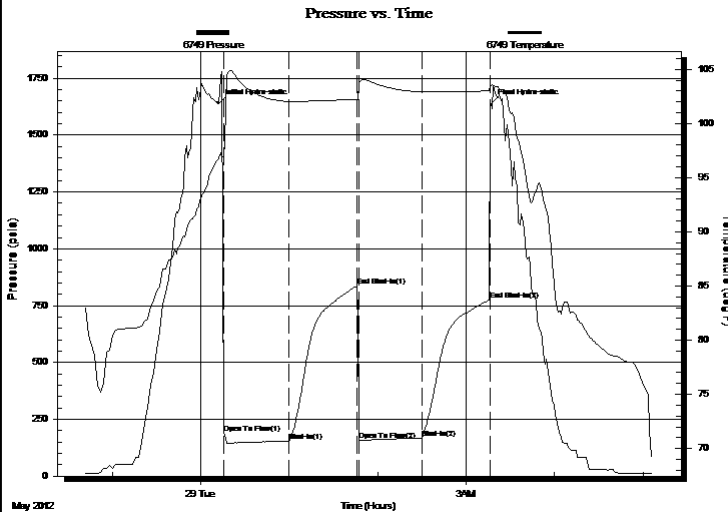
## GENERAL INFORMATION:

**Formation:** Lansing/Kansas City  
**Deviated:** No      **Whipstock:** ft (KB)  
**Test Type:** Conventional Straddle (Initial)  
**Tester:** Ken Swinney  
**Time Tool Opened:** 00:15:30  
**Time Test Ended:** 05:06:30  
**Unit No:** 3325 Great Bend/45  
**Interval:** 3338.00 ft (KB) To 3403.00 ft (KB) (TVD)  
**Reference Elevations:** 1973.00 ft (KB)  
 1966.00 ft (CF)  
**Total Depth:** 3550.00 ft (KB) (TVD)  
**Hole Diameter:** 7.88 inches  
**Hole Condition:** Fair  
**KB to GR/CF:** 7.00 ft

**Serial #: 6749      Outside**

**Press @ Run Depth:** 167.37 psia @ 3403.13 ft (KB)      **Capacity:** 5000.00 psia  
**Start Date:** 2012.05.28      **End Date:** 2012.05.29      **Last Calib.:** 2012.05.29  
**Start Time:** 22:41:00      **End Time:** 05:06:30      **Time On Btm:** 2012.05.29 @ 00:12:00  
**Time Off Btm:** 2012.05.29 @ 03:17:00

**TEST COMMENT:** 1ST Open 45 Minutes/Strong blow /Blow to bottom of bucket in 1 minute 20 seconds  
 1ST Shut In 45 Minutes/No blow back  
 2ND Open 45 Minutes/Good blow /Blow to bottom of bucket in 24 minutes  
 2ND Shut In 45 Minutes/No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1640.15	96.74	Initial Hydro-static
4	188.07	96.79	Open To Flow (1)
48	153.56	102.01	Shut-In(1)
94	835.93	102.25	End Shut-In(1)
96	156.97	103.81	Open To Flow (2)
138	167.37	102.90	Shut-In(2)
184	775.13	103.00	End Shut-In(2)
185	1636.93	103.54	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	195 feet gas in pipe	0.00
225.00	Oil cut Gassy Mud	2.71
0.00	Oil 10% Gas 30% Mud	0.00

## Gas Rates

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



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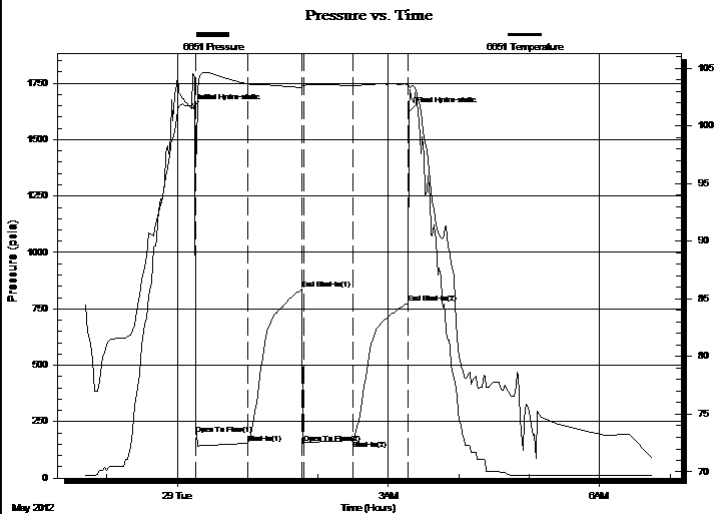
**34/16S/14W/Barton**  
**Kingston #4**  
 Job Ticket: 17645 **DST#: 4**  
 Test Start: 2012.05.28 @ 22:41:00

## GENERAL INFORMATION:

Formation: **Lansing/Kansas City**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 00:15:30  
 Time Test Ended: 05:06:30  
 Interval: **3338.00 ft (KB) To 3403.00 ft (KB) (TVD)**  
 Total Depth: 3550.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Straddle (Initial)  
 Tester: Ken Swinney  
 Unit No: 3325 Great Bend/45  
 Reference Elevations: 1973.00 ft (KB)  
 1966.00 ft (CF)  
 KB to GR/CF: 7.00 ft

**Serial #: 6651 Inside**  
 Press @ RunDepth: 775.64 psia @ 3402.13 ft (KB) Capacity: 5000.00 psia  
 Start Date: 2012.05.28 End Date: 2012.05.29 Last Calib.: 2012.05.29  
 Start Time: 22:41:00 End Time: 06:45:03 Time On Btm: 2012.05.29 @ 00:12:30  
 Time Off Btm: 2012.05.29 @ 03:17:30

**TEST COMMENT:** 1ST Open 45 Minutes/Strong blow /Blow to bottom of bucket in 1 minute 20 seconds  
 1ST Shut In 45 Minutes/No blow back  
 2ND Open 45 Minutes/Good blow /Blow to bottom of bucket in 24 minutes  
 2ND Shut In 45 Minutes/No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1639.10	101.81	Initial Hydro-static
3	193.94	97.64	Open To Flow (1)
48	153.46	103.65	Shut-In(1)
94	836.64	103.34	End Shut-In(1)
95	156.39	103.48	Open To Flow (2)
138	166.92	103.50	Shut-In(2)
185	775.64	103.64	End Shut-In(2)
185	1624.75	103.52	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	195 feet gas in pipe	0.00
225.00	Oil cut Gassy Mud	2.71
0.00	Oil 10% Gas 30% Mud	0.00

## Gas Rates

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



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**34/16S/14W/Barton**  
**Kingston #4**  
 Job Ticket: 17645      **DST#: 4**  
 Test Start: 2012.05.28 @ 22:41:00

## GENERAL INFORMATION:

Formation: **Lansing/Kansas City**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:15:30

Time Test Ended: 05:06:30

Test Type: Conventional Straddle (Initial)

Tester: Ken Swinney

Unit No: 3325 Great Bend/45

Interval: **3338.00 ft (KB) To 3403.00 ft (KB) (TVD)**

Reference Elevations: 1973.00 ft (KB)

Total Depth: 3550.00 ft (KB) (TVD)

1966.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

## Serial #: 6999

Press @ RunDepth: 1188.80 psia @ 3552.31 ft (KB)

Capacity: 5000.00 psia

Start Date: 2012.05.28

End Date: 2012.05.29

Last Calib.: 2012.05.29

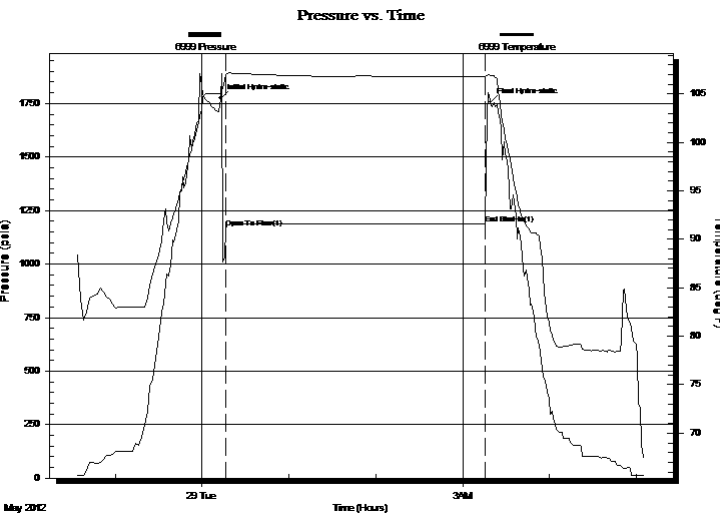
Start Time: 22:33:00

End Time: 05:06:00

Time On Btm: 2012.05.29 @ 00:12:30

Time Off Btm: 2012.05.29 @ 03:19:00

**TEST COMMENT:** 1ST Open 45 Minutes/Strong blow /Blow to bottom of bucket in 1 minute 20 seconds  
 1ST Shut In 45 Minutes/No blow back  
 2ND Open 45 Minutes/Good blow /Blow to bottom of bucket in 24 minutes  
 2ND Shut In 45 Minutes/No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1774.79	105.06	Initial Hydro-static
5	1170.08	106.95	Open To Flow (1)
184	1188.80	106.83	End Shut-In(1)
187	1754.52	106.91	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	195 feet gas in pipe	0.00
225.00	Oil cut Gassy Mud	2.71
0.00	Oil 10% Gas 30% Mud	0.00

## Gas Rates

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



# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

LB Exploration Incorporated  
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**34/16S/14W/Barton**  
**Kingston #4**  
 Job Ticket: 17645      **DST#: 4**  
 Test Start: 2012.05.28 @ 22:41:00

**Tool Information**

Drill Pipe:	Length: 3259.00 ft	Diameter: 3.88 inches	Volume: 47.66 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: 60.00 ft	Diameter: 2.25 inches	Volume: 0.30 bbl	Weight to Pull Loose: 52000.00 lb
			<u>Total Volume: 47.96 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3338.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	3403.13 ft			
Interval between Packers:	65.13 ft			
Tool Length:	244.31 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3316.00	
Hydraulic Tool	5.00			3321.00	
Jars	5.00			3326.00	
Safety Joint	2.00			3328.00	
Packer	5.00			3333.00	27.00      Bottom Of Top Packer
Packer	5.00			3338.00	
Perforations	6.00			3344.00	
Change Over Sub	0.70			3344.70	
Drill Pipe	29.63			3374.33	
Change Over Sub	0.70			3375.03	
Anchor	26.10			3401.13	
Recorder	1.00	6651	Inside	3402.13	
Recorder	1.00	6749	Outside	3403.13	65.13      Tool Interval
Packer	5.00			3408.13	
Change Over Sub	0.65			3408.78	
Drill Pipe	125.18			3533.96	
Change Over Sub	0.65			3534.61	
Perforations	16.00			3550.61	
Recorder	1.70	6999		3552.31	
Bullnose	3.00			3555.31	152.18      Bottom Packers & Anchor

**Total Tool Length: 244.31**



# DRILL STEM TEST REPORT

## FLUID SUMMARY

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ATTN: Steven Peterson

**34/16S/14W/Barton**  
**Kingston #4**  
Job Ticket: 17645      **DST#: 4**  
Test Start: 2012.05.28 @ 22:41:00

### 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: 47.00 sec/qt	Cushion Volume: bbl		
Water Loss: 11.99 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 6000.00 ppm			
Filter Cake: 1.00 inches			

### Recovery Information

Recovery Table

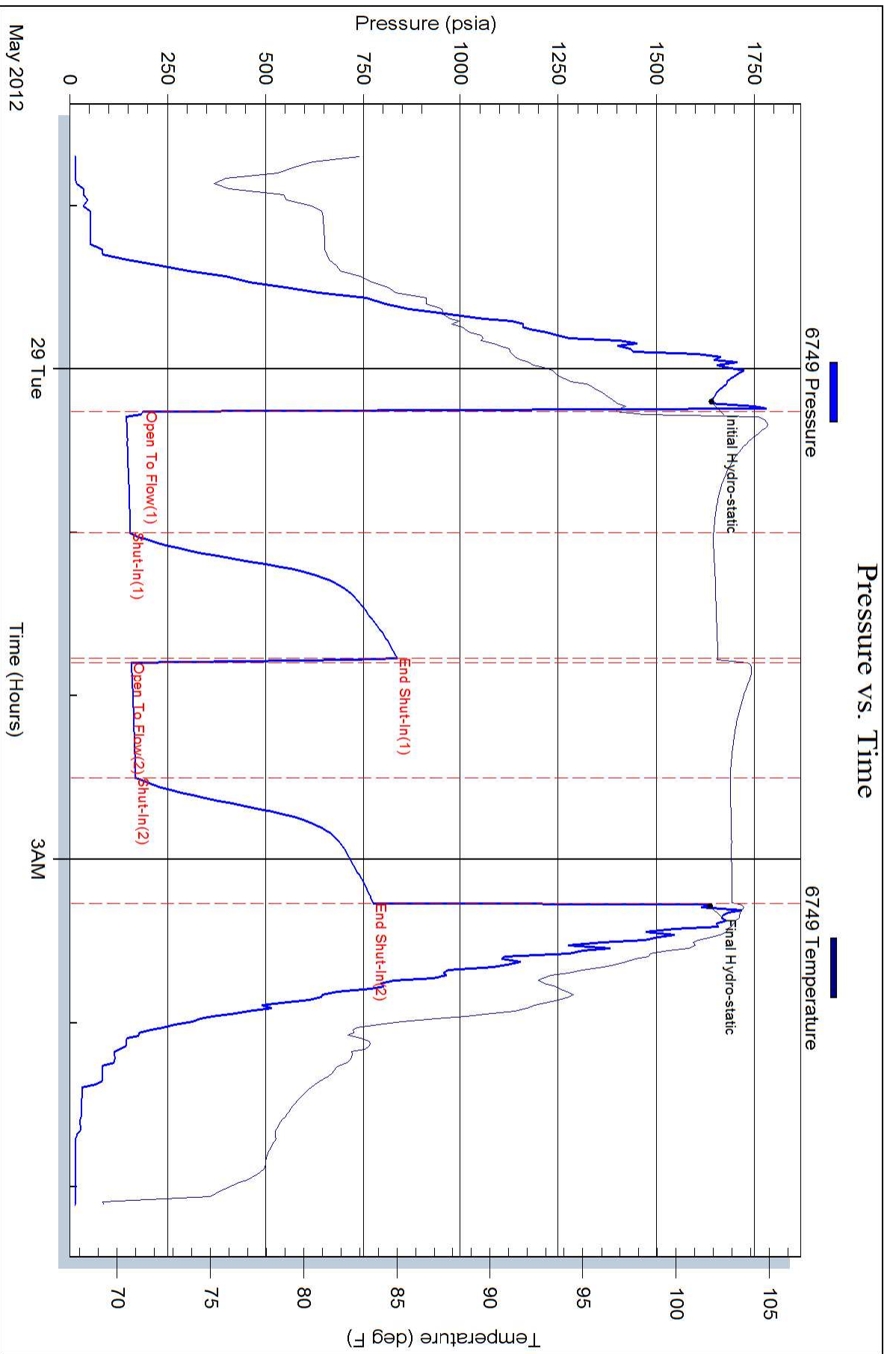
Length ft	Description	Volume bbl
0.00	195 feet gas in pipe	0.000
225.00	Oil cut Gassy Mud	2.708
0.00	Oil 10% Gas 30% Mud	0.000

Total Length: 225.00 ft      Total Volume: 2.708 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments:



Serial #: 6651

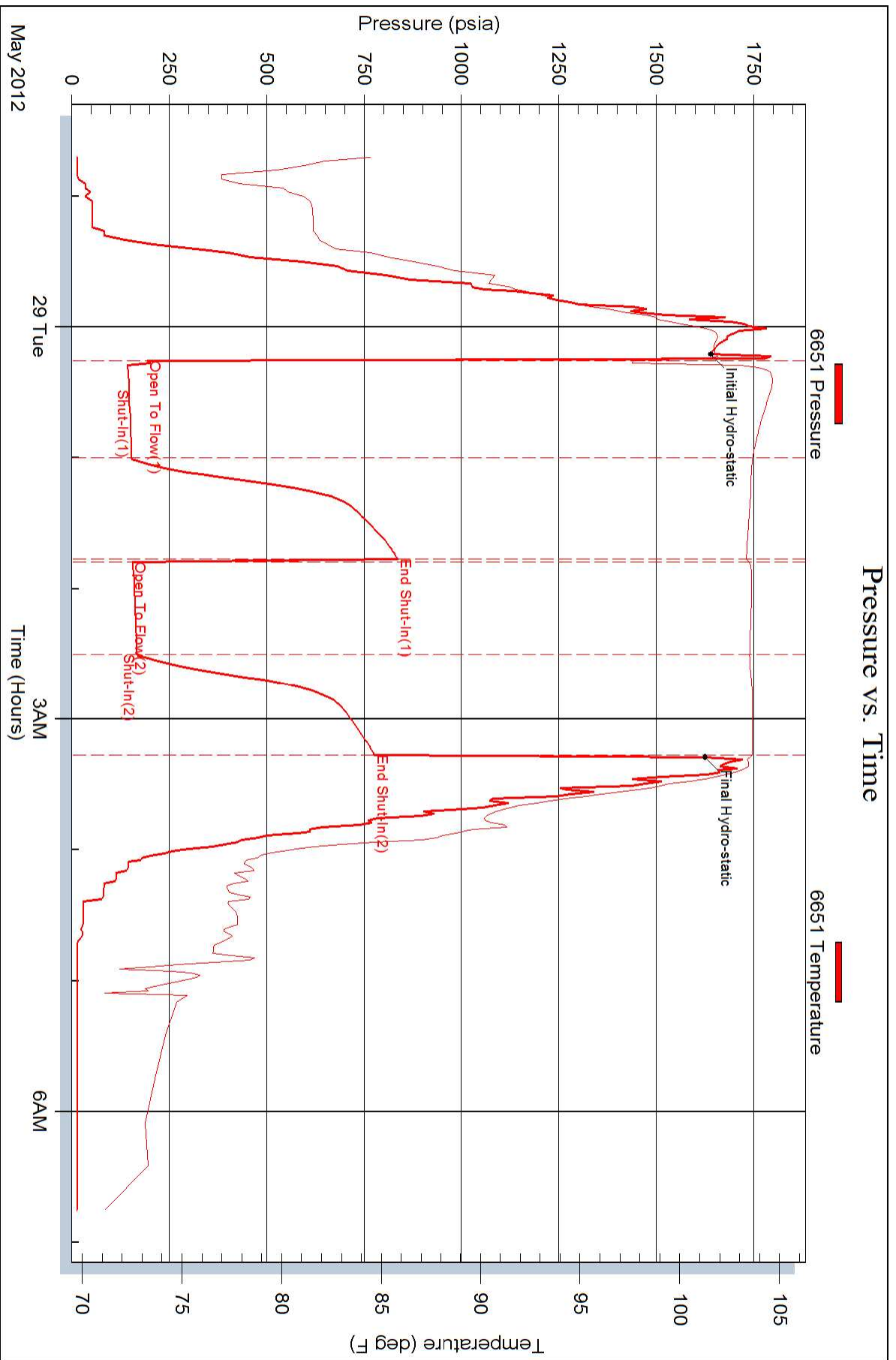
Inside

LB Exploration Incorporated

Kingston #4

DST Test Number: 4

### Pressure vs. Time



Superior Testers Enterprises LLC

Ref. No: 17645

Printed: 2012.05.29 @ 05:28:24



