



## DRILL STEM TEST REPORT

Prepared For: **L B Exploration Inc**

2135 2nd Rd Holyrood KS 67450+9021

ATTN: Steven Petermann

### **Kingston #5**

### **3-17-14w Barton**

Start Date: 2013.07.15 @ 15:15:00

End Date: 2013.07.15 @ 19:46:30

Job Ticket #: 17009                      DST #: 2

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

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# DRILL STEM TEST REPORT

L B Exploration Inc  
 2135 2nd Rd Holyrood KS 67450+9021  
 ATTN: Steven Petermann

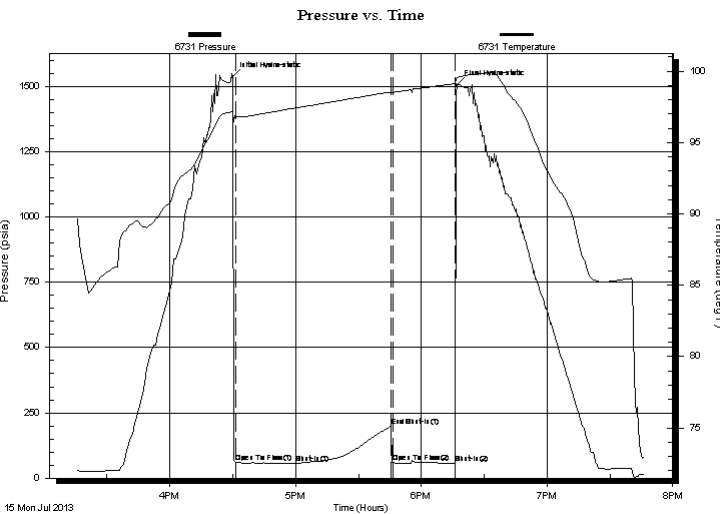
**3-17-14w Barton**  
**Kingston #5**  
 Job Ticket: 17009 **DST#:2**  
 Test Start: 2013.07.15 @ 15:15:00

## GENERAL INFORMATION:

Formation: **Lansing E- F**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 16:31:30  
 Time Test Ended: 19:46:30  
 Interval: **3252.00 ft (KB) To 3285.00 ft (KB) (TVD)**  
 Total Depth: 3285.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Jared Scheck  
 Unit No: 3320-Great Bend-  
 Reference Elevations: 1965.00 ft (KB)  
 1955.00 ft (CF)  
 KB to GR/CF: 10.00 ft

**Serial #: 6731 Inside**  
 Press@RunDepth: 58.02 psia @ 3281.00 ft (KB) Capacity: 5000.00 psia  
 Start Date: 2013.07.15 End Date: 2013.07.15 Last Calib.: 2013.07.15  
 Start Time: 15:15:00 End Time: 19:46:30 Time On Btm: 2013.07.15 @ 16:30:00  
 Time Off Btm: 2013.07.15 @ 18:17:00

**TEST COMMENT:** 1st Opening 30 Minutes-Very weak surface blow built 1/4 inch into bucket w ater in 30 minutes  
 1st Shut-in 45 Minutes-No blow back  
 2nd Opening 15 Minutes-Very weak surge did not build pulled tool



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1535.97	97.18	Initial Hydro-static
2	61.69	96.84	Open To Flow (1)
30	58.02	97.42	Shut-In(1)
76	199.16	98.54	End Shut-In(1)
77	58.92	98.53	Open To Flow (2)
106	58.33	99.13	Shut-In(2)
107	1505.49	99.53	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
6.00	mud	0.08

## Gas Rates

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



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 Job Ticket: 17009 **DST#:2**  
 Test Start: 2013.07.15 @ 15:15:00

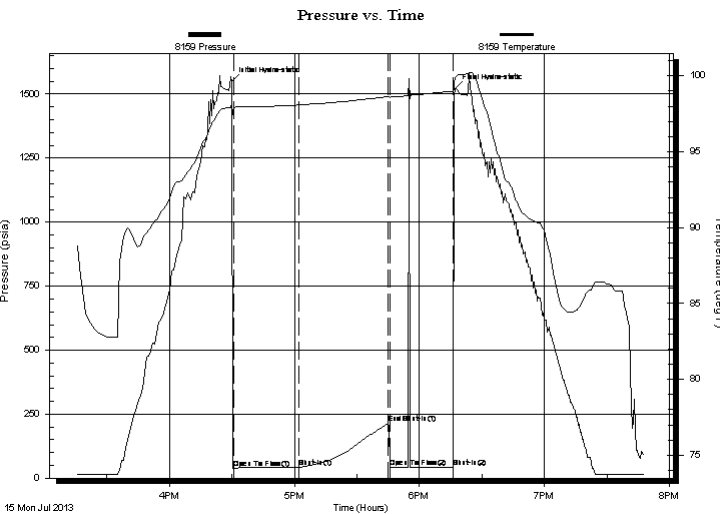
## GENERAL INFORMATION:

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 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 16:31:30  
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 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Jared Scheck  
 Unit No: 3320-Great Bend-  
 Interval: **3252.00 ft (KB) To 3285.00 ft (KB) (TVD)**  
 Total Depth: 3285.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Reference Elevations: 1965.00 ft (KB)  
 1955.00 ft (CF)  
 KB to GR/CF: 10.00 ft

## Serial #: 8159

Press@RunDepth: 212.98 psia @ ft (KB) Capacity: 5000.00 psia  
 Start Date: 2013.07.15 End Date: 2013.07.15 Last Calib.: 2013.07.15  
 Start Time: 15:15:00 End Time: 19:48:00 Time On Btm: 2013.07.15 @ 16:30:00  
 Time Off Btm: 2013.07.15 @ 18:17:00

**TEST COMMENT:** 1st Opening 30 Minutes-Very weak surface blow built 1/4 inch into bucket w water in 30 minutes  
 1st Shut-in 45 Minutes-No blow back  
 2nd Opening 15 Minutes-Very weak surge did not build pulled tool



## PRESSURE SUMMARY

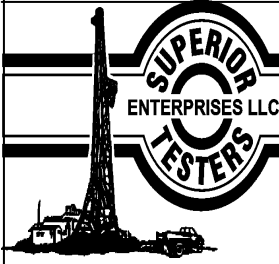
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1549.93	98.15	Initial Hydro-static
1	39.83	97.92	Open To Flow (1)
32	41.65	98.08	Shut-In(1)
75	212.98	98.63	End Shut-In(1)
76	41.48	98.60	Open To Flow (2)
106	43.38	99.01	Shut-In(2)
107	1520.31	99.89	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
6.00	mud	0.08

## Gas Rates

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



# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

L B Exploration Inc  
 2135 2nd Rd Holyrood KS 67450+9021  
 ATTN: Steven Petermann

**3-17-14w Barton**  
**Kingston #5**  
 Job Ticket: 17009      **DST#:2**  
 Test Start: 2013.07.15 @ 15:15:00

**Tool Information**

Drill Pipe:	Length: 3252.00 ft	Diameter: 3.80 inches	Volume: 45.62 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:	60000.00 lb
			<u>Total Volume: 45.62 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial	48000.00 lb
Depth to Top Packer:	3252.00 ft			Final	48000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	33.00 ft				
Tool Length:	53.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

<b>Tool Description</b>	<b>Length (ft)</b>	<b>Serial No.</b>	<b>Position</b>	<b>Depth (ft)</b>	<b>Accum. Lengths</b>
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Shut-In Tool	5.00			3237.00	
Hydraulic Tool	5.00			3242.00	
Packer	5.00			3247.00	20.00      Bottom Of Top Packer
Packer	5.00			3252.00	
Anchor	28.00			3280.00	
Recorder	1.00	6731	Inside	3281.00	
Recorder	1.00	8156	Outside	3282.00	
Bullnose	3.00			3285.00	33.00      Bottom Packers & Anchor

**Total Tool Length: 53.00**



# DRILL STEM TEST REPORT

## 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: 51.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.20 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 3000.00 ppm			
Filter Cake: inches			

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
6.00	mud	0.084

Total Length: 6.00 ft      Total Volume: 0.084 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments:

### Pressure vs. Time

