



## DRILL STEM TEST REPORT

Prepared For: **LB Exploration Inc.**

2135 2nd RD.  
Holyrood Ks, 67450-9021

ATTN: Steve Petermann

### **Spencer's Bluffs #6**

#### **16/32s/13w/Barber**

Start Date: 2013.11.04 @ 22:48:00

End Date: 2013.11.05 @ 05:23:30

Job Ticket #: 18515                      DST #: 4

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

Printed: 2013.11.05 @ 05:39:09



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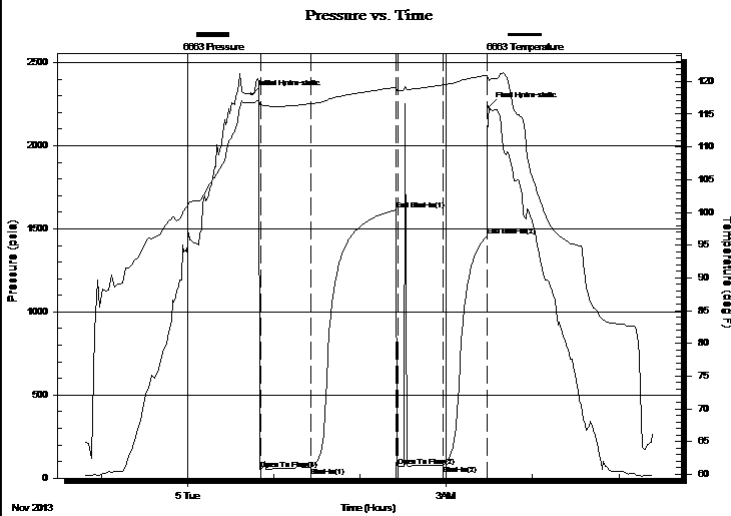
**16/32s/13w/Barber**  
**Spencer's Bluffs #6**  
 Job Ticket: 18515 **DST#: 4**  
 Test Start: 2013.11.04 @ 22:48:00

## GENERAL INFORMATION:

Formation: **Marmaton/Massey**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 00:50:30 Tester: Shane Konzem  
 Time Test Ended: 05:23:30 Unit No: 3330/196/Great Bend  
 Interval: **4493.00 ft (KB) To 4542.00 ft (KB) (TVD)** Reference Elevations: 1828.00 ft (KB)  
 Total Depth: 4542.00 ft (KB) (TVD) 1815.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Poor KB to GR/CF: 13.00 ft

**Serial #: 6663 Inside**  
 Press @ Run Depth: 79.52 psia @ 4538.00 ft (KB) Capacity: 5000.00 psia  
 Start Date: 2013.11.04 End Date: 2013.11.05 Last Calib.: 2013.11.05  
 Start Time: 22:48:00 End Time: 05:23:30 Time On Btm: 2013.11.05 @ 00:44:30  
 Time Off Btm: 2013.11.05 @ 03:29:30

**TEST COMMENT:** 1st Open/ 30 Minutes. Weak blow built to 2 inches in 5 gallon bucket.  
 1st Shut In/ 60 Minutes. No blow back.  
 2nd Open/ 30 Minutes. No blow, flushed tool and gained a weak blow built to 1 inch in 5 gallon bucket.  
 2nd Shut In/ 30 Minutes. No blow back.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2309.74	116.70	Initial Hydro-static
6	54.01	116.50	Open To Flow (1)
41	64.85	116.57	Shut-In(1)
101	1614.56	119.08	End Shut-In(1)
102	68.68	118.69	Open To Flow (2)
133	79.52	119.46	Shut-In(2)
164	1456.68	120.90	End Shut-In(2)
165	2233.45	120.19	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
50.00	20% mud, 80% water	0.70
0.00	chloride recov, 28000 ppm	0.00
0.00	resist recov, .21 at 40 degrees.	0.00

## Gas Rates

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



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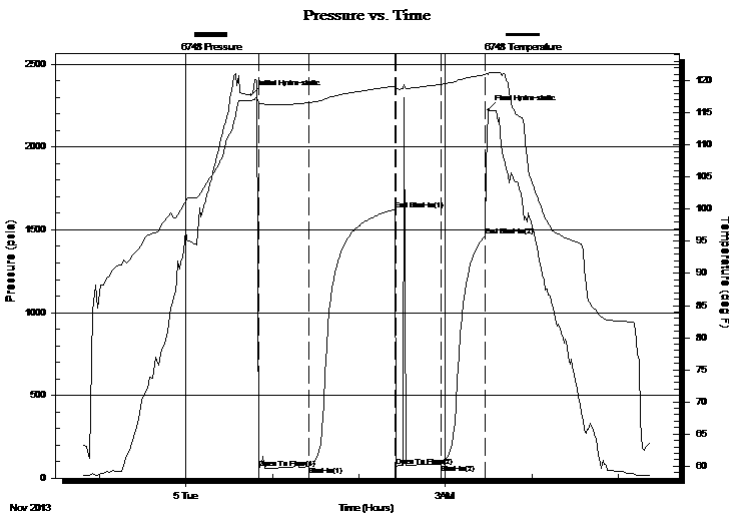
**16/32s/13w/Barber**  
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 Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 00:50:30 Tester: Shane Konzem  
 Time Test Ended: 05:23:30 Unit No: 3330/196/Great Bend  
 Interval: **4493.00 ft (KB) To 4542.00 ft (KB) (TVD)** Reference Elevations: 1828.00 ft (KB)  
 Total Depth: 4542.00 ft (KB) (TVD) 1815.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Poor KB to GR/CF: 13.00 ft

**Serial #: 6748 Outside**  
 Press @ RunDepth: 1462.32 psia @ 4539.00 ft (KB) Capacity: 5000.00 psia  
 Start Date: 2013.11.04 End Date: 2013.11.05 Last Calib.: 2013.11.05  
 Start Time: 22:48:00 End Time: 05:23:00 Time On Btm: 2013.11.05 @ 00:45:30  
 Time Off Btm: 2013.11.05 @ 03:30:00

**TEST COMMENT:** 1st Open/ 30 Minutes. Weak blow built to 2 inches in 5 gallon bucket.  
 1st Shut In/ 60 Minutes. No blow back.  
 2nd Open/ 30 Minutes. No blow, flushed tool and gained a weak blow built to 1 inch in 5 gallon bucket.  
 2nd Shut In/ 30 Minutes. No blow back.



### PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2315.32	116.97	Initial Hydro-static
5	58.90	116.59	Open To Flow (1)
40	69.62	116.57	Shut-In(1)
100	1622.18	119.16	End Shut-In(1)
100	74.66	118.66	Open To Flow (2)
132	84.66	119.44	Shut-In(2)
162	1462.32	120.91	End Shut-In(2)
165	2225.06	121.07	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
50.00	20% mud, 80% water	0.70
0.00	chloride recov, 28000 ppm	0.00
0.00	resist recov, .21 at 40 degrees.	0.00

### Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
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# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

LB Exploration Inc.  
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**16/32s/13w/Barber**  
**Spencer's Bluffs #6**  
 Job Ticket: 18515      **DST#: 4**  
 Test Start: 2013.11.04 @ 22:48:00

**Tool Information**

Drill Pipe:	Length: 4487.00 ft	Diameter: 3.80 inches	Volume: 62.94 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:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	76000.00 lb
			<u>Total Volume: 62.94 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial	54000.00 lb
Depth to Top Packer:	4493.00 ft			Final	56000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	49.00 ft				
Tool Length:	70.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4473.00	
Shut-In Tool	5.00			4478.00	
Hydroic Tool	5.00			4483.00	
Packer	5.00			4488.00	21.00      Bottom Of Top Packer
Packer	5.00			4493.00	
Perforations	44.00			4537.00	
Recorder	1.00	6663	Inside	4538.00	
Recorder	1.00	6748	Outside	4539.00	
Bullnose	3.00			4542.00	49.00      Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>70.00</b>				



# 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: 53.00 sec/qt	Cushion Volume: bbl		
Water Loss: 10.20 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 6000.00 ppm			
Filter Cake: inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
50.00	20% mud, 80% water	0.701
0.00	chloride recov, 28000 ppm	0.000
0.00	resist recov, .21 at 40 degrees.	0.000

Total Length: 50.00 ft      Total Volume: 0.701 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments:

### Pressure vs. Time

