



## DRILL STEM TEST REPORT

Prepared For: **LB Exploration Inc.**

2135 2nd RD.  
Holyrod Ks, 67450-9021

ATTN: Steve Petermann

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

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

Start Date: 2013.11.02 @ 18:25:00

End Date: 2013.11.03 @ 03:41:00

Job Ticket #: 18513                      DST #: 2

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

Printed: 2013.11.03 @ 03:16:41



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 Job Ticket: 18513      **DST#: 2**  
 Test Start: 2013.11.02 @ 18:25:00

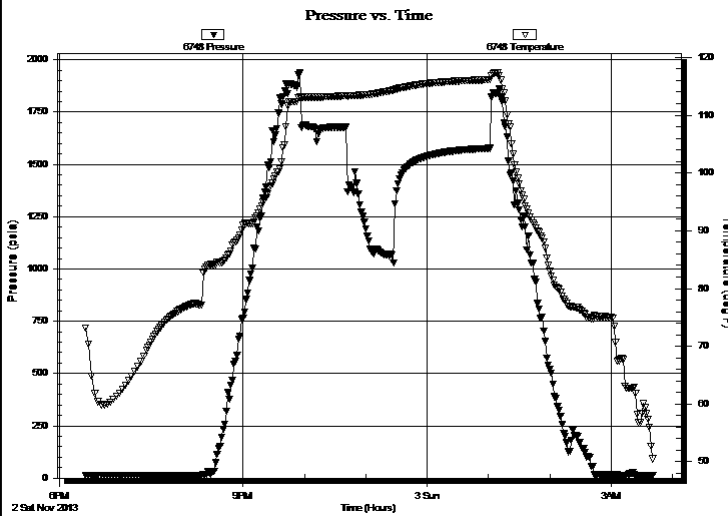
## GENERAL INFORMATION:

Formation: **Douglas Sand**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 00:00:00 Tester: Shane Konzem  
 Time Test Ended: 03:41:00 Unit No: 3330/196/Great Bend  
 Interval: **3924.00 ft (KB) To 3962.00 ft (KB) (TVD)** Reference Elevations: 1828.00 ft (KB)  
 Total Depth: 3995.00 ft (KB) (TVD) 1815.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Poor KB to GR/CF: 13.00 ft

## Serial #: 6748

Press @ Run Depth: psia @ ft (KB) Capacity: 5000.00 psia  
 Start Date: 2013.11.02 End Date: 2013.11.03 Last Calib.: 2013.11.03  
 Start Time: 18:25:00 End Time: 03:41:00 Time On Btm:  
 Time Off Btm:

**TEST COMMENT:** 1st Open/ 15 Minutes. Good blow built to bottom of 5 gallon bucket in 7 minutes and 50 seconds.  
 1st Shut In/ 30 Minutes. No blow back.  
 2nd Open/ 45 Minutes. Good blow built to bottom of 5 gallon bucket in 6 minutes and 45 seconds.  
 2nd Shut In/ 90 Minutes. No blow back.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation

## Recovery

Length (ft)	Description	Volume (bbl)
189.00	30% w ater cut 70% mud	2.65
189.00	27.5% mud, 72.5% w ater	2.65
315.00	5% gas, 5% mud, 90% w ater	4.42
0.00	Chloride recov. 27000 ppm	0.00
0.00	resist recov .21 ohms at 40 degrees	0.00

## Gas Rates

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



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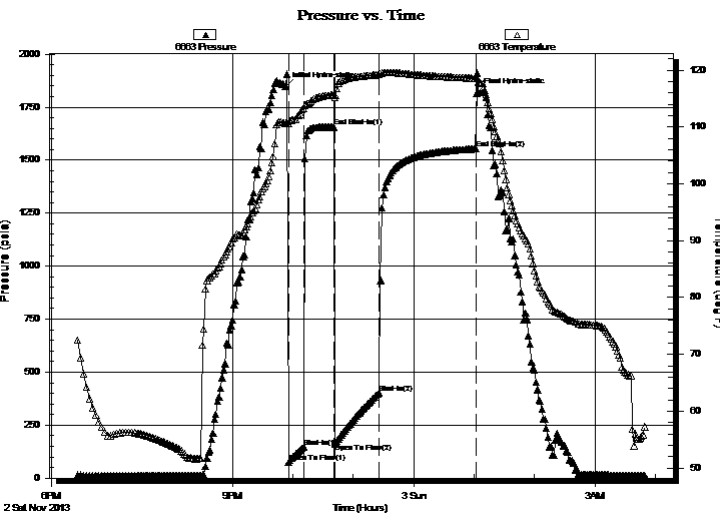
## GENERAL INFORMATION:

Formation: **Douglas Sand**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 00:00:00  
 Time Test Ended: 03:41:00  
 Interval: **3924.00 ft (KB) To 3962.00 ft (KB) (TVD)**  
 Total Depth: 3995.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Poor  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Shane Konzem  
 Unit No: 3330/196/Great Bend  
 Reference Elevations: 1828.00 ft (KB)  
 1815.00 ft (CF)  
 KB to GR/CF: 13.00 ft

## Serial #: 6663

Press @ RunDepth: 1553.47 psia @ ft (KB) Capacity: 5000.00 psia  
 Start Date: 2013.11.02 End Date: 2013.11.03 Last Calib.: 2013.11.03  
 Start Time: 18:25:00 End Time: 03:49:30 Time On Btm: 2013.11.02 @ 21:52:30  
 Time Off Btm: 2013.11.03 @ 01:02:30

**TEST COMMENT:** 1st Open/ 15 Minutes. Good blow built to bottom of 5 gallon bucket in 7 minutes and 50 seconds.  
 1st Shut In/ 30 Minutes. No blow back.  
 2nd Open/ 45 Minutes. Good blow built to bottom of 5 gallon bucket in 6 minutes and 45 seconds.  
 2nd Shut In/ 90 Minutes. No blow back.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1849.15	110.64	Initial Hydro-static
3	74.67	110.58	Open To Flow (1)
18	147.58	113.22	Shut-In(1)
49	1656.39	115.65	End Shut-In(1)
49	162.55	115.17	Open To Flow (2)
93	400.95	119.19	Shut-In(2)
189	1553.47	118.56	End Shut-In(2)
190	1816.81	118.60	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
189.00	30% w ater cut 70% mud	2.65
189.00	27.5% mud, 72.5% w ater	2.65
315.00	5% gas, 5% mud, 90% w ater	4.42
0.00	Chloride recov. 27000 ppm	0.00
0.00	resist recov .21 ohms at 40 degrees	0.00

## Gas Rates

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



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**TOOL DIAGRAM**

LB Exploration Inc.  
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**16/32s/13w/Barber**  
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 Job Ticket: 18513      **DST#: 2**  
 Test Start: 2013.11.02 @ 18:25:00

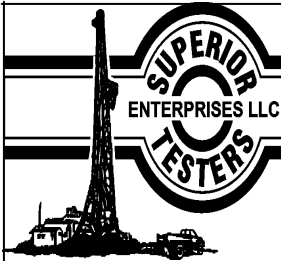
**Tool Information**

Drill Pipe:	Length: 3923.00 ft	Diameter: 3.80 inches	Volume: 55.03 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: 74000.00 lb
			<u>Total Volume: 55.03 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3924.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	71.75 ft			
Tool Length:	92.75 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3904.00	
Shut-In Tool	5.00			3909.00	
Hydroic Tool	5.00			3914.00	
Packer	5.00			3919.00	21.00      Bottom Of Top Packer
Packer	5.00			3924.00	
Perforations	31.00			3955.00	
Recorder	1.00	6663	Inside	3956.00	
Recorder	1.00	6651	Outside	3957.00	
Blank Off Sub	0.75			3957.75	71.75      Tool Interval
Packer	5.00			3962.75	
Perforations	29.00			3991.75	
Recorder	1.00	6748		3992.75	
Bullnose	3.00			3995.75	1000091.75      Bottom Packers & Anchor

**Total Tool Length: 92.75**



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## 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: 8.00 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 2600.00 ppm			
Filter Cake: inches			

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
189.00	30% w ater cut 70% mud	2.651
189.00	27.5% mud, 72.5% w ater	2.651
315.00	5% gas, 5% mud, 90% w ater	4.419
0.00	Chloride recov. 27000 ppm	0.000
0.00	resist recov .21 ohms at 40 degrees	0.000

Total Length: 693.00 ft      Total Volume: 9.721 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:

