



## 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: 2013.07.16 @ 07:45:00

End Date: 2013.07.16 @ 14:20:30

Job Ticket #: 17010                      DST #: 3

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

Printed: 2013.07.20 @ 07:20:57





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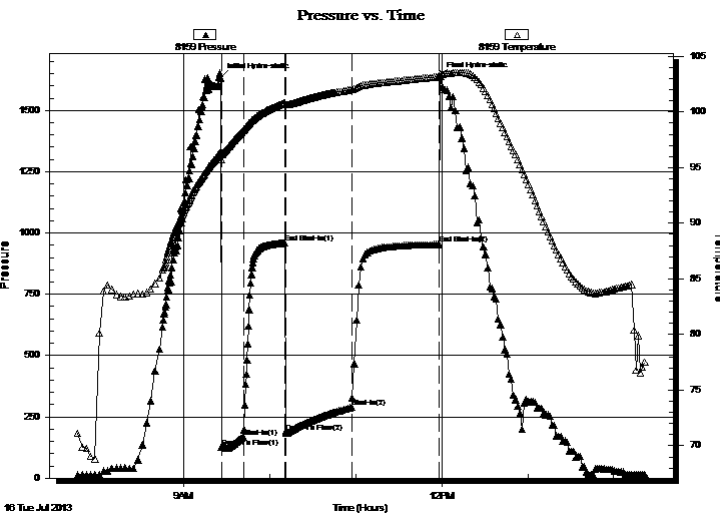
## GENERAL INFORMATION:

Formation: **Lansing H - J**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 09:27:30 Tester: Jared Scheck  
 Time Test Ended: 14:20:30 Unit No: 3320-Great Bend -  
 Interval: **3331.00 ft (KB) To 3394.00 ft (KB) (TVD)** Reference Elevations: 1965.00 ft (KB)  
 Total Depth: 3394.00 ft (KB) (TVD) 1955.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 10.00 ft

## Serial #: 8159

Press @ RunDepth: 953.88 psia @ ft (KB) Capacity: 5000.00 psia  
 Start Date: 2013.07.16 End Date: 2013.07.16 Last Calib.: 2013.07.16  
 Start Time: 07:46:00 End Time: 14:21:30 Time On Btm: 2013.07.16 @ 09:25:50  
 Time Off Btm: 2013.07.16 @ 11:59:00

**TEST COMMENT:** 1st Opening 15 Minutes-Strong blow built bottom of bucket in 1 Minute  
 1st Shut-in 30 Minutes-Bottom of bucket blow back  
 2nd Opening 45 Minutes-Strong blow built bottom of bucket less than 1 minute Gas to surface 15 minutes  
 2nd Shut-in 60 Minutes-Yes Blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1634.41	96.44	Initial Hydro-static
1	125.58	95.69	Open To Flow (1)
16	168.42	98.39	Shut-In(1)
45	959.04	100.84	End Shut-In(1)
46	185.38	100.65	Open To Flow (2)
92	289.26	102.01	Shut-In(2)
153	953.88	103.18	End Shut-In(2)
154	1637.33	103.40	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
120.00	mud oil cut gas	1.68
0.00	15% mud 35% oil 50% gas	0.00
120.00	gas mud cut oil	1.68
0.00	20% gas 30% mud 50% oil	0.00
390.00	clean gas oil 10% gas 90% oil	5.47
0.00	gravity oil 45	0.00

## Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
First Gas Rate	0.25	4.30	6.82
Last Gas Rate	0.25	3.50	5.55
Max. Gas Rate	0.25	4.30	6.82



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**TOOL DIAGRAM**

L B Exploration Inc  
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 Test Start: 2013.07.16 @ 07:45:00

**Tool Information**

Drill Pipe:	Length: 3319.00 ft	Diameter: 3.80 inches	Volume: 46.56 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: 70000.00 lb
			<u>Total Volume: 46.56 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3331.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	63.00 ft			
Tool Length:	83.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments: Gas to surface 2nd opening see gas report/gravity oil 45

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			3316.00	
Hydraulic Tool	5.00			3321.00	
Packer	5.00			3326.00	20.00 Bottom Of Top Packer
Packer	5.00			3331.00	
Anchor	0.00			3331.00	
Change Over Sub	0.75			3331.75	
Drill Pipe	31.50			3363.25	
Change Over Sub	0.75			3364.00	
Anchor	25.00			3389.00	
Recorder	1.00	6731	Inside	3390.00	
Recorder	1.00	8159	Outside	3391.00	
Bullnose	3.00			3394.00	63.00 Bottom Packers & Anchor

**Total Tool Length: 83.00**



# 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: 49.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.99 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 4000.00 ppm			
Filter Cake: 1.00 inches			

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	mud oil cut gas	1.683
0.00	15%mud 35%oil 50% gas	0.000
120.00	gas mud cut oil	1.683
0.00	20%gas 30%mud 50%oil	0.000
390.00	clean gas oil 10%gas 90%oil	5.471
0.00	gravity oil 45	0.000

Total Length: 630.00 ft      Total Volume: 8.837 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments: Gravity oil 45

