



## DRILL STEM TEST REPORT

Prepared For: **Shelby Resources L.L.C**

2717 Canal Blvd Hays KS 67601

ATTN: Jeremy Schwartz

### **Slattery Unit #1-16**

#### **16-18-14w Barton**

Start Date: 2013.10.13 @ 03:52:00

End Date: 2013.10.13 @ 11:01:00

Job Ticket #: 18446                      DST #: 1

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

Printed: 2013.10.13 @ 11:29:00

Shelby Resources L.L.C

16-18-14w Barton

Slattery Unit #1-16

DST # 1

Lansing "H" zone

2013.10.13



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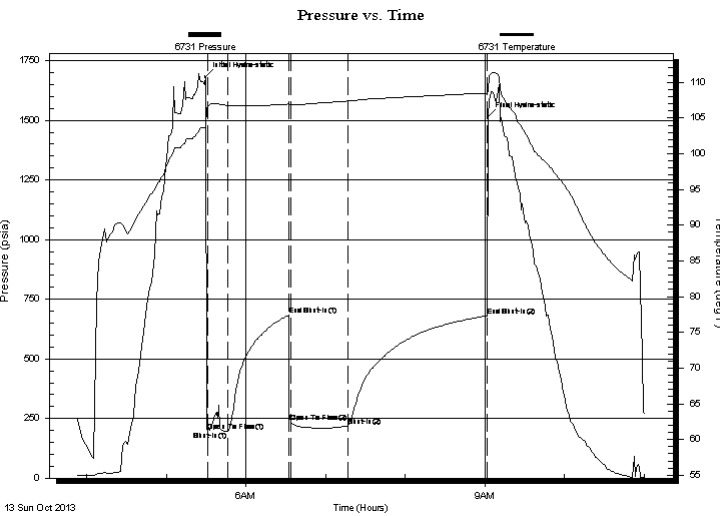
## GENERAL INFORMATION:

Formation: **Lansing "H" zone**  
 Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 05:31:00 Tester: Jared Scheck  
 Time Test Ended: 11:01:00 Unit No: 3320-Great Bend-40  
**Interval: 3340.00 ft (KB) To 3368.00 ft (KB) (TVD)** Reference Elevations: 1956.00 ft (KB)  
 Total Depth: 3368.00 ft (KB) (TVD) 1943.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Poor KB to GR/CF: 13.00 ft

## Serial #: 6731

Press@RunDepth: 218.81 psia @ ft (KB) Capacity: 5000.00 psia  
 Start Date: 2013.10.13 End Date: 2013.10.13 Last Calib.: 2013.10.13  
 Start Time: 03:52:00 End Time: 11:01:00 Time On Btm: 2013.10.13 @ 05:29:30  
 Time Off Btm: 2013.10.13 @ 09:02:30

**TEST COMMENT:** 1st Opening 15 Minutes-Strong blow built Bottom of bucket in 7 1/2 minutes  
 1st Shut-in 45 Minutes-No blow back  
 2nd Opening 45 Minutes-Strong blow built bottom of bucket in 5 minutes  
 2nd Shut-in Blow back bottom of bucket



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1682.36	103.81	Initial Hydro-static
2	198.35	106.63	Open To Flow (1)
17	195.18	106.73	Shut-In(1)
63	681.84	106.94	End Shut-In(1)
64	232.44	106.81	Open To Flow (2)
107	218.81	107.37	Shut-In(2)
212	680.52	108.47	End Shut-In(2)
213	1515.46	108.70	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	w ater	0.30
60.00	oil & gas cut w ater	0.30
0.00	5%oil 10%gas 85%w ater	0.00
120.00	gas w ater cut oil	0.59
0.00	15%gas 25%w ater 60%oil	0.00
180.00	w ater cut gas oil	1.71

## Gas Rates

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



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**TOOL DIAGRAM**

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**Tool Information**

Drill Pipe:	Length: 3002.00 ft	Diameter: 3.80 inches	Volume: 42.11 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: 330.00 ft	Diameter: 2.25 inches	Volume: 1.62 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 43.73 bbl</u>	Tool Chased 5.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	3340.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	28.00 ft			
Tool Length:	56.00 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			3317.00	
Hydraulic Tool	5.00			3322.00	
Jars	6.00			3328.00	
Safety Joint	2.00			3330.00	
Packer	5.00			3335.00	28.00      Bottom Of Top Packer
Packer	5.00			3340.00	
Anchor	23.00			3363.00	
Recorder	1.00	6731	Inside	3364.00	
Recorder	1.00	8159	Outside	3365.00	
Bullnose	3.00			3368.00	28.00      Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>56.00</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: 65.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.20 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: 0.05 ohm.m	Gas Cushion Pressure: psia		
Salinity: 3300.00 ppm			
Filter Cake: 1.00 inches			

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	w ater	0.295
60.00	oil & gas cut w ater	0.295
0.00	5%oil 10%gas 85%w ater	0.000
120.00	gas w ater cut oil	0.590
0.00	15%gas 25%w ater 60%oil	0.000
180.00	w ater cut gas oil	1.705
0.00	10%w atert 25%gas 65%oil	0.000
0.00	900 gas in pipe	0.000
0.00	chlorides 72,000 resistivity .05@65 degr	0.000

Total Length: 420.00 ft      Total Volume: 2.885 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments: chlorides 72,000 resistivity .05@65 degrees

### Pressure vs. Time

