



## DRILL STEM TEST REPORT

Prepared For: **Shelby Resources LLC**

2717 Canal Blvd. Suite C  
Hays Kansas 67601

ATTN: Keith Reavis

### **Beren Trust 2-9**

### **9-17s-14w-Barton**

Start Date: 2012.07.03 @ 02:06:00

End Date: 2012.07.03 @ 08:21:30

Job Ticket #: 17692                      DST #: 2

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

Printed: 2012.07.03 @ 06:35:10



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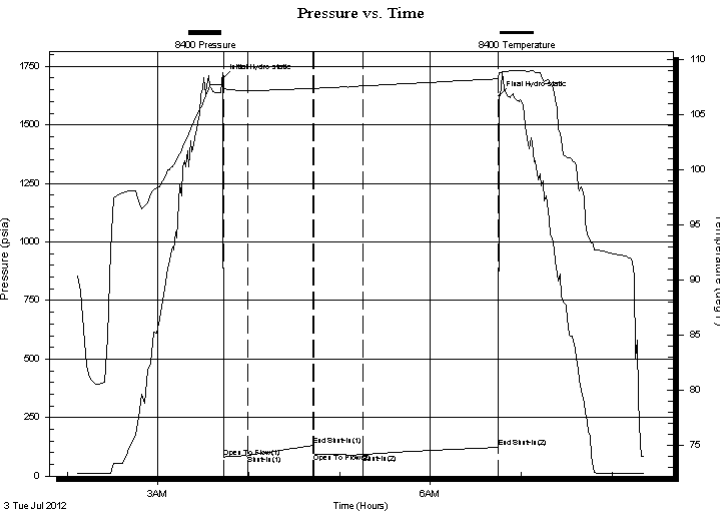
**9-17s-14w-Barton**  
**Beren Trust 2-9**  
 Job Ticket: 17692      **DST#: 2**  
 Test Start: 2012.07.03 @ 02:06:00

## GENERAL INFORMATION:

Formation: **Lansing H-K**  
 Deviated: No Whipstock:                      ft (KB)  
 Time Tool Opened: 03:43:30  
 Time Test Ended: 08:21:30  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Dustin Ellis  
 Unit No: 3315-Great Bend-42  
 Interval: **3353.00 ft (KB) To 3435.00 ft (KB) (TVD)**  
 Total Depth: 3435.00 ft (KB) (TVD)  
 Reference Elevations: 1970.00 ft (KB)  
 1961.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 KB to GR/CF: 9.00 ft

**Serial #: 8400      Outside**  
 Press @ RunDepth: 91.38 psia @ 3432.31 ft (KB)      Capacity: 5000.00 psia  
 Start Date: 2012.07.03      End Date: 2012.07.03      Last Calib.: 2012.07.03  
 Start Time: 02:06:00      End Time: 08:21:30      Time On Btm: 2012.07.03 @ 03:43:00  
 Time Off Btm: 2012.07.03 @ 06:45:30

**TEST COMMENT:** 1st Open 15 minutes Very weak surface blow  
 1st Shut in 45 minutes No blow back  
 2nd Open 30 minutes Weak blow died off flushed no help.  
 2nd Shut in 90 minutes No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1697.64	107.85	Initial Hydro-static
1	80.23	107.33	Open To Flow (1)
17	86.97	107.17	Shut-In(1)
60	130.81	107.38	End Shut-In(1)
60	96.48	107.36	Open To Flow (2)
93	91.38	107.58	Shut-In(2)
182	123.01	108.24	End Shut-In(2)
183	1624.37	108.76	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud 100%	0.02

## Gas Rates

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



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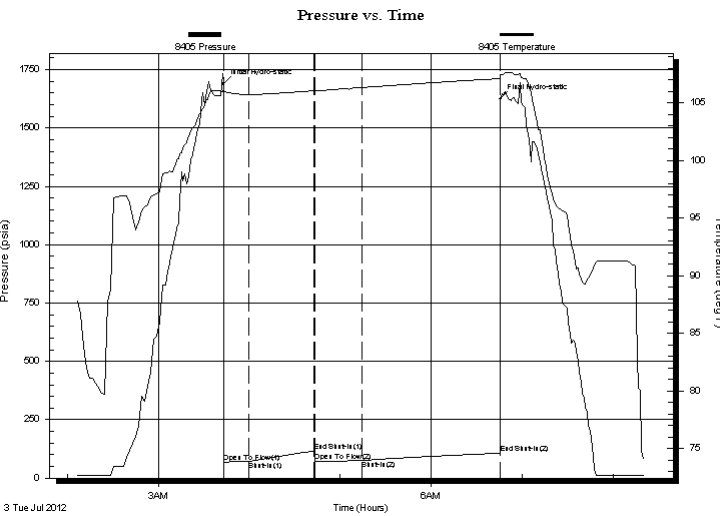
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 1961.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 KB to GR/CF: 9.00 ft

**Serial #: 8405      Inside**  
 Press @ Run Depth: 107.11 psia @ 3431.31 ft (KB)      Capacity: 5000.00 psia  
 Start Date: 2012.07.03      End Date: 2012.07.03      Last Calib.: 2012.07.03  
 Start Time: 02:06:00      End Time: 08:21:00      Time On Btm: 2012.07.03 @ 03:43:00  
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 1st Shut in 45 minutes No blow back  
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PRESSURE SUMMARY			
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1688.01	106.24	Initial Hydro-static
1	68.71	105.99	Open To Flow (1)
17	70.75	105.73	Shut-In(1)
60	115.68	106.06	End Shut-In(1)
61	72.26	106.06	Open To Flow (2)
91	76.16	106.34	Shut-In(2)
182	107.11	107.11	End Shut-In(2)
183	1624.56	107.42	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
5.00	Mud 100%	0.02

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



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**TOOL DIAGRAM**

Shelby Resources LLC  
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**9-17s-14w-Barton**  
**Beren Trust 2-9**  
 Job Ticket: 17692 **DST#: 2**  
 Test Start: 2012.07.03 @ 02:06:00

**Tool Information**

Drill Pipe:	Length: 3141.00 ft	Diameter: 3.80 inches	Volume: 44.06 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: 20000.00 lb
Drill Collar:	Length: 211.91 ft	Diameter: 2.25 inches	Volume: 1.04 bbl	Weight to Pull Loose: 100000.0 lb
			<u>Total Volume: 45.10 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	19.91 ft			String Weight: Initial 65000.00 lb
Depth to Top Packer:	3353.00 ft			Final 65000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	82.31 ft			
Tool Length:	102.31 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			3338.00	
Hydraulic Tool	5.00			3343.00	
Packer	5.00			3348.00	20.00 Bottom Of Top Packer
Packer	5.00			3353.00	
Anchor	5.00			3358.00	
Change Over Sub	0.75			3358.75	
Drill Pipe	63.81			3422.56	
Change Over Sub	0.75			3423.31	
Anchor	7.00			3430.31	
Recorder	1.00	8405	Inside	3431.31	
Recorder	1.00	8400	Outside	3432.31	
Bull Plug	3.00			3435.31	82.31 Bottom Packers & Anchor

**Total Tool Length: 102.31**



# 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: 61.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.79 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 5300.00 ppm			
Filter Cake: 1.00 inches			

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud 100%	0.025

Total Length: 5.00 ft      Total Volume: 0.025 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments:

