



## DRILL STEM TEST REPORT

Prepared For: **Shelby Resources LLC**

2717 Canal Boulevard  
Suite C  
Hays, Kansas 67601

ATTN: Jeremy Schwartz

### **Ward-County Unit 3-1**

#### **3/22S/16W/Pawnee**

Start Date: 2013.11.01 @ 22:23:00

End Date: 2013.11.02 @ 03:02:30

Job Ticket #: 17060                      DST #: 1

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

Printed: 2013.11.02 @ 03:11:58



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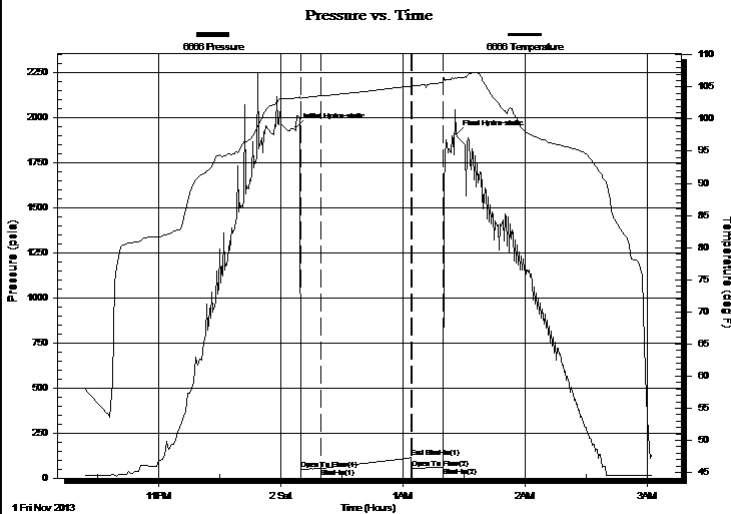
**3/22S/16W/Pawnee**  
**Ward-County Unit 3-1**  
 Job Ticket: 17060 **DST#: 1**  
 Test Start: 2013.11.01 @ 22:23:00

## GENERAL INFORMATION:

Formation: **Conglomerate**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 00:09:30  
 Time Test Ended: 03:02:30  
 Interval: **3806.00 ft (KB) To 3849.00 ft (KB) (TVD)**  
 Total Depth: 3849.00 ft (KB) (TVD)  
 Hole Diameter: 7.80 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Ken Swinney  
 Unit No: 3325 Great Bend/48  
 Reference Elevations: 1999.00 ft (KB)  
 1986.00 ft (CF)  
 KB to GR/CF: 13.00 ft

**Serial #: 6666 Outside**  
 Press @ Run Depth: 52.18 psia @ 3846.00 ft (KB) Capacity: 5000.00 psia  
 Start Date: 2013.11.01 End Date: 2013.11.02 Last Calib.: 2013.11.02  
 Start Time: 22:23:00 End Time: 03:02:30 Time On Btm: 2013.11.02 @ 00:07:30  
 Time Off Btm: 2013.11.02 @ 01:26:00

**TEST COMMENT:** 1ST Open 10 Minutes/Weak blow /Started as strong surface blow died to weak surface blow /No build  
 1ST Shut In 45 Minutes/No blow back  
 2ND Open 15 Minutes/Dead no blow /Flush tool/Good surge/Weak surface blow 30 seconds/Pull test



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1946.29	103.27	Initial Hydro-static
2	50.60	103.09	Open To Flow (1)
12	52.18	103.61	Shut-In(1)
57	113.72	105.14	End Shut-In(1)
57	53.39	105.13	Open To Flow (2)
72	60.30	105.67	Shut-In(2)
79	1906.72	106.35	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
15.00	Mud 100%	0.07

## 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: 3474.00 ft	Diameter: 3.80 inches	Volume: 48.73 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: 330.00 ft	Diameter: 2.25 inches	Volume: 1.62 bbl	Weight to Pull Loose: 130000.0 lb
			<u>Total Volume: 50.35 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	3806.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	43.00 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
Shut In Tool	5.00			3784.00	
Hydraulic Tool	5.00			3789.00	
Jars	5.00			3794.00	
Safety Joint	2.00			3796.00	
Packer	5.00			3801.00	27.00 Bottom Of Top Packer
Packer	5.00			3806.00	
Anchor	38.00			3844.00	
Recorder	1.00	6749	Inside	3845.00	
Recorder	1.00	6666	Outside	3846.00	
Bullnose	3.00			3849.00	43.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>70.00</b>				



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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:	10.00 lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	48.00 sec/qt	Cushion Volume:	bbbl		
Water Loss:	10.40 in <sup>3</sup>	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psia		
Salinity:	8500.00 ppm				
Filter Cake:	1.00 inches				

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	Mud 100%	0.074

Total Length: 15.00 ft      Total Volume: 0.074 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

