

## DRILL STEM TEST REPORT

Prepared For: **Shelby Resources**

2717 Canal Blvd. Hays Kansas 67601

ATTN: Keith Reavis

**WFYOG #2-3**

**3-22s-16w-Pawnee**

Start Date: 2013.05.19 @ 10:50:00

End Date: 2013.05.19 @ 15:43:00

Job Ticket #: 18377                      DST #: 2

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

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 2717 Canal Blvd. Hays Kansas 67601  
 ATTN: Keith Reavis

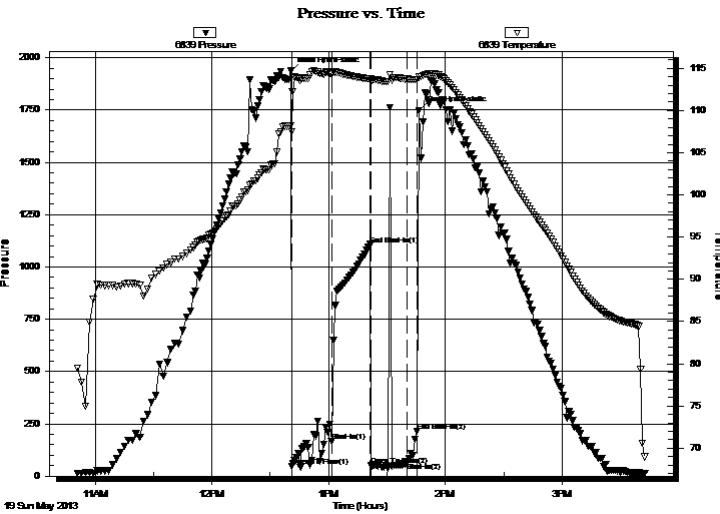
**3-22s-16w-Pawnee**  
**WFYOG #2-3**  
 Job Ticket: 18377      **DST#: 2**  
 Test Start: 2013.05.19 @ 10:50:00

## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 12:41:00  
 Time Test Ended: 15:43:00  
 Interval: **3866.00 ft (KB) To 3871.00 ft (KB) (TVD)**  
 Total Depth: 3871.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Poor  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Dustin Ellis  
 Unit No: 3315-Great Bend-46  
 Reference Elevations: 1999.00 ft (KB)  
 1986.00 ft (CF)  
 KB to GR/CF: 13.00 ft

**Serial #: 6839      Inside**  
 Press @ RunDepth: 66.32 psia @ 3867.00 ft (KB)      Capacity: 5000.00 psia  
 Start Date: 2013.05.19      End Date: 2013.05.19      Last Calib.: 2013.05.20  
 Start Time: 10:51:00      End Time: 15:43:00      Time On Btm: 2013.05.19 @ 12:40:30  
 Time Off Btm: 2013.05.19 @ 13:46:30

**TEST COMMENT:** 1st Open 10 minutes Weak surface blow died off after 6 minutes.  
 1st Shut in 30 minutes No blow back  
 2nd Open 20 minutes Dead ,Flushed tool no help.  
 2nd Shut in 5 minutes No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1935.65	108.20	Initial Hydro-static
1	45.52	107.53	Open To Flow (1)
21	167.13	114.31	Shut-In(1)
41	1107.56	113.73	End Shut-In(1)
42	53.20	113.39	Open To Flow (2)
60	66.32	113.71	Shut-In(2)
65	214.35	113.63	End Shut-In(2)
66	1747.63	113.98	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
4.00	Oil spotted mud . mud 100%	0.02

## Gas Rates

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





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**TOOL DIAGRAM**

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 Job Ticket: 18377      **DST#: 2**  
 Test Start: 2013.05.19 @ 10:50:00

**Tool Information**

Drill Pipe:	Length: 3499.00 ft	Diameter: 3.80 inches	Volume: 49.08 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: 370.71 ft	Diameter: 2.25 inches	Volume: 1.82 bbl	Weight to Pull Loose:	950000.0 lb
			<u>Total Volume: 50.90 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	31.71 ft			String Weight: Initial	72000.00 lb
Depth to Top Packer:	3866.00 ft			Final	72000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	5.00 ft				
Tool Length:	33.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments: SHELL PACKER

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			3843.00	
Hydraulic Tool	5.00			3848.00	
Safety Joint	2.00			3850.00	
Jars	6.00			3856.00	
Packer	5.00			3861.00	28.00      Bottom Of Top Packer
Packer	5.00			3866.00	
Anchor	0.00			3866.00	
Recorder	1.00	6839	Inside	3867.00	
Recorder	1.00	6806	Outside	3868.00	
Bullnose	3.00			3871.00	5.00      Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>33.00</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:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	60.00 sec/qt	Cushion Volume:	bbbl		
Water Loss:	10.37 in <sup>3</sup>	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psia		
Salinity:	5800.00 ppm				
Filter Cake:	1.00 inches				

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
4.00	Oil spotted mud . mud 100%	0.020

Total Length: 4.00 ft      Total Volume: 0.020 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments: Shell Packer.

# Pressure vs. Time

