



## DRILL STEM TEST REPORT

Prepared For: **Shelby Resources, LLC**

2717 Canal BLVD.  
Suite C  
Hays, Ks 67601

ATTN: Jeremy Schwartz

### **P-W Unit #1-35**

#### **35/21s/16w/Pawnee**

Start Date: 2013.12.30 @ 04:50:00

End Date: 2013.12.30 @ 12:12:00

Job Ticket #: 18616                      DST #: 1

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

Printed: 2013.12.30 @ 12:37:06

Shelby Resources, LLC  
35/21s/16w/Pawnee  
P-W Unit #1-35  
DST # 1  
LKC "B-D"  
2013.12.30



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**35/21s/16w/Pawnee**

**P-W Unit #1-35**

Job Ticket: 18616

**DST#: 1**

Test Start: 2013.12.30 @ 04:50:00

## GENERAL INFORMATION:

Formation: **LKC "B-D"**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 06:54:30  
 Tester: Shane Konzem  
 Time Test Ended: 12:12:00  
 Unit No: 3330/60/Great Bend  
 Interval: **3550.00 ft (KB) To 3575.00 ft (KB) (TVD)**  
 Reference Elevations: 1991.00 ft (KB)  
 Total Depth: 3575.00 ft (KB) (TVD)  
 1978.00 ft (CF)  
 Hole Diameter: 7.88 inches  
 Hole Condition: Fair  
 KB to GR/CF: 13.00 ft

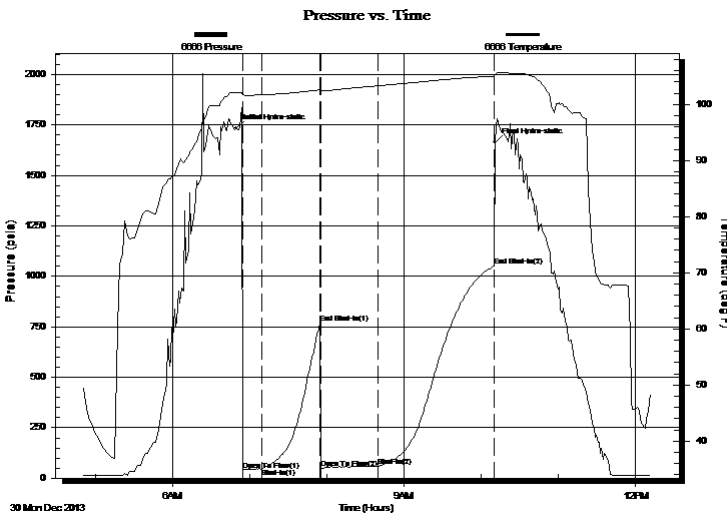
## Serial #: 6666

Inside

Press @ RunDepth: 59.58 psia @ 3571.00 ft (KB) Capacity: 5000.00 psia  
 Start Date: 2013.12.30 End Date: 2013.12.30 Last Calib.: 2013.12.30  
 Start Time: 04:50:00 End Time: 12:12:00 Time On Btm: 2013.12.30 @ 06:49:30  
 Time Off Btm: 2013.12.30 @ 10:10:30

**TEST COMMENT:** 1st Open/ 15 Minutes. Fair blow built to 3 inches into 5 gallon bucket of deisel.  
 1st Shut In/ 45 Minutes. No blow back.  
 2nd Open/ 45 Minutes. Fair blow built to 3.5 inches in 5 gallon bucket of deisel.  
 2nd Shut In/ 90 Minutes. No blow back.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1733.47	102.10	Initial Hydro-static
5	39.34	101.73	Open To Flow (1)
20	47.30	101.72	Shut-In(1)
65	766.58	102.59	End Shut-In(1)
66	49.36	102.45	Open To Flow (2)
111	59.58	103.33	Shut-In(2)
200	1050.99	105.05	End Shut-In(2)
201	1662.98	105.27	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
30.00	gassy mud, Trace oil	0.15

## Gas Rates

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



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**P-W Unit #1-35**

Job Ticket: 18616

**DST#: 1**

Test Start: 2013.12.30 @ 04:50:00

## GENERAL INFORMATION:

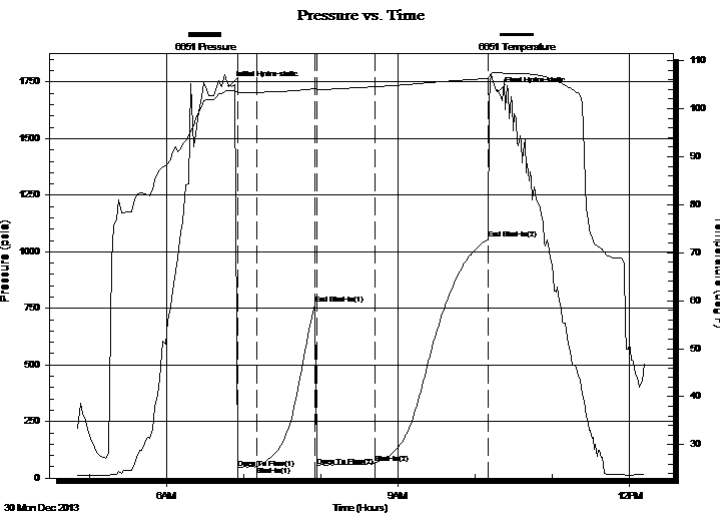
Formation: **LKC "B-D"**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 06:54:30  
 Time Test Ended: 12:12:00  
 Interval: **3550.00 ft (KB) To 3575.00 ft (KB) (TVD)**  
 Total Depth: 3575.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Shane Konzem  
 Unit No: 3330/60/Great Bend  
 Reference Elevations: 1991.00 ft (KB)  
 1978.00 ft (CF)  
 KB to GR/CF: 13.00 ft

## Serial #: 6651

## Outside

Press @ Run Depth: 1055.69 psia @ 3572.00 ft (KB) Capacity: 5000.00 psia  
 Start Date: 2013.12.30 End Date: 2013.12.30 Last Calib.: 2013.12.30  
 Start Time: 04:50:00 End Time: 12:11:30 Time On Btm: 2013.12.30 @ 06:49:00  
 Time Off Btm: 2013.12.30 @ 10:17:30

**TEST COMMENT:** 1st Open/ 15 Minutes. Fair blow built to 3 inches into 5 gallon bucket of deisel.  
 1st Shut In/ 45 Minutes. No blow back.  
 2nd Open/ 45 Minutes. Fair blow built to 3.5 inches in 5 gallon bucket of deisel.  
 2nd Shut In/ 90 Minutes. No blow back.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1732.02	103.72	Initial Hydro-static
6	44.72	103.45	Open To Flow (1)
21	50.98	103.40	Shut-In(1)
66	767.63	104.16	End Shut-In(1)
68	54.52	103.97	Open To Flow (2)
113	66.11	104.60	Shut-In(2)
201	1055.69	106.30	End Shut-In(2)
209	1709.01	107.56	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
30.00	gassy mud, Trace oil	0.15

## Gas Rates

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



# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Shelby Resources, LLC

**35/21s/16w/Pawnee**

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**P-W Unit #1-35**

Job Ticket: 18616

**DST#: 1**

Test Start: 2013.12.30 @ 04:50:00

## Tool Information

Drill Pipe:	Length: 3246.00 ft	Diameter: 3.80 inches	Volume: 45.53 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: 299.01 ft	Diameter: 2.25 inches	Volume: 1.47 bbl	Weight to Pull Loose: 82000.00 lb
			<u>Total Volume: 47.00 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	24.01 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	3550.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	25.00 ft			
Tool Length:	54.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			3522.00	
Shut-In Tool	5.00			3527.00	
Hydroic Tool	5.00			3532.00	
Jars	6.00			3538.00	
Safety Joint	2.00			3540.00	
Packer	5.00			3545.00	29.00 Bottom Of Top Packer
Packer	5.00			3550.00	
Perforations	20.00			3570.00	
Recorder	1.00	6666	Inside	3571.00	
Recorder	1.00	6651	Outside	3572.00	
Bullnose	3.00			3575.00	25.00 Bottom Packers & Anchor

**Total Tool Length: 54.00**



# DRILL STEM TEST REPORT

## FLUID SUMMARY

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### Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 54.00 sec/qt  
Water Loss: 7.80 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 3500.00 ppm  
Filter Cake: 1.00 inches

Cushion Type:  
Cushion Length: ft  
Cushion Volume: bbl  
Gas Cushion Type:  
Gas Cushion Pressure: psia

Oil API: deg API  
Water Salinity: ppm

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	gassy mud, Trace oil	0.148

Total Length: 30.00 ft      Total Volume: 0.148 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time

