



## DRILL STEM TEST REPORT

Prepared For: **Shelby Resources LLC**

2717 Canal Blvd Suite C  
Hays Ks, 67601

ATTN: Jeremy Schwartz

### **Fenwick #1-35**

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

Start Date: 2014.02.24 @ 22:00:00

End Date: 2014.02.25 @ 06:36:30

Job Ticket #: 19205                      DST #: 3

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

Printed: 2014.02.25 @ 06:11:24



# DRILL STEM TEST REPORT

Shelby Resources LLC  
 2717 Canal Blvd Suite C  
 Hays Ks. 67601  
 ATTN: Jeremy Schwartz

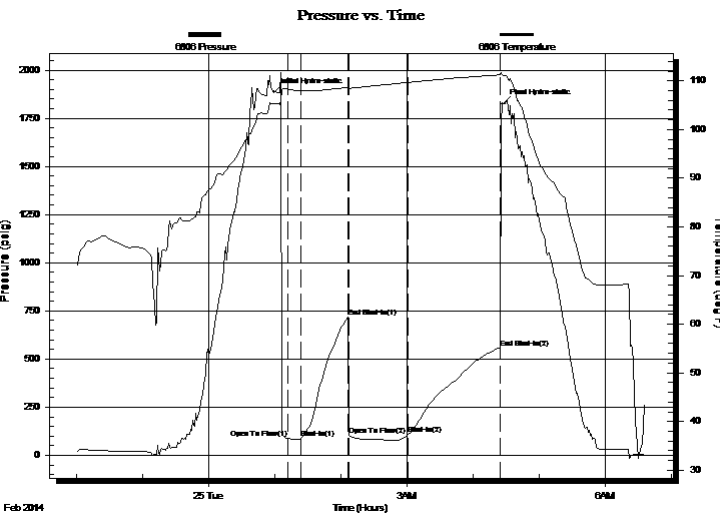
**35/21s/16w/Pawnee**  
**Fenwick #1-35**  
 Job Ticket: 19205      **DST#: 3**  
 Test Start: 2014.02.24 @ 22:00:00

## GENERAL INFORMATION:

Formation: **Simpson Sand**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 01:11:30  
 Time Test Ended: 06:36:30  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Shane Konzem  
 Unit No: 3330/60/Great Bend  
 Interval: **3857.00 ft (KB) To 3897.00 ft (KB) (TVD)**  
 Reference Elevations: 1988.00 ft (KB)  
 Total Depth: 3897.00 ft (KB) (TVD) 1975.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Poor KB to GR/CF: 13.00 ft

**Serial #: 6806      Inside**  
 Press@RunDepth: 107.65 psig @ 3893.00 ft (KB) Capacity: 5000.00 psig  
 Start Date: 2014.02.24 End Date: 2014.02.25 Last Calib.: 2014.02.25  
 Start Time: 22:00:00 End Time: 06:36:30 Time On Btm: 2014.02.25 @ 00:59:30  
 Time Off Btm: 2014.02.25 @ 04:27:30

**TEST COMMENT:** 1st Open/ 15 Minutes. Fair blow built to 1 1/2 inches into w ater.  
 1st Shut In/ 45 Minutes. No blow back.  
 2nd Open/ 45 Minutes. Fair blow built to 4 inches into w ater.  
 2nd Shut In/ 90 Minutes. No blow back.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1885.69	105.30	Initial Hydro-static
12	88.68	108.32	Open To Flow (1)
25	89.47	107.96	Shut-In(1)
67	718.17	108.64	End Shut-In(1)
68	104.67	108.51	Open To Flow (2)
122	107.65	109.70	Shut-In(2)
205	558.75	111.24	End Shut-In(2)
208	1825.76	111.11	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
30.00	20% Oil, 80% Mud	0.15

## Gas Rates

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



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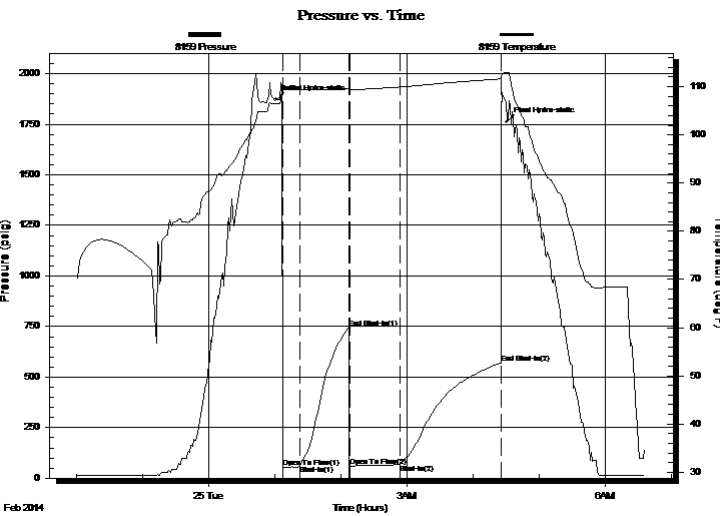
**35/21s/16w/Pawnee**  
**Fenwick #1-35**  
 Job Ticket: 19205 **DST#: 3**  
 Test Start: 2014.02.24 @ 22:00:00

## GENERAL INFORMATION:

Formation: **Simpson Sand**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 01:11:30  
 Time Test Ended: 06:36:30  
 Interval: **3857.00 ft (KB) To 3897.00 ft (KB) (TVD)**  
 Total Depth: 3897.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Poor  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Shane Konzem  
 Unit No: 3330/60/Great Bend  
 Reference Elevations: 1988.00 ft (KB)  
 1975.00 ft (CF)  
 KB to GR/CF: 13.00 ft

**Serial #: 8159 Outside**  
 Press@RunDepth: 570.15 psig @ 3894.00 ft (KB) Capacity: 5000.00 psig  
 Start Date: 2014.02.24 End Date: 2014.02.25 Last Calib.: 2014.02.25  
 Start Time: 22:00:00 End Time: 06:36:00 Time On Btm: 2014.02.25 @ 01:01:30  
 Time Off Btm: 2014.02.25 @ 04:30:30

**TEST COMMENT:** 1st Open/ 15 Minutes. Fair blow built to 1 1/2 inches into water.  
 1st Shut In/ 45 Minutes. No blow back.  
 2nd Open/ 45 Minutes. Fair blow built to 4 inches into water.  
 2nd Shut In/ 90 Minutes. No blow back.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1873.15	106.49	Initial Hydro-static
6	52.06	109.41	Open To Flow (1)
21	61.67	109.40	Shut-In(1)
66	744.47	109.64	End Shut-In(1)
67	58.41	109.42	Open To Flow (2)
112	70.16	109.94	Shut-In(2)
204	570.15	111.64	End Shut-In(2)
209	1760.77	112.89	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
30.00	20% Oil, 80% Mud	0.15

## Gas Rates

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



# DRILL STEM TEST REPORT

TOOL DIAGRAM

Shelby Resources LLC

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

2717 Canal Blvd Suite C  
Hays Ks. 67601

**Fenwick #1-35**

Job Ticket: 19205

**DST#: 3**

ATTN: Jeremy Schwartz

Test Start: 2014.02.24 @ 22:00:00

## Tool Information

Drill Pipe:	Length: 3505.00 ft	Diameter: 3.80 inches	Volume: 49.17 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: 25000.00 lb
Drill Collar:	Length: 329.61 ft	Diameter: 2.25 inches	Volume: 1.62 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 50.79 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.61 ft			String Weight: Initial 76000.00 lb
Depth to Top Packer:	3857.00 ft			Final 78000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	40.00 ft			
Tool Length:	68.00 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			3834.00	
Hydraulic tool	5.00			3839.00	
Jars	6.00			3845.00	
Safety Joint	2.00			3847.00	
Top Packer	5.00			3852.00	
Packer	5.00			3857.00	28.00 Bottom Of Top Packer
Anchor	35.00			3892.00	
Recorder	1.00	6806	Inside	3893.00	
Recorder	1.00	8159	Outside	3894.00	
Bull Plug	3.00			3897.00	40.00 Anchor Tool
<b>Total Tool Length:</b>	<b>68.00</b>				



# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Shelby Resources LLC

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

2717 Canal Blvd Suite C  
Hays Ks. 67601

**Fenwick #1-35**

Job Ticket: 19205

**DST#: 3**

ATTN: Jeremy Schwartz

Test Start: 2014.02.24 @ 22:00:00

## Mud and Cushion Information

Mud Type: Gel Chem  
 Mud Weight: 10.00 lb/gal  
 Viscosity: 60.00 sec/qt  
 Water Loss: 6.40 in<sup>3</sup>  
 Resistivity: ohm.m  
 Salinity: 5800.00 ppm  
 Filter Cake: 1.00 inches

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

Oil API: deg API  
 Water Salinity: ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	20% Oil, 80% Mud	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:

