



## DRILL STEM TEST REPORT

Prepared For: **Shelby Resources LLC.**

2717 Canal Blvd. Suite C Hays  
Kansas 67601

ATTN: Keith Reavis

### **Powell #1-34**

### **34-21s-19w-Pawnee**

Start Date: 2012.06.27 @ 09:15:00

End Date: 2012.06.27 @ 16:10:30

Job Ticket #: 17690                      DST #: 1

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

Printed: 2012.06.28 @ 02:30:06



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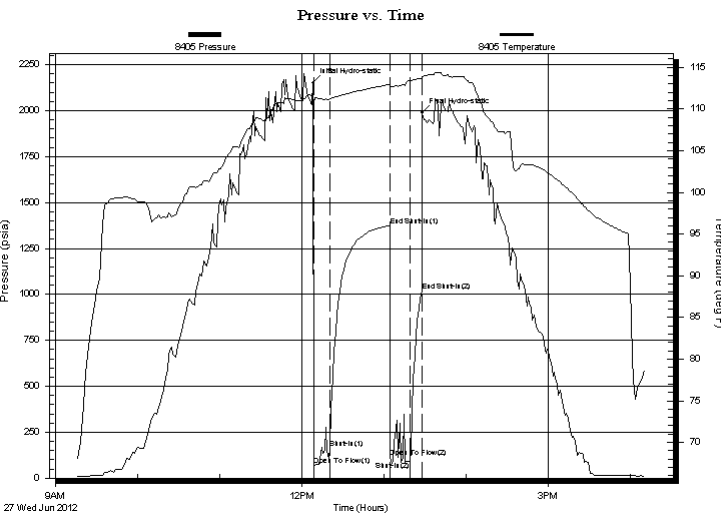
**34-21s-19w-Pawnee**  
**Powell #1-34**  
 Job Ticket: 17690 **DST#: 1**  
 Test Start: 2012.06.27 @ 09:15:00

## GENERAL INFORMATION:

Formation: **Mississippian**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 12:08:30  
 Time Test Ended: 16:10:30  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Dustin Ellis  
 Unit No: 3315-GB-82  
 Interval: **4195.00 ft (KB) To 4250.00 ft (KB) (TVD)**  
 Total Depth: 4250.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Reference Elevations: 2077.00 ft (KB)  
 2066.00 ft (CF)  
 KB to GR/CF: 11.00 ft

**Serial #: 8405 Inside**  
 Press @ Run Depth: 93.70 psia @ 4246.51 ft (KB) Capacity: 5000.00 psia  
 Start Date: 2012.06.27 End Date: 2012.06.27 Last Calib.: 2012.06.28  
 Start Time: 09:15:00 End Time: 16:10:30 Time On Btm: 2012.06.27 @ 12:08:00  
 Time Off Btm: 2012.06.27 @ 13:28:00

**TEST COMMENT:** 1st Open 10 minutes Weak surface blow  
 1st Shut in 45 minutes No blow back  
 2nd Open 16 minutes Blow dead Flushed no help  
 2nd Shut in 5 minutes No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2150.34	111.64	Initial Hydro-static
1	68.42	110.73	Open To Flow (1)
13	161.33	111.18	Shut-In(1)
56	1375.03	112.94	End Shut-In(1)
57	112.49	112.62	Open To Flow (2)
71	93.70	113.39	Shut-In(2)
80	1019.93	113.69	End Shut-In(2)
80	1989.44	113.91	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
62.00	Mudd 100%	0.30

## Gas Rates

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



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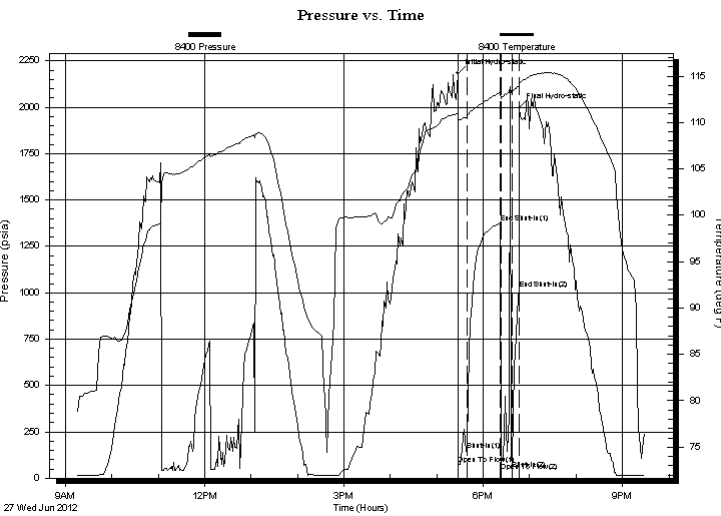
**34-21s-19w-Pawnee**  
**Powell #1-34**  
 Job Ticket: 17690 **DST#: 1**  
 Test Start: 2012.06.27 @ 09:15:00

## GENERAL INFORMATION:

Formation: **Mississippian**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 12:08:30  
 Time Test Ended: 16:10:30  
 Interval: **4195.00 ft (KB) To 4250.00 ft (KB) (TVD)**  
 Total Depth: 4250.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Dustin Ellis  
 Unit No: 3315-GB-82  
 Reference Elevations: 2077.00 ft (KB)  
 2066.00 ft (CF)  
 KB to GR/CF: 11.00 ft

**Serial #: 8400 Outside**  
 Press @ RunDepth: 1017.54 psia @ 4247.51 ft (KB) Capacity: 5000.00 psia  
 Start Date: 2012.06.27 End Date: 2012.06.27 Last Calib.: 2012.06.28  
 Start Time: 09:15:00 End Time: 21:28:53 Time On Btm: 2012.06.27 @ 17:26:53  
 Time Off Btm: 2012.06.27 @ 18:46:23

**TEST COMMENT:** 1st Open 10 minutes Weak surface blow  
 1st Shut in 45 minutes No blow back  
 2nd Open 16 minutes Blow dead Flushed no help  
 2nd Shut in 5 minutes No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2183.86	111.00	Initial Hydro-static
1	72.50	110.36	Open To Flow (1)
12	149.86	110.62	Shut-In(1)
56	1375.15	113.25	End Shut-In(1)
56	83.54	112.60	Open To Flow (2)
71	95.28	113.23	Shut-In(2)
79	1017.54	113.98	End Shut-In(2)
80	1995.60	114.31	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
62.00	Mudd 100%	0.30

## Gas Rates

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



# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Shelby Resources LLC.  
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 ATTN: Keith Reavis

**34-21s-19w-Pawnee**  
**Powell #1-34**  
 Job Ticket: 17690 **DST#: 1**  
 Test Start: 2012.06.27 @ 09:15:00

**Tool Information**

Drill Pipe:	Length: 3953.00 ft	Diameter: 3.80 inches	Volume: 55.45 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: 249.22 ft	Diameter: 2.25 inches	Volume: 1.23 bbl	Weight to Pull Loose: 84000.00 lb
		Total Volume: 56.68 bbl		Tool Chased 6.00 ft
Drill Pipe Above KB:	27.22 ft			String Weight: Initial 80000.00 lb
Depth to Top Packer:	4195.00 ft			Final 80000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	55.51 ft			
Tool Length:	75.51 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			4180.00	
Hydraulic Tool	5.00			4185.00	
Packer	5.00			4190.00	20.00 Bottom Of Top Packer
Packer	5.00			4195.00	
Anchor	5.00			4200.00	
Change Over Sub	0.75			4200.75	
Drill Pipe	32.01			4232.76	
Change Over Sub	0.75			4233.51	
Anchor	12.00			4245.51	
Recorder	1.00	8405	Inside	4246.51	
Recorder	1.00	8400	Outside	4247.51	
Bull Plug	3.00			4250.51	55.51 Bottom Packers & Anchor

**Total Tool Length: 75.51**



# DRILL STEM TEST REPORT

## FLUID SUMMARY

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**Powell #1-34**  
Job Ticket: 17690      **DST#: 1**  
Test Start: 2012.06.27 @ 09:15:00

### 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: 56.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.59 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 6000.00 ppm			
Filter Cake: 1.00 inches			

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	Mudd 100%	0.305

Total Length: 62.00 ft      Total Volume: 0.305 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments:

