



## DRILL STEM TEST REPORT

Prepared For: **Shelby Resources L.L.C.**

446 Union Blvd Suite 208  
Lakewood, Colorado 80228

ATTN: Jermey Schwartz

**#6-24 Clark**

**24-17s-14w Barton**

Start Date: 2013.02.09 @ 00:00:00

End Date:

Job Ticket #: 17078

DST #: 5

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

Printed: 2013.02.09 @ 22:33:41



# DRILL STEM TEST REPORT

Shelby Resources L.L.C.  
 446 Union Blvd Suite 208  
 Lakewood, Colorado 80228  
 ATTN: Jerney Schwartz

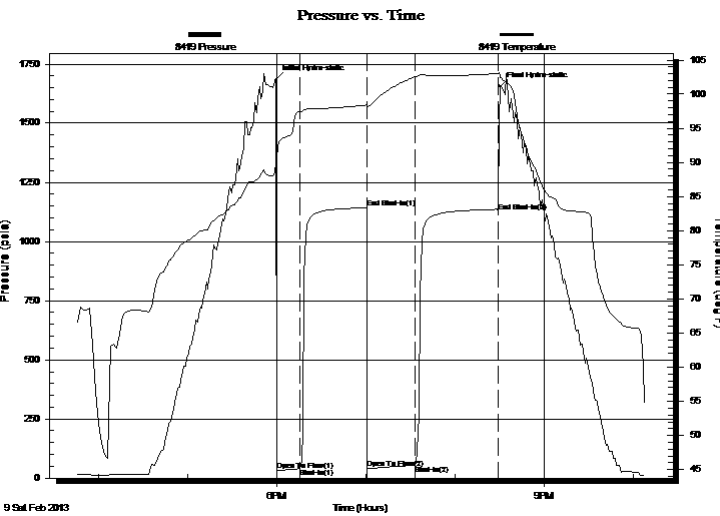
**24-17s-14w Barton**  
**#6-24 Clark**  
 Job Ticket: 17078      **DST#: 5**  
 Test Start: 2013.02.09 @ 00:00:00

## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: No      Whipstock:      ft (KB)  
 Time Tool Opened:  
 Time Test Ended:  
**Interval: 3479.00 ft (KB) To 3487.00 ft (KB) (TVD)**  
 Total Depth: 3487.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches      Hole Condition: Poor  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Shane Konzem  
 Unit No: 3330-40/ Great Bend  
 Reference Elevations: 1986.00 ft (KB)  
 1977.00 ft (CF)  
 KB to GR/CF: 9.00 ft

**Serial #: 8419      Outside**  
 Press @ RunDepth: 1125.49 psia @ 3484.00 ft (KB)      Capacity: 5000.00 psia  
 Start Date: 2013.02.09      End Date: 2013.02.09      Last Calib.: 2013.02.09  
 Start Time: 15:45:00      End Time: 22:07:30      Time On Btm: 2013.02.09 @ 17:59:30  
 Time Off Btm: 2013.02.09 @ 20:30:00

**TEST COMMENT:** 1st Open/ 15 Minutes. Weak blow built to 1/8 inch in 5 gallon bucket in 5 minutes.  
 1st Shut In/ 45 Minutes. No blow back.  
 2nd Open/ 30 Minutes. Weak blow to 1 inch in 5 gallon bucket in 10 minutes.  
 2nd SHut In/ 60 Minutes. No blow back.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1682.37	90.10	Initial Hydro-static
1	33.00	90.62	Open To Flow (1)
16	40.31	97.43	Shut-In(1)
61	1142.47	98.41	End Shut-In(1)
62	41.55	97.96	Open To Flow (2)
94	56.07	102.57	Shut-In(2)
150	1125.49	103.01	End Shut-In(2)
151	1656.56	102.75	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
40.00	clean oil Gravity 38	0.20
30.00	Heavy oil cut mud	0.15
0.00	40%Oil 60%Mud	0.00

## Gas Rates

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



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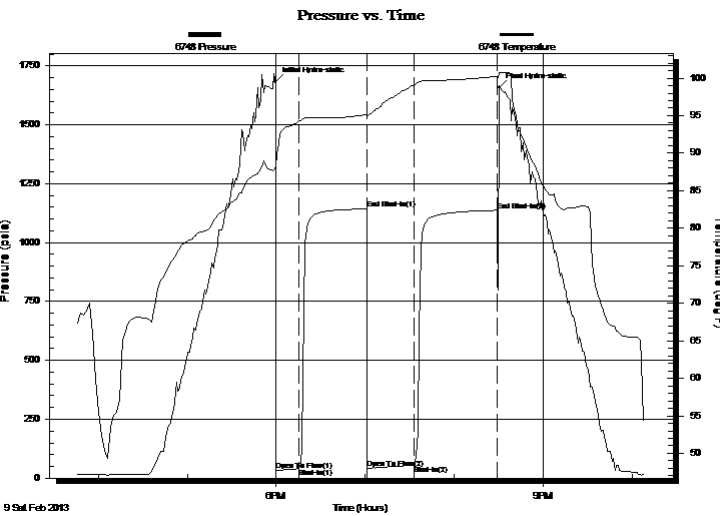
**24-17s-14w Barton**  
**#6-24 Clark**  
 Job Ticket: 17078      **DST#: 5**  
 Test Start: 2013.02.09 @ 00:00:00

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Formation: **Arbuckle**  
 Deviated: No      Whipstock:      ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened:  
 Tester: Shane Konzem  
 Time Test Ended:  
 Unit No: 3330-40/ Great Bend  
 Reference Elevations: 1986.00 ft (KB)  
 1977.00 ft (CF)  
 Interval: **3479.00 ft (KB) To 3487.00 ft (KB) (TVD)**  
 Total Depth: 3487.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches      Hole Condition: Poor      KB to GR/CF: 9.00 ft

**Serial #: 6748      Inside**  
 Press @ RunDepth: 1136.66 psia @ 3483.00 ft (KB)      Capacity: 5000.00 psia  
 Start Date: 2013.02.09      End Date: 2013.02.09      Last Calib.: 2013.02.09  
 Start Time: 15:45:00      End Time: 22:09:00      Time On Btm: 2013.02.09 @ 17:59:30  
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 2nd Open/ 30 Minutes. Weak blow to 1 inch in 5 gallon bucket in 10 minutes.  
 2nd SHut In/ 60 Minutes. No blow back.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1681.90	88.20	Initial Hydro-static
1	34.31	88.11	Open To Flow (1)
17	40.61	94.28	Shut-In(1)
62	1142.91	95.15	End Shut-In(1)
62	42.30	94.92	Open To Flow (2)
94	55.39	99.11	Shut-In(2)
150	1136.66	100.23	End Shut-In(2)
151	1657.64	100.69	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
40.00	clean oil Gravity 38	0.20
30.00	Heavy oil cut mud	0.15
0.00	40%Oil 60%Mud	0.00

## Gas Rates

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



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**TOOL DIAGRAM**

Shelby Resources L.L.C.  
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**24-17s-14w Barton**  
**#6-24 Clark**  
 Job Ticket: 17078      **DST#: 5**  
 Test Start: 2013.02.09 @ 00:00:00

## Tool Information

Drill Pipe:	Length: 3245.00 ft	Diameter: 3.80 inches	Volume: 45.52 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: 210.00 ft	Diameter: 2.25 inches	Volume: 1.03 bbl	Weight to Pull Loose: 86000.00 lb
			<u>Total Volume: 46.55 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	3479.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	8.00 ft			
Tool Length:	37.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3451.00	
Shut-In Tool	5.00			3456.00	
Hydroic Tool	5.00			3461.00	
Jars	6.00			3467.00	
Safety Joint	2.00			3469.00	
Packer	5.00			3474.00	29.00      Bottom Of Top Packer
Packer	5.00			3479.00	
Perforations	3.00			3482.00	
Recorder	1.00	6748	Inside	3483.00	
Recorder	1.00	8419	Outside	3484.00	
Bullnose	3.00			3487.00	8.00      Bottom Packers & Anchor

**Total Tool Length: 37.00**



# DRILL STEM TEST REPORT

## 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: 56.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.20 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 6200.00 ppm			
Filter Cake: 1.00 inches			

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
40.00	clean oil Gravity 38	0.197
30.00	Heavy oil cut mud	0.148
0.00	40%Oil 60%Mud	0.000

Total Length: 70.00 ft      Total Volume: 0.345 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments:

### Pressure vs. Time

