



## DRILL STEM TEST REPORT

Prepared For: **Shelby Resources LLC**

2117 Canal Blvd,  
Hays Ks, 67601

ATTN: Jeremy Schwartz

### **Reif Trust #2-23**

### **23/18s/14w/Barton**

Start Date: 2014.07.11 @ 19:05:00

End Date: 2014.07.12 @ 00:39:00

Job Ticket #: 18596                      DST #: 1

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

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Shelby Resources LLC

23/18s/14w/Barton

2117 Canal Blvd,  
Hays Ks. 67601

Reif Trust #2-23

Job Ticket: 18596

DST#: 1

ATTN: Jeremy Schwartz

Test Start: 2014.07.11 @ 19:05:00

## GENERAL INFORMATION:

Formation: **Lansing "A-D"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:22:00

Time Test Ended: 00:39:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Shane Konzem

Unit No: 3330/25/Great Bend

Interval: **3166.00 ft (KB) To 3230.00 ft (KB) (TVD)**

Reference Elevations: 1909.00 ft (KB)

Total Depth: 3230.00 ft (KB) (TVD)

1900.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 9.00 ft

Serial #: **8524** Inside

Press@RunDepth: 62.00 psig @ 3225.41 ft (KB)

Capacity: 5000.00 psig

Start Date: 2014.07.11

End Date:

2014.07.12

Last Calib.:

2014.07.12

Start Time: 19:05:00

End Time:

00:39:00

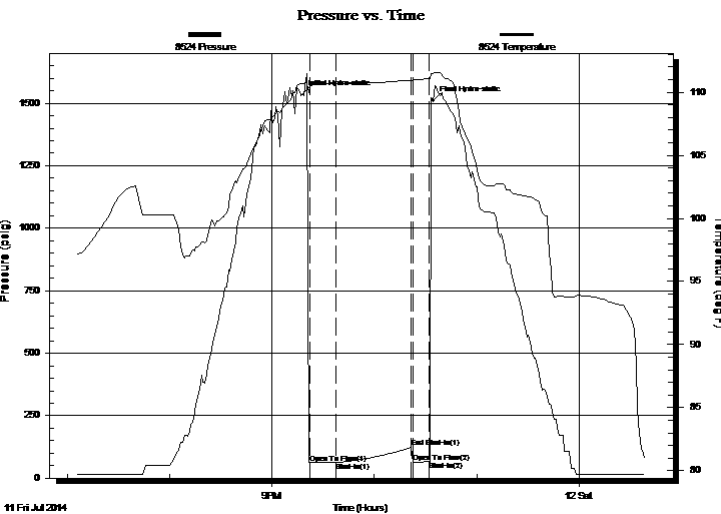
Time On Btm:

2014.07.11 @ 21:17:30

Time Off Btm:

2014.07.11 @ 22:34:30

TEST COMMENT: 1st Open/ 15 Minutes. Weak surface blow.  
 1st Shut In/ 45 Minutes. No blow back.  
 2nd Open/ 10 Minutes. No blow, flushed tool had good flush bubbles and gained no blow. Pulled tool per Geo.  
 2nd Shut In/ N/A



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1533.39	110.69	Initial Hydro-static
5	61.10	110.50	Open To Flow (1)
20	62.00	110.66	Shut-In(1)
65	123.69	110.96	End Shut-In(1)
65	63.41	110.95	Open To Flow (2)
75	65.97	111.06	Shut-In(2)
77	1508.48	111.50	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	100% Mud	0.02

## Gas Rates

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



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Interval: **3166.00 ft (KB) To 3230.00 ft (KB) (TVD)**

Reference Elevations: 1909.00 ft (KB)

Total Depth: 3230.00 ft (KB) (TVD)

1900.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 9.00 ft

Serial #: **8159** Outside

Press@RunDepth: 123.79 psig @ 3226.41 ft (KB)

Capacity: 5000.00 psig

Start Date: 2014.07.11

End Date:

2014.07.12

Last Calib.:

2014.07.12

Start Time: 19:05:00

End Time:

00:40:30

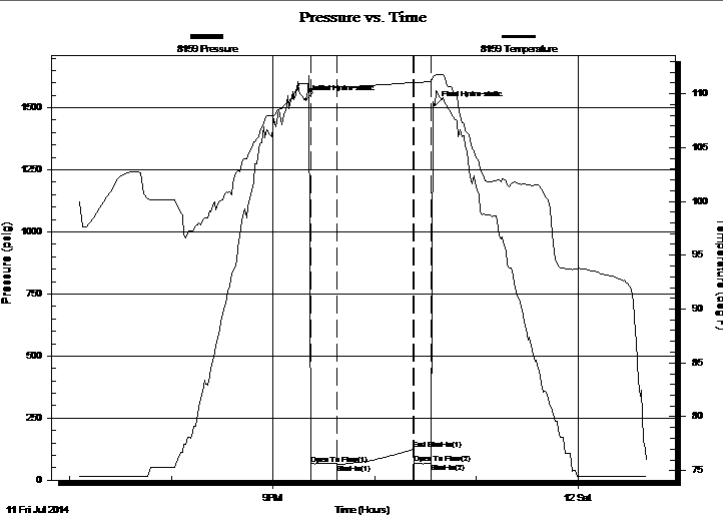
Time On Btm:

2014.07.11 @ 21:19:30

Time Off Btm:

2014.07.11 @ 22:35:30

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 1st Shut In/ 45 Minutes. No blow back.  
 2nd Open/ 10 Minutes. No blow, flushed tool had good flush bubbles and gained no blow. Pulled tool per Geo.  
 2nd Shut In/ N/A



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1532.97	110.94	Initial Hydro-static
3	61.97	110.02	Open To Flow (1)
18	65.84	110.63	Shut-In(1)
63	123.79	111.03	End Shut-In(1)
64	66.39	111.03	Open To Flow (2)
74	68.17	111.13	Shut-In(2)
76	1508.96	111.69	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	100% Mud	0.02

## Gas Rates

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



# DRILL STEM TEST REPORT

TOOL DIAGRAM

Shelby Resources LLC

23/18s/14w/Barton

2117 Canal Blvd,  
Hays Ks. 67601

Reif Trust #2-23

Job Ticket: 18596

DST#: 1

ATTN: Jeremy Schwartz

Test Start: 2014.07.11 @ 19:05:00

## Tool Information

Drill Pipe:	Length: 2932.00 ft	Diameter: 3.80 inches	Volume: 41.13 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: 218.00 ft	Diameter: 2.25 inches	Volume: 1.07 bbl	Weight to Pull Loose: 82000.00 lb
			<u>Total Volume: 42.20 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 74000.00 lb
Depth to Top Packer:	3166.00 ft			Final 74000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	63.41 ft			
Tool Length:	91.41 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			3143.00	
Hydraulic tool	5.00			3148.00	
Jars	6.00			3154.00	
Safety Joint	2.00			3156.00	
Packer	5.00			3161.00	28.00 Bottom Of Top Packer
Packer	5.00			3166.00	
Anchor	5.00			3171.00	
Change Over Sub	0.75			3171.75	
Drill Pipe	31.91			3203.66	
Drill Pipe	0.00			3203.66	
Change Over Sub	0.75			3204.41	
Anchor	20.00			3224.41	
Recorder	1.00	8524	Inside	3225.41	
Recorder	1.00	8159	Outside	3226.41	
Bullk Plug	3.00			3229.41	63.41 Bottom Packers & Anchor

**Total Tool Length: 91.41**



# DRILL STEM TEST REPORT

## FLUID SUMMARY

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DST#: 1

ATTN: Jeremy Schwartz

Test Start: 2014.07.11 @ 19:05:00

### Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 50.00 sec/qt

Water Loss: 10.39 in<sup>3</sup>

Resistivity: ohm.m

Salinity: 6000.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: ppm

deg API

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	100% Mud	0.025

Total Length: 5.00 ft      Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

