



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: 2014.07.13 @ 08:10:00

End Date: 2014.07.13 @ 12:59:00

Job Ticket #: 18597 DST #: 2

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

Printed: 2014.07.13 @ 14:29:07



DRILL STEM TEST REPORT

Shelby Resources LLC

23/18s/14w/Barton

2117 Canal Blvd,
Hays Ks. 67601

Reif Trust #2-23

Job Ticket: 18597

DST#: 2

ATTN: Jeremy Schwartz

Test Start: 2014.07.13 @ 08:10:00

GENERAL INFORMATION:

Formation: **Kansas City "H"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:50:30

Time Test Ended: 12:59:00

Test Type: Conventional Straddle (Initial)

Tester: Shane Konzem

Unit No: 3330/25/Great Bend

Interval: **3286.00 ft (KB) To 3326.00 ft (KB) (TVD)**

Reference Elevations: 1909.00 ft (KB)

Total Depth: 3530.00 ft (KB) (TVD)

1900.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 9.00 ft

Serial #: **8159** Inside

Press@RunDepth: 48.13 psig @ 3316.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2014.07.13

End Date: 2014.07.13

Last Calib.: 2014.07.13

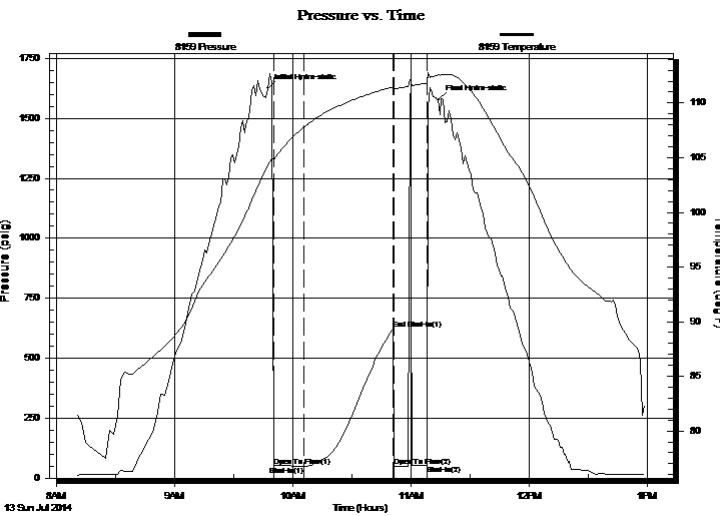
Start Time: 08:10:00

End Time: 12:59:00

Time On Btm: 2014.07.13 @ 09:47:30

Time Off Btm: 2014.07.13 @ 11:14:00

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



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1625.09	104.28	Initial Hydro-static
3	47.99	104.81	Open To Flow (1)
18	48.13	107.78	Shut-In(1)
64	622.58	111.45	End Shut-In(1)
64	49.35	111.30	Open To Flow (2)
81	54.42	111.82	Shut-In(2)
87	1576.96	112.57	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

Shelby Resources LLC

23/18s/14w/Barton

2117 Canal Blvd,
Hays Ks. 67601

Reif Trust #2-23

Job Ticket: 18597

DST#: 2

ATTN: Jeremy Schwartz

Test Start: 2014.07.13 @ 08:10:00

GENERAL INFORMATION:

Formation: **Kansas City "H"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:50:30

Time Test Ended: 12:59:00

Test Type: Conventional Straddle (Initial)

Tester: Shane Konzem

Unit No: 3330/25/Great Bend

Interval: **3286.00 ft (KB) To 3326.00 ft (KB) (TVD)**

Reference Elevations: 1909.00 ft (KB)

Total Depth: 3530.00 ft (KB) (TVD)

1900.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 9.00 ft

Serial #: **6806** Outside

Press@RunDepth: 607.01 psig @ 3317.00 ft (KB)

Capacity: 5000.00 psig

Start Date: 2014.07.13

End Date: 2014.07.13

Last Calib.: 2014.07.13

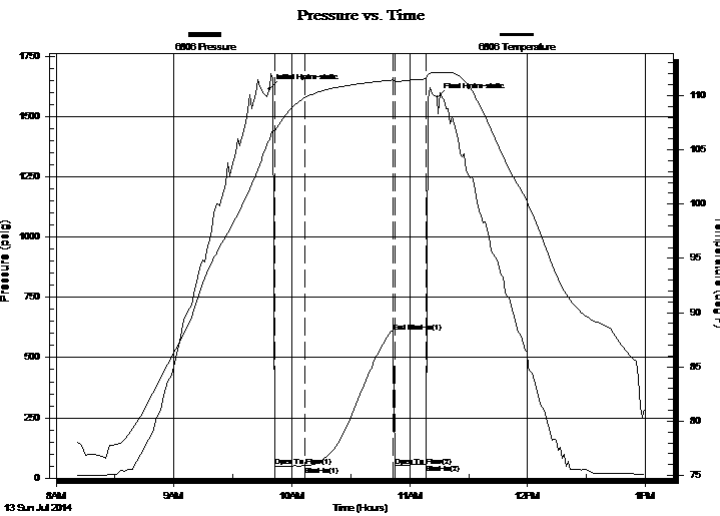
Start Time: 08:10:00

End Time: 13:00:00

Time On Btm: 2014.07.13 @ 09:48:30

Time Off Btm: 2014.07.13 @ 11:14:00

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



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1614.28	105.97	Initial Hydro-static
3	47.91	106.71	Open To Flow (1)
18	50.79	109.77	Shut-In(1)
63	607.01	111.43	End Shut-In(1)
64	50.78	111.30	Open To Flow (2)
80	57.17	111.54	Shut-In(2)
86	1579.54	112.10	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: 18597

DST#: 2

ATTN: Jeremy Schwartz

Test Start: 2014.07.13 @ 08:10:00

Tool Information

Drill Pipe:	Length: 3049.00 ft	Diameter: 3.80 inches	Volume: 42.77 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: 84000.00 lb
			<u>Total Volume: 43.84 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 79000.00 lb
Depth to Top Packer:	3286.00 ft			Final 79000.00 lb
Depth to Bottom Packer:	3317.75 ft			
Interval between Packers:	31.75 ft			
Tool Length:	267.49 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Shut In Tool	5.00			3263.00		
Hydraulic tool	5.00			3268.00		
Jars	6.00			3274.00		
Safety Joint	2.00			3276.00		
Packer	5.00			3281.00	28.00	Bottom Of Top Packer
Packer	5.00			3286.00		
Anchor	29.00		Outside	3315.00		
Recorder	1.00	8159	Inside	3316.00		
Recorder	1.00	6806	Outside	3317.00		
Blank Off Sub	0.75			3317.75	31.75	Tool Interval
Packer	5.00			3322.75		
Perforations	6.00			3328.75		
Change Over Sub	0.75			3329.50		
Drill Pipe	191.24			3520.74		
Change Over Sub	0.75		Below	3521.49		
Recorder	1.00	8524	Below	3522.49		
Bullnose	3.00			3525.49	207.74	Bottom Packers & Anchor
Total Tool Length:	267.49					



DRILL STEM TEST REPORT

FLUID SUMMARY

Shelby Resources LLC

23/18s/14w/Barton

2117 Canal Blvd,
Hays Ks. 67601

Reif Trust #2-23

Job Ticket: 18597

DST#: 2

ATTN: Jeremy Schwartz

Test Start: 2014.07.13 @ 08:10:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 51.00 sec/qt

Water Loss: 11.18 in³

Resistivity: ohm.m

Salinity: 6800.00 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:

Pressure vs. Time

