



DRILL STEM TEST REPORT

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

2717 Canal Blvd Hays KS 67601

ATTN: Jeremy Schwartz

Slattery Unit #1-16

16-18-14w Barton

Start Date: 2013.10.13 @ 20:26:00

End Date: 2013.10.14 @ 00:35:30

Job Ticket #: 18447 DST #: 2

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

Printed: 2013.10.14 @ 00:47:48

Shelby Resources L.L.C

16-18-14w Barton

Slattery Unit #1-16

DST # 2

Lansing "K" zone

2013.10.13



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 ATTN: Jeremy Schwartz

16-18-14w Barton
Slattery Unit #1-16
 Job Ticket: 18447 **DST#:2**
 Test Start: 2013.10.13 @ 20:26:00

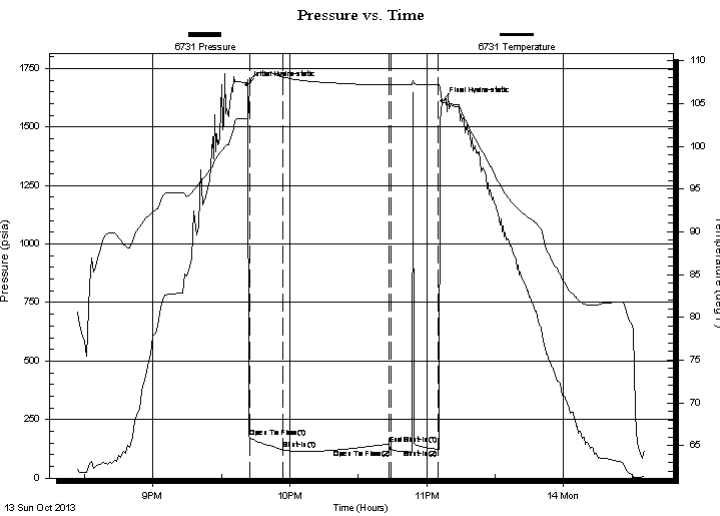
GENERAL INFORMATION:

Formation: **Lansing "K" zone**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 21:42:30 Tester: Jared Scheck
 Time Test Ended: 00:35:30 Unit No: 3320-Great Bend-40
 Interval: **3398.00 ft (KB) To 3440.00 ft (KB) (TVD)** Reference Elevations: 1956.00 ft (KB)
 Total Depth: 3440.00 ft (KB) (TVD) 1943.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Poor KB to GR/CF: 13.00 ft

Serial #: 6731

Press@RunDepth: 121.48 psia @ ft (KB) Capacity: 5000.00 psia
 Start Date: 2013.10.13 End Date: 2013.10.14 Last Calib.: 2013.10.14
 Start Time: 20:26:00 End Time: 00:35:30 Time On Btm: 2013.10.13 @ 21:41:00
 Time Off Btm: 2013.10.13 @ 23:06:30

TEST COMMENT: Initial Open 15 Minutes-Weak surface blow built 3 inches into bucket w water in 15 minutes
 Initial Shut-in 45 Minutes-No blow back
 Final Open 20 Minutes-No Blow flushed tool w eak surge did not build pulled tool
 Final Shut-in -Pulled tool



PRESSURE SUMMARY

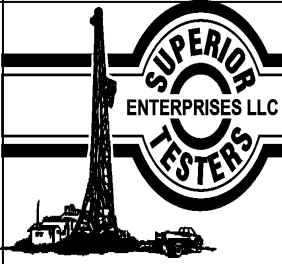
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1677.17	103.26	Initial Hydro-static
2	176.05	107.06	Open To Flow (1)
16	121.48	108.10	Shut-In(1)
63	143.66	107.23	End Shut-In(1)
64	121.70	107.21	Open To Flow (2)
84	123.28	107.26	Shut-In(2)
86	1610.00	105.20	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	mud	0.30

Gas Rates

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



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16-18-14w Barton
Slattery Unit #1-16
 Job Ticket: 18447 **DST#: 2**
 Test Start: 2013.10.13 @ 20:26:00

GENERAL INFORMATION:

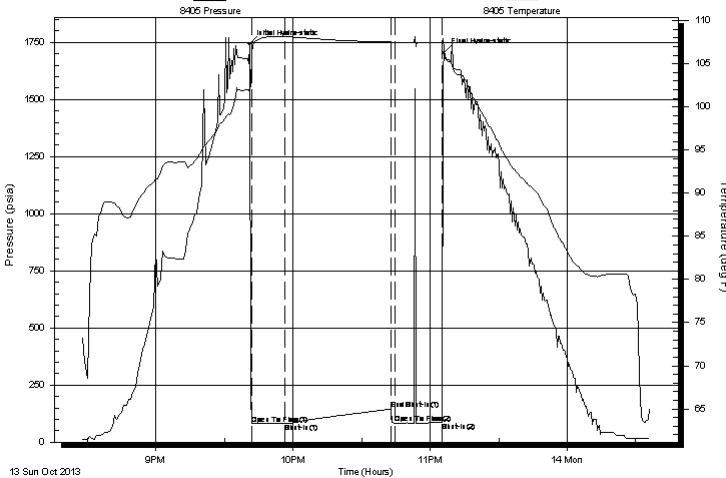
Formation: **Lansing "K" zone**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 21:42:30 Tester: Jared Scheck
 Time Test Ended: 00:35:30 Unit No: 3320-Great Bend-40
Interval: 3398.00 ft (KB) To 3440.00 ft (KB) (TVD) Reference Elevations: 1956.00 ft (KB)
 Total Depth: 3440.00 ft (KB) (TVD) 1943.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Poor KB to GR/CF: 13.00 ft

Serial #: 8405

Press@RunDepth: 144.52 psia @ ft (KB) Capacity: 5000.00 psia
 Start Date: 2013.10.13 End Date: 2013.10.14 Last Calib.: 2013.10.14
 Start Time: 20:27:00 End Time: 00:36:00 Time On Btm: 2013.10.13 @ 21:41:00
 Time Off Btm: 2013.10.13 @ 23:06:00

TEST COMMENT: Initial Open 15 Minutes-Weak surface blow built 3 inches into bucket w water in 15 minutes
 Initial Shut-in 45 Minutes-No blow back
 Final Open 20 Minutes-No Blow flushed tool w weak surge did not build pulled tool
 Final Shut-in -Pulled tool

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1742.48	102.17	Initial Hydro-static
1	80.40	106.23	Open To Flow (1)
16	82.57	108.16	Shut-In(1)
62	144.52	107.53	End Shut-In(1)
64	84.14	107.50	Open To Flow (2)
84	84.84	107.51	Shut-In(2)
85	1703.22	106.69	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	mud	0.30

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Shelby Resources L.L.C
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Tool Information

Drill Pipe:	Length: 3061.00 ft	Diameter: 3.80 inches	Volume: 42.94 bbl	Tool Weight: 1000.00 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: 330.00 ft	Diameter: 2.25 inches	Volume: 1.62 bbl	Weight to Pull Loose: 95000.00 lb
			<u>Total Volume: 44.56 bbl</u>	Tool Chased 8.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	3398.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	42.00 ft			
Tool Length:	70.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments: Flushed tool 2nd open

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			3375.00	
Hydraulic Tool	5.00			3380.00	
Jars	6.00			3386.00	
Safety Joint	2.00			3388.00	
Packer	5.00			3393.00	28.00 Bottom Of Top Packer
Packer	5.00			3398.00	
Anchor	37.00			3435.00	
Recorder	1.00	6731	Inside	3436.00	
Recorder	1.00		Outside	3437.00	
Bullnose	3.00			3440.00	42.00 Bottom Packers & Anchor
Total Tool Length:	70.00				



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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: 55.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.60 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 4200.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	mud	0.295

Total Length: 60.00 ft Total Volume: 0.295 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

Pressure vs. Time

