



## DRILL STEM TEST REPORT

Prepared For: **Shelby Resources LLC**

2717 Canal Blvd Suite C  
Hays Ks, 67601

ATTN: Jeremy Schwartz

**K-F Unit #1-34**

**34/17s/14w/Barton**

Start Date: 2013.08.30 @ 16:40:00

End Date: 2013.08.30 @ 21:29:00

Job Ticket #: 18489                      DST #: 4

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

Printed: 2013.08.30 @ 21:38:05



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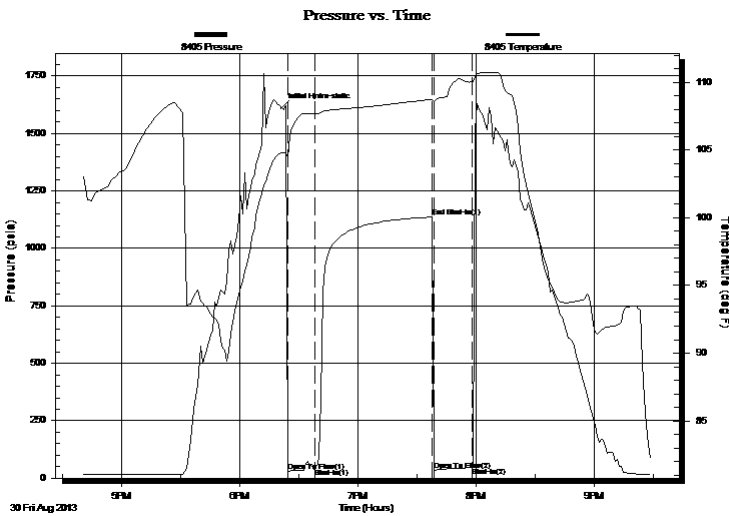
**34/17s/14w/Barton**  
**K-F Unit #1-34**  
 Job Ticket: 18489 **DST#: 4**  
 Test Start: 2013.08.30 @ 16:40:00

## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 18:24:30 Tester: Shane Konzem  
 Time Test Ended: 21:29:00 Unit No: 3330/28/Great Bend  
 Interval: **3354.00 ft (KB) To 3361.00 ft (KB) (TVD)** Reference Elevations: 1856.00 ft (KB)  
 Total Depth: 3361.00 ft (KB) (TVD) 1843.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Poor KB to GR/CF: 13.00 ft

**Serial #: 8405 Inside**  
 Press @ RunDepth: 42.79 psia @ 3357.00 ft (KB) Capacity: 5000.00 psia  
 Start Date: 2013.08.30 End Date: 2013.08.30 Last Calib.: 2013.08.30  
 Start Time: 16:40:00 End Time: 21:29:00 Time On Btm: 2013.08.30 @ 18:21:30  
 Time Off Btm:

**TEST COMMENT:** 1st Open/ 15 Minutes. Weak surface blow .  
 1st Shut In/ 60 Minutes. No blow back.  
 2nd Open/ 60 Minutes. No blow , flushed tool after 5 minutes and still no blow . Pulled test per geo.  
 2nd Shut In/ N/A



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1612.10	104.77	Initial Hydro-static
3	29.92	104.42	Open To Flow (1)
17	42.79	107.65	Shut-In(1)
76	1137.10	108.75	End Shut-In(1)
77	35.63	108.58	Open To Flow (2)
97	45.70	110.04	Shut-In(2)

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	No gas	0.00
5.00	100% mud	0.02

## Gas Rates

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



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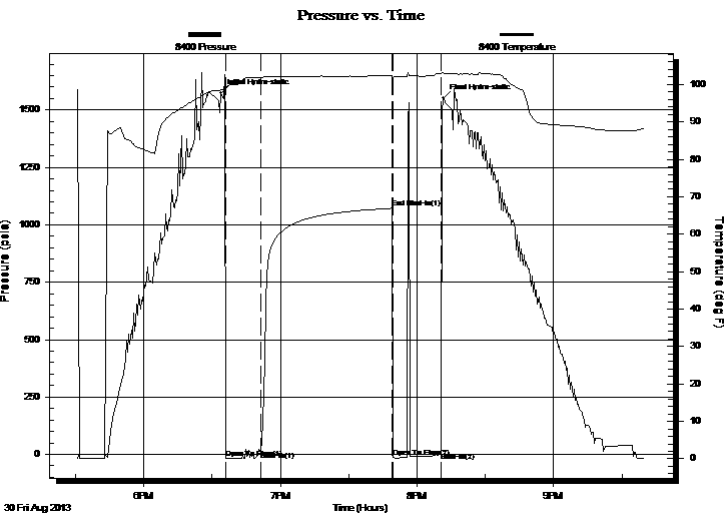
**34/17s/14w/Barton**  
**K-F Unit #1-34**  
 Job Ticket: 18489      **DST#: 4**  
 Test Start: 2013.08.30 @ 16:40:00

## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 18:24:30  
 Tester: Shane Konzem  
 Time Test Ended: 21:29:00  
 Unit No: 3330/28/Great Bend  
**Interval: 3354.00 ft (KB) To 3361.00 ft (KB) (TVD)**  
 Reference Elevations: 1856.00 ft (KB)  
 Total Depth: 3361.00 ft (KB) (TVD) 1843.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Poor KB to GR/CF: 13.00 ft

**Serial #: 8400 Outside**  
 Press @ RunDepth: 1071.84 psia @ 3358.00 ft (KB) Capacity: 5000.00 psia  
 Start Date: 2013.08.30 End Date: 2013.08.30 Last Calib.: 2013.08.30  
 Start Time: 16:40:00 End Time: 21:40:00 Time On Btm: 2013.08.30 @ 18:34:00  
 Time Off Btm: 2013.08.30 @ 20:11:30

**TEST COMMENT:** 1st Open/ 15 Minutes. Weak surface blow.  
 1st Shut In/ 60 Minutes. No blow back.  
 2nd Open/ 60 Minutes. No blow, flushed tool after 5 minutes and still no blow. Pulled test per geo.  
 2nd Shut In/ N/A



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1572.72	98.54	Initial Hydro-static
2	-16.94	99.03	Open To Flow (1)
18	14.33	101.81	Shut-In(1)
75	1071.84	102.33	End Shut-In(1)
76	-11.94	101.78	Open To Flow (2)
97	8.05	102.85	Shut-In(2)
98	1551.38	103.06	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	No gas	0.00
5.00	100% mud	0.02

## Gas Rates

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



# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Shelby Resources LLC

**34/17s/14w/Barton**

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**K-F Unit #1-34**

Job Ticket: 18489

**DST#: 4**

ATTN: Jeremy Schwartz

Test Start: 2013.08.30 @ 16:40:00

## Tool Information

Drill Pipe:	Length: 3021.00 ft	Diameter: 3.80 inches	Volume: 42.38 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: 329.68 ft	Diameter: 2.25 inches	Volume: 1.62 bbl	Weight to Pull Loose: 72000.00 lb
			<u>Total Volume: 44.00 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.68 ft			String Weight: Initial 66000.00 lb
Depth to Top Packer:	3354.00 ft			Final 66000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	7.00 ft			
Tool Length:	36.00 ft			
Number of Packers:	1	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3326.00	
Shut-In Tool	5.00			3331.00	
Hydroic Tool	5.00			3336.00	
Jars	6.00			3342.00	
Safety Joint	2.00			3344.00	
Packer	5.00			3349.00	29.00 Bottom Of Top Packer
Packer	5.00			3354.00	
Perforations	2.00			3356.00	
Recorder	1.00	8405	Inside	3357.00	
Recorder	1.00	8400	Outside	3358.00	
Bullnose	3.00			3361.00	7.00 Bottom Packers & Anchor

**Total Tool Length: 36.00**



# 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: 10.00 lb/gal

Cushion Length: ft

Water Salinity: ppm

Viscosity: 63.00 sec/qt

Cushion Volume: bbl

Water Loss: 12.00 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psia

Salinity: 9100.00 ppm

Filter Cake: 2.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	No gas	0.000
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:

