



## 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 @ 02:45:00

End Date: 2013.08.30 @ 10:33:00

Job Ticket #: 18488                      DST #: 3

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

Printed: 2013.08.30 @ 10:50:49



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 Hays Ks. 67601  
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**34/17s/14w/Barton**

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

Job Ticket: 18488

**DST#: 3**

Test Start: 2013.08.30 @ 02:45:00

## GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:36:30

Time Test Ended: 10:33:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Shane Konzem

Unit No: 3330/28/Great Bend

**Interval: 3303.00 ft (KB) To 3355.00 ft (KB) (TVD)**

Reference Elevations: 1856.00 ft (KB)

Total Depth: 3355.00 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 @ Run Depth: 173.38 psia @ 3351.40 ft (KB)

Capacity: 5000.00 psia

Start Date: 2013.08.30

End Date:

2013.08.30

Last Calib.:

2013.08.30

Start Time:

02:45:00

End Time:

10:33:00

Time On Btm:

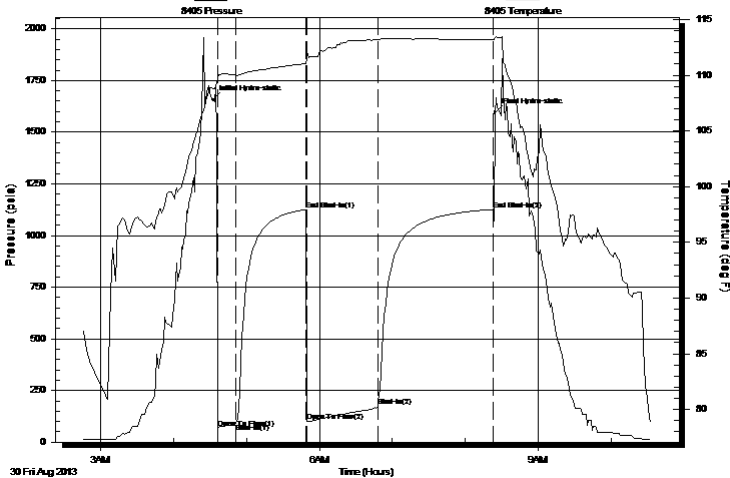
2013.08.30 @ 04:32:30

Time Off Btm:

2013.08.30 @ 08:24:30

**TEST COMMENT:** 1st Open/ 15 Minutes. Fair blow built to 5 inches in 5 gallon bucket.  
 1st Shut In/ 60 Minutes. No blow back.  
 2nd Open/ 60 Minutes. Fair blow built to bottom of 5 gallon bucket in 58 Minutes.  
 2nd Shut In/ 60 Minutes. No blow back.

Pressure vs. Time



## PRESSURE SUMMARY

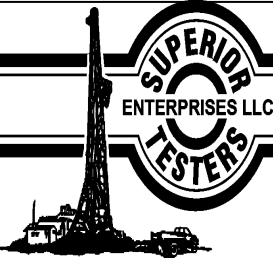
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1654.99	108.83	Initial Hydro-static
4	68.47	109.82	Open To Flow (1)
19	90.43	110.00	Shut-In(1)
76	1125.35	111.04	End Shut-In(1)
77	99.99	111.47	Open To Flow (2)
136	173.38	113.21	Shut-In(2)
231	1126.22	113.21	End Shut-In(2)
232	1594.01	113.37	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	360 foot gas	0.00
210.00	gassy clean oil	1.03
60.00	15% gas, 30% Oil cut 55% mud	0.30
0.00	Oil gravity was 40 corrected.	0.00

## Gas Rates

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



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ATTN: Jeremy Schwartz

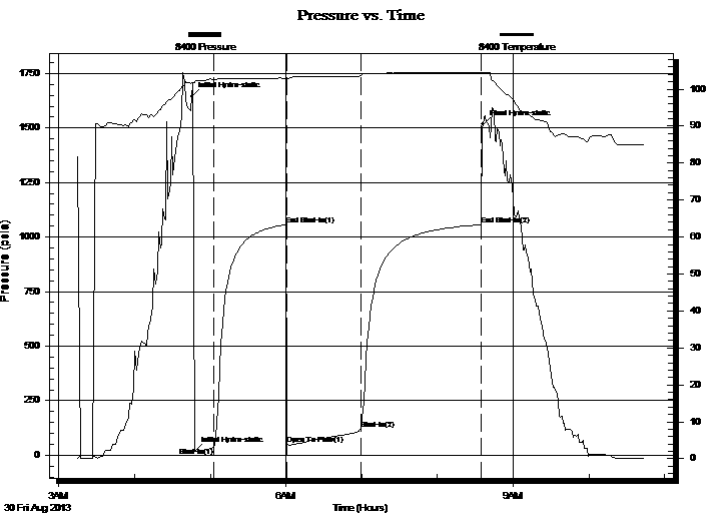
Test Start: 2013.08.30 @ 02:45:00

## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 04:36:30 Tester: Shane Konzem  
 Time Test Ended: 10:33:00 Unit No: 3330/28/Great Bend  
 Interval: **3303.00 ft (KB) To 3355.00 ft (KB) (TVD)** Reference Elevations: 1856.00 ft (KB)  
 Total Depth: 3355.00 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: 1056.54 psia @ 3352.40 ft (KB) Capacity: 5000.00 psia  
 Start Date: 2013.08.30 End Date: 2013.08.30 Last Calib.: 2013.08.30  
 Start Time: 02:45:00 End Time: 10:44:30 Time On Btm: 2013.08.30 @ 04:45:30  
 Time Off Btm: 2013.08.30 @ 08:36:00

**TEST COMMENT:** 1st Open/ 15 Minutes. Fair blow built to 5 inches in 5 gallon bucket.  
 1st Shut In/ 60 Minutes. No blow back.  
 2nd Open/ 60 Minutes. Fair blow built to bottom of 5 gallon bucket in 58 Minutes.  
 2nd Shut In/ 60 Minutes. No blow back.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1643.93	101.69	Initial Hydro-static
2	15.75	101.82	Initial Hydro-static
18	36.37	102.68	Shut-In(1)
75	1057.20	102.97	End Shut-In(1)
75	49.58	102.83	Open To Flow (1)
134	120.38	103.82	Shut-In(2)
229	1056.54	104.48	End Shut-In(2)
231	1516.96	104.49	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	360 foot gas	0.00
210.00	gassy clean oil	1.03
60.00	15% gas, 30% Oil cut 55% mud	0.30
0.00	Oil gravity w as 40 corrected.	0.00

## Gas Rates

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



# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Shelby Resources LLC

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

2717 Canal Blvd Suite C  
Hays Ks, 67601

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

Job Ticket: 18488

**DST#: 3**

ATTN: Jeremy Schwartz

Test Start: 2013.08.30 @ 02:45:00

## Tool Information

Drill Pipe:	Length: 2961.00 ft	Diameter: 3.80 inches	Volume: 41.54 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: 76000.00 lb
			<u>Total Volume: 43.16 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.68 ft			String Weight: Initial 66000.00 lb
Depth to Top Packer:	3303.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	52.40 ft			
Tool Length:	81.40 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			3275.00	
Shut-In Tool	5.00			3280.00	
Hydroic Tool	5.00			3285.00	
Jars	6.00			3291.00	
Safety Joint	2.00			3293.00	
Packer	5.00			3298.00	29.00 Bottom Of Top Packer
Packer	5.00			3303.00	
Perforations	5.00			3308.00	
Change Over Sub	0.75			3308.75	
Drill Pipe	31.90			3340.65	
Change Over Sub	0.75			3341.40	
Perforations	9.00			3350.40	
Recorder	1.00	8405	Inside	3351.40	
Recorder	1.00	8400	Outside	3352.40	
Bullnose	3.00			3355.40	52.40 Bottom Packers & Anchor

**Total Tool Length: 81.40**



# DRILL STEM TEST REPORT

## FLUID SUMMARY

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Test Start: 2013.08.30 @ 02:45:00

### Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 55.00 sec/qt  
Water Loss: 10.20 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 8400.00 ppm  
Filter Cake: 1.00 inches

Cushion Type:  
Cushion Length: ft  
Cushion Volume: bbl  
Gas Cushion Type:  
Gas Cushion Pressure: psia

Oil API: deg API  
Water Salinity: ppm

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	360 foot gas	0.000
210.00	gassy clean oil	1.033
60.00	15% gas, 30% Oil cut 55% mud	0.295
0.00	Oil gravity w as 40 corrected.	0.000

Total Length: 270.00 ft      Total Volume: 1.328 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

