



## DRILL STEM TEST REPORT

Prepared For: **Shelby Resources LLC**

2717 Canal BLVD.  
Suite C  
Hays Ks, 67601

ATTN: Jeremy Schwartz

**Nancy #2-17**

**17/17s/13w/Barton**

Start Date: 2013.10.22 @ 04:04:00

End Date: 2013.10.22 @ 13:33:30

Job Ticket #: 18506                      DST #: 1

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

Printed: 2013.10.22 @ 13:58:49

Shelby Resources LLC  
17/17s/13w/Barton  
Nancy #2-17  
DST # 1  
LKC "A-D"  
2013.10.22



# DRILL STEM TEST REPORT

Shelby Resources LLC  
 2717 Canal BLVD.  
 Suite C  
 Hays Ks, 67601  
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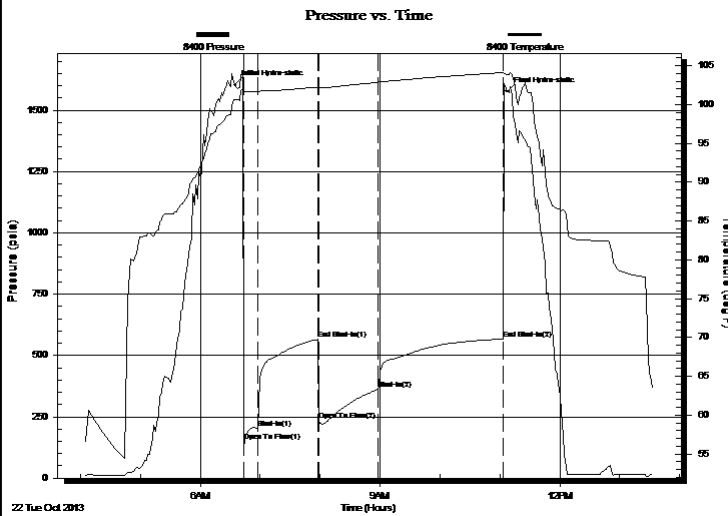
**17/17s/13w/Barton**  
**Nancy #2-17**  
 Job Ticket: 18506      **DST#: 1**  
 Test Start: 2013.10.22 @ 04:04:00

## GENERAL INFORMATION:

Formation: **LKC "A-D"**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 06:43:00  
 Tester: Shane Konzem  
 Time Test Ended: 13:33:30  
 Unit No: 3330/30/Great Bend  
**Interval: 3236.00 ft (KB) To 3300.00 ft (KB) (TVD)**  
 Reference Elevations: 1997.00 ft (KB)  
 Total Depth: 3300.00 ft (KB) (TVD) 1984.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Poor KB to GR/CF: 13.00 ft

**Serial #: 8400      Inside**  
 Press @ RunDepth: 362.65 psia @ 3296.40 ft (KB) Capacity: 5000.00 psia  
 Start Date: 2013.10.22 End Date: 2013.10.22 Last Calib.: 2013.10.22  
 Start Time: 04:04:00 End Time: 13:33:30 Time On Btm: 2013.10.22 @ 06:34:30  
 Time Off Btm: 2013.10.22 @ 11:07:00

**TEST COMMENT:** 1st Open/ 15 Minutes. Good blow built to bottom of 5 gallon bucket in 3 minutes and 45 seconds.  
 1st Shut In/ 60 Minutes. Blow back built to 6 inches in 5 gallon bucket.  
 2nd Open/ 60 Minutes. Good blow built to bottom of 5 gallon bucket in 5 minutes. Gas to surface in 45 minutes.  
 2nd Shut In/ 120 Minutes. Blow back built to bottom of 5 gallon bucket in 6 minutes.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1602.38	100.58	Initial Hydro-static
9	149.36	101.70	Open To Flow (1)
23	204.51	101.63	Shut-In(1)
83	565.64	102.23	End Shut-In(1)
85	235.55	102.12	Open To Flow (2)
144	362.65	102.84	Shut-In(2)
269	566.75	104.10	End Shut-In(2)
273	1576.59	103.86	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
864.00	30% gas, 70% clean oil.	9.65
0.00	Oil gravity corrected w as 41.	0.00

## Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
First Gas Rate	0.13	4.50	1.68
Last Gas Rate	0.13	8.25	3.09



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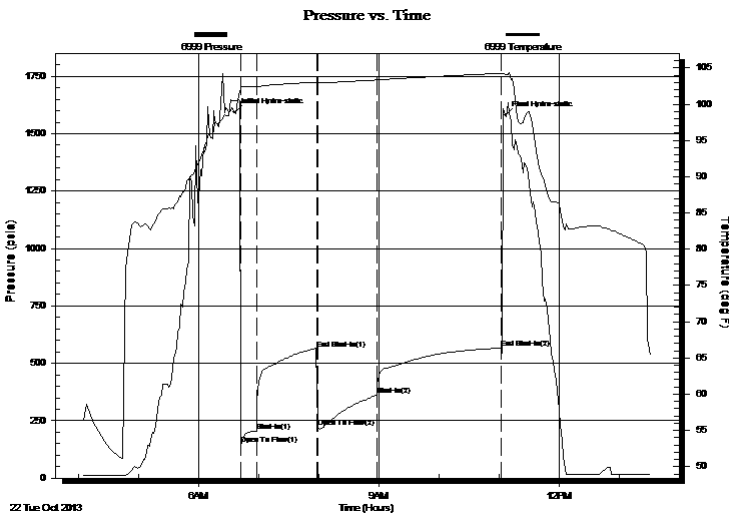
**17/17s/13w/Barton**  
**Nancy #2-17**  
 Job Ticket: 18506      **DST#: 1**  
 Test Start: 2013.10.22 @ 04:04:00

## GENERAL INFORMATION:

Formation: **LKC "A-D"**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 06:43:00 Tester: Shane Konzem  
 Time Test Ended: 13:33:30 Unit No: 3330/30/Great Bend  
 Interval: **3236.00 ft (KB) To 3300.00 ft (KB) (TVD)** Reference Elevations: 1997.00 ft (KB)  
 Total Depth: 3300.00 ft (KB) (TVD) 1984.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Poor KB to GR/CF: 13.00 ft

**Serial #: 6999 Outside**  
 Press @ Run Depth: 565.50 psia @ 3297.40 ft (KB) Capacity: 5000.00 psia  
 Start Date: 2013.10.22 End Date: 2013.10.22 Last Calib.: 2013.10.22  
 Start Time: 04:04:00 End Time: 13:32:30 Time On Btm: 2013.10.22 @ 06:35:30  
 Time Off Btm: 2013.10.22 @ 11:06:30

**TEST COMMENT:** 1st Open/ 15 Minutes. Good blow built to bottom of 5 gallon bucket in 3 minutes and 45 seconds.  
 1st Shut In/ 60 Minutes. Blow back built to 6 inches in 5 gallon bucket.  
 2nd Open/ 60 Minutes. Good blow built to bottom of 5 gallon bucket in 5 minutes. Gas to surface in 45 minutes.  
 2nd Shut In/ 120 Minutes. Blow back built to bottom of 5 gallon bucket in 6 minutes.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1592.26	100.44	Initial Hydro-static
7	146.83	102.32	Open To Flow (1)
22	203.39	102.40	Shut-In(1)
82	564.26	103.00	End Shut-In(1)
84	222.84	102.94	Open To Flow (2)
143	361.88	103.34	Shut-In(2)
267	565.50	104.28	End Shut-In(2)
271	1578.87	104.10	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
864.00	30% gas, 70% clean oil.	9.65
0.00	Oil gravity corrected w as 41.	0.00

## Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
First Gas Rate	0.13	4.50	1.68
Last Gas Rate	0.13	8.25	3.09



# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Shelby Resources LLC  
 2717 Canal BLVD.  
 Suite C  
 Hays Ks, 67601  
 ATTN: Jeremy Schwartz

**17/17s/13w/Barton**  
**Nancy #2-17**  
 Job Ticket: 18506      **DST#: 1**  
 Test Start: 2013.10.22 @ 04:04:00

**Tool Information**

Drill Pipe:	Length: 2966.00 ft	Diameter: 3.80 inches	Volume: 41.61 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: 25000.00 lb
Drill Collar:	Length: 270.87 ft	Diameter: 2.25 inches	Volume: 1.33 bbl	Weight to Pull Loose: 86000.00 lb
			<u>Total Volume: 42.94 bbl</u>	Tool Chased 1.00 ft
Drill Pipe Above KB:	29.87 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	3236.00 ft			Final 76000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	64.40 ft			
Tool Length:	93.40 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			3208.00	
Shut-In Tool	5.00			3213.00	
Hydroic Tool	5.00			3218.00	
Jars	6.00			3224.00	
Safety Joint	2.00			3226.00	
Packer	5.00			3231.00	29.00      Bottom Of Top Packer
Packer	5.00			3236.00	
Perforations	5.00			3241.00	
Change Over Sub	0.75			3241.75	
Drill Pipe	31.90			3273.65	
Change Over Sub	0.75			3274.40	
Perforations	21.00			3295.40	
Recorder	1.00	8400	Inside	3296.40	
Recorder	1.00	6999	Outside	3297.40	
Bullnose	3.00			3300.40	64.40      Bottom Packers & Anchor

**Total Tool Length: 93.40**



# DRILL STEM TEST REPORT

## FLUID SUMMARY

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**17/17s/13w/Barton**  
**Nancy #2-17**  
Job Ticket: 18506      **DST#: 1**  
Test Start: 2013.10.22 @ 04:04:00

### 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:	54.00 sec/qt	Cushion Volume:	bbbl		
Water Loss:	8.40 in <sup>3</sup>	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psia		
Salinity:	3500.00 ppm				
Filter Cake:	1.00 inches				

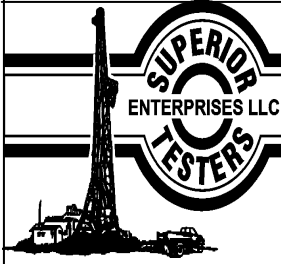
### Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
864.00	30% gas, 70% clean oil.	9.652
0.00	Oil gravity corrected w as 41.	0.000

Total Length: 864.00 ft      Total Volume: 9.652 bbl

Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments:



# DRILL STEM TEST REPORT

**GAS RATES**

Shelby Resources LLC

**17/17s/13w/Barton**

2717 Canal BLVD.  
Suite C  
Hays Ks, 67601  
ATTN: Jeremy Schwartz

**Nancy #2-17**

Job Ticket: 18506

**DST#: 1**

Test Start: 2013.10.22 @ 04:04:00

## Gas Rates Information

Temperature: 59 (deg F)  
Relative Density: 0.65  
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
2	45	0.13	4.50	1.68
2	55	0.13	8.25	3.09

