



## DRILL STEM TEST REPORT

Prepared For: **LB Exploration**

2135 2nd RD. Holyrood  
Kansas 67450

ATTN: Steven Petermann

**Wolkins 15 #1**

**15-33s-13w-Barber**

Start Date: 2012.04.07 @ 09:53:00

End Date: 2012.04.07 @ 18:46:30

Job Ticket #: 17281                      DST #: 2

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

Printed: 2012.04.07 @ 19:24:46

LB Exploration  
15-33s-13w-Barber  
Wolkins 15 #1  
DST # 2  
Kansas City  
2012.04.07



# DRILL STEM TEST REPORT

LB Exploration

**15-33s-13w-Barber**

2135 2nd RD. Holyrood  
Kansas 67450

**Wolkins 15 #1**

Job Ticket: 17281

**DST#: 2**

ATTN: Steven Petermann

Test Start: 2012.04.07 @ 09:53:00

## GENERAL INFORMATION:

Formation: **Kansas City**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:18:00

Time Test Ended: 18:46:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Ellis

Unit No: 3315 Pratt-80

**Interval: 4319.00 ft (KB) To 4354.00 ft (KB) (TVD)**

Reference Elevations: 1612.00 ft (KB)

Total Depth: 4354.00 ft (KB) (TVD)

1598.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 14.00 ft

**Serial #: 8400 Inside**

Press @ RunDepth: 214.29 psia @ 4350.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2012.04.07

End Date: 2012.04.07

Last Calib.: 2012.04.07

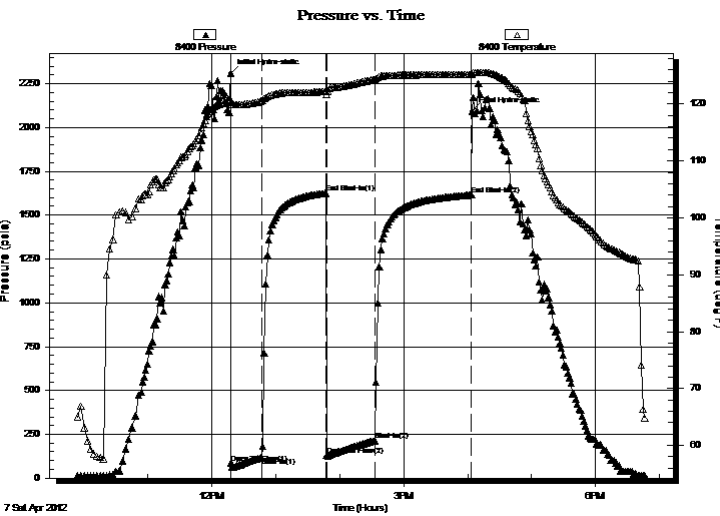
Start Time: 09:53:00

End Time: 18:46:30

Time On Btm: 2012.04.07 @ 12:17:30

Time Off Btm: 2012.04.07 @ 16:04:00

**TEST COMMENT:** 1st Open 30 minutes Strong building blow reached bottom bucket in two minutes.  
1st Shut in 60 minutes Yes blow back  
2nd Open 45 minutes Strong blow bottom bucket instantly  
2nd Shut in 90 minutes Yes blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2309.25	120.81	Initial Hydro-static
1	86.39	119.98	Open To Flow (1)
30	120.51	120.55	Shut-In(1)
90	1624.94	122.24	End Shut-In(1)
90	130.79	121.64	Open To Flow (2)
136	214.29	124.31	Shut-In(2)
226	1615.15	125.21	End Shut-In(2)
227	2092.47	125.34	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
47.00	Mud cut oil mud 85% Oil 15%	0.66
62.00	Gassy oil cut mud Mud 50%Oil 40%10%	0.87
62.00	Oil cut muddy w ater	0.87
0.00	50%mud20%w ater30%oil	0.00
62.00	Gassy oil cut watery mud	0.87
0.00	30%w ater30%oil 40%gas	0.00

## Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
First Gas Rate	0.50	6.90	46.55
Last Gas Rate	0.50	3.40	22.94
Max. Gas Rate	0.50	6.90	46.55



# DRILL STEM TEST REPORT

LB Exploration

**15-33s-13w-Barber**

2135 2nd RD. Holyrood  
Kansas 67450

**Wolkins 15 #1**

Job Ticket: 17281

**DST#: 2**

ATTN: Steven Petermann

Test Start: 2012.04.07 @ 09:53:00

## GENERAL INFORMATION:

Formation: **Kansas City**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:18:00

Time Test Ended: 18:46:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Ellis

Unit No: 3315 Pratt-80

**Interval: 4319.00 ft (KB) To 4354.00 ft (KB) (TVD)**

Reference Elevations: 1612.00 ft (KB)

Total Depth: 4354.00 ft (KB) (TVD)

1598.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 14.00 ft

**Serial #: 6663 Outside**

Press @ RunDepth: 1617.62 psia @ 4351.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2012.04.07

End Date: 2012.04.07

Last Calib.: 2012.04.07

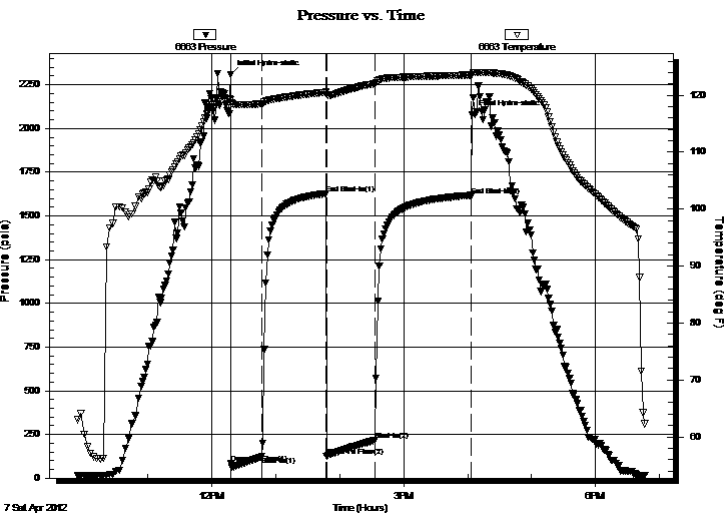
Start Time: 09:53:00

End Time: 18:46:30

Time On Btm: 2012.04.07 @ 12:17:30

Time Off Btm: 2012.04.07 @ 16:04:00

**TEST COMMENT:** 1st Open 30 minutes Strong building blow reached bottom bucket in two minutes.  
1st Shut in 60 minutes Yes blow back  
2nd Open 45 minutes Strong blow bottom bucket instantly  
2nd Shut in 90 minutes Yes blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2308.31	119.28	Initial Hydro-static
1	85.89	118.65	Open To Flow (1)
30	123.73	118.52	Shut-In(1)
90	1627.15	120.53	End Shut-In(1)
90	124.94	120.09	Open To Flow (2)
136	217.28	122.03	Shut-In(2)
226	1617.62	123.55	End Shut-In(2)
227	2081.21	123.66	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
47.00	Mud cut oil mud 85% Oil 15%	0.66
62.00	Gassy oil cut mud Mud 50%Oil 40%10%	0.87
62.00	Oil cut muddy w ater	0.87
0.00	50%mud20%w ater30%oil	0.00
62.00	Gassy oil cut watery mud	0.87
0.00	30%w ater30%oil 40%gas	0.00

## Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
First Gas Rate	0.50	6.90	46.55
Last Gas Rate	0.50	3.40	22.94
Max. Gas Rate	0.50	6.90	46.55



# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

LB Exploration

**15-33s-13w-Barber**

2135 2nd RD. Holyrood  
Kansas 67450

**Wolkins 15 #1**

Job Ticket: 17281

**DST#: 2**

ATTN: Steven Petermann

Test Start: 2012.04.07 @ 09:53:00

## Tool Information

Drill Pipe:	Length: 4313.00 ft	Diameter: 3.80 inches	Volume: 60.50 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 60.50 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	4319.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	35.00 ft			
Tool Length:	63.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			4296.00	
Hydraulic Tool	5.00			4301.00	
Jars	6.00			4307.00	
Safety Joint	2.00			4309.00	
Packer	5.00			4314.00	28.00 Bottom Of Top Packer
Packer	5.00			4319.00	
Perforations	30.00			4349.00	
Recorder	1.00	8400	Inside	4350.00	
Recorder	1.00	6663	Outside	4351.00	
Bull Plug	3.00			4354.00	35.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>63.00</b>				



# DRILL STEM TEST REPORT

## FLUID SUMMARY

LB Exploration

**15-33s-13w-Barber**

2135 2nd RD. Holyrood  
Kansas 67450

**Wolkins 15 #1**

Job Ticket: 17281

**DST#: 2**

ATTN: Steven Petermann

Test Start: 2012.04.07 @ 09:53:00

### Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 10.00 lb/gal  
Viscosity: 49.00 sec/qt  
Water Loss: 10.40 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 6000.00 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
47.00	Mud cut oil mud 85% Oil 15%	0.659
62.00	Gassy oil cut mud Mud 50%Oil 40%10%Gas	0.870
62.00	Oil cut muddy w ater	0.870
0.00	50%mud20%w ater30%oil	0.000
62.00	Gassy oil cut w atery mud	0.870
0.00	30%w ater30%oil 40%gas	0.000
124.00	Oil cut w ater 5%oil 95%w ater	1.739
62.00	Muddy w ater 20%mud 80%w ater	0.870
0.00		0.000

Total Length: 419.00 ft      Total Volume: 5.878 bbl

Num Fluid Samples: 0

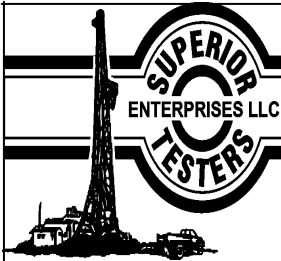
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



# DRILL STEM TEST REPORT

**GAS RATES**

LB Exploration

**15-33s-13w-Barber**

2135 2nd RD. Holyrood  
Kansas 67450

**Wolkins 15 #1**

Job Ticket: 17281

**DST#: 2**

ATTN: Steven Petermann

Test Start: 2012.04.07 @ 09:53:00

## 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)
1	10	0.50	6.90	46.55
2	20	0.50	4.50	30.36
3	30	0.50	3.60	24.28
4	40	0.50	3.40	22.94

