



## DRILL STEM TEST REPORT

Prepared For: **RJM Company**

P.O. Box 256  
Claffin ,Kansas67525

ATTN: Wyatt Urban

### **Concept Commercial #**

### **Russell 15-15s-30w**

Start Date: 2014.01.09 @ 06:31:00

End Date: 2014.01.09 @ 11:14:30

Job Ticket #: 17111                      DST #: 3

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

Printed: 2014.01.09 @ 18:32:49

RJM Company

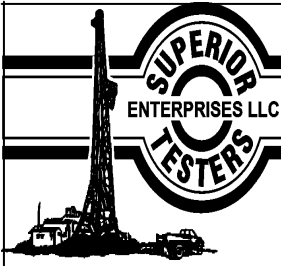
Russell 15-15s-30w

Concept Commercial #

DST # 3

Arbuckle

2014.01.09



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 Claflin ,Kansas67525  
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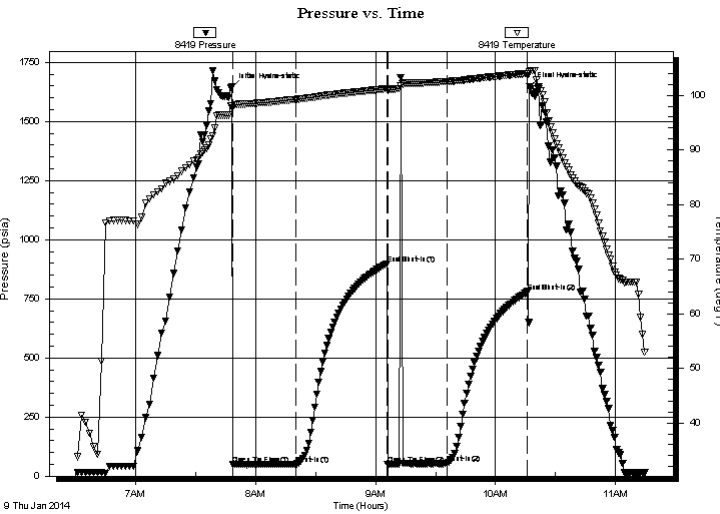
**Russell 15-15s-30w**  
**Concept Commercial #**  
 Job Ticket: 17111 **DST#: 3**  
 Test Start: 2014.01.09 @ 06:31:00

## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 07:48:30  
 Time Test Ended: 11:14:30  
 Interval: **3255.00 ft (KB) To 3298.00 ft (KB) (TVD)**  
 Total Depth: 3298.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Gene Budig  
 Unit No: 3320  
 Reference Elevations: 1839.00 ft (KB)  
 1832.00 ft (CF)  
 KB to GR/CF: 7.00 ft

**Serial #: 8419 Inside**  
 Press@RunDepth: 53.11 psia @ 3294.00 ft (KB) Capacity: 5000.00 psia  
 Start Date: 2014.01.09 End Date: 2014.01.09 Last Calib.: 2014.01.09  
 Start Time: 06:31:00 End Time: 11:14:30 Time On Btm: 2014.01.09 @ 07:48:00  
 Time Off Btm: 2014.01.09 @ 10:17:00

**TEST COMMENT:** 1st Opening 30 Minutes Weak blow for 11 minutes and died  
 1st Shut-In 45 Minutes -No blow back  
 2nd Opening 30 Minutes-No blow -Flushed tool-Good surge-Weak blow for 1 minute and died  
 2nd Shut-In 45 Minutes-No blow back



## PRESSURE SUMMARY

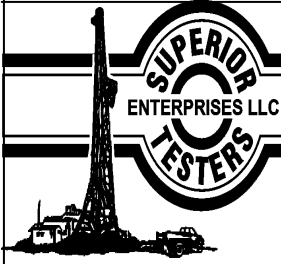
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1644.58	98.10	Initial Hydro-static
1	50.49	97.72	Open To Flow (1)
32	50.02	99.25	Shut-In(1)
78	897.26	101.20	End Shut-In(1)
78	50.02	100.91	Open To Flow (2)
108	53.11	102.50	Shut-In(2)
148	780.09	104.01	End Shut-In(2)
149	1647.06	104.33	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
7.00	oil cut mud 10%oil 90%mud	0.10
3.00	clean oil	0.04

## Gas Rates

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



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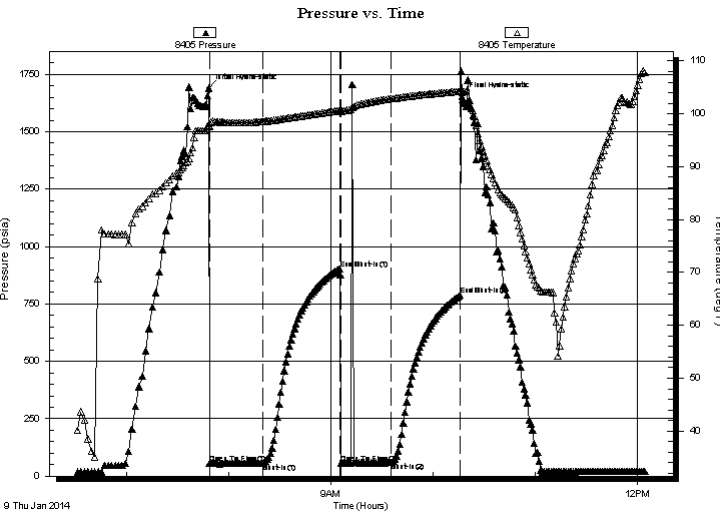
**Russell 15-15s-30w**  
**Concept Commercial #**  
 Job Ticket: 17111 **DST#: 3**  
 Test Start: 2014.01.09 @ 06:31:00

## GENERAL INFORMATION:

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 Time Tool Opened: 07:48:30  
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 Interval: **3255.00 ft (KB) To 3298.00 ft (KB) (TVD)**  
 Total Depth: 3298.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Gene Budig  
 Unit No: 3320  
 Reference Elevations: 1839.00 ft (KB)  
 1832.00 ft (CF)  
 KB to GR/CF: 7.00 ft

**Serial #: 8405 Outside**  
 Press@RunDepth: 788.35 psia @ 3295.00 ft (KB) Capacity: 5000.00 psia  
 Start Date: 2014.01.09 End Date: 2014.01.09 Last Calib.: 2014.01.09  
 Start Time: 06:31:00 End Time: 12:05:00 Time On Btm: 2014.01.09 @ 07:48:00  
 Time Off Btm: 2014.01.09 @ 10:17:00

**TEST COMMENT:** 1st Opening 30 Minutes Weak blow for 11 minutes and died  
 1st Shut-In 45 Minutes -No blow back  
 2nd Opening 30 Minutes -No blow -Flushed tool-Good surge-Weak blow for 1 minute and died  
 2nd Shut-In 45 Minutes -No blow back



## PRESSURE SUMMARY

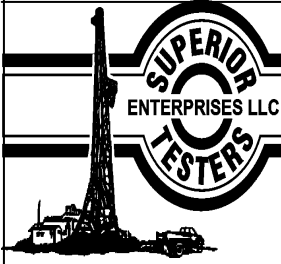
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1690.03	97.87	Initial Hydro-static
1	56.50	97.68	Open To Flow (1)
32	56.74	98.55	Shut-In(1)
77	903.16	100.60	End Shut-In(1)
78	56.18	100.50	Open To Flow (2)
108	59.50	102.86	Shut-In(2)
148	788.35	104.27	End Shut-In(2)
149	1653.57	104.12	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
7.00	oil cut mud 10%oil 90%mud	0.10
3.00	clean oil	0.04

## Gas Rates

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



# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

RJM Company

**Russell 15-15s-30w**

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ATTN: Wyatt Urban

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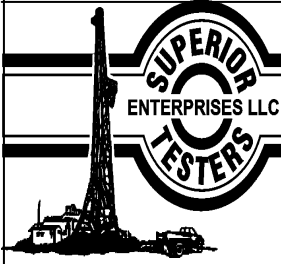
## Tool Information

Drill Pipe:	Length: 3255.00 ft	Diameter: 3.80 inches	Volume: 45.66 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.86 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 52000.00 lb
			<u>Total Volume: 45.66 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	3255.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	43.00 ft			
Tool Length:	71.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut-In Tool	5.00			3232.00	
Hydraulic Tool	5.00			3237.00	
Safety Joint	2.00			3239.00	
Jars	6.00			3245.00	
Packer	5.00			3250.00	28.00 Bottom Of Top Packer
Packer	5.00			3255.00	
Anchor	38.00			3293.00	
Recorder	1.00	8419	Inside	3294.00	
Recorder	1.00	8405	Outside	3295.00	
Bullnose	3.00			3298.00	43.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>71.00</b>				



# DRILL STEM TEST REPORT

## FLUID SUMMARY

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**DST#: 3**

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Test Start: 2014.01.09 @ 06:31:00

### 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: 55.00 sec/qt

Cushion Volume: bbl

Water Loss: 7.20 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psia

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
7.00	oil cut mud 10%oil 90%mud	0.098
3.00	clean oil	0.042

Total Length: 10.00 ft      Total Volume: 0.140 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time

