



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1183373  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

Form must be Typed  
Form must be Signed  
All blanks must be Filled

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

- New Well       Re-Entry       Workover
- Oil       WSW       SWD       SIOW
- Gas       D&A       ENHR       SIGW
- OG       GSW       Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic       Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

- Deepening       Re-perf.       Conv. to ENHR       Conv. to SWD
- Plug Back       Conv. to GSW       Conv. to Producer
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion      Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE       NW       SE       SW

GPS Location: Lat: \_\_\_\_\_, Long: \_\_\_\_\_  
(e.g. xx.xxxxx)      (e.g. -xxx.xxxxx)

Datum:  NAD27       NAD83       WGS84

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Vertical Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite:

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- Confidentiality Requested  
Date: \_\_\_\_\_
- Confidential Release Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

1183373

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No  List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
--	---

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?  Yes  No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:	Size: _____ Set At: _____ Packer At: _____	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR. _____	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
---	--

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <i>(Submit ACO-4)</i>	<b>PRODUCTION INTERVAL:</b> _____ _____
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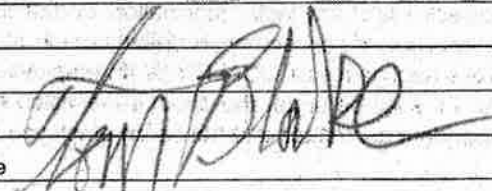
# QUALITY OILWELL CEMENTING, INC.

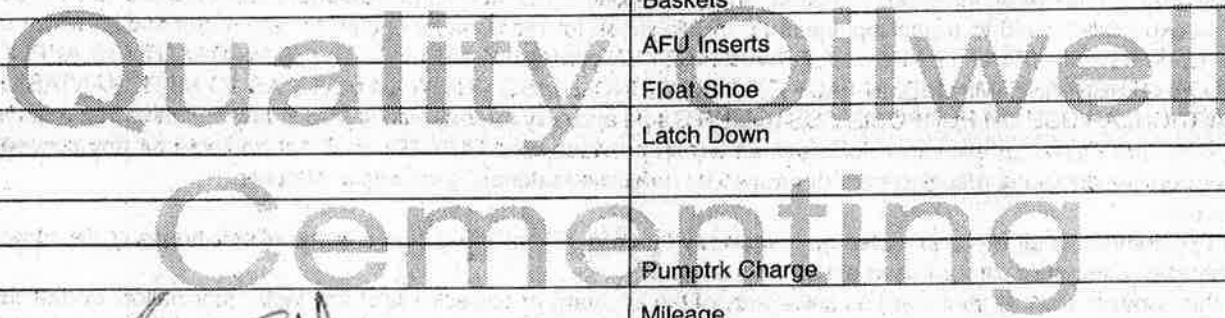
Federal Tax I.D.# 20-2886107

Phone 785-483-2025  
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 7588

Date	1-4-14	Sec.	15	Twp.	15	Range	13	County	Russell	State	Ks	On Location		Finish	2:15 AM
Lease								Location							
Concept Commercial								Russell Ks - Pioneer Rd + I-70, S to							
Well No. 1								Owner Winters Rd, IF, 3/4 N, W/Rate							
Contractor Royal 2								To Quality Oilwell Cementing, Inc.							
Type Job Surface								You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.							
Hole Size 12 1/4"				T.D. 394'				Charge To RTM Company							
Csg. 8 5/8"				Depth 394'				Street							
Tbg. Size				Depth				City				State			
Tool				Depth				The above was done to satisfaction and supervision of owner agent or contractor.							
Cement Left in Csg. 15'				Shoe Joint 15'				Cement Amount Ordered				200 Common 3% CC 2% Gil			
Meas Line				Displace 24 BLS											
<b>EQUIPMENT</b>								<b>Common</b>							
Pumptrk 16		No.		Cementer		Helper		Billy		Poz. Mix					
Bulktrk 1		No.		Driver		David		L		Gel.					
Bulktrk p.u.		No.		Driver		Rock				Calcium					
<b>JOB SERVICES &amp; REMARKS</b>								<b>Hulls</b>							
Remarks: Cement did Circulate								Salt							
Rat Hole								Flowseal							
Mouse Hole								Kol-Seal							
Centralizers								Mud CLR 48							
Baskets								CFL-117 or CD110 CAF 38							
D/V or Port Collar								Sand							
								Handling							
								Mileage							
								<b>FLOAT EQUIPMENT</b>							
								Guide Shoe							
								Centralizer							
								Baskets							
								AFU Inserts							
								Float Shoe							
								Latch Down							
								Pumptrk Charge							
								Mileage							
								Tax							
								Discount							
								Total Charge							
Signature 															



# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025  
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 7635

Date	Sec.	Twp.	Range	County	State	On Location	Finish
1-10-14	15	15	13	Russell	KS	4:00 AM	7:30 AM

Location Pioneer Hill and 170 St

Lease Concept Commercial Well No. 1 Owner Hunt-Sett RD NE 1/4 N 1/4 W 1/4

Contractor Royal 2 To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.

Type Job Lungsting

Hole Size 7 7/8 T.D. 3350 Charge To RJM

Csg. S10 Depth 3351 Street

Tbg. Size Depth City State

Tool Depth The above was done to satisfaction and supervision of owner agent or contractor.

Cement Left in Csg. 10.22 Shoe Joint 10.20 Cement Amount Ordered 200ccm 10% salt

Meas Line Displace 80. BBL 5% oil soluble

**EQUIPMENT**

Pumptrk #5	No.	Cementer	Helper	Common
Bulktrk #1	No.	Driver	Driver	Poz. Mix
Bulktrk #2	No.	Driver	Driver	Gel.
				Calcium

**JOB SERVICES & REMARKS**

Remarks:	Hulls
Rat Hole 30 1/2	Salt
Mouse Hole 155 1/2	Flowseal
Centralizers 123456789	Kol-Seal
Baskets 2	Mud CLR 48 5000
D/V or Port Collar	CFL-117 or CD110 CAF 38
	Sand
	Handling
	Mileage

**FLOAT EQUIPMENT**

Run mud flush	Guide Shoe 1
Ret mouse hole	Centralizer turbos 9
135 down hole	Baskets 2
80 BBL of water	AFU Inserts 1
Lift 1800 PSI	Float Shoe
Level 1600 PSI	Latch Down

Pumptrk Charge

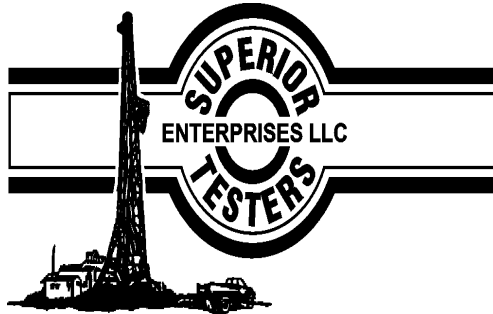
Mileage

Tax

Discount

Total Charge

X Signature [Signature]



## DRILL STEM TEST REPORT

Prepared For: **RJM Company**

P.O. Box 256  
Claffin ,Kansas67525

ATTN: Wyatt Urban

### **Concept Commercial #**

**15-15s-30w**

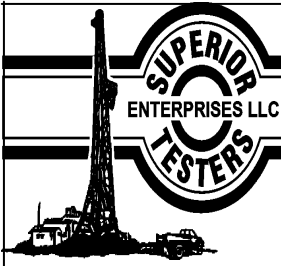
Start Date: 2014.01.07 @ 00:00:00

End Date: 2014.01.07 @ 00:00:00

Job Ticket #: DST #: 1

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

Printed: 2014.01.07 @ 17:55:28



# DRILL STEM TEST REPORT

RJM Company  
 P.O. Box 256  
 Claflin ,Kansas67525  
 ATTN: Wyatt Urban

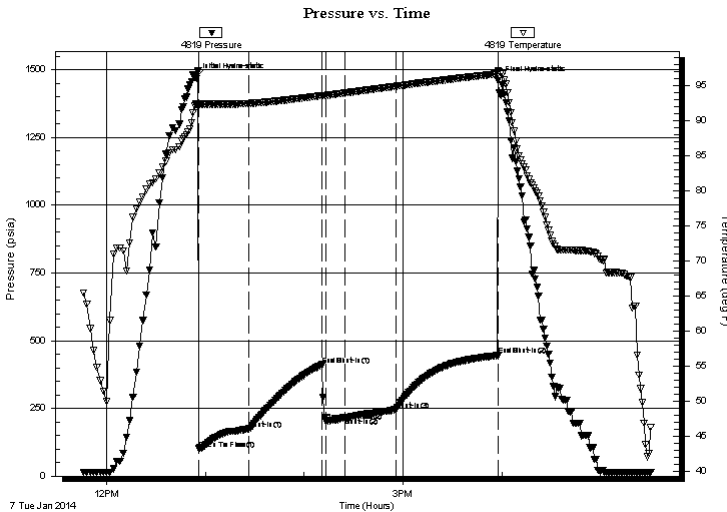
**15-15s-30w**  
**Concept Commercial #**  
 Job Ticket: **DST#: 1**  
 Test Start: 2014.01.07 @ 00:00:00

## GENERAL INFORMATION:

Formation: **Toronto**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 00:00:00  
 Time Test Ended: 00:00:00  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Gene Budig  
 Unit No: 3320-59  
 Interval: **2905.00 ft (KB) To 2974.00 ft (KB) (TVD)**  
 Reference Elevations: 1839.00 ft (KB)  
 Total Depth: 2974.00 ft (KB) (TVD)  
 1832.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 KB to GR/CF: 7.00 ft

**Serial #: 4819 Inside**  
 Press@RunDepth: 445.35 psia @ 2970.07 ft (KB) Capacity: 5000.00 psia  
 Start Date: 2014.01.07 End Date: 2014.01.07 Last Calib.: 2014.01.07  
 Start Time: 11:45:00 End Time: 17:30:30 Time On Btm: 2014.01.07 @ 12:54:00  
 Time Off Btm: 2014.01.07 @ 15:58:00

**TEST COMMENT:** 1st Opening 30 Minutes--Strong blow built to the bottom of a 5 gallon bucket in 1 1/2 minutes  
 1st Shut-In 45 Minutes-Good blow back  
 2nd Opening 45 Minutes -Strong blow bottom of a 5 gallon bucket in 1 1/2 minutes gas in 11 minutes  
 2nd Shut-In 60 Minutes- Fair blow back



## PRESSURE SUMMARY

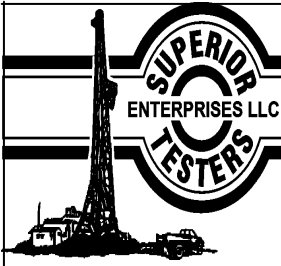
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1471.66	92.34	Initial Hydro-static
2	100.61	92.15	Open To Flow (1)
32	173.83	92.48	Shut-In(1)
77	411.44	93.63	End Shut-In(1)
80	202.22	93.64	Open To Flow (2)
91	215.97	93.98	Shut-In(2)
122	244.82	94.93	Shut-In(3)
184	445.35	96.71	End Shut-In(2)
184	1459.68	97.21	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	Gas to surface	0.00
40.00	slightly oi and gas cut mud	0.56
0.00	5%Gas 15%Oil 80%Mud	0.00
60.00	slightly oil and gas cut mud	0.84
0.00	20%Gas 20%Oil 60%Mud	0.00
60.00	Gassy oil cut mud	0.84

## Gas Rates

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



# DRILL STEM TEST REPORT

RJM Company  
 P.O. Box 256  
 Claflin ,Kansas67525  
 ATTN: Wyatt Urban

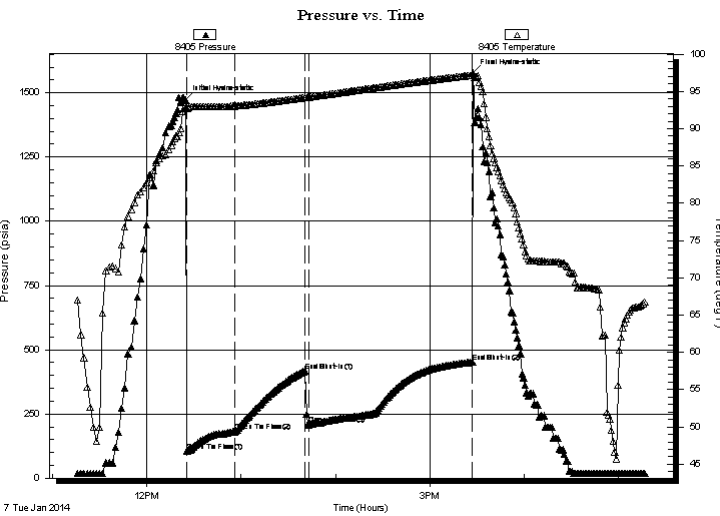
**15-15s-30w**  
**Concept Commercial #**  
 Job Ticket: **DST#: 1**  
 Test Start: 2014.01.07 @ 00:00:00

## GENERAL INFORMATION:

Formation: **Toronto**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 00:00:00  
 Time Test Ended: 00:00:00  
 Interval: **2905.00 ft (KB) To 2974.00 ft (KB) (TVD)**  
 Total Depth: 2974.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Gene Budig  
 Unit No: 3320-59  
 Reference Elevations: 1839.00 ft (KB)  
 1832.00 ft (CF)  
 KB to GR/CF: 7.00 ft

**Serial #: 8405 Inside**  
 Press@RunDepth: 452.04 psia @ 2971.07 ft (KB) Capacity: 5000.00 psia  
 Start Date: 2014.01.07 End Date: 2014.01.07 Last Calib.: 2014.01.07  
 Start Time: 11:15:00 End Time: 17:17:00 Time On Btm: 2014.01.07 @ 12:24:30  
 Time Off Btm: 2014.01.07 @ 15:27:30

**TEST COMMENT:** 1st Opening 30 Minutes--Strong blow built to the bottom of a 5 gallon bucket in 1 1/2 minutes  
 1st Shut-In 45 Minutes-Good blow back  
 2nd Opening 45 Minutes -Strong blow bottom of a 5 gallon bucket in 1 1/2 minutes gas in 11 minutes  
 2nd Shut-In 60 Minutes- Fair blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1472.24	92.81	Initial Hydro-static
2	106.53	92.70	Open To Flow (1)
32	180.84	93.03	Open To Flow (2)
77	417.80	94.18	End Shut-In(1)
79	208.22	94.23	Open To Flow (3)
183	452.04	97.18	End Shut-In(2)
183	1576.87	97.54	Final Hydro-static

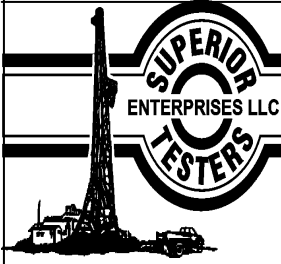
## Recovery

Length (ft)	Description	Volume (bbl)
0.00	Gas to surface	0.00
40.00	slightly oi and gas cut mud	0.56
0.00	5%Gas 15%Oil 80%Mud	0.00
60.00	slightly oil and gas cut mud	0.84
0.00	20%Gas 20%Oil 60%Mud	0.00
60.00	Gassy oil cut mud	0.84

## Gas Rates

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





# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

RJM Company

**15-15s-30w**

P.O. Box 256  
Clafin ,Kansas67525

**Concept Commercial #**

Job Ticket: **DST#: 1**

ATTN: Wyatt Urban

Test Start: 2014.01.07 @ 00:00:00

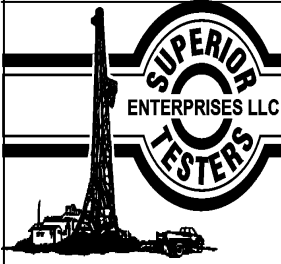
## Tool Information

Drill Pipe:	Length: 2887.00 ft	Diameter: 3.80 inches	Volume: 40.50 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.76 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:	68000.00 lb
			<u>Total Volume: 40.50 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial	42000.00 lb
Depth to Top Packer:	2905.00 ft			Final	lb
Depth to Bottom Packer:	ft				
Interval between Packers:	69.07 ft				
Tool Length:	97.07 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			2882.00	
Hydraulic Tool	5.00			2887.00	
Safety Joint	2.00			2889.00	
Jars	6.00			2895.00	
Packer	5.00			2900.00	28.00 Bottom Of Top Packer
Packer	5.00			2905.00	
Anchor	0.00			2905.00	
Change Over Sub	0.75			2905.75	
Drill Pipe	31.57			2937.32	
Change Over Sub	0.75			2938.07	
Anchor	31.00			2969.07	
Recorder	1.00	4819	Inside	2970.07	
Recorder	1.00	8405	Inside	2971.07	
Bullnose	3.00			2974.07	69.07 Bottom Packers & Anchor

**Total Tool Length: 97.07**



# DRILL STEM TEST REPORT

## FLUID SUMMARY

RJM Company

15-15s-30w

P.O. Box 256  
Clafin ,Kansas67525

Concept Commercial #

Job Ticket: **DST#: 1**

ATTN: Wyatt Urban

Test Start: 2014.01.07 @ 00:00:00

### 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: 49.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.00 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 4000.00 ppm			
Filter Cake: 1.00 inches			

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	Gas to surface	0.000
40.00	slightly oi and gas cut mud	0.561
0.00	5%Gas 15%Oil 80%Mud	0.000
60.00	slightly oil and gas cut mud	0.842
0.00	20%Gas 20%Oil 60%Mud	0.000
60.00	Gassy oil cut mud	0.842
0.00	50%Gas 30%Oil 20%Mud	0.000
120.00	Gassy Slightly mud cut oil	1.683
0.00	60%Gas 35%Oil 5%Mud	0.000
240.00	Slightly mud cut gassy oil	3.367
0.00	35%Gas 63%Oil 2%Mud	0.000

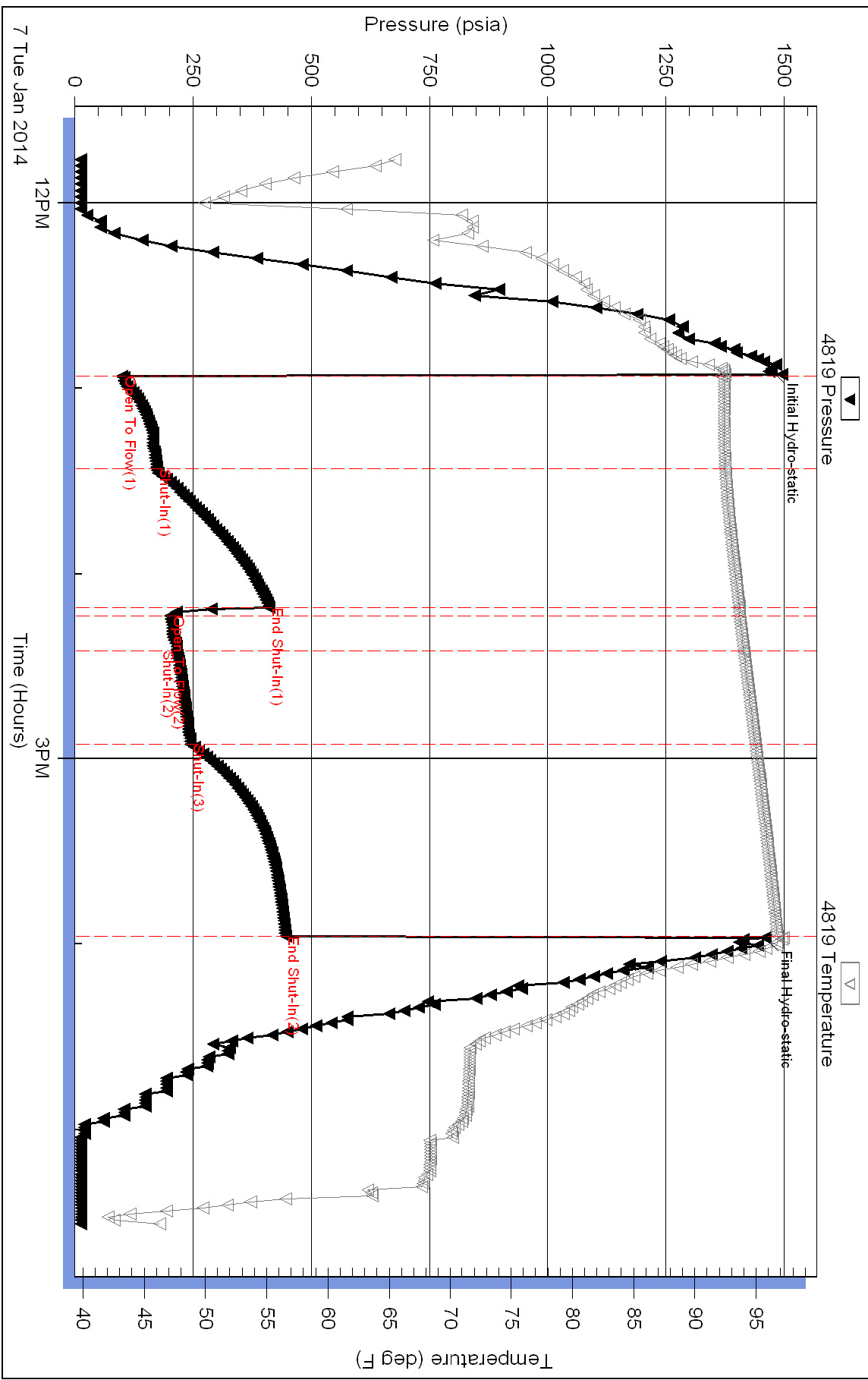
Total Length: 520.00 ft      Total Volume: 7.295 bbl

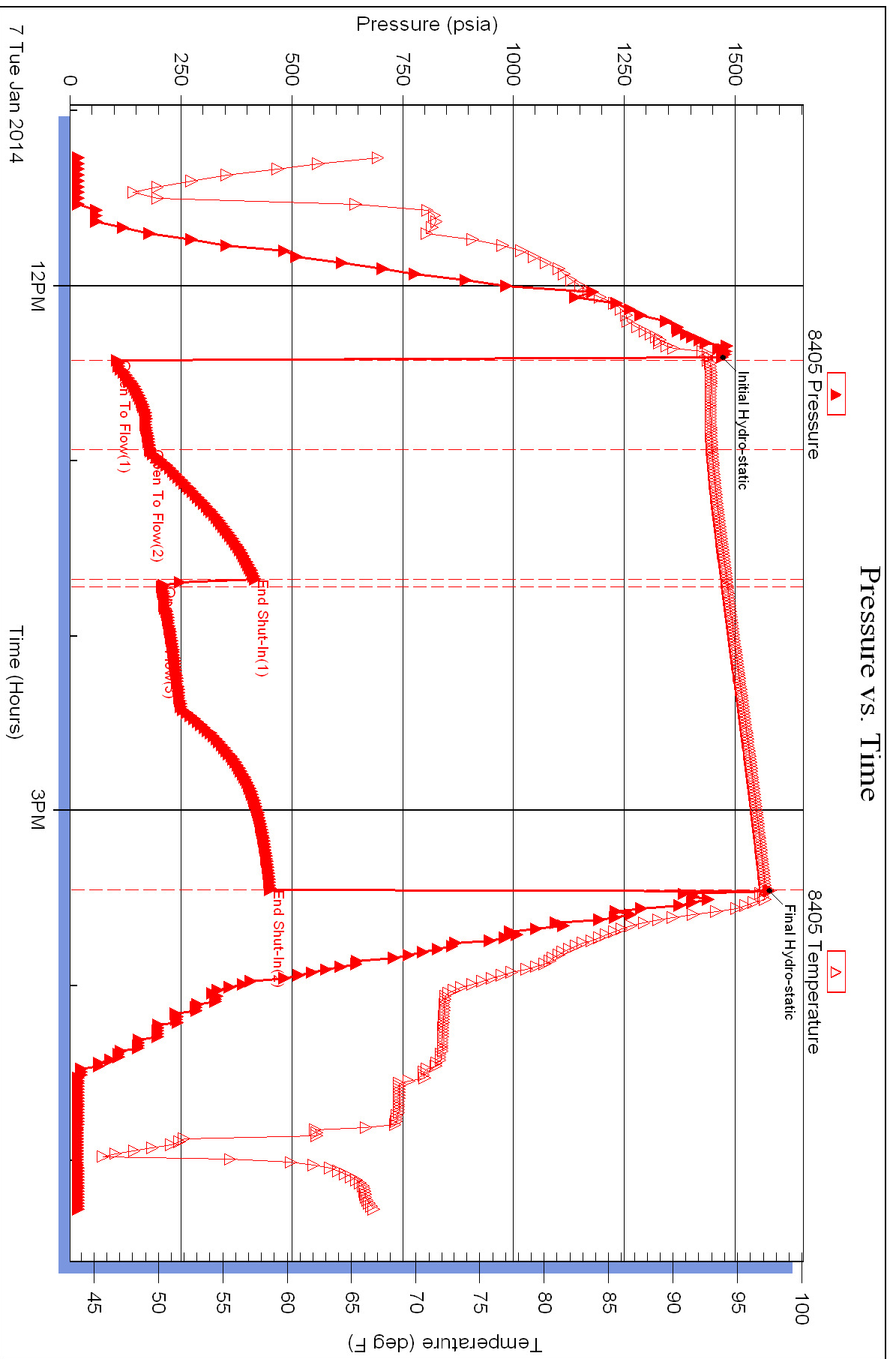
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

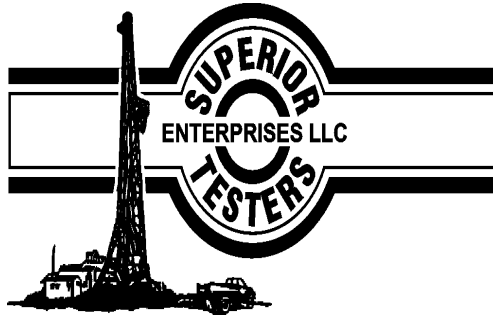
Laboratory Name:      Laboratory Location:

Recovery Comments:

### Pressure vs. Time







## 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: 2014.01.08 @ 00:00:00

End Date: 2014.01.08 @ 00:00:00

Job Ticket #: 17110                      DST #: 2

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

Printed: 2014.01.08 @ 13:09:49

RJM Company

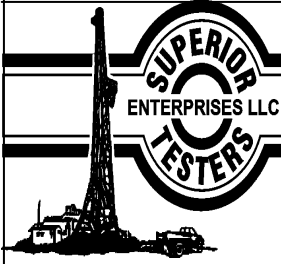
Russell 15-15s-30w

Concept Commercial #

DST # 2

Lagrsing

2014.01.08



# DRILL STEM TEST REPORT

RJM Company  
 P.O. Box 256  
 Claflin, Kansas 67525  
 ATTN: Wyatt Urban

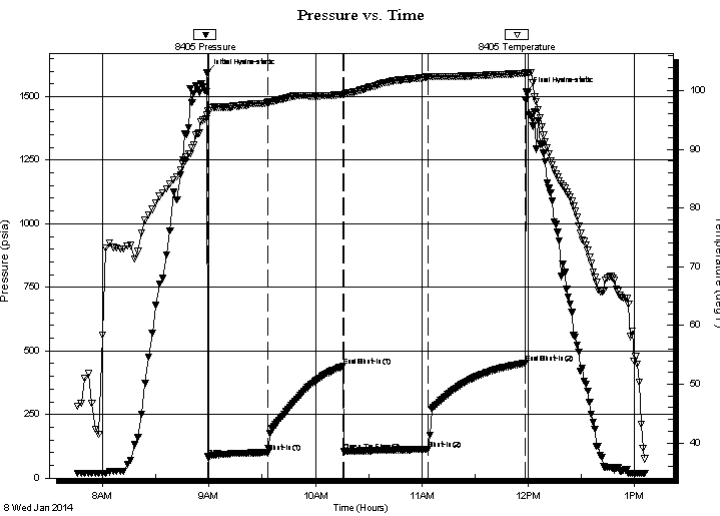
**Russell 15-15s-30w**  
**Concept Commercial #**  
 Job Ticket: 17110 **DST#: 2**  
 Test Start: 2014.01.08 @ 00:00:00

## GENERAL INFORMATION:

Formation: **Laqsing**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 00:00:00  
 Time Test Ended: 00:00:00  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Gene Budig  
 Unit No: 3320-66  
 Interval: **3030.00 ft (KB) To 3120.00 ft (KB) (TVD)**  
 Reference Elevations: 1839.00 ft (KB)  
 Total Depth: 3120.00 ft (KB) (TVD) 1832.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 7.00 ft

**Serial #: 8405 Inside**  
 Press@RunDepth: 452.36 psia @ 3116.70 ft (KB) Capacity: 5000.00 psia  
 Start Date: 2014.01.08 End Date: 2014.01.08 Last Calib.: 2014.01.08  
 Start Time: 07:45:00 End Time: 13:06:00 Time On Btm: 2014.01.08 @ 08:59:00  
 Time Off Btm: 2014.01.08 @ 11:59:00

**TEST COMMENT:** 1st Opening 30 Minutes-Weak building blow building built to 7 inches into the water  
 1st Shut-in 45 Minutes-No low back  
 2nd Opening 45 Minutes-Weak blow built to 2 inches decreased and died in 35 minutes  
 2nd Shut-In 60 Minutes No Blow back



## PRESSURE SUMMARY

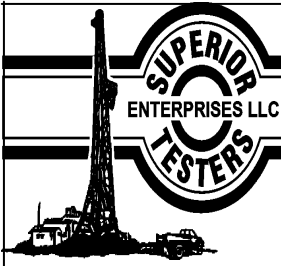
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1592.17	95.93	Initial Hydro-static
1	83.96	96.51	Open To Flow (1)
34	100.28	98.01	Shut-In(1)
77	439.85	99.35	End Shut-In(1)
77	105.23	99.33	Open To Flow (2)
125	113.55	102.34	Shut-In(2)
179	452.36	102.96	End Shut-In(2)
180	1518.51	103.04	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)

## Gas Rates

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



# DRILL STEM TEST REPORT

RJM Company  
 P.O. Box 256  
 Claflin, Kansas 67525  
 ATTN: Wyatt Urban

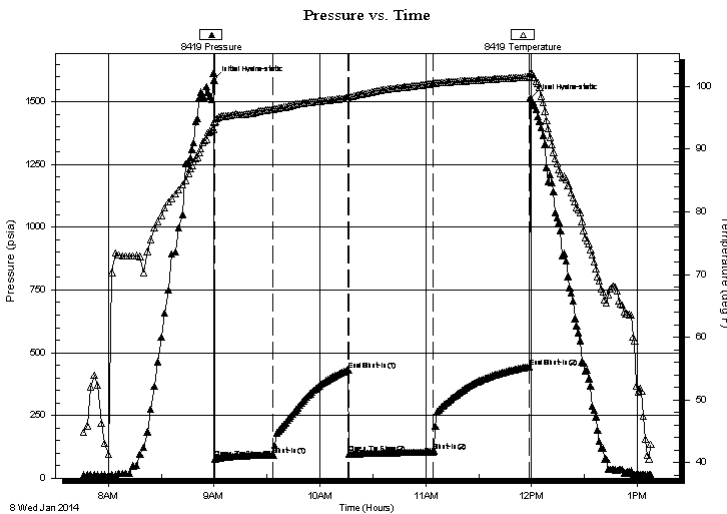
**Russell 15-15s-30w**  
**Concept Commercial #**  
 Job Ticket: 17110 **DST#: 2**  
 Test Start: 2014.01.08 @ 00:00:00

## GENERAL INFORMATION:

Formation: **Laqnsing**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 00:00:00  
 Time Test Ended: 00:00:00  
 Interval: **3030.00 ft (KB) To 3120.00 ft (KB) (TVD)**  
 Total Depth: 3120.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Gene Budig  
 Unit No: 3320-66  
 Reference Elevations: 1839.00 ft (KB)  
 1832.00 ft (CF)  
 KB to GR/CF: 7.00 ft

**Serial #: 8419 Inside**  
 Press@RunDepth: 444.08 psia @ 3115.70 ft (KB) Capacity: 5000.00 psia  
 Start Date: 2014.01.08 End Date: 2014.01.08 Last Calib.: 2014.01.08  
 Start Time: 07:45:00 End Time: 13:07:30 Time On Btm: 2014.01.08 @ 09:00:00  
 Time Off Btm: 2014.01.08 @ 11:59:00

**TEST COMMENT:** 1st Opening 30 Minutes-Weak building blow building built to 7 inches into the water  
 1st Shut-in 45 Minutes-No low back  
 2nd Opening 45 Minutes-Weak blow built to 2 inches decreased and died in 35 minutes  
 2nd Shut-In 60 Minutes No Blow back



## PRESSURE SUMMARY

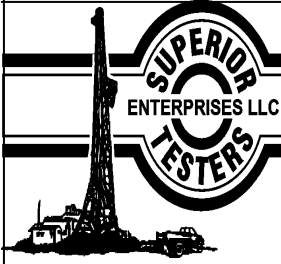
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1586.73	94.29	Initial Hydro-static
1	77.45	94.44	Open To Flow (1)
33	92.79	96.38	Shut-In(1)
76	431.22	98.18	End Shut-In(1)
77	97.03	98.07	Open To Flow (2)
124	105.20	100.48	Shut-In(2)
179	444.08	101.54	End Shut-In(2)
179	1513.80	102.01	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)

## Gas Rates

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



# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

RJM Company

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

P.O. Box 256  
Clafin ,Kansas67525

**Concept Commercial #**

Job Ticket: 17110

**DST#:2**

ATTN: Wyatt Urban

Test Start: 2014.01.08 @ 00:00:00

## Tool Information

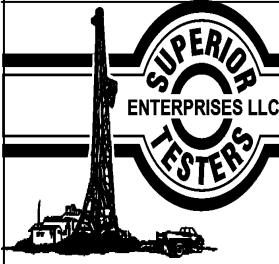
Drill Pipe:	Length: 3007.00 ft	Diameter: 3.80 inches	Volume: 42.18 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.86 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	60000.00 lb
			<u>Total Volume: 42.18 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial	45000.00 lb
Depth to Top Packer:	3030.00 ft			Final	45000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	89.70 ft				
Tool Length:	117.70 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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Hydrolic Tool	5.00			3007.00	
Shut-In Tool	5.00			3012.00	
Safety Joint	2.00			3014.00	
Jars	6.00			3020.00	
Packer	5.00			3025.00	28.00 Bottom Of Top Packer
Packer	5.00			3030.00	
Anchor	5.00			3035.00	
Change Over Sub	0.75			3035.75	
Drill Pipe	62.20			3097.95	
Change Over Sub	0.75			3098.70	
Anchor	16.00			3114.70	
Recorder	1.00	8419	Inside	3115.70	
Recorder	1.00	8405	Inside	3116.70	
Bullnose	3.00			3119.70	89.70 Bottom Packers & Anchor

**Total Tool Length: 117.70**





# DRILL STEM TEST REPORT

## FLUID SUMMARY

RJM Company

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

P.O. Box 256  
Clafin ,Kansas67525

**Concept Commercial #**

Job Ticket: 17110

**DST#:2**

ATTN: Wyatt Urban

Test Start: 2014.01.08 @ 00:00:00

### 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: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.80 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psia

Salinity: 7000.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl

Total Length:                      ft      Total Volume:                      bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

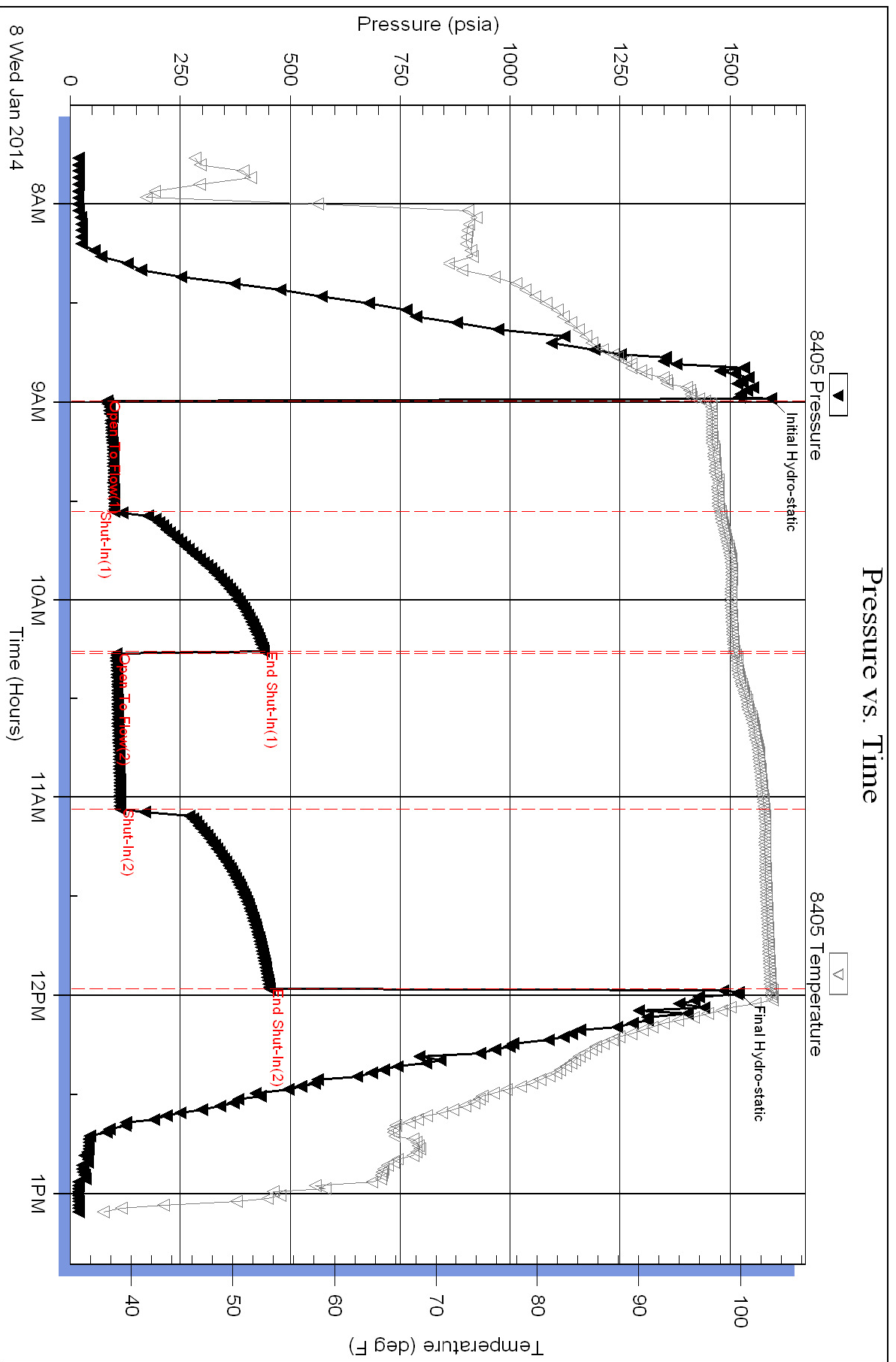
Serial #:

Laboratory Name:

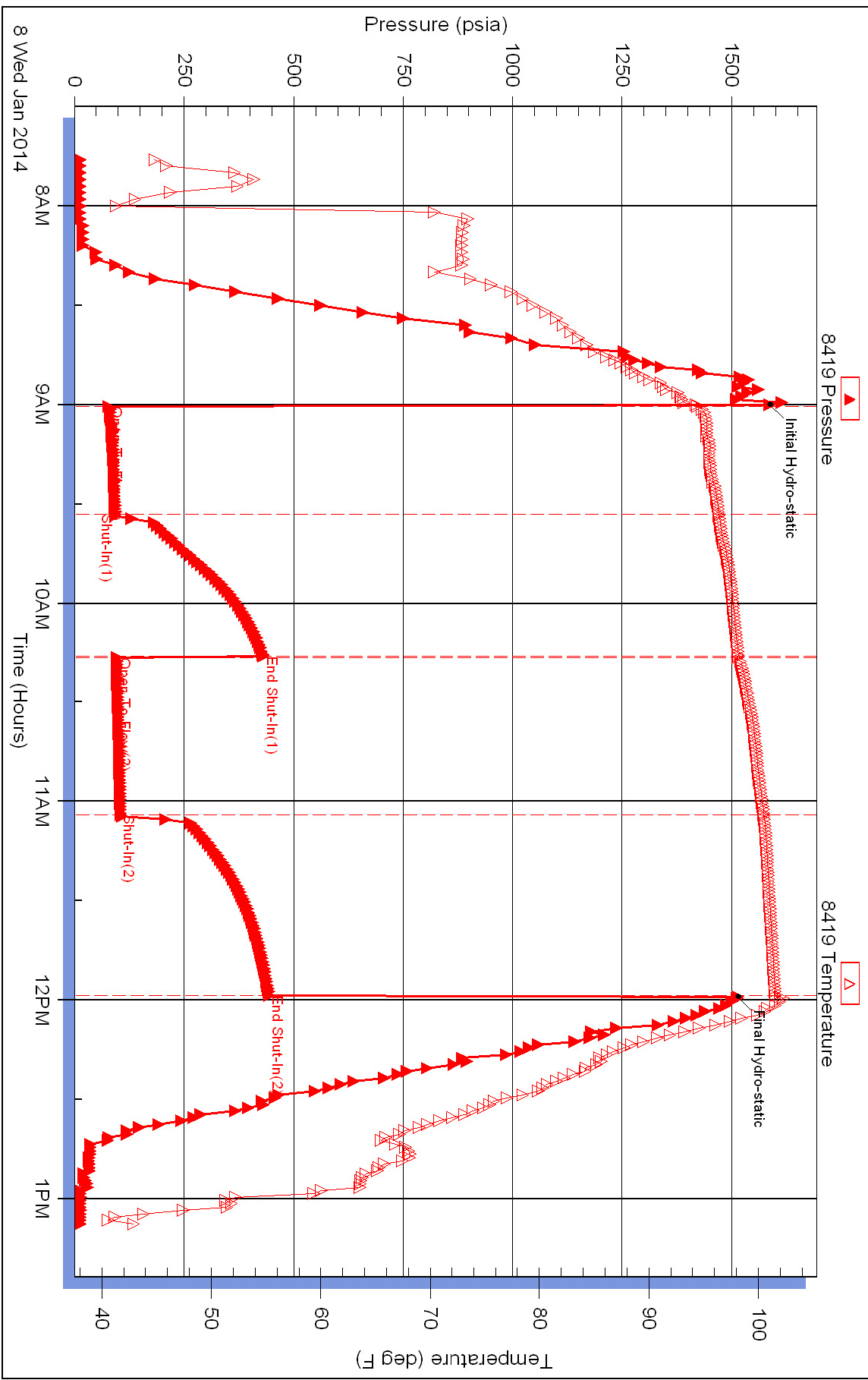
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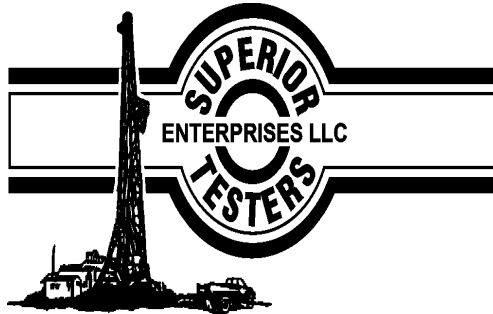
Recovery Comments:

# Pressure vs. Time



# Pressure vs. Time





## 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

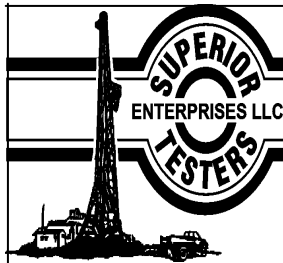
Russell 15-15s-30w

Concept Commercial #

DST # 3

Arbuckle

2014.01.09



# DRILL STEM TEST REPORT

RJM Company  
 P.O. Box 256  
 Claflin ,Kansas67525  
 ATTN: Wyatt Urban

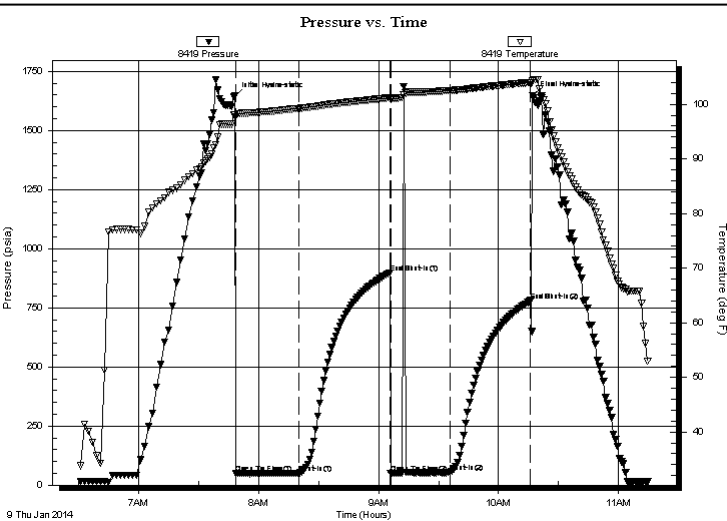
**Russell 15-15s-30w**  
**Concept Commercial #**  
 Job Ticket: 17111      **DST#: 3**  
 Test Start: 2014.01.09 @ 06:31:00

### GENERAL INFORMATION:

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

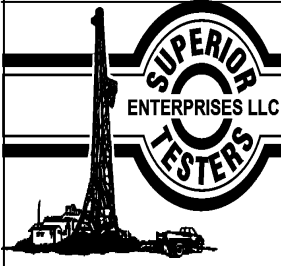
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1644.58	98.10	Initial Hydro-static
1	50.49	97.72	Open To Flow (1)
32	50.02	99.25	Shut-In(1)
78	897.26	101.20	End Shut-In(1)
78	50.02	100.91	Open To Flow (2)
108	53.11	102.50	Shut-In(2)
148	780.09	104.01	End Shut-In(2)
149	1647.06	104.33	Final Hydro-static

### 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)



# DRILL STEM TEST REPORT

RJM Company  
 P.O. Box 256  
 Claflin ,Kansas67525  
 ATTN: Wyatt Urban

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

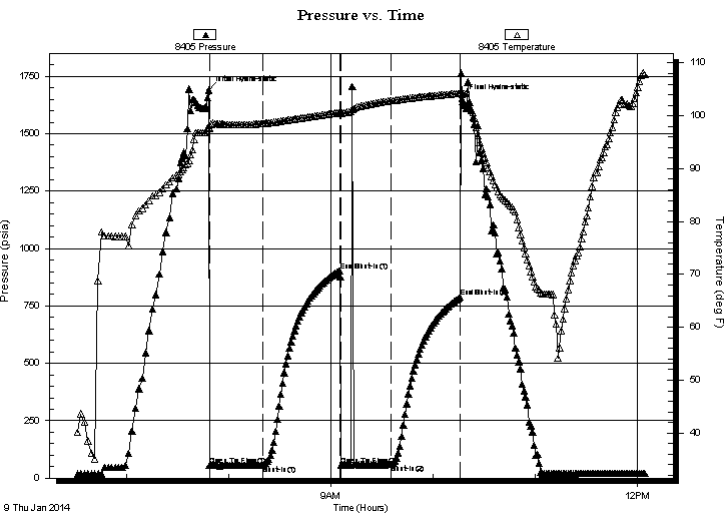
## GENERAL INFORMATION:

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

## 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

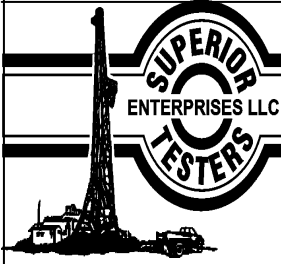
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1690.03	97.87	Initial Hydro-static
1	56.50	97.68	Open To Flow (1)
32	56.74	98.55	Shut-In(1)
77	903.16	100.60	End Shut-In(1)
78	56.18	100.50	Open To Flow (2)
108	59.50	102.86	Shut-In(2)
148	788.35	104.27	End Shut-In(2)
149	1653.57	104.12	Final Hydro-static

## 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**

P.O. Box 256  
Clafin ,Kansas67525

**Concept Commercial #**

Job Ticket: 17111

**DST#: 3**

ATTN: Wyatt Urban

Test Start: 2014.01.09 @ 06:31:00

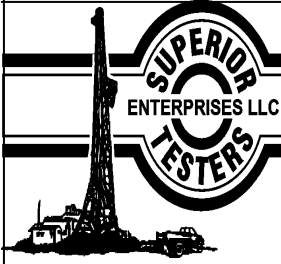
## Tool Information

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

RJM Company

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

P.O. Box 256  
Claflin ,Kansas67525

**Concept Commercial #**

Job Ticket: 17111

**DST#: 3**

ATTN: Wyatt Urban

Test Start: 2014.01.09 @ 06:31:00

### Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 10.00 lb/gal

Viscosity: 55.00 sec/qt

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

Resistivity: ohm.m

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psia

Oil API:

Water Salinity: ppm

deg API

### 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

