



**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
- Conv. to GSW
- Plug Back: \_\_\_\_\_ Plug Back Total Depth \_\_\_\_\_
- 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

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

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

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

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

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

Total 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**

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



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

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

**INSTRUCTIONS:** Show important tops and base 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. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

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 Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i>  List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
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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
_____ Perforate _____ Protect Casing _____ Plug Back TD _____ Plug Off Zone				

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:  Yes  No

Date of First, Resumed Production, SWD or ENHR. \_\_\_\_\_ Producing Method:  Flowing  Pumping  Gas Lift  Other *(Explain)* \_\_\_\_\_

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
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DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <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>	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Carrie Exploration & Development, a General Partnership
Well Name	Ricker C-1
Doc ID	1149662

Tops

Name	Top	Datum
ANHYDRITE	483	+1356
TOPEKA	2637	-798
HEEBNER SHALE	2912	-1075
DOUGLAS SHALE	2944	-1105
BROWN LIME	3047	-1208
LKC	3072	-1233
BKC	3329	-1490
SIMPSON SHALE	3361	-1522
ARBUCKLE	3386	-1547
LTD	3450	-1611



## DRILL STEM TEST REPORT

Prepared For: **Carrie Exploration & Development**

210 w 22nd Street Hays Ks 67601

ATTN: Jeff Lawler

### **Ricker #C-1**

### **15-20s-10w Rice**

Start Date: 2013.06.09 @ 06:40:00

End Date: 2013.06.09 @ 11:54:00

Job Ticket #: 17467                      DST #: 1

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

Printed: 2013.06.09 @ 12:25:28



# DRILL STEM TEST REPORT

Carrie Exploration & Development  
 210 w 22nd Street Hays Ks 67601  
 ATTN: Jeff Lawler

**15-20s-10w Rice**  
**Ricker #C-1**  
 Job Ticket: 17467 **DST#: 1**  
 Test Start: 2013.06.09 @ 06:40:00

## GENERAL INFORMATION:

Formation: **Tarkio Sand**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 08:24:00 Tester: Jared Scheck  
 Time Test Ended: 11:54:00 Unit No: 3320-50-Great Bend  
 Interval: **2318.00 ft (KB) To 2379.00 ft (KB) (TVD)** Reference Elevations: 1837.00 ft (KB)  
 Total Depth: 2379.00 ft (KB) (TVD) 1829.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

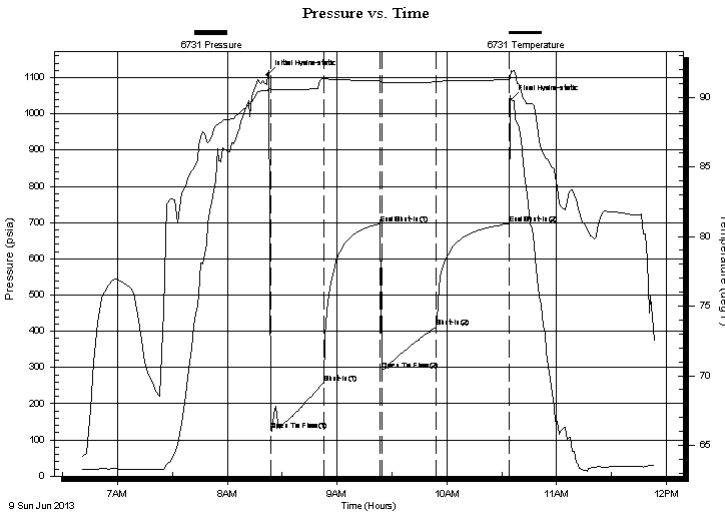
## Serial #: 6731

Inside

Press@RunDepth: 410.68 psia @ 2375.00 ft (KB) Capacity: 5000.00 psia  
 Start Date: 2013.06.09 End Date: 2013.06.09 Last Calib.: 2013.06.09  
 Start Time: 06:40:00 End Time: 11:54:00 Time On Btm: 2013.06.09 @ 08:22:00  
 Time Off Btm: 2013.06.09 @ 10:35:00

**TEST COMMENT:** 1st Opening 30 Minutes-Strong blow built bottom of bucket in 1 minute  
 1st Shut-in 30 Minutes-No blow back  
 2nd Opening 30 Minutes-Strong blow built bottom of bucket in 1 minute  
 2nd Shut-in 30 Minutes-Very weak blow back 3/4 inch

## PRESSURE SUMMARY



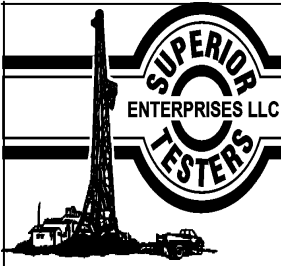
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1108.36	90.52	Initial Hydro-static
2	126.61	90.55	Open To Flow (1)
31	256.89	91.35	Shut-In(1)
62	697.24	91.20	End Shut-In(1)
63	293.68	91.09	Open To Flow (2)
92	410.68	91.11	Shut-In(2)
132	697.05	91.26	End Shut-In(2)
133	1039.94	91.93	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	gas in pipe	0.00
240.00	slightly oil gas cut w water mud	3.37
0.00	2%oil 13%gas 30%Water55%mud	0.00
780.00	water	10.94
0.00	chlorides 100,000 resistivity .6@70 deg	0.00

## Gas Rates

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



# DRILL STEM TEST REPORT

Carrie Exploration & Development  
 210 w 22nd Street Hays Ks 67601  
 ATTN: Jeff Lawler

**15-20s-10w Rice**  
**Ricker #C-1**  
 Job Ticket: 17467 **DST#: 1**  
 Test Start: 2013.06.09 @ 06:40:00

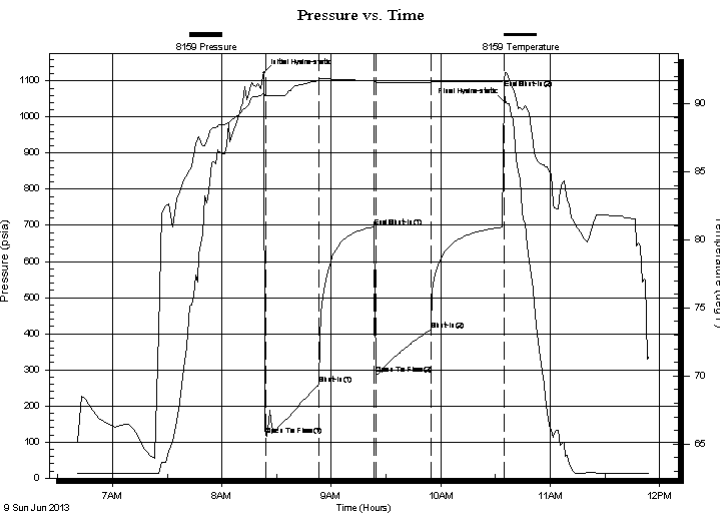
## GENERAL INFORMATION:

Formation: **Tarkio Sand**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 08:24:00 Tester: Jared Scheck  
 Time Test Ended: 11:54:00 Unit No: 3320-50-Great Bend  
 Interval: **2318.00 ft (KB) To 2379.00 ft (KB) (TVD)** Reference Elevations: 1837.00 ft (KB)  
 Total Depth: 2379.00 ft (KB) (TVD) 1829.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

## Serial #: 8159

Press@RunDepth: 1079.36 psia @ ft (KB) Capacity: 5000.00 psia  
 Start Date: 2013.06.09 End Date: 2013.06.09 Last Calib.: 2013.06.09  
 Start Time: 06:40:00 End Time: 11:54:30 Time On Btm: 2013.06.09 @ 08:23:00  
 Time Off Btm: 2013.06.09 @ 10:35:30

**TEST COMMENT:** 1st Opening 30 Minutes-Strong blow built bottom of bucket in 1 minute  
 1st Shut-in 30 Minutes-No blow back  
 2nd Opening 30 Minutes-Strong blow built bottom of bucket in 1 minute  
 2nd SHut-in 30 Minutes-Very weak blow back 3/4 inch



## PRESSURE SUMMARY

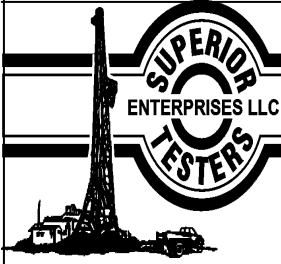
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1121.69	90.84	Initial Hydro-static
1	119.29	90.62	Open To Flow (1)
30	259.79	91.79	Shut-In(1)
61	696.74	91.69	End Shut-In(1)
62	286.78	91.56	Open To Flow (2)
92	411.23	91.56	Shut-In(2)
132	1079.36	91.78	End Shut-In(2)
133	1040.15	92.29	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	gas in pipe	0.00
240.00	slightly oil gas cut w water mud	3.37
0.00	2%oil 13%gas 30%Water55%mud	0.00
780.00	water	10.94
0.00	chlorides 100,000 resistivity .6@70 deg	0.00

## Gas Rates

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



# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Carrie Exploration & Development  
 210 w 22nd Street Hays Ks 67601  
 ATTN: Jeff Lawler

**15-20s-10w Rice**  
**Ricker #C-1**  
 Job Ticket: 17467      **DST#: 1**  
 Test Start: 2013.06.09 @ 06:40:00

**Tool Information**

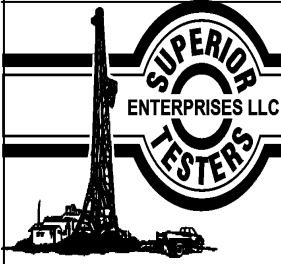
Drill Pipe:	Length: 2304.00 ft	Diameter: 3.80 inches	Volume: 32.32 bbl	Tool Weight: 1000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 40000.00 lb
			<u>Total Volume: 32.32 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 34000.00 lb
Depth to Top Packer:	2318.00 ft			Final 38000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	61.00 ft			
Tool Length:	81.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

<b>Tool Description</b>	<b>Length (ft)</b>	<b>Serial No.</b>	<b>Position</b>	<b>Depth (ft)</b>	<b>Accum. Lengths</b>
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Shut-In Tool	5.00			2303.00	
Hydraulic Tool	5.00			2308.00	
Packer	5.00			2313.00	20.00      Bottom Of Top Packer
Packer	5.00			2318.00	
Anchor	0.00			2318.00	
Change Over Sub	0.75			2318.75	
Drill Pipe	30.50			2349.25	
Change Over Sub	0.75			2350.00	
Anchor	24.00			2374.00	
Recorder	1.00	6731	Inside	2375.00	
Recorder	1.00		Outside	2376.00	
Bullnose	3.00			2379.00	61.00      Bottom Packers & Anchor

**Total Tool Length: 81.00**



# DRILL STEM TEST REPORT

## FLUID SUMMARY

Carrie Exploration & Development  
 210 w 22nd Street Hays Ks 67601  
 ATTN: Jeff Lawler

**15-20s-10w Rice**  
**Ricker #C-1**  
 Job Ticket: 17467      **DST#: 1**  
 Test Start: 2013.06.09 @ 06:40:00

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

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	gas in pipe	0.000
240.00	slightly oil gas cut w ater mud	3.367
0.00	2%oil 13%gas 30%Water55%mud	0.000
780.00	w ater	10.941
0.00	chlorides 100,000 resistivity .6@70 deg	0.000

Total Length: 1020.00 ft      Total Volume: 14.308 bbl

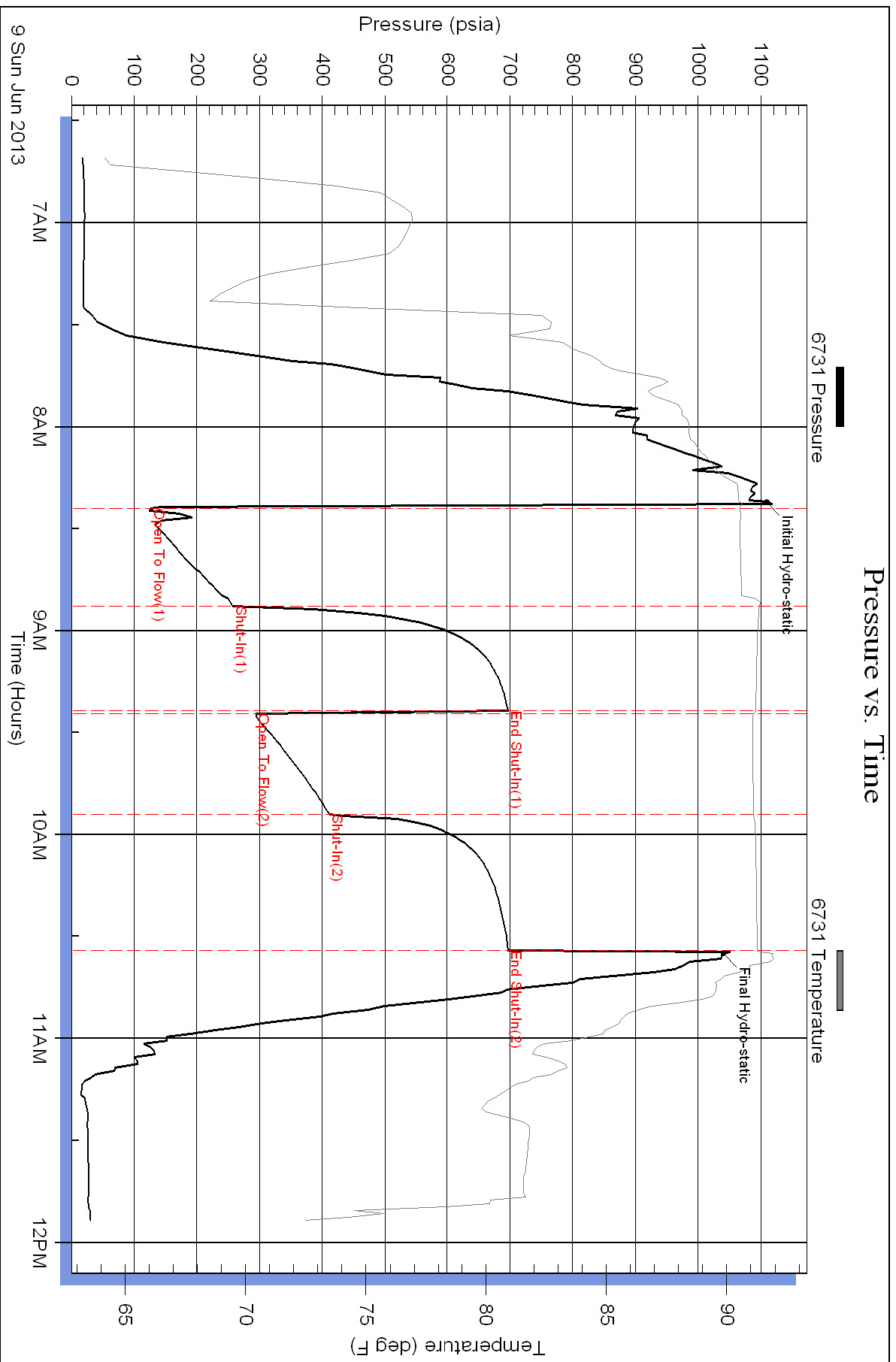
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

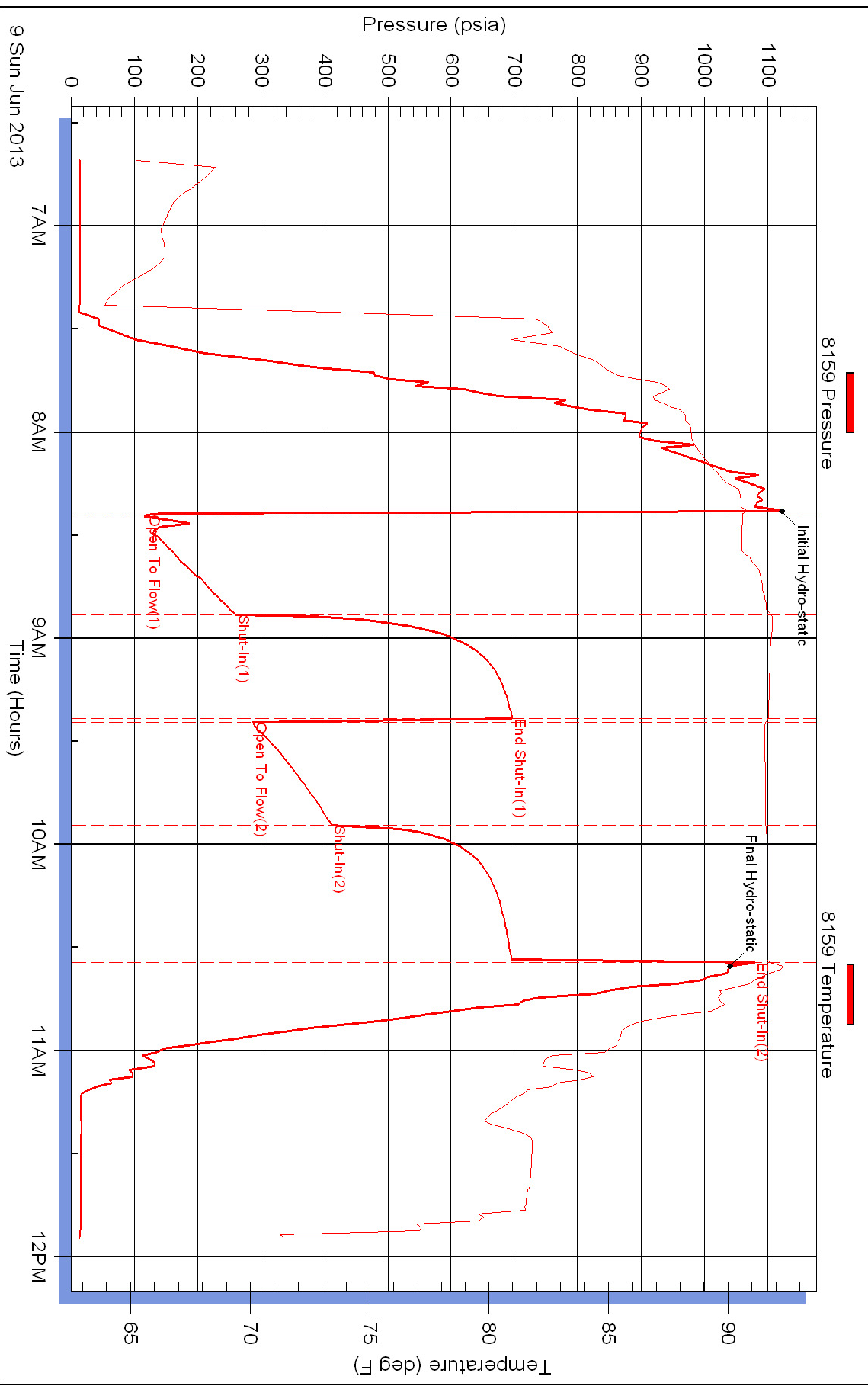
Recovery Comments: chlorides 100,000 resistivity .6 @ 70 degrees



### Pressure vs. Time



### Pressure vs. Time





## DRILL STEM TEST REPORT

Prepared For: **Carrie Exploration & Development**

210 w 22nd Street Hays Ks 67601

ATTN: Jeff Lawler

### **Ricker #C-1**

#### **15-20s-10w Rice**

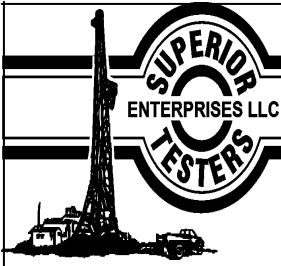
Start Date: 2013.06.10 @ 22:28:00

End Date: 2013.06.11 @ 03:29:30

Job Ticket #: 17468                      DST #: 2

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

Printed: 2013.06.11 @ 03:45:31



# DRILL STEM TEST REPORT

Carrie Exploration & Development  
 210 w 22nd Street Hays Ks 67601  
 ATTN: Jeff Lawler

**15-20s-10w Rice**  
**Ricker #C-1**  
 Job Ticket: 17468 **DST#:2**  
 Test Start: 2013.06.10 @ 22:28:00

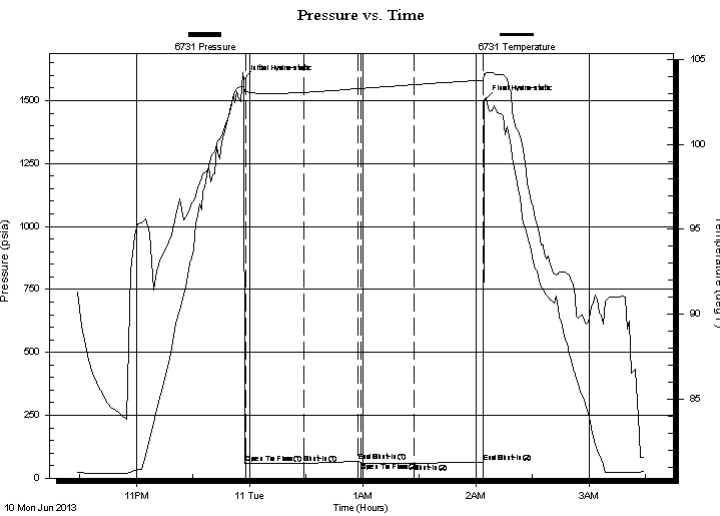
## GENERAL INFORMATION:

Formation: **Lansing G**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 23:58:00  
 Time Test Ended: 03:29:30  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Jared Scheck  
 Unit No: 3320-Great Bend-50  
 Interval: **3105.00 ft (KB) To 3159.00 ft (KB) (TVD)**  
 Reference Elevations: 1837.00 ft (KB)  
 Total Depth: 3159.00 ft (KB) (TVD) 1829.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

## Serial #: 6731

Press@RunDepth: 59.96 psia @ ft (KB) Capacity: 5000.00 psia  
 Start Date: 2013.06.10 End Date: 2013.06.11 Last Calib.: 2013.06.11  
 Start Time: 22:28:00 End Time: 03:29:30 Time On Btm: 2013.06.10 @ 23:57:00  
 Time Off Btm: 2013.06.11 @ 02:05:00

**TEST COMMENT:** 1st Opening 30 Minutes-Weak blow built 1/4 inch into bucket w ater in 30 Minutes  
 1st Shut-in 30 Minutes-No blow back  
 2nd Opening 30 Minutes-Weak surface blow built 1/4 inch into bucket w ater  
 2nd Shut-in 30 Minutes-No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1585.56	103.45	Initial Hydro-static
1	59.49	103.11	Open To Flow (1)
32	58.91	103.07	Shut-In(1)
61	67.16	103.29	End Shut-In(1)
62	60.92	103.30	Open To Flow (2)
90	59.96	103.52	Shut-In(2)
127	63.89	103.79	End Shut-In(2)
128	1504.08	104.14	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud	0.07

## Gas Rates

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



# DRILL STEM TEST REPORT

Carrie Exploration & Development  
 210 w 22nd Street Hays Ks 67601  
 ATTN: Jeff Lawler

**15-20s-10w Rice**  
**Ricker #C-1**  
 Job Ticket: 17468 **DST#:2**  
 Test Start: 2013.06.10 @ 22:28:00

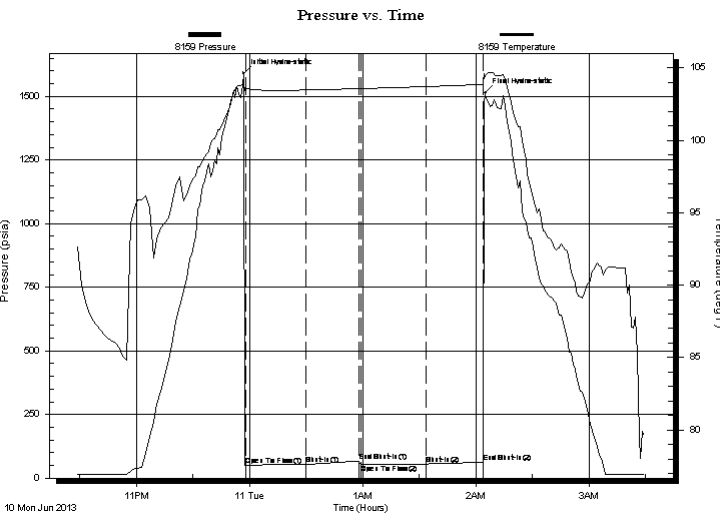
## GENERAL INFORMATION:

Formation: **Lansing G**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 23:58:00 Tester: Jared Scheck  
 Time Test Ended: 03:29:30 Unit No: 3320-Great Bend-50  
 Interval: **3105.00 ft (KB) To 3159.00 ft (KB) (TVD)** Reference Elevations: 1837.00 ft (KB)  
 Total Depth: 3159.00 ft (KB) (TVD) 1829.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

## Serial #: 8159

Press@RunDepth: 62.49 psia @ ft (KB) Capacity: 5000.00 psia  
 Start Date: 2013.06.10 End Date: 2013.06.11 Last Calib.: 2013.06.11  
 Start Time: 22:28:00 End Time: 03:29:30 Time On Btm: 2013.06.10 @ 23:57:00  
 Time Off Btm: 2013.06.11 @ 02:05:00

**TEST COMMENT:** 1st Opening 30 Minutes-Weak blow built 1/4 inch into bucket w ater in 30 Minutes  
 1st Shut-in 30 Minutes-No blow back  
 2nd Opening 30 Minutes-Weak surface blow built 1/4 inch into bucket w ater  
 2nd Shut-in 30 Minutes-No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1591.20	104.01	Initial Hydro-static
1	51.82	103.64	Open To Flow (1)
33	53.84	103.48	Shut-In(1)
61	66.90	103.57	End Shut-In(1)
62	54.80	103.57	Open To Flow (2)
97	55.98	103.71	Shut-In(2)
127	62.49	103.86	End Shut-In(2)
128	1513.30	104.43	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud	0.07

## Gas Rates

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



# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Carrie Exploration & Development  
 210 w 22nd Street Hays Ks 67601  
 ATTN: Jeff Lawler

**15-20s-10w Rice**  
**Ricker #C-1**  
 Job Ticket: 17468      **DST#:2**  
 Test Start: 2013.06.10 @ 22:28:00

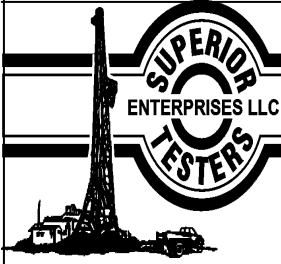
**Tool Information**

Drill Pipe:	Length: 3112.00 ft	Diameter: 3.80 inches	Volume: 43.65 bbl	Tool Weight:	1000.00 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:	50000.00 lb
			<u>Total Volume: 43.65 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial	38000.00 lb
Depth to Top Packer:	3105.00 ft			Final	38000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	54.00 ft				
Tool Length:	74.00 ft				
Number of Packers:	2	Diameter: 675.00 inches			
Tool Comments:					

<b>Tool Description</b>	<b>Length (ft)</b>	<b>Serial No.</b>	<b>Position</b>	<b>Depth (ft)</b>	<b>Accum. Lengths</b>
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Shut-In Tool	5.00			3090.00	
Hydraulic Tool	5.00			3095.00	
Packer	5.00			3100.00	20.00      Bottom Of Top Packer
Packer	5.00			3105.00	
Anchor	0.00			3105.00	
Change Over Sub	0.75			3105.75	
Drill Pipe	31.50			3137.25	
Change Over Sub	0.75			3138.00	
Anchor	16.00			3154.00	
Recorder	1.00		Inside	3155.00	
Recorder	1.00		Outside	3156.00	
Bullnose	3.00			3159.00	54.00      Bottom Packers & Anchor

**Total Tool Length: 74.00**



# DRILL STEM TEST REPORT

## FLUID SUMMARY

Carrie Exploration & Development

**15-20s-10w Rice**

210 w 22nd Street Hays Ks 67601

**Ricker #C-1**

Job Ticket: 17468

**DST#:2**

ATTN: Jeff Lawler

Test Start: 2013.06.10 @ 22:28:00

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: lb/gal

Cushion Length: ft

Water Salinity: ppm

Viscosity: sec/qt

Cushion Volume: bbl

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

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psia

Salinity: ppm

Filter Cake: inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud	0.070

Total Length: 5.00 ft      Total Volume: 0.070 bbl

Num Fluid Samples: 0

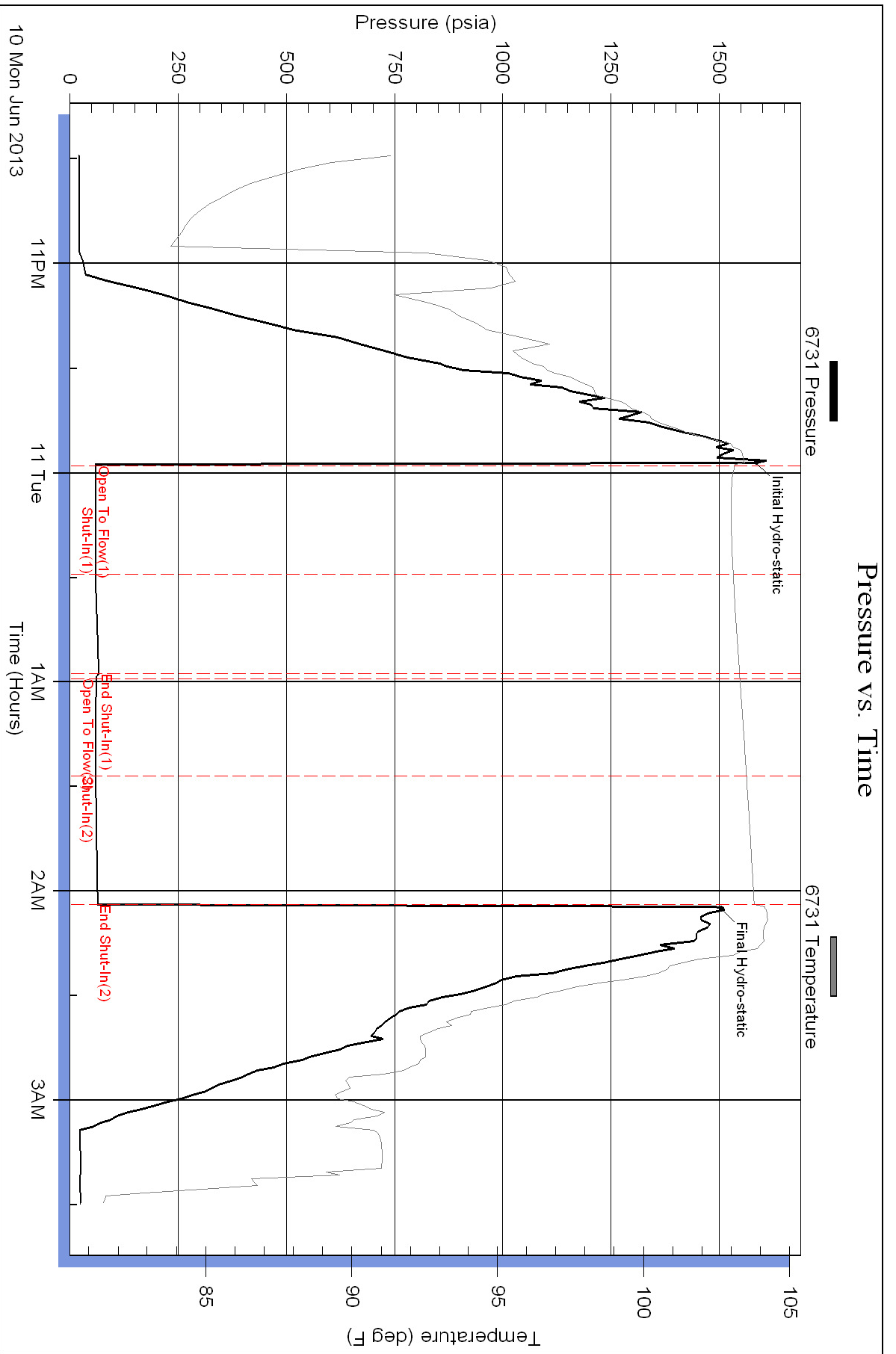
Num Gas Bombs: 0

Serial #:

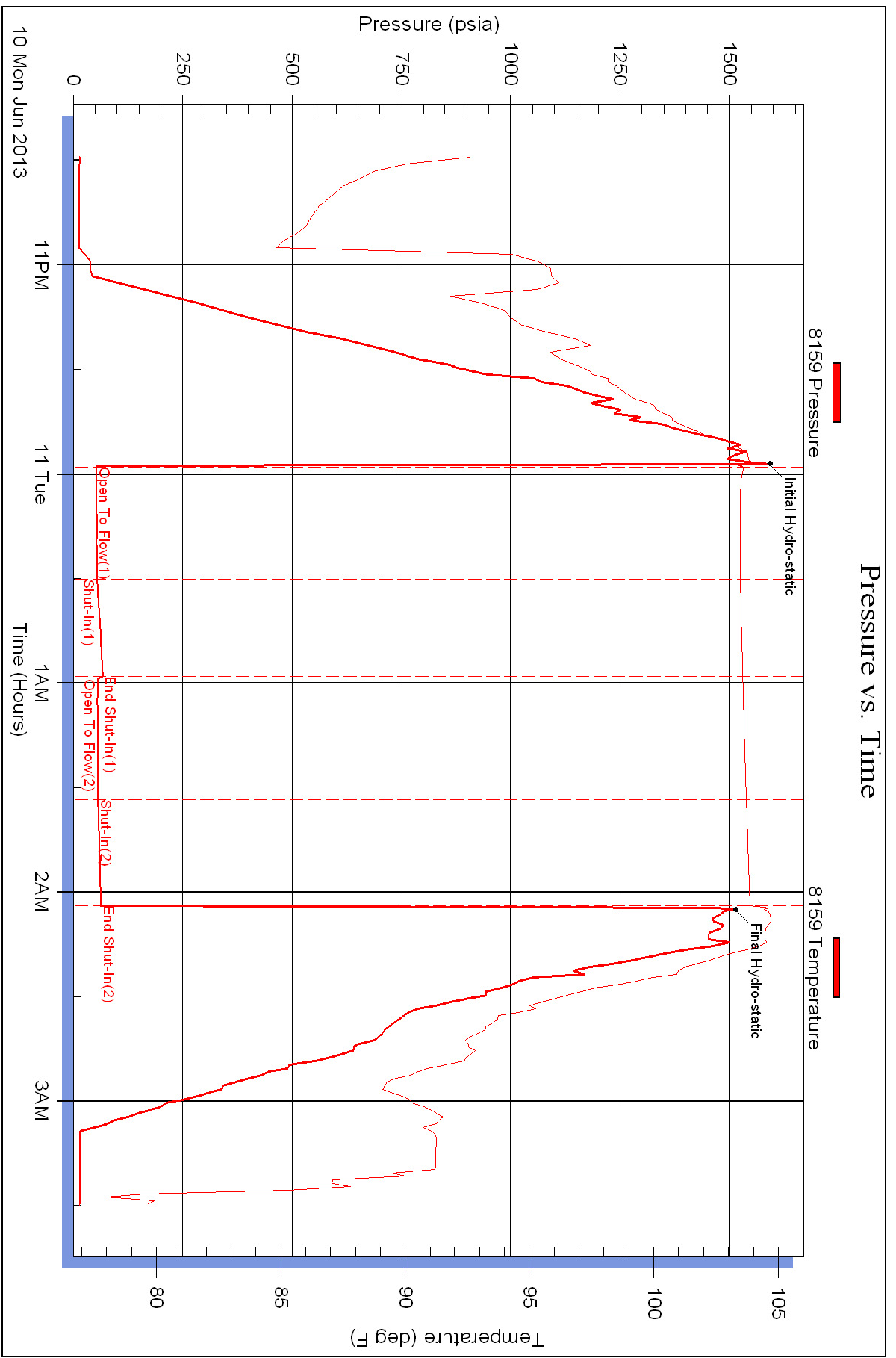
Laboratory Name:

Laboratory Location:

Recovery Comments:









## DRILL STEM TEST REPORT

Prepared For: **Carrie Exploration & Development**

210 w 22nd Street Hays Ks 67601

ATTN: Jeff Lawler

### **Ricker #C-1**

### **15-20s-10w Rice**

Start Date: 2013.06.11 @ 15:14:00

End Date: 2013.06.11 @ 20:03:00

Job Ticket #: 17469                      DST #: 3

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

Printed: 2013.06.11 @ 20:12:30



# DRILL STEM TEST REPORT

Carrie Exploration & Development  
 210 w 22nd Street Hays Ks 67601  
 ATTN: Jeff Lawler

**15-20s-10w Rice**  
**Ricker #C-1**  
 Job Ticket: 17469 **DST#: 3**  
 Test Start: 2013.06.11 @ 15:14:00

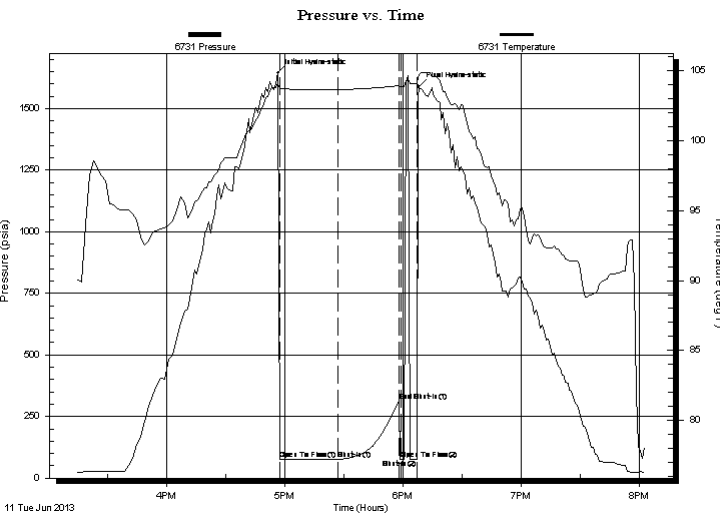
## GENERAL INFORMATION:

Formation: **Lower Lansing**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 16:57:30  
 Time Test Ended: 20:03:00  
 Interval: **3240.00 ft (KB) To 3330.00 ft (KB) (TVD)**  
 Total Depth: 3330.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Jared Scheck  
 Unit No: 3320-Great Bend-50  
 Reference Elevations: 1837.00 ft (KB)  
 1829.00 ft (CF)  
 KB to GR/CF: 8.00 ft

## Serial #: 6731

Press@RunDepth: 75.30 psia @ ft (KB) Capacity: 5000.00 psia  
 Start Date: 2013.06.11 End Date: 2013.06.11 Last Calib.: 2013.06.11  
 Start Time: 15:14:00 End Time: 20:03:00 Time On Btm: 2013.06.11 @ 16:56:30  
 Time Off Btm: 2013.06.11 @ 18:08:00

**TEST COMMENT:** 1st Opening 30 Minutes-Very weak blow died off 15 minutes into open  
 1st Shut-in 30 Minutes-No blow back  
 2nd Opening 15 Minutes-Very weak surge did not build flushed tool weak surge did not build  
 2nd SHut-in -Pull Tool



## PRESSURE SUMMARY

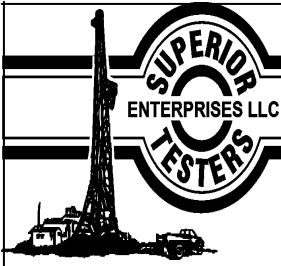
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1643.76	104.09	Initial Hydro-static
1	75.20	103.74	Open To Flow (1)
31	75.30	103.64	Shut-In(1)
62	311.25	103.92	End Shut-In(1)
63	77.77	103.87	Open To Flow (2)
71	77.84	104.05	Shut-In(2)
72	1589.08	104.69	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
3.00	mud	0.04

## Gas Rates

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



# DRILL STEM TEST REPORT

Carrie Exploration & Development  
 210 w 22nd Street Hays Ks 67601  
 ATTN: Jeff Lawler

**15-20s-10w Rice**  
**Ricker #C-1**  
 Job Ticket: 17469      **DST#: 3**  
 Test Start: 2013.06.11 @ 15:14:00

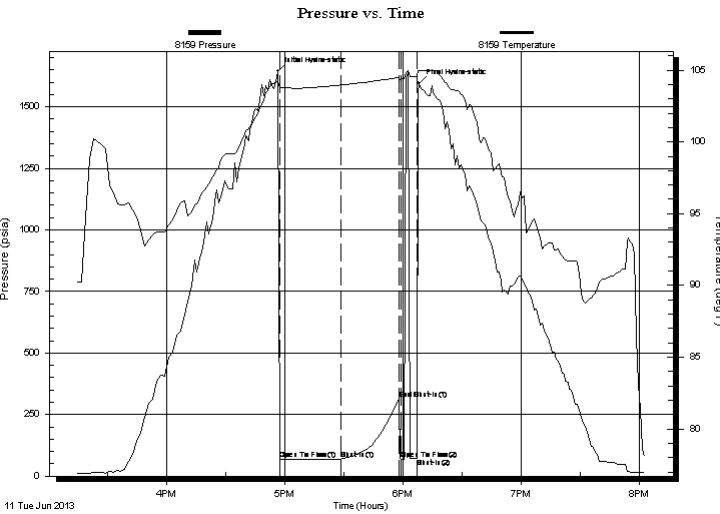
## GENERAL INFORMATION:

Formation: **Lower Lansing**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 16:57:30  
 Time Test Ended: 20:03:00  
**Interval: 3240.00 ft (KB) To 3330.00 ft (KB) (TVD)**  
 Total Depth: 3330.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Jared Scheck  
 Unit No: 3320-Great Bend-50  
 Reference Elevations: 1837.00 ft (KB)  
 1829.00 ft (CF)  
 KB to GR/CF: 8.00 ft

## Serial #: 8159

Press@RunDepth: 313.26 psia @ ft (KB) Capacity: 5000.00 psia  
 Start Date: 2013.06.11 End Date: 2013.06.11 Last Calib.: 2013.06.11  
 Start Time: 15:14:00 End Time: 20:03:00 Time On Btm: 2013.06.11 @ 16:56:30  
 Time Off Btm: 2013.06.11 @ 18:08:00

**TEST COMMENT:** 1st Opening 30 Minutes-Very weak blow died off 15 minutes into open  
 1st Shut-in 30 Minutes-No blow back  
 2nd Opening 15 Minutes-Very weak surge did not build flushed tool weak surge did not build  
 2nd SHut-in -Pull Tool



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1644.68	104.19	Initial Hydro-static
1	67.82	103.81	Open To Flow (1)
32	69.77	103.96	Shut-In(1)
62	313.26	104.49	End Shut-In(1)
63	69.98	104.43	Open To Flow (2)
71	71.93	104.54	Shut-In(2)
72	1594.88	104.96	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
3.00	mud	0.04

## Gas Rates

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



# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Carrie Exploration & Development  
 210 w 22nd Street Hays Ks 67601  
 ATTN: Jeff Lawler

**15-20s-10w Rice**  
**Ricker #C-1**  
 Job Ticket: 17469      **DST#: 3**  
 Test Start: 2013.06.11 @ 15:14:00

**Tool Information**

Drill Pipe:	Length: 3240.00 ft	Diameter: 3.80 inches	Volume: 45.45 bbl	Tool Weight:	1000.00 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:	50000.00 lb
			<u>Total Volume: 45.45 bbl</u>	Tool Chased	1.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial	38000.00 lb
Depth to Top Packer:	3240.00 ft			Final	38000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	90.00 ft				
Tool Length:	110.00 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			3225.00	
Hydraulic Tool	5.00			3230.00	
Packer	5.00			3235.00	20.00      Bottom Of Top Packer
Packer	5.00			3240.00	
Anchor	4.00			3244.00	
Change Over Sub	0.75			3244.75	
Drill Pipe	63.50			3308.25	
Change Over Sub	0.75			3309.00	
Anchor	16.00			3325.00	
Recorder	1.00	6731	Inside	3326.00	
Recorder	1.00	8159	Outside	3327.00	
Bullnose	3.00			3330.00	90.00      Bottom Packers & Anchor

**Total Tool Length: 110.00**



# DRILL STEM TEST REPORT

## FLUID SUMMARY

Carrie Exploration & Development

**15-20s-10w Rice**

210 w 22nd Street Hays Ks 67601

**Ricker #C-1**

Job Ticket: 17469

**DST#: 3**

ATTN: Jeff Lawler

Test Start: 2013.06.11 @ 15:14:00

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: lb/gal

Cushion Length: ft

Water Salinity: ppm

Viscosity: sec/qt

Cushion Volume: bbl

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

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psia

Salinity: ppm

Filter Cake: inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
3.00	mud	0.042

Total Length: 3.00 ft      Total Volume: 0.042 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

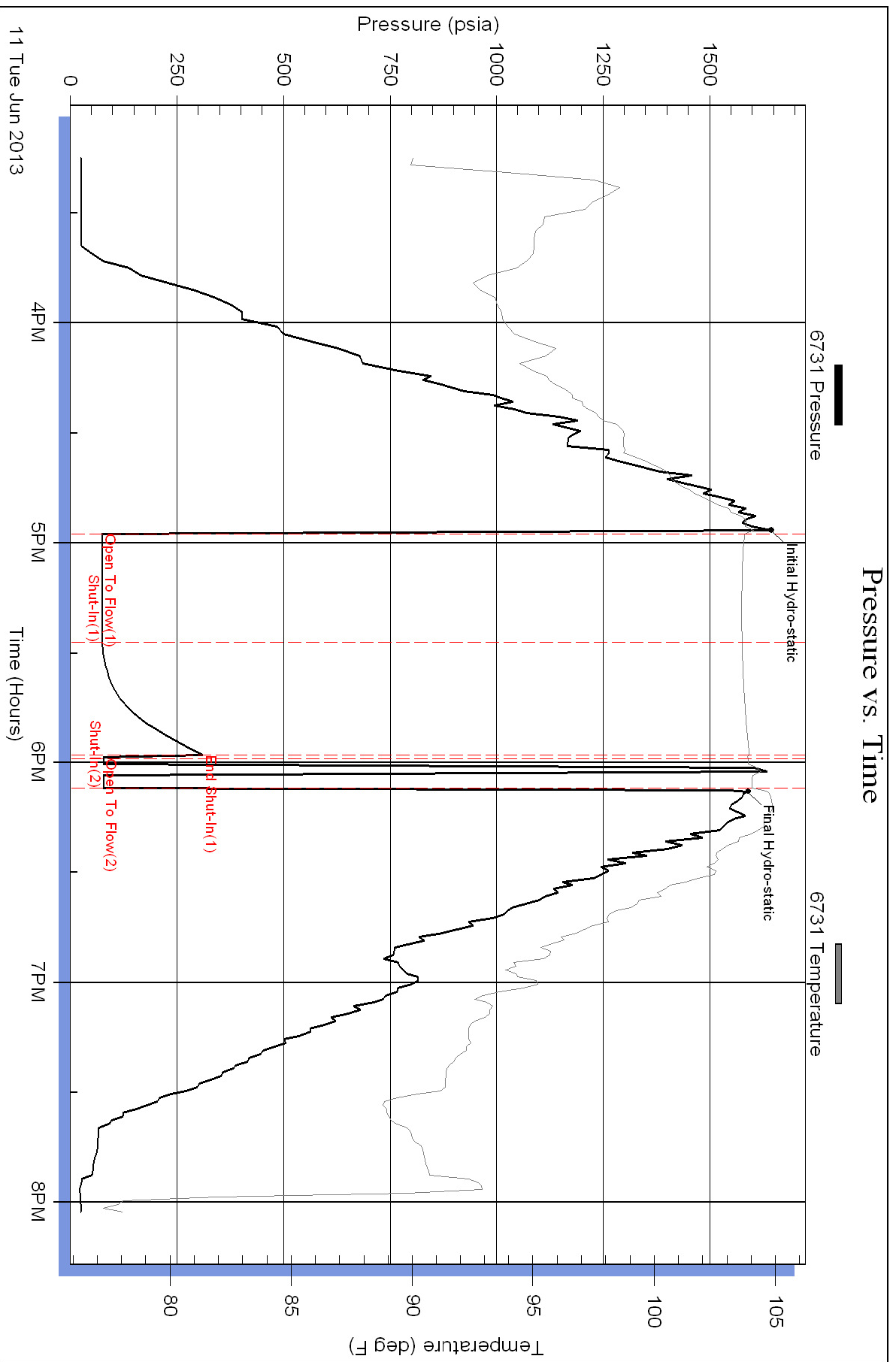
Serial #:

Laboratory Name:

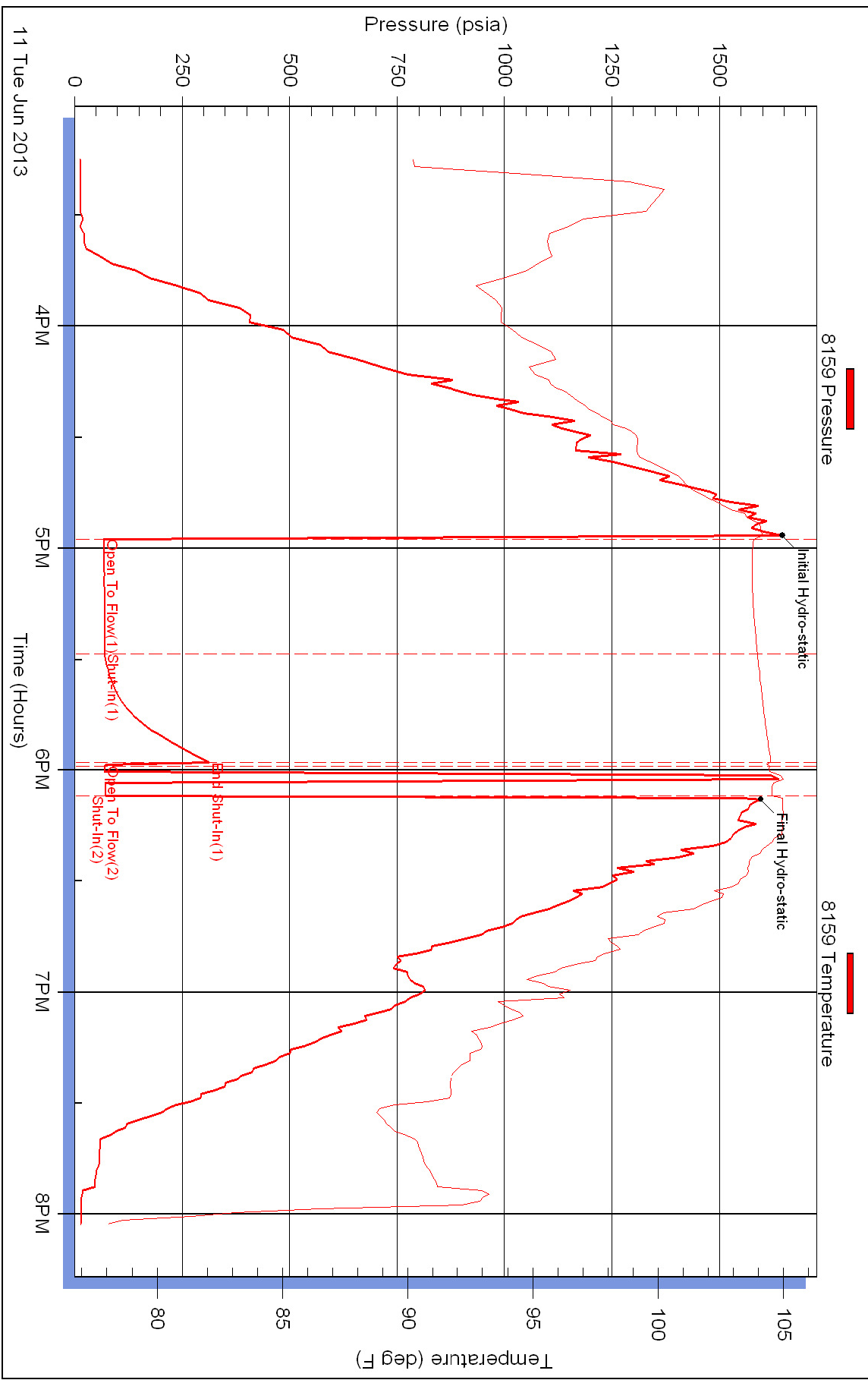
Laboratory Location:

Recovery Comments: flushed tool 2nd open

### Pressure vs. Time



### Pressure vs. Time







## DRILL STEM TEST REPORT

Prepared For: **Carrie Exploration & Development**

210 w 22nd Street Hays Ks 67601

ATTN: Jeff Lawler

### **Ricker #C-1**

### **15-20s-10w Rice**

Start Date: 2013.06.12 @ 08:48:00

End Date: 2013.06.12 @ 14:18:00

Job Ticket #: 17470                      DST #: 4

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

Printed: 2013.06.12 @ 14:34:45



# DRILL STEM TEST REPORT

Carrie Exploration & Development  
 210 w 22nd Street Hays Ks 67601  
 ATTN: Jeff Lawler

**15-20s-10w Rice**  
**Ricker #C-1**  
 Job Ticket: 17470 **DST#: 4**  
 Test Start: 2013.06.12 @ 08:48:00

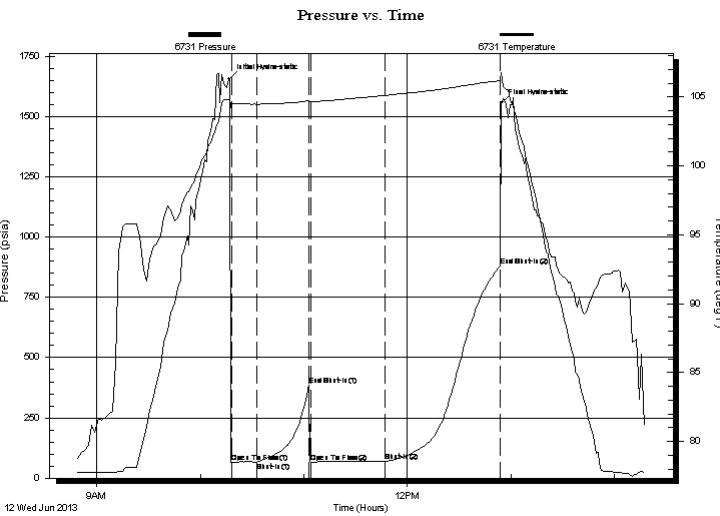
## GENERAL INFORMATION:

Formation: **Simpson Sand**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 10:18:00  
 Time Test Ended: 14:18:00  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Jared Scheck  
 Unit No: 3320-Great Bend-50  
 Interval: **3320.00 ft (KB) To 3389.00 ft (KB) (TVD)**  
 Reference Elevations: 1837.00 ft (KB)  
 Total Depth: 3389.00 ft (KB) (TVD) 1829.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

## Serial #: 6731

Press@RunDepth: 69.95 psia @ ft (KB) Capacity: 5000.00 psia  
 Start Date: 2013.06.12 End Date: 2013.06.12 Last Calib.: 2013.06.12  
 Start Time: 08:48:00 End Time: 14:18:00 Time On Btm: 2013.06.12 @ 10:17:00  
 Time Off Btm: 2013.06.12 @ 12:54:30

**TEST COMMENT:** 1st Opening 15 Minutes-Weak blow built 1/2 inch into water in 15 minutes  
 1st Shut-in 30 Minutes-No blow back  
 2nd Opening 45 Minutes-Weak blow built 6 inches into water in 45 minutes  
 2nd Shut-in 60 Minutes-No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1655.73	104.91	Initial Hydro-static
1	66.65	104.57	Open To Flow (1)
16	67.37	104.48	Shut-In(1)
46	387.25	104.74	End Shut-In(1)
47	64.50	104.67	Open To Flow (2)
90	69.95	105.12	Shut-In(2)
157	879.45	106.19	End Shut-In(2)
158	1554.69	106.79	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
25.00	oil cut mud 30 %oil 70% mud	0.35
0.00	95 feet gas in pipe	0.00

## Gas Rates

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



# DRILL STEM TEST REPORT

Carrie Exploration & Development  
 210 w 22nd Street Hays Ks 67601  
 ATTN: Jeff Lawler

**15-20s-10w Rice**  
**Ricker #C-1**  
 Job Ticket: 17470 **DST#: 4**  
 Test Start: 2013.06.12 @ 08:48:00

## GENERAL INFORMATION:

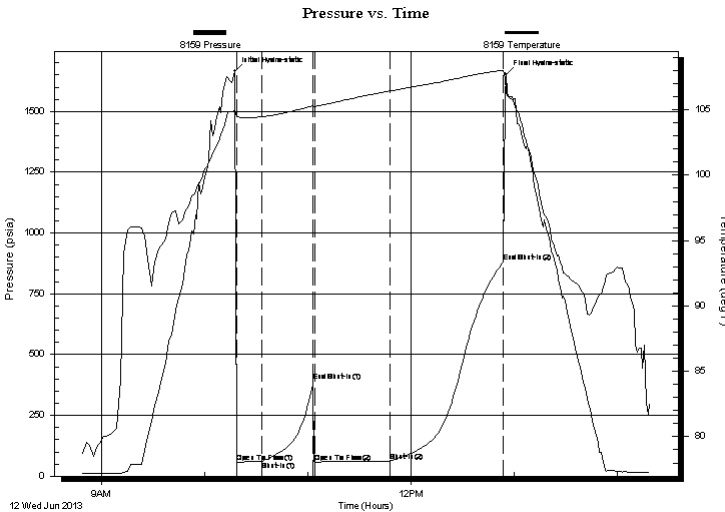
Formation: **Simpson Sand**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 10:18:00  
 Time Test Ended: 14:18:00  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Jared Scheck  
 Unit No: 3320-Great Bend-50  
 Interval: **3320.00 ft (KB) To 3389.00 ft (KB) (TVD)**  
 Reference Elevations: 1837.00 ft (KB)  
 Total Depth: 3389.00 ft (KB) (TVD) 1829.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

## Serial #: 8159

Press@RunDepth: 880.82 psia @ ft (KB) Capacity: 5000.00 psia  
 Start Date: 2013.06.12 End Date: 2013.06.12 Last Calib.: 2013.06.12  
 Start Time: 08:48:00 End Time: 14:18:30 Time On Btm: 2013.06.12 @ 10:17:30  
 Time Off Btm: 2013.06.12 @ 12:55:00

**TEST COMMENT:** 1st Opening 15 Minutes-Weak blow built 1/2 inch into water in 15 minutes  
 1st Shut-in 30 Minutes-No blow back  
 2nd Opening 45 Minutes-Weak blow built 6 inches into water in 45 minutes  
 2nd Shut-in 60 Minutes-No blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1665.95	104.95	Initial Hydro-static
1	58.10	104.48	Open To Flow (1)
16	59.43	104.47	Shut-In(1)
46	389.58	105.34	End Shut-In(1)
47	57.09	105.26	Open To Flow (2)
90	62.61	106.43	Shut-In(2)
156	880.82	108.02	End Shut-In(2)
158	1653.45	106.42	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
25.00	oil cut mud 30 %oil 70%mud	0.35
0.00	95 feet gas in pipe	0.00

## Gas Rates

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



# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Carrie Exploration & Development  
 210 w 22nd Street Hays Ks 67601  
 ATTN: Jeff Lawler

**15-20s-10w Rice**  
**Ricker #C-1**  
 Job Ticket: 17470      **DST#: 4**  
 Test Start: 2013.06.12 @ 08:48:00

**Tool Information**

Drill Pipe:	Length: 3303.00 ft	Diameter: 3.80 inches	Volume: 46.33 bbl	Tool Weight: 1000.00 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: 45000.00 lb
			<u>Total Volume: 46.33 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	3.00 ft			String Weight: Initial 38000.00 lb
Depth to Top Packer:	3320.00 ft			Final 38000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	69.00 ft			
Tool Length:	89.00 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			3305.00	
Hydraulic Tool	5.00			3310.00	
Packer	5.00			3315.00	20.00      Bottom Of Top Packer
Packer	5.00			3320.00	
Anchor	5.00			3325.00	
Change Over Sub	0.75			3325.75	
Drill Pipe	31.50			3357.25	
Change Over Sub	0.75			3358.00	
Anchor	26.00			3384.00	
Recorder	1.00	6731	Inside	3385.00	
Recorder	1.00	8159	Outside	3386.00	
Bullnose	3.00			3389.00	69.00      Bottom Packers & Anchor

**Total Tool Length: 89.00**



# DRILL STEM TEST REPORT

## FLUID SUMMARY

Carrie Exploration & Development  
210 w 22nd Street Hays Ks 67601  
ATTN: Jeff Lawler

**15-20s-10w Rice**  
**Ricker #C-1**  
Job Ticket: 17470      **DST#: 4**  
Test Start: 2013.06.12 @ 08:48:00

### Mud and Cushion Information

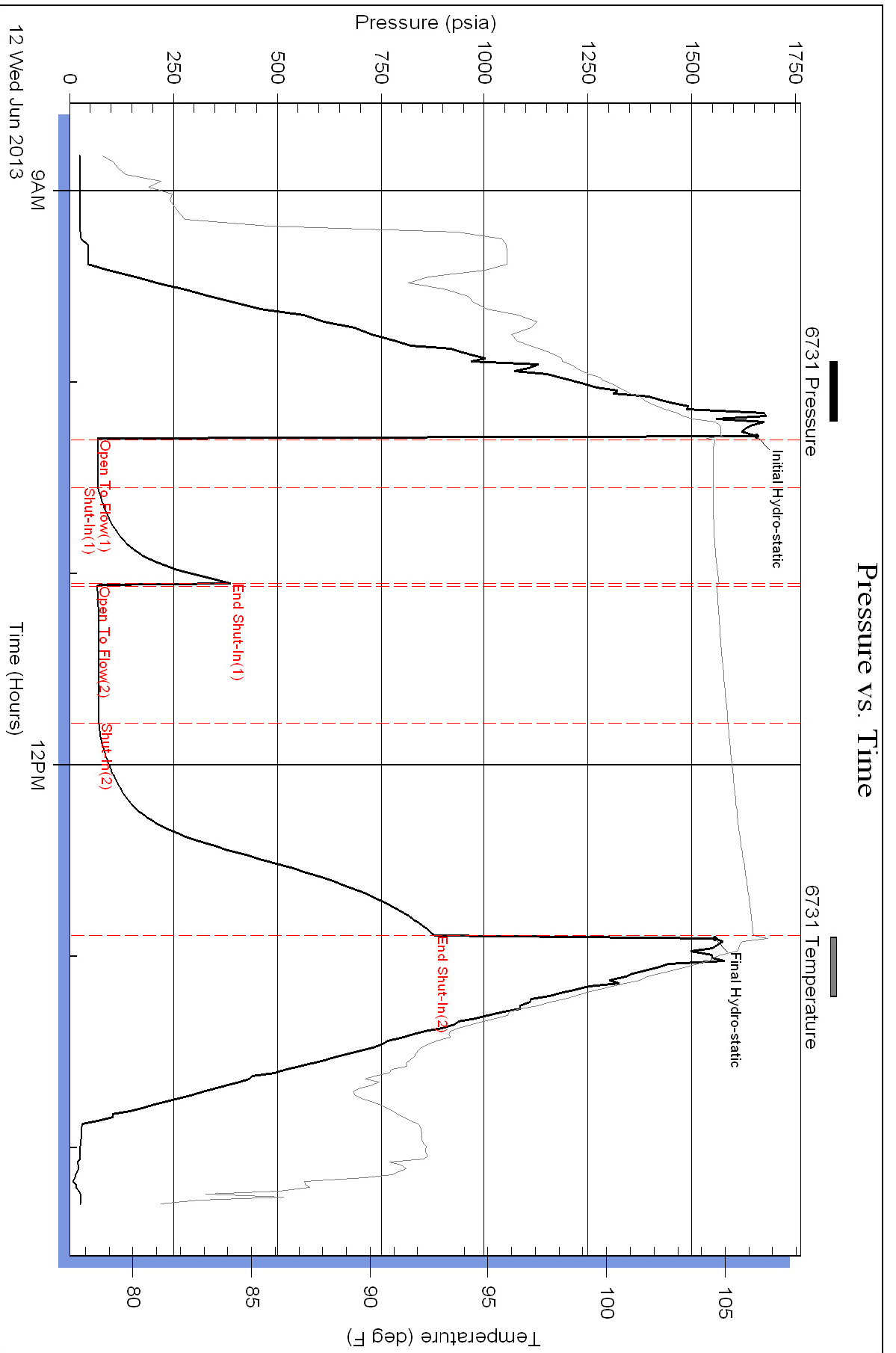
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: sec/qt	Cushion Volume: bbl		
Water Loss: in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: ppm			
Filter Cake: inches			

### Recovery Information

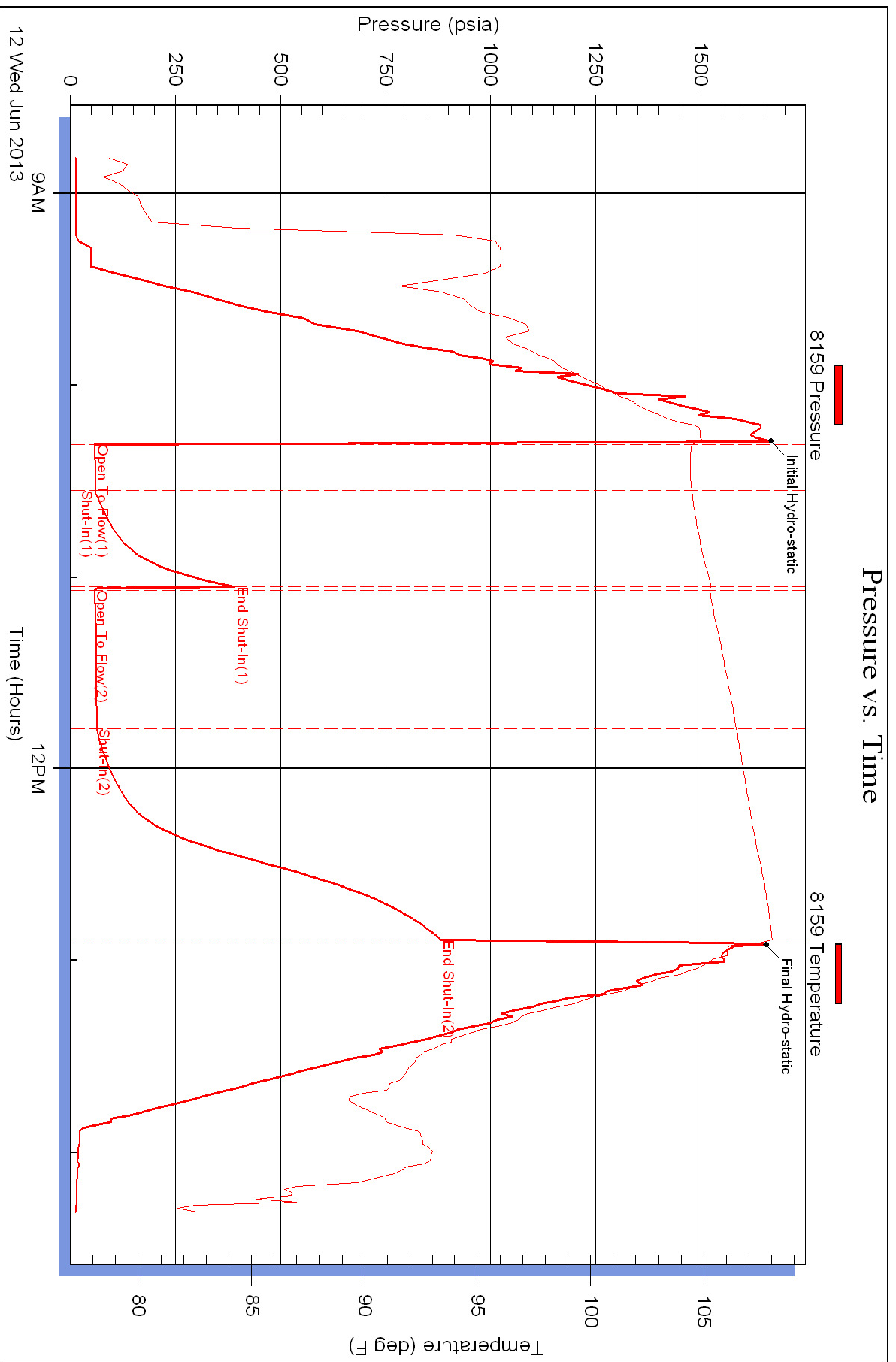
Recovery Table

Length ft	Description	Volume bbl
25.00	oil cut mud 30 %oil 70%mud	0.351
0.00	95 feet gas in pipe	0.000

Total Length: 25.00 ft      Total Volume: 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: **Carrie Exploration & Development**

210 w 22nd Street Hays Ks 67601

ATTN: Jeff Lawler

### **Ricker #C-1**

### **15-20s-10w Rice**

Start Date: 2013.06.13 @ 21:40:00

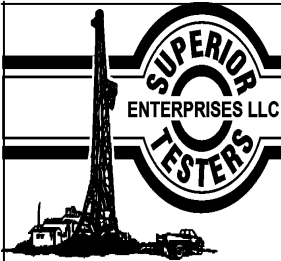
End Date: 2013.06.14 @ 03:17:30

Job Ticket #: 17471                      DST #: 5

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

Printed: 2013.06.13 @ 03:47:01





# DRILL STEM TEST REPORT

Carrie Exploration & Development  
 210 w 22nd Street Hays Ks 67601  
 ATTN: Jeff Lawler

**15-20s-10w Rice**  
**Ricker #C-1**  
 Job Ticket: 17471 **DST#: 5**  
 Test Start: 2013.06.13 @ 21:40:00

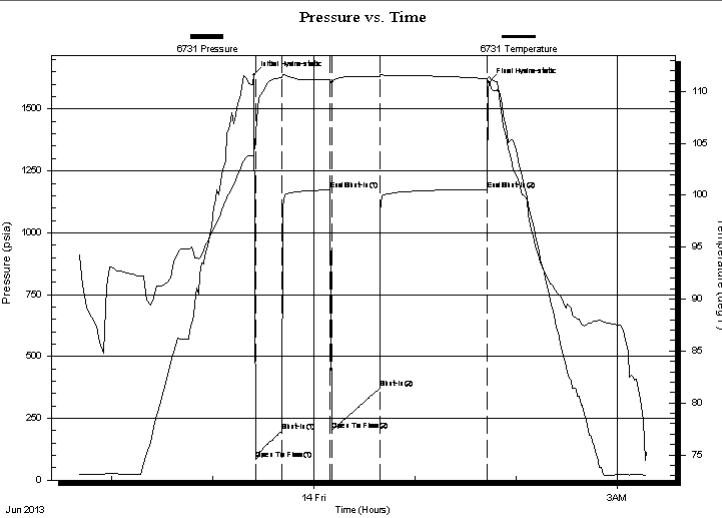
## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 23:25:30 Tester: Jared Scheck  
 Time Test Ended: 03:17:30 Unit No: 3320-Great Bend -50  
 Interval: **3323.00 ft (KB) To 3392.00 ft (KB) (TVD)** Reference Elevations: 1837.00 ft (KB)  
 Total Depth: 3392.00 ft (KB) (TVD) 1829.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

## Serial #: 6731

Press@RunDepth: 370.05 psia @ ft (KB) Capacity: psia  
 Start Date: 2013.06.13 End Date: 2013.06.14 Last Calib.: 1899.12.30  
 Start Time: 21:40:00 End Time: 03:17:30 Time On Btm: 2013.06.13 @ 23:24:30  
 Time Off Btm: 2013.06.14 @ 01:44:00

TEST COMMENT: 1st Opening 15 Minutes Strong blow built bottom of bucket in 6 1/2 minutes  
 1st Shut-in 30 Minutes -No blow back  
 2nd Opening 30 Minutes-Strong blow built bottom of bucket in 6 1/2 minutes  
 2nd Shut-in 60 Minutes-No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1637.51	103.89	Initial Hydro-static
1	83.62	106.00	Open To Flow (1)
17	197.34	111.34	Shut-In(1)
45	1173.35	111.10	End Shut-In(1)
46	200.65	110.64	Open To Flow (2)
75	370.05	111.41	Shut-In(2)
139	1175.29	111.22	End Shut-In(2)
140	1609.25	111.41	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
375.00	water	5.26
0.00	Chlorides 30,000 resistivity .15@65 degr	0.00

## Gas Rates

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



# DRILL STEM TEST REPORT

Carrie Exploration & Development  
 210 w 22nd Street Hays Ks 67601  
 ATTN: Jeff Lawler

**15-20s-10w Rice**  
**Ricker #C-1**  
 Job Ticket: 17471 **DST#: 5**  
 Test Start: 2013.06.13 @ 21:40:00

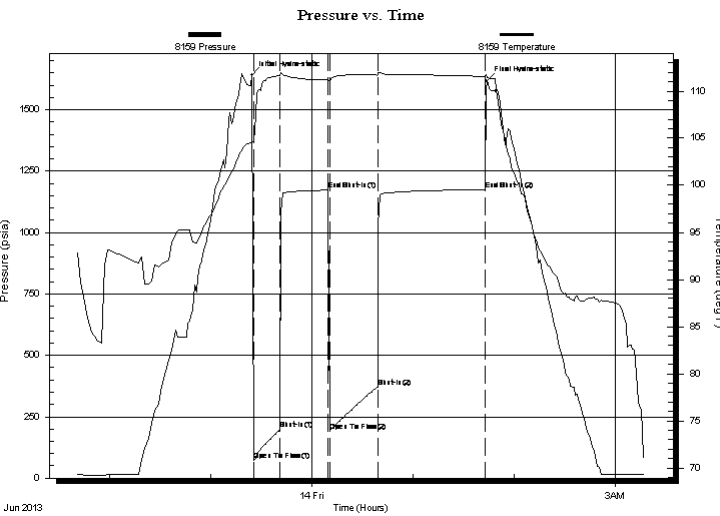
## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 23:25:30 Tester: Jared Scheck  
 Time Test Ended: 03:17:30 Unit No: 3320-Great Bend -50  
 Interval: **3323.00 ft (KB) To 3392.00 ft (KB) (TVD)** Reference Elevations: 1837.00 ft (KB)  
 Total Depth: 3392.00 ft (KB) (TVD) 1829.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

## Serial #: 8159

Press@RunDepth: 1174.26 psia @ ft (KB) Capacity: psia  
 Start Date: 2013.06.13 End Date: 2013.06.14 Last Calib.: 1899.12.30  
 Start Time: 21:40:00 End Time: 03:18:00 Time On Btm: 2013.06.13 @ 23:24:30  
 Time Off Btm: 2013.06.14 @ 01:44:00

**TEST COMMENT:** 1st Opening 15 Minutes Strong blow built bottom of bucket in 6 1/2 minutes  
 1st Shut-in 30 Minutes -No blow back  
 2nd Opening 30 Minutes-Strong blow built bottom of buxket in 6 1/2 minutes  
 2nd Shut-in 60 Minutes-No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1641.05	104.66	Initial Hydro-static
1	73.17	104.59	Open To Flow (1)
17	197.49	111.63	Shut-In(1)
45	1172.58	111.17	End Shut-In(1)
46	191.68	111.02	Open To Flow (2)
75	371.75	111.70	Shut-In(2)
139	1174.26	111.56	End Shut-In(2)
140	1617.14	111.46	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
375.00	water	5.26
0.00	Chlorides 30,000 resistivity .15@65 degr	0.00

## Gas Rates

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



# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Carrie Exploration & Development  
 210 w 22nd Street Hays Ks 67601  
 ATTN: Jeff Lawler

**15-20s-10w Rice**  
**Ricker #C-1**  
 Job Ticket: 17471      **DST#: 5**  
 Test Start: 2013.06.13 @ 21:40:00

**Tool Information**

Drill Pipe:	Length: 3334.00 ft	Diameter: 3.80 inches	Volume: 46.77 bbl	Tool Weight:	1000.00 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:	50000.00 lb
			<u>Total Volume: 46.77 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial	38000.00 lb
Depth to Top Packer:	3323.00 ft			Final	44000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	69.00 ft				
Tool Length:	89.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

<b>Tool Description</b>	<b>Length (ft)</b>	<b>Serial No.</b>	<b>Position</b>	<b>Depth (ft)</b>	<b>Accum. Lengths</b>
-------------------------	--------------------	-------------------	-----------------	-------------------	-----------------------

Shut-In Tool	5.00			3308.00	
Hydraulic Tool	5.00			3313.00	
Packer	5.00			3318.00	20.00      Bottom Of Top Packer
Packer	5.00			3323.00	
Anchor	5.00			3328.00	
Change Over Sub	0.75			3328.75	
Drill Pipe	31.50			3360.25	
Change Over Sub	0.75			3361.00	
Anchor	26.00			3387.00	
Recorder	1.00	6731	Inside	3388.00	
Recorder	1.00	8159	Outside	3389.00	
Bullnose	3.00			3392.00	69.00      Bottom Packers & Anchor

**Total Tool Length: 89.00**



# DRILL STEM TEST REPORT

## FLUID SUMMARY

Carrie Exploration & Development  
210 w 22nd Street Hays Ks 67601  
ATTN: Jeff Lawler

**15-20s-10w Rice**  
**Ricker #C-1**  
Job Ticket: 17471      **DST#: 5**  
Test Start: 2013.06.13 @ 21:40:00

### Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	deg API
Mud Weight:	lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	sec/qt	Cushion Volume:	bbl		
Water Loss:	in <sup>3</sup>	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psia		
Salinity:	ppm				
Filter Cake:	inches				

### Recovery Information

Recovery Table

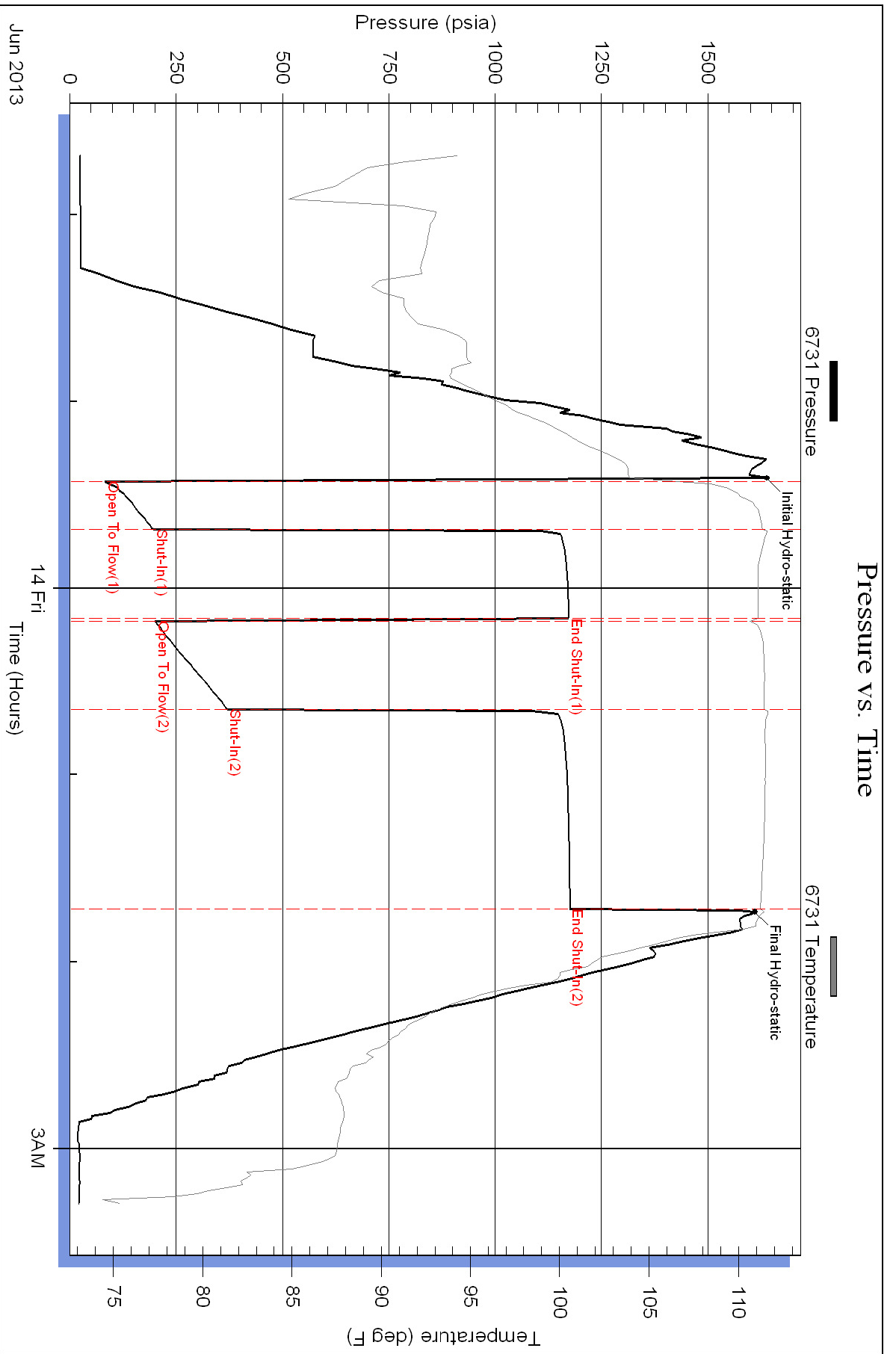
Length ft	Description	Volume bbl
375.00	waterr	5.260
0.00	Chlorides 30,000 resistivity .15@65 degr	0.000

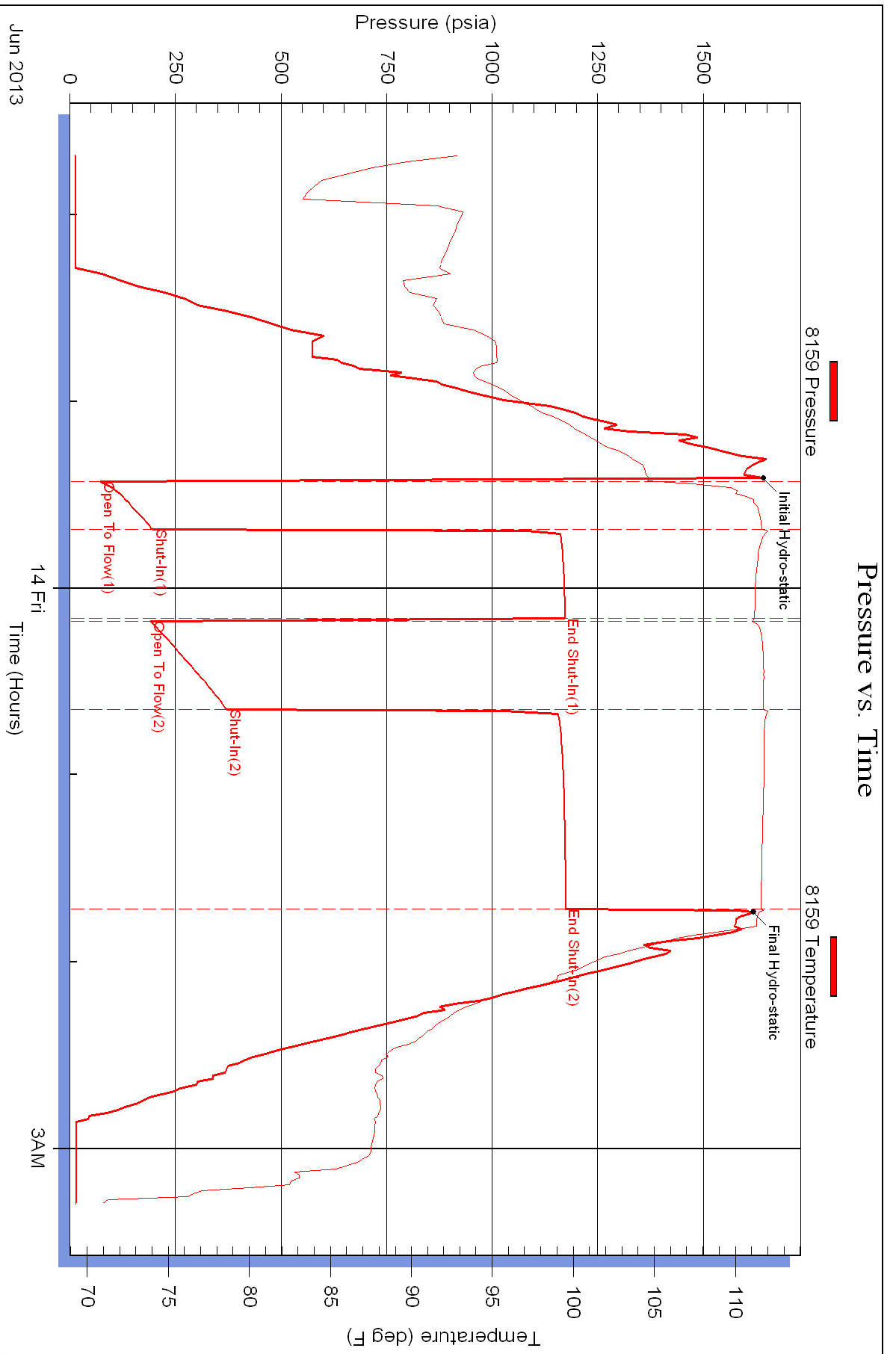
Total Length: 375.00 ft      Total Volume: 5.260 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments: chlorides 30,000 resistivity .15 @ 65degrees







PO Box 93999  
Southlake, TX 76092

Voice: (817) 546-7282  
Fax: (817) 246-3361

# INVOICE

Invoice Number: 136699

Invoice Date: Jun 6, 2013

Page: 1

**Bill To:**

Carrie Exploration & Development LLC  
210 West 22nd Street  
Hays, KS 67601

Now Includes:



Customer ID	Field Ticket #	Payment Terms	
Carrie	60510	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS2-01	Great Bend	Jun 6, 2013	7/6/13

Quantity	Item	Description	Unit Price	Amount
		Ricker # <del>6</del> -1		
175.00	MAT	Class A Common	17.90	3,132.50
3.00	MAT	Gel	23.40	70.20
6.00	MAT	Chloride	64.00	384.00
188.74	SER	Cubic Feet	2.48	468.07
172.40	SER	Ton Mileage	2.60	448.24
1.00	SER	Surface	1,512.25	1,512.25
20.00	SER	Pump Truck Mileage	7.70	154.00
20.00	SER	Light Vehicle Mileage	4.40	88.00
1.00	CEMENTER	Joshua Isaac		
1.00	EQUIP OPER	Mike Scothorn		
1.00	OPER ASSIST	Ben Newell		

Subtotal	6,257.26
Sales Tax	261.83
Total Invoice Amount	6,519.09
Payment/Credit Applied	
<b>TOTAL</b>	<b>6,519.09</b>

ALL PRICES ARE NET, PAYABLE  
30 DAYS FOLLOWING DATE OF  
INVOICE. 1 1/2% CHARGED  
THEREAFTER. IF ACCOUNT IS  
CURRENT, TAKE DISCOUNT OF

\$ 1,564.31

ONLY IF PAID ON OR BEFORE  
Jul 1, 2013



# ALLIED OIL & GAS SERVICES, LLC 060510

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999  
SOUTHLAKE, TEXAS 76092

SERVICE POINT:  
Crutcher

DATE <u>6-6-13</u>	SEC. <u>15</u>	TWP. <u>20</u>	RANGE <u>10W</u>	CALLED OUT	ON LOCATION	JOB START <u>11pm</u>	JOB FINISH <u>11:30pm</u>
LEASE <u>Ricker</u>	WELL # <u>C-1</u>	LOCATION <u>Rice on line East to</u>			COUNTY	STATE <u>KS</u>	
OLD OR NEW (Circle one)		<u>5th rd 2 1/2 south Winto</u>					

CONTRACTOR  
TYPE OF JOB Surface  
HOLE SIZE 12 1/4 T.D.  
CASING SIZE 8 1/2 DEPTH  
TUBING SIZE DEPTH  
DRILL PIPE 4 1/2 DEPTH 262.80  
TOOL DEPTH  
PRES. MAX MINIMUM  
MEAS. LINE SHOE JOINT  
CEMENT LEFT IN CSG. 15 ft  
PERFS.  
DISPLACEMENT

OWNER  
CEMENT  
AMOUNT ORDERED 175 lbs Class A 58cc  
200 gal

COMMON	<u>175</u>	@ <u>17.90</u>	<u>3.132.50</u>
POZMIX		@	
GEL	<u>3</u>	@ <u>23.90</u>	<u>70.20</u>
CHLORIDE	<u>6</u>	@ <u>64.00</u>	<u>384.00</u>
ASC		@	
		@	
		@	
		@	
		@	
		@	
		@	
HANDLING	<u>188.79</u>	@ <u>2.48</u>	<u>468.97</u>
MILEAGE	<u>8.62 x 20 x</u>	<u>2.60</u>	<u>448.20</u>
TOTAL			<u>4.503.01</u>

EQUIPMENT

PUMP TRUCK CEMENTER Josh Sca-  
# 366 HELPER Mike Scathan  
BULK TRUCK  
# 341 DRIVER Ben Newel  
BULK TRUCK  
# DRIVER

REMARKS:  
Hook up 8 1/2 pipe  
Circulate with rig mud  
Hook up cement pump  
Pump cement  
Cement did circulate  
Dr's place fresh water  
Rig down

CHARGE TO: Corrde exploration  
STREET \_\_\_\_\_  
CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

To: Allied Oil & Gas Services, LLC.  
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME X Wesley Pfaff  
SIGNATURE X Wesley Pfaff  
Thank you!!

SERVICE

DEPTH OF JOB			
PUMP TRUCK CHARGE	<u>1512.25</u>		
EXTRA FOOTAGE	@		
MILEAGE	<u>Hum 20</u>	@ <u>7.20</u>	<u>154.00</u>
MANIFOLD	@		
	<u>hum 20</u>	@ <u>4.40</u>	<u>88.00</u>
	@		
TOTAL			<u>1.754.25</u>

PLUG & FLOAT EQUIPMENT

	@		
	@		
	@		
	@		
	@		
TOTAL			_____

SALES TAX (if Any) \_\_\_\_\_  
TOTAL CHARGES 6.257.26  
DISCOUNT 1.564.31 IF PAID IN 30 DAYS  
4.692.94





PAGE	CUST NO	INVOICE DATE
1 of 1	1005952	06/19/2013
<b>INVOICE NUMBER</b>		
<b>1718 - 91217018</b>		

Pratt (620) 672-1201  
 B CARRIE EXPLORATION & DEVELOPMENT LLC  
 I 210 W 22ND ST  
 L HAYS  
 L KS US 67601  
 T  
 O ATTN: HEROLD

J LEASE NAME Ricker C 1  
 O LOCATION  
 B COUNTY Rice  
 S STATE KS  
 I JOB DESCRIPTION Cement-New Well Casing/Pi  
 T JOB CONTACT  
 E

pd # 3849  
 6-24-13

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
40608639	19905		Net - 30 days	07/19/2013
<b>For Service Dates: 06/14/2013 to 06/14/2013</b>				
0040608639				
171808472A Cement-New Well Casing/Pi 06/14/2013 Cement 5 1/2" Longstring				
60/40 POZ		215.00	EA	7.44
C-41P		40.00	EA	2.48
Salt		1,654.00	EA	0.31
FLA-322		128.00	EA	4.65
Gilsonite		925.00	EA	0.42
Mud Flush		500.00	EA	0.53
"5 1/2" Port Collar "		1.00	EA	2,169.89
"Latch Down Plug & Baffle, 5 1/2" (Blu		1.00	EA	247.99
"Auto Fill Float Shoe 5 1/2" (Blue)"		1.00	EA	223.19
"Turbolizer, 5 1/2" (Blue)"		6.00	EA	68.20
"5 1/2" Basket (Blue)"		2.00	EA	179.79
"Unit Mileage Chg (PU, cars one way)"		75.00	MI	2.63
Heavy Equipment Mileage		150.00	MI	4.34
"Proppant & Bulk Del. Chgs., per ton mil		698.00	EA	0.99
Depth Charge; 3001-4000'		1.00	EA	1,339.13
Blending & Mixing Service Charge		215.00	BAG	0.87
Plug Container Util. Chg.		1.00	EA	154.99
"Service Supervisor, first 8 hrs on loc.		1.00	EA	108.49

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	10,197.45
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	252.39
PO BOX 841903	801 CHERRY ST, STE 2100	INVOICE TOTAL	10,449.84
DALLAS, TX 75284-1903	FORT WORTH, TX 76102		





# TREATMENT REPORT

Customer <b>Carrie Exploration and Development, LLC</b>	Lease No. <b>1</b>	Date <b>6-14-13</b>
Lease <b>Richter 'C'</b>	Well # <b>1</b>	
Field Order # <b>8472</b>	Station <b>Pratt, Kansas</b>	Casing <b>5 1/2 14lb</b>
Type Job <b>C.N.W. - Longstring</b>	Depth <b>3446 Feet</b>	County <b>Rice</b>
	Formation <b>15-203-lou</b>	State <b>Kansas</b>
		Legal Description

PIPE DATA		PERFORATING DATA		FLUID USED	TREATMENT RESUME		
Casing Size <b>5 1/2 14lb</b>	Tubing Size	Shots/Ft	<b>185 sac</b>	<b>Acid</b> As 60/40 Poz with 28 Gel, .88 Fluid Loss,	RATE	PRESS	ISIP
Depth <b>3446 Feet</b>	Depth	From	To <b>.258</b>	<b>Pre-Frac</b> Deframer, 188 Sac	Max <b>5 Lb/St. Gilsonite</b>		<b>5 Min.</b>
Volume <b>34 Bbl.</b>	Volume	From	To <b>14.31</b>	<b>Pre-Frac</b> Gal, 5.93 Gal	Min <b>1.42 CU. FT. ISIP</b>		<b>10 Min.</b>
Max Press <b>1600 P.S.I.</b>	Max Press	From	To	<b>Frac</b>	Avg		<b>15 Min.</b>
Well Connection <b>Plug Container</b>	Annulus Vol.	From <b>30 sac</b>	To <b>60/40 Poz to Plug R</b>	<b>HHP</b>	Used		<b>Annulus Pressure</b>
Plug Depth <b>3425 Feet</b>	Packer Depth	From	To	Flush <b>83.6 Bbl. Fresh Water</b>	Gas Volume		<b>Total Load</b>

Customer Representative <b>Ron Herald</b>	Station Manager <b>Kevin Gardley</b>	Treater <b>Lawrence R. Horsch</b>
--	---	--------------------------------------

Service Units	<b>37216</b>	<b>19903</b>	<b>19909</b>	<b>19926</b>	<b>19960</b>				
Driver Names	<b>Messick</b>	<b>Young</b>	<b>Mellon</b>						

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log