



## DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

250 N. Water Ste 300  
Wichita KS 67202

ATTN: Bob Stolze

### **Luetta #1-15**

#### **15-2s-29w Decatur,KS**

Start Date: 2013.05.03 @ 04:50:00

End Date: 2013.05.03 @ 12:54:00

Job Ticket #: 50667                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2013.05.14 @ 08:45:52



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Murfin Drilling Co.  
250 N. Water Ste 300  
Wichita KS 67202  
ATTN: Bob Stolzle

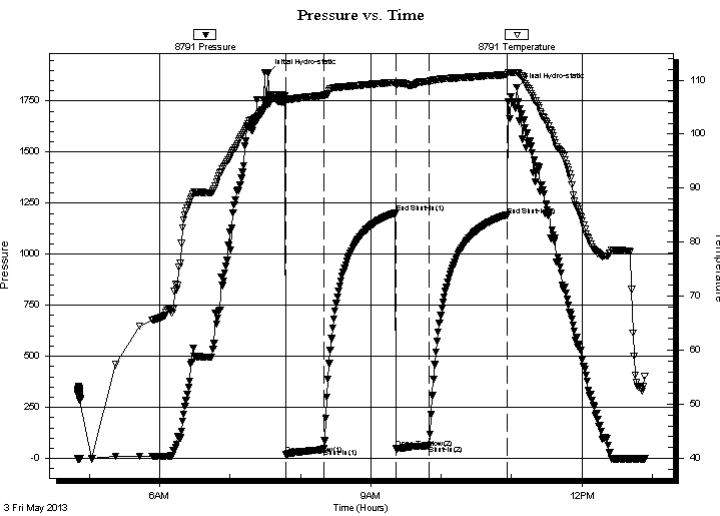
**15-2s-29w Decatur, KS**  
**Luetta #1-15**  
Job Ticket: 50667      **DST#: 1**  
Test Start: 2013.05.03 @ 04:50:00

## GENERAL INFORMATION:

Formation: **LKC-A**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 07:47:30  
Time Test Ended: 12:54:00  
Interval: **3639.00 ft (KB) To 3705.00 ft (KB) (TVD)**  
Total Depth: 3705.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Good  
Test Type: Conventional Bottom Hole (Initial)  
Tester: Chuck Kreuzer Jr.  
Unit No: 61  
Reference Elevations: 2679.00 ft (KB)  
2674.00 ft (CF)  
KB to GR/CF: 5.00 ft

**Serial #: 8791      Inside**  
Press @ Run Depth: 62.35 psig @ 3640.00 ft (KB)      Capacity: 8000.00 psig  
Start Date: 2013.05.03      End Date: 2013.05.03      Last Calib.: 2013.05.03  
Start Time: 04:50:01      End Time: 12:54:00      Time On Btm: 2013.05.03 @ 07:32:30  
Time Off Btm: 2013.05.03 @ 11:04:30

**TEST COMMENT:** IF: Weak blow, 1/4" after 5 mins. blow started to die after 10 mins. Dead in 20 mins.  
IS: No blow back.  
FF: No blow  
FS: No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1886.44	105.55	Initial Hydro-static
15	18.96	106.24	Open To Flow (1)
48	49.00	107.18	Shut-In(1)
109	1203.19	109.60	End Shut-In(1)
109	47.65	109.21	Open To Flow (2)
137	62.35	109.77	Shut-In(2)
204	1190.57	111.02	End Shut-In(2)
212	1814.35	111.43	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
124.00	mud w ith oil specks	0.61

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Murfin Drilling Co.

**15-2s-29w Decatur,KS**

250 N. Water Ste 300  
Wichita KS 67202

**Luetta #1-15**

Job Ticket: 50667

**DST#: 1**

ATTN: Bob Stolzle

Test Start: 2013.05.03 @ 04:50:00

## Tool Information

Drill Pipe:	Length: 3443.00 ft	Diameter: 3.80 inches	Volume: 48.30 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 186.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 49.21 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	3639.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	66.00 ft			
Tool Length:	94.00 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			3616.00	
Hydraulic tool	5.00			3621.00	
Jars	5.00			3626.00	
Safety Joint	3.00			3629.00	
Packer	5.00			3634.00	28.00 Bottom Of Top Packer
Packer	5.00			3639.00	
Stubb	1.00			3640.00	
Recorder	0.00	8791	Inside	3640.00	
Recorder	0.00	8651	Outside	3640.00	
Perforations	3.00			3643.00	
change Over Sub	1.00			3644.00	
Drill Pipe	32.00			3676.00	
Change Over Sub	1.00			3677.00	
Perforations	25.00			3702.00	
Bullnose	3.00			3705.00	66.00 Bottom Packers & Anchor

**Total Tool Length: 94.00**



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Murfin Drilling Co.

**15-2s-29w Decatur,KS**

250 N. Water Ste 300  
Wichita KS 67202

**Luetta #1-15**

Job Ticket: 50667

**DST#: 1**

ATTN: Bob Stolzle

Test Start: 2013.05.03 @ 04:50:00

**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: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.19 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 2.00 inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
124.00	mud w ith oil specks	0.610

Total Length: 124.00 ft      Total Volume: 0.610 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

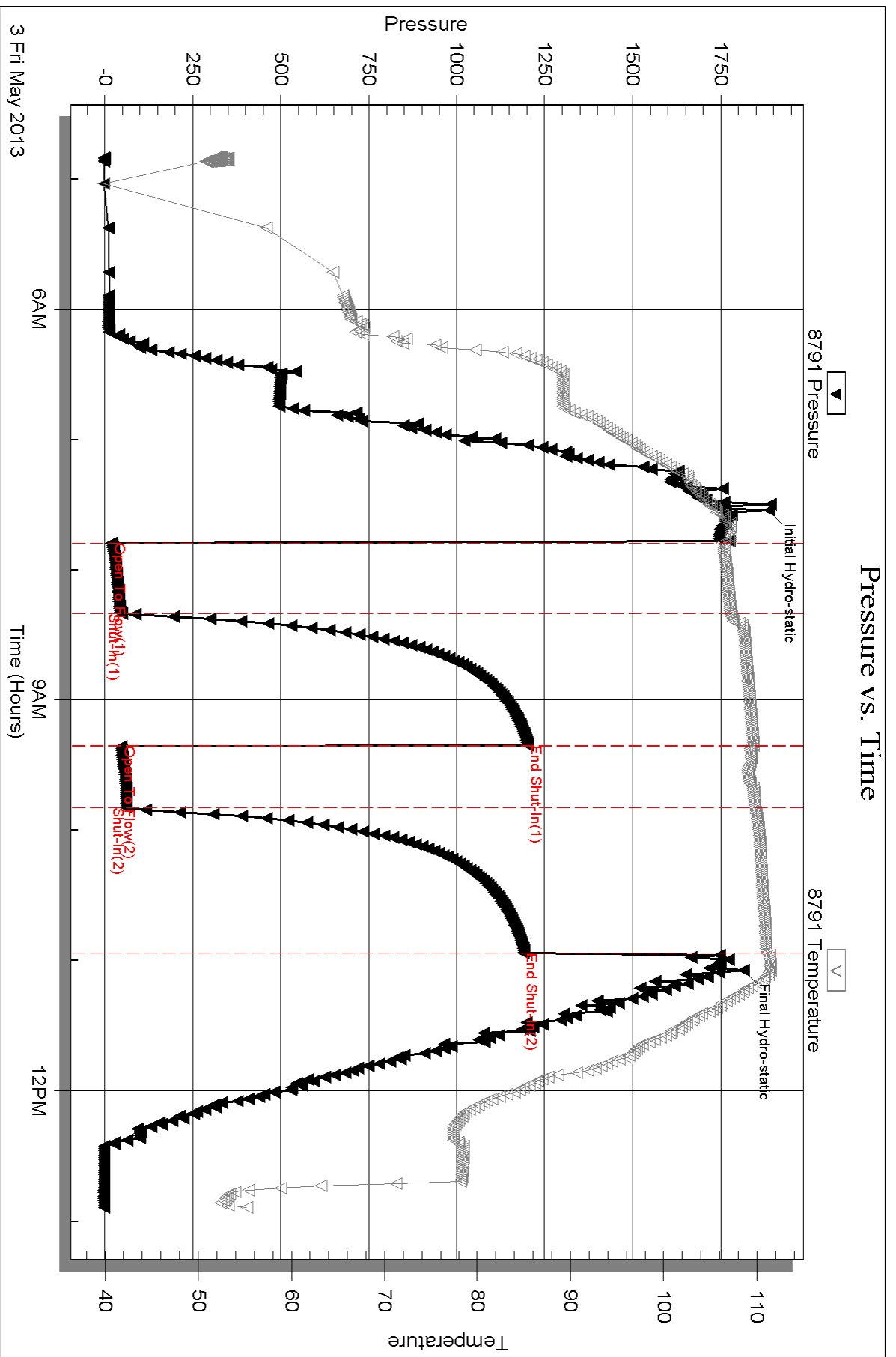
Serial #: 8791

Inside

Murfin Drilling Co.

Luetta #1-15

DST Test Number: 1

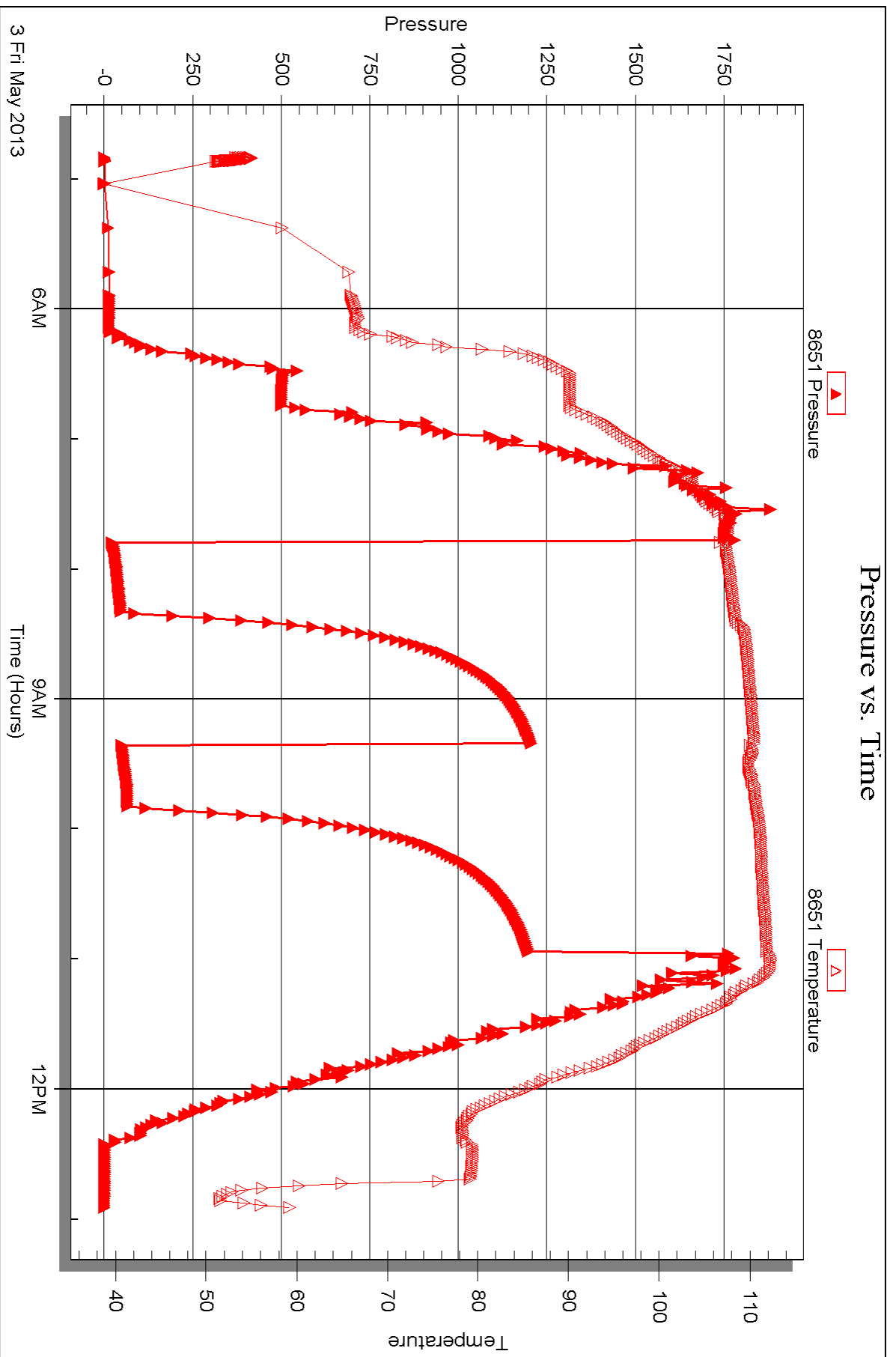


Serial #: 8651

Outside Murfin Drilling Co.

Luetta #1-15

DST Test Number: 1





## DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

250 N. Water Ste 300  
Wichita KS 67202

ATTN: Bob Stolze

### **Luetta #1-15**

#### **15-2s-29w Decatur,KS**

Start Date: 2013.05.04 @ 04:20:00

End Date: 2013.05.04 @ 11:19:00

Job Ticket #: 50668                      DST #: 2

Trilobite Testing, Inc  
PO Box 362 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2013.05.14 @ 08:44:59





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Murfin Drilling Co.  
250 N. Water Ste 300  
Wichita KS 67202  
ATTN: Bob Stolzle

**15-2s-29w Decatur, KS**  
**Luetta #1-15**  
Job Ticket: 50668 **DST#: 2**  
Test Start: 2013.05.04 @ 04:20:00

## GENERAL INFORMATION:

Formation: **LKC D-H**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 06:11:30  
Time Test Ended: 11:19:00  
Interval: **3691.00 ft (KB) To 3820.00 ft (KB) (TVD)**  
Total Depth: 3820.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Good  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Chuck Kreuzer Jr.  
Unit No: 61  
Reference Elevations: 2679.00 ft (KB)  
2674.00 ft (CF)  
KB to GR/CF: 5.00 ft

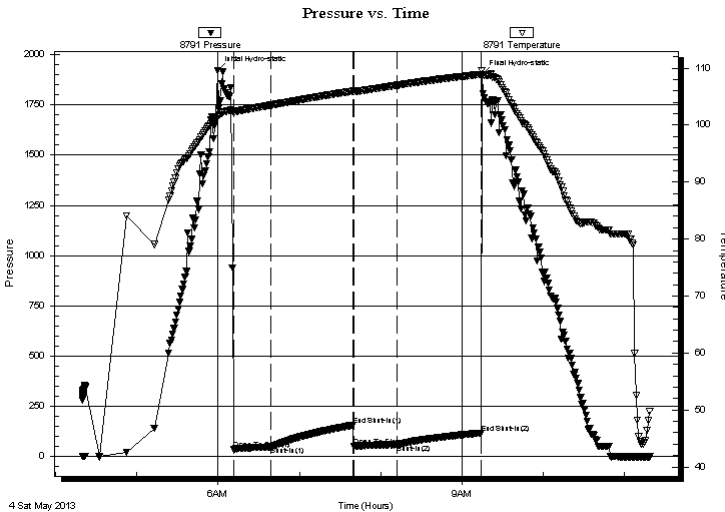
## Serial #: 8791

Inside

Press @ Run Depth: 59.16 psig @ 3692.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2013.05.04 End Date: 2013.05.04 Last Calib.: 2013.05.04  
Start Time: 04:20:01 End Time: 11:19:00 Time On Btm: 2013.05.04 @ 05:59:30  
Time Off Btm: 2013.05.04 @ 09:14:30

TEST COMMENT: IF: Weak blow 1/4" Died in 25 mins.  
IS: No blow back  
FF: No blow .  
FS: No blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1921.83	101.43	Initial Hydro-static
12	35.56	102.31	Open To Flow (1)
40	48.08	103.50	Shut-In(1)
100	154.95	105.96	End Shut-In(1)
101	51.41	105.90	Open To Flow (2)
133	59.16	107.00	Shut-In(2)
195	116.51	108.92	End Shut-In(2)
195	1902.76	109.61	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	ocm-30%o70M	0.30
20.00	oil-100%o	0.10

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Murfin Drilling Co.

**15-2s-29w Decatur,KS**

250 N. Water Ste 300  
Wichita KS 67202

**Luetta #1-15**

Job Ticket: 50668

**DST#: 2**

ATTN: Bob Stolzle

Test Start: 2013.05.04 @ 04:20:00

## Tool Information

Drill Pipe:	Length: 3497.00 ft	Diameter: 3.80 inches	Volume: 49.05 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 186.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 49.96 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3691.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	129.00 ft			
Tool Length:	157.00 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			3668.00	
Hydraulic tool	5.00			3673.00	
Jars	5.00			3678.00	
Safety Joint	3.00			3681.00	
Packer	5.00			3686.00	28.00 Bottom Of Top Packer
Packer	5.00			3691.00	
Stubb	1.00			3692.00	
Recorder	0.00	8791	Inside	3692.00	
Recorder	0.00	8651	Outside	3692.00	
Perforations	25.00			3717.00	
change Over Sub	1.00			3718.00	
Drill Pipe	93.00			3811.00	
Change Over Sub	1.00			3812.00	
Perforations	5.00			3817.00	
Bullnose	3.00			3820.00	129.00 Bottom Packers & Anchor

**Total Tool Length: 157.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Murfin Drilling Co.

**15-2s-29w Decatur,KS**

250 N. Water Ste 300  
Wichita KS 67202

**Luetta #1-15**

Job Ticket: 50668

**DST#: 2**

ATTN: Bob Stolzle

Test Start: 2013.05.04 @ 04:20:00

## 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:

bbbl

Water Loss: 5.99 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1300.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
60.00	ocm-30%o70M	0.295
20.00	oil-100%o	0.098

Total Length: 80.00 ft      Total Volume: 0.393 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

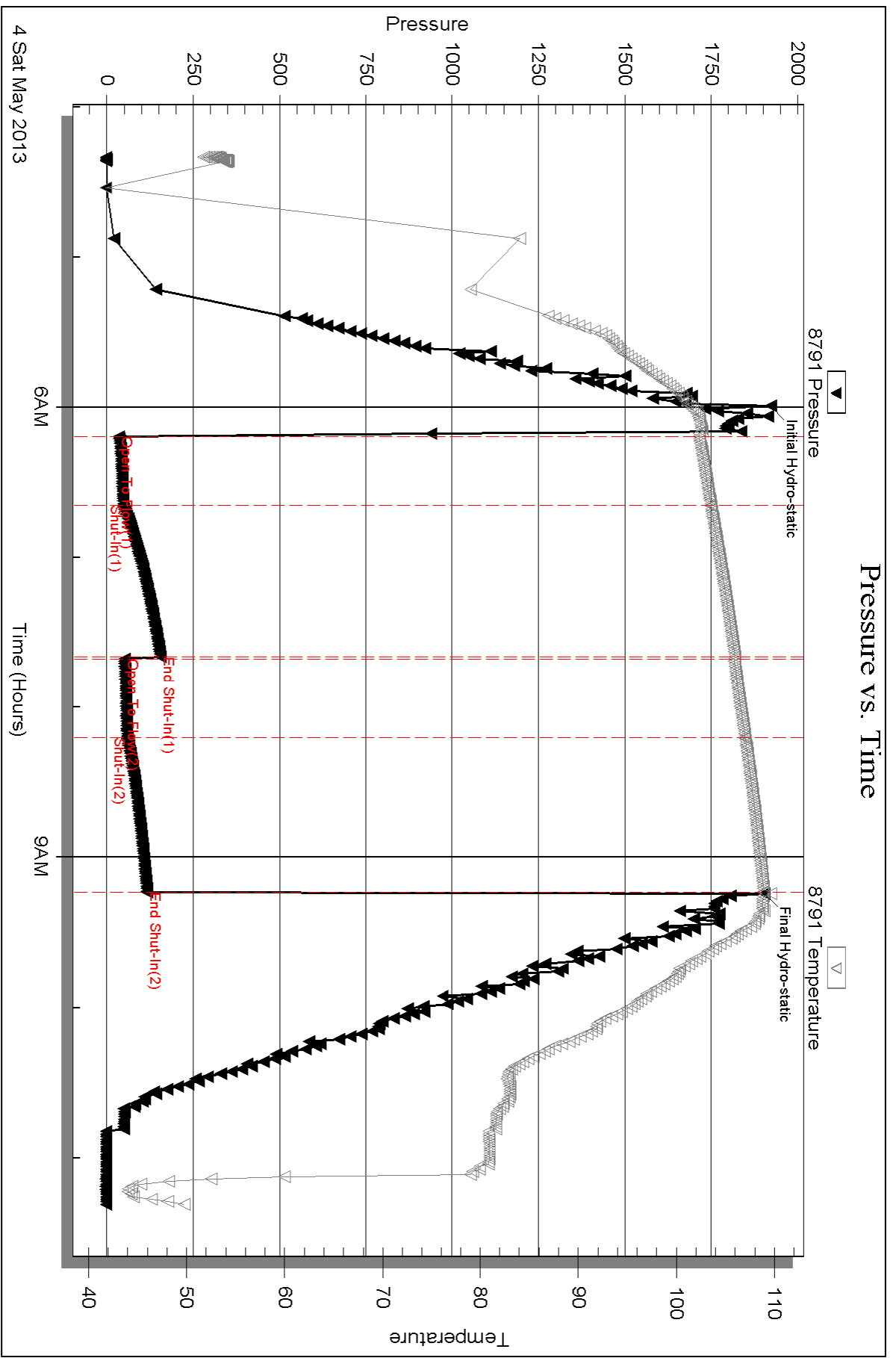
Serial #: 8791

Inside

Murfin Drilling Co.

Luetta #1-15

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 50668

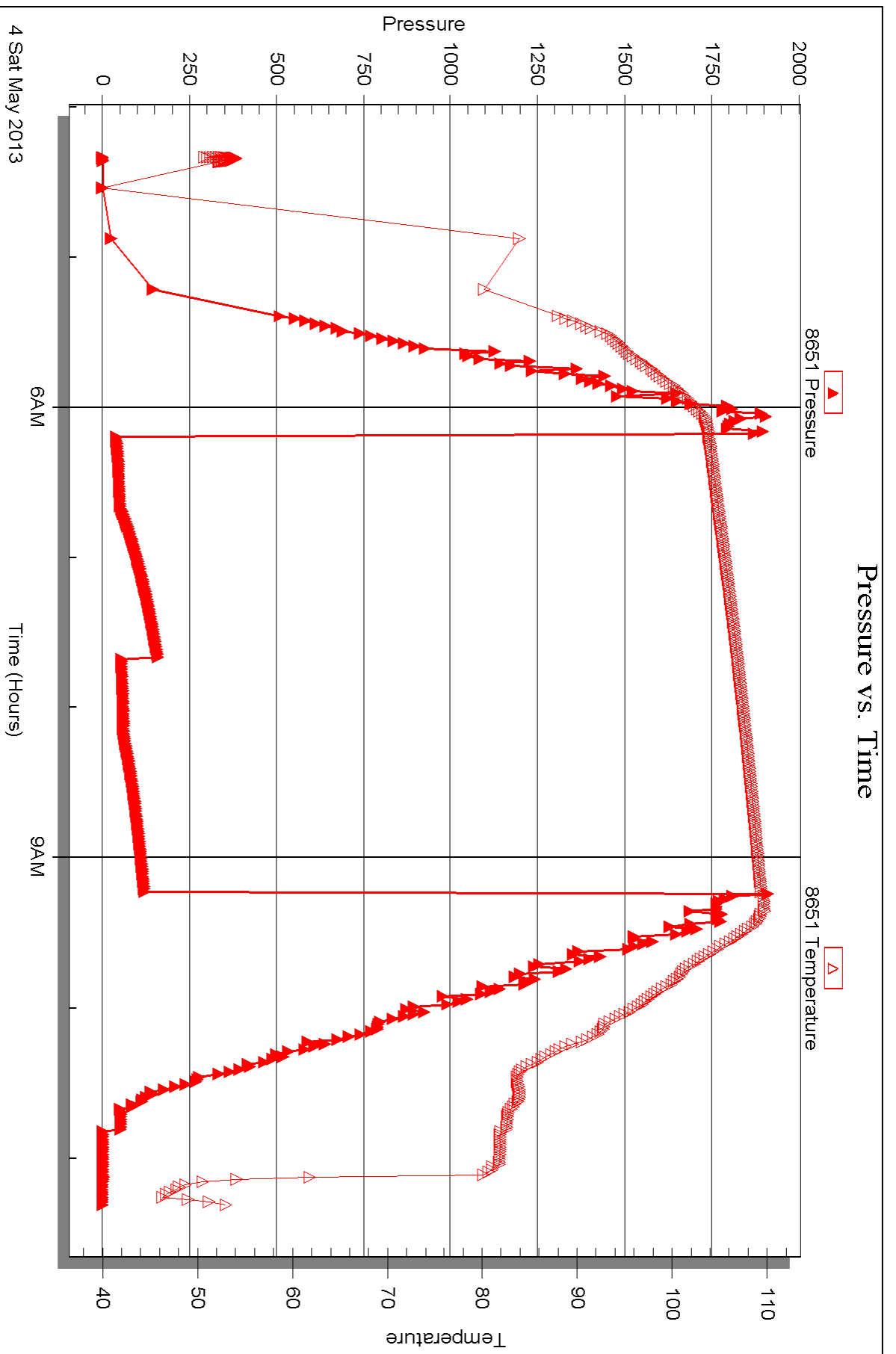
Printed: 2013.05.14 @ 08:45:02

Serial #: 8651

Outside Murfin Drilling Co.

Luetta #1-15

DST Test Number: 2





## DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co.**

250 N. Water Ste 300  
Wichita KS 67202

ATTN: Bob Stolzle

### **Luetta #1-15**

#### **15-2s-29w Decatur,KS**

Start Date: 2013.05.04 @ 20:15:00

End Date: 2013.05.05 @ 02:40:00

Job Ticket #: 50669                      DST #: 3

Trilobite Testing, Inc  
PO Box 362 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2013.05.14 @ 08:44:11



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Murfin Drilling Co.

**15-2s-29w Decatur, KS**

250 N. Water Ste 300  
Wichita KS 67202

**Luetta #1-15**

Job Ticket: 50669

**DST#: 3**

ATTN: Bob Stolzle

Test Start: 2013.05.04 @ 20:15:00

## GENERAL INFORMATION:

Formation: **LKC J-K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:18:30

Time Test Ended: 02:40:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Chuck Kreuzer Jr.

Unit No: 61

**Interval: 3809.00 ft (KB) To 3885.00 ft (KB) (TVD)**

Reference Elevations: 2679.00 ft (KB)

Total Depth: 3885.00 ft (KB) (TVD)

2674.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

**Serial #: 8791**

**Inside**

Press @ Run Depth: 33.74 psig @ 3810.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.05.04

End Date:

2013.05.05

Last Calib.: 2013.05.05

Start Time: 20:15:01

End Time:

02:40:00

Time On Btm: 2013.05.04 @ 22:10:30

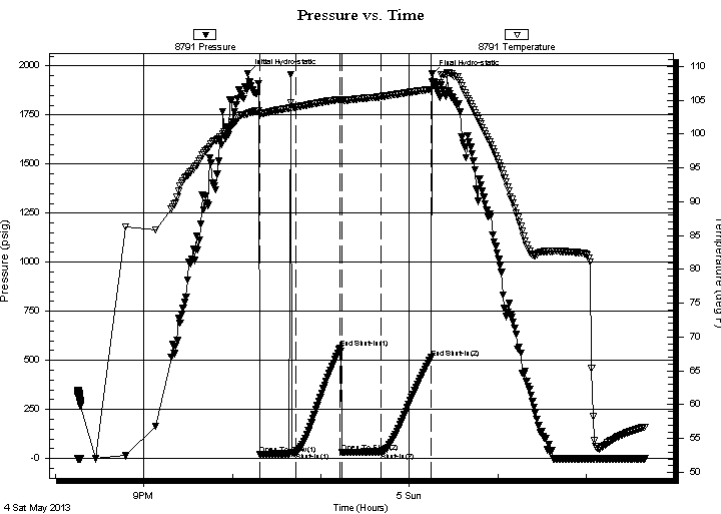
Time Off Btm: 2013.05.05 @ 00:15:30

**TEST COMMENT:** IF: Weak blow, Dead in 5 mins.

IS: No blow back

FF: No blow over 30 mins

FS: No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1962.56	103.02	Initial Hydro-static
8	21.65	102.96	Open To Flow (1)
33	30.77	103.99	Shut-In(1)
63	562.50	105.14	End Shut-In(1)
64	31.45	104.95	Open To Flow (2)
90	33.74	105.52	Shut-In(2)
124	513.76	106.60	End Shut-In(2)
125	1958.64	107.72	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
20.00	mud -100%m	0.10

\* Recovery from multiple tests

## Gas Rates

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







**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Murfin Drilling Co.

**15-2s-29w Decatur,KS**

250 N. Water Ste 300  
Wichita KS 67202

**Luetta #1-15**

Job Ticket: 50669

**DST#: 3**

ATTN: Bob Stolzle

Test Start: 2013.05.04 @ 20:15:00

## Tool Information

Drill Pipe:	Length: 3629.00 ft	Diameter: 3.80 inches	Volume: 50.91 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 186.00 ft	Diameter: 2.25 inches	Volume: 0.91 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 51.82 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	34.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3809.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	76.00 ft			
Tool Length:	104.00 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			3786.00	
Hydraulic tool	5.00			3791.00	
Jars	5.00			3796.00	
Safety Joint	3.00			3799.00	
Packer	5.00			3804.00	28.00 Bottom Of Top Packer
Packer	5.00			3809.00	
Stubb	1.00			3810.00	
Recorder	0.00	8791	Inside	3810.00	
Recorder	0.00	8651	Outside	3810.00	
Perforations	5.00			3815.00	
change Over Sub	1.00			3816.00	
Drill Pipe	63.00			3879.00	
Change Over Sub	1.00			3880.00	
Perforations	2.00			3882.00	
Bullnose	3.00			3885.00	76.00 Bottom Packers & Anchor

**Total Tool Length: 104.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Murfin Drilling Co.

**15-2s-29w Decatur,KS**

250 N. Water Ste 300  
Wichita KS 67202

**Luetta #1-15**

Job Ticket: 50669

**DST#: 3**

ATTN: Bob Stolzle

Test Start: 2013.05.04 @ 20:15:00

## 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: 62.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1700.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	mud -100%m	0.098

Total Length: 20.00 ft      Total Volume: 0.098 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

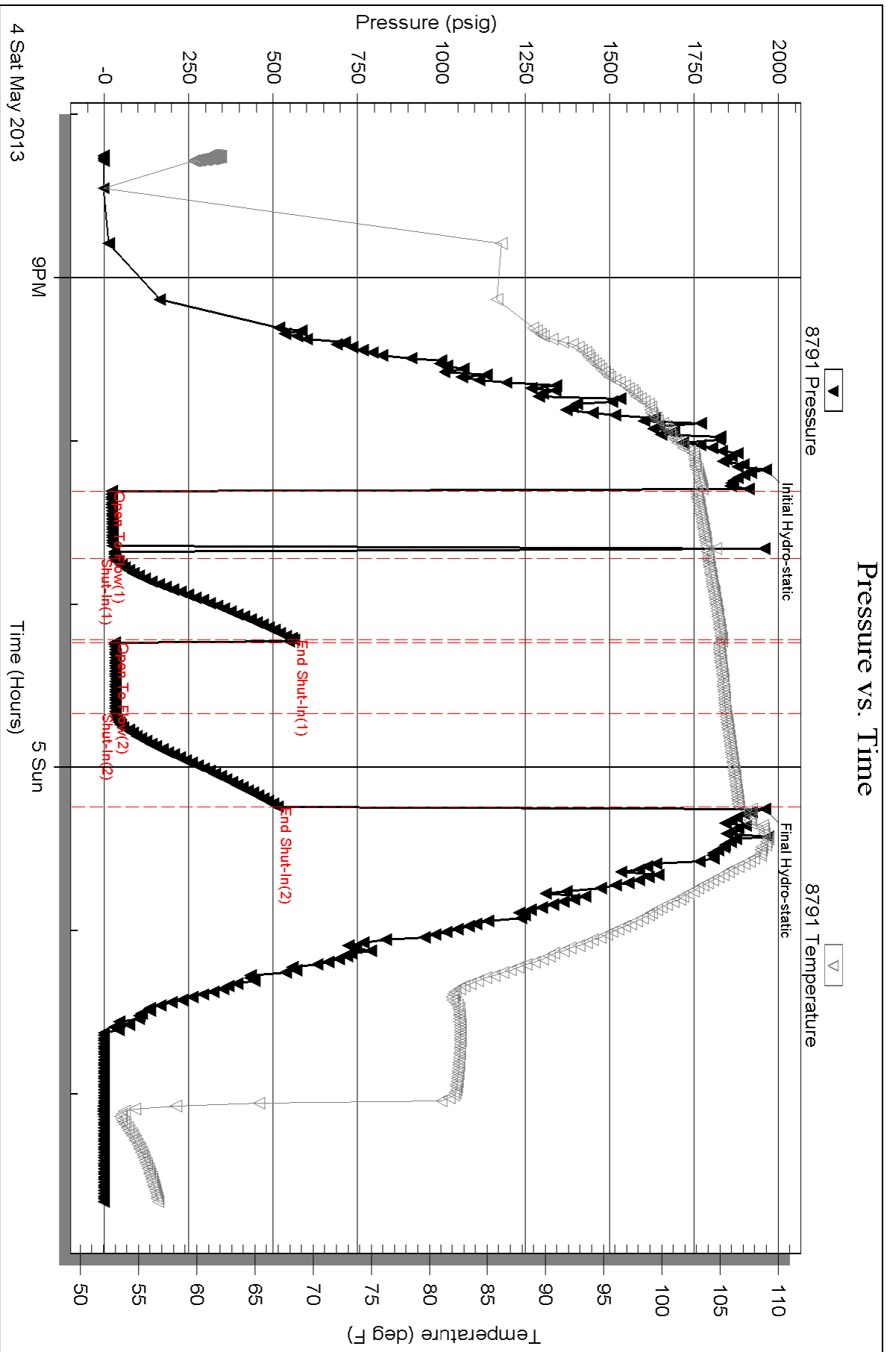
Serial #: 8791

Inside

Murfin Drilling Co.

Luetta #1-15

DST Test Number: 3

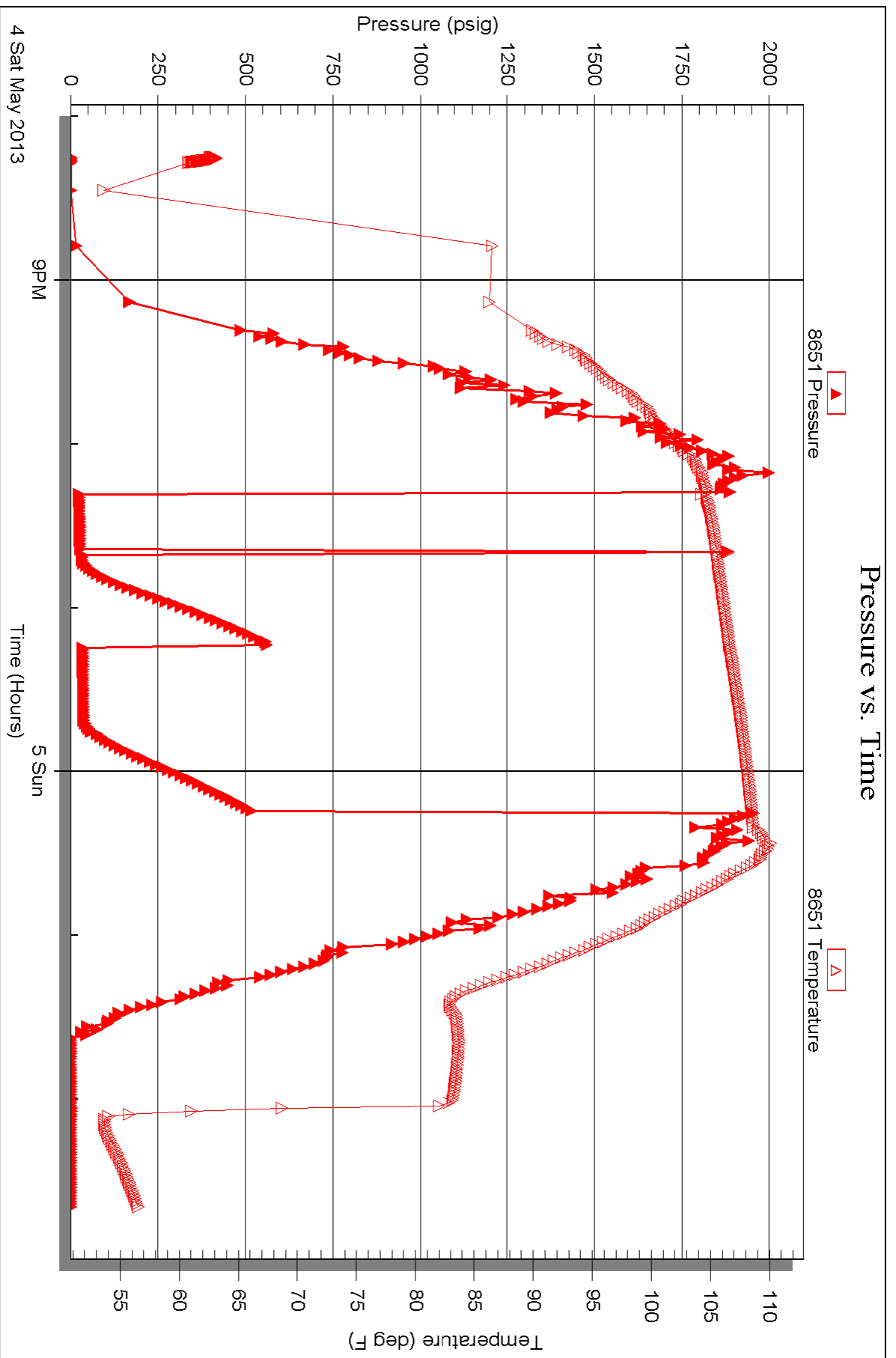


Serial #: 8651

Outside Murfin Drilling Co.

Luetta #1-15

DST Test Number: 3





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 50667

4/10

Well Name & No. Luetta # 1-15 Test No. 1 Date 5-3-2012  
 Company Murfin Drilling Co. Elevation 2679 KB 2674 GL  
 Address 250 N. Water St. 300 Wichita Ks. 67202  
 Co. Rep / Geo. Bob Stolzle Rig Murfin # 8  
 Location: Sec. 15 Twp. 25 Rge. 29W Co. Decatur State Ks

Interval Tested 3639 3705 Zone Tested LKL-A  
 Anchor Length 66 Drill Pipe Run 3443 Mud Wt. 8.8  
 Top Packer Depth 3634 Drill Collars Run 188 Vis 57  
 Bottom Packer Depth 3639 Wt. Pipe Run -0- WL 5.2  
 Total Depth 3705 Chlorides 1,000 ppm System LCM 3#

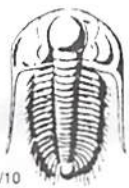
Blow Description IF: Weak blow, 1/4 in. after 5 mins. Blow died to surface after 10 mins. Dead in 20 mins.  
ISI: No blow back  
FF: No blow  
FSI: No blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>124</u>	<u>80 mud with a1 sps</u>				
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 124 BHT 109 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ ° F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 1862  Test 1150 T-On Location 3:10  
 (B) First Initial Flow 19  Jars 250 T-Started 4:50  
 (C) First Final Flow 49  Safety Joint 75 T-Open 7:47  
 (D) Initial Shut-In 1203  Circ Sub \_\_\_\_\_ T-Pulled 10:45  
 (E) Second Initial Flow 48  Hourly Standby \_\_\_\_\_ T-Out 12:45  
 (F) Second Final Flow 62  Mileage 5X2 = 10X1.55 = 15.50 Comments \_\_\_\_\_  
 (G) Final Shut-In 1191  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1814  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_ Sub Total 0  
 Day Standby \_\_\_\_\_ Total 1490.50  
 Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 1490.50

Approved By \_\_\_\_\_ Our Representative Chuck Pugh  
 Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 50668

Well Name & No. Luetta # 1-15 Test No. 2 Date 5-4-2013  
 Company Murfin Drilling Co. Elevation 2674 KB 2674 GL  
 Address 250 N. Water Ste. 300 Wichita Ks. 67202  
 Co. Rep / Geo. Bob Stolzle Rig Murfin #8  
 Location: Sec. 15 Twp. 2S Rge. 29W Co. Decatur State Ks.

Interval Tested 3691 3820 Zone Tested LKC - D, G, H  
 Anchor Length 129 Drill Pipe Run 3497 Mud Wt. 9.1  
 Top Packer Depth 3686 Drill Collars Run 186 Vis 50  
 Bottom Packer Depth 3691 Wt. Pipe Run - 0 - WL 6.0  
 Total Depth 3820 Chlorides 1,300 ppm System LCM 6#

Blow Description IF: Weak blow 1/4 in. Died in 25 mins.

ISF: No blow back

FF: No blow

FST: No blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u>	<u>oil</u>		<u>100</u>		
<u>60</u>	<u>ocm</u>		<u>30</u>		<u>70</u>

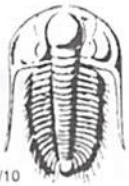
Rec Total 80 BHT 107 Gravity 31 API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 1922  Test 1150 T-On Location 4:20  
 (B) First Initial Flow 36  Jars 250 T-Started 4:20  
 (C) First Final Flow 48  Safety Joint 75 T-Open 6:11  
 (D) Initial Shut-In 155  Circ Sub \_\_\_\_\_ T-Pulled 9:15  
 (E) Second Initial Flow 51  Hourly Standby \_\_\_\_\_ T-Out 11:19  
 (F) Second Final Flow 59  Mileage 5x2=10x 1.55 15.50 Comments \_\_\_\_\_  
 (G) Final Shut-In 117  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1903  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Open 30  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Initial Shut-In 60  Day Standby \_\_\_\_\_ Total 1490.50  
 Final Flow 30  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Final Shut-In 60 Sub Total 1490.50

Approved By \_\_\_\_\_

Our Representative Chris Hoot

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 50669

Well Name & No. Luetta # 1-15 Test No. 3 Date 9-4-2013  
 Company Murfin Drilling Co. Elevation 2679 KB 2674 GL  
 Address 250 N. Water St., 300 Wichita KS 67202  
 Co. Rep / Geo. Bob Stolzle Rig Murfin #8  
 Location: Sec. 15 Twp. 25 Rge. 29W Co. Decatur State Ks.

Interval Tested 3809 3885 Zone Tested LKC-JEK  
 Anchor Length 76 Drill Pipe Run 3629 Mud Wt. 9.0  
 Top Packer Depth 3804 Drill Collars Run 186 Vis 62  
 Bottom Packer Depth 3809 Wt. Pipe Run - 0 - WL 6.4  
 Total Depth 3885 Chlorides 1,700 ppm System LCM 5#

Blow Description FF: Weak blow Dead in 5 mins. Flushed tool 25 MINS in. Weak blow Died in secs.  
ISF: NO blow back

FF: NO blow

FST: No blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u>	<u>mvd</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 20 BHT 106 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 1963  Test 1150 T-On Location 20:00  
 (B) First Initial Flow 22  Jars 250 T-Started 20:15  
 (C) First Final Flow 31  Safety Joint 75 T-Open 22:18  
 (D) Initial Shut-In 563  Circ Sub \_\_\_\_\_ T-Pulled 00:15  
 (E) Second Initial Flow 31  Hourly Standby \_\_\_\_\_ T-Out 2:40  
 (F) Second Final Flow 34  Mileage 5x2 = 10x1.55 = 15.50 Comments \_\_\_\_\_  
 (G) Final Shut-In 514  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1959  Straddle \_\_\_\_\_

Ruined Shale Packer \_\_\_\_\_  
 Ruined Packer \_\_\_\_\_  
 Extra Copies \_\_\_\_\_  
 Initial Open 30  Shale Packer \_\_\_\_\_  
 Initial Shut-In 30  Extra Packer \_\_\_\_\_  
 Final Flow 30  Extra Recorder \_\_\_\_\_  
 Final Shut-In 30  Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_  
 Sub Total 1490.50 Total 1490.50  
 MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative [Signature]

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