



## DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co., Inc.**

250 N Water STE #300  
Wichita, KS 67202

ATTN: Robert Hendrix

### **Pancirni #2-7**

#### **7-2s-36w Rawlins, KS**

Start Date: 2014.12.29 @ 03:40:00

End Date: 2014.12.29 @ 12:16:30

Job Ticket #: 61108                      DST #: 1

Trilobite Testing, Inc  
1515 Commerce Parkway Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2015.01.09 @ 16:20:25



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

**7-2s-36w Rawlins, KS**

250 N Water STE #300  
Wichita, KS 67202

**Pancirni #2-7**

Job Ticket: 61108

**DST#: 1**

ATTN: Robert Hendrix

Test Start: 2014.12.29 @ 03:40:00

## GENERAL INFORMATION:

Formation: **Oread**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:09:00

Time Test Ended: 12:16:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Kevin Mack

Unit No: 82

**Interval: 418.00 ft (KB) To 4242.00 ft (KB) (TVD)**

Reference Elevations: 3383.00 ft (KB)

Total Depth: 4242.00 ft (KB) (TVD)

3372.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

**Serial #: 8874 Inside**

Press@RunDepth: 142.69 psig @ 4182.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.12.29

End Date: 2014.12.29

Last Calib.: 2014.12.29

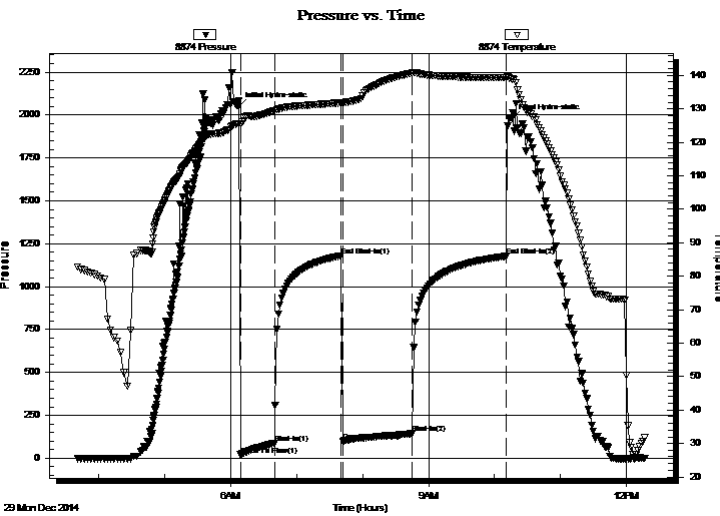
Start Time: 03:41:00

End Time: 12:16:30

Time On Btm: 2014.12.29 @ 06:07:00

Time Off Btm: 2014.12.29 @ 10:16:00

**TEST COMMENT:** 30 - IF- 3/4" Blow built to 8"  
60 - IS- No Return  
60 - FF- Surface Blow started at 7 min. Built to 7 3/4"  
90 - FS- No Return



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2047.34	125.56	Initial Hydro-static
2	20.06	125.51	Open To Flow (1)
33	87.72	129.37	Shut-In(1)
94	1179.96	131.84	End Shut-In(1)
95	96.84	131.56	Open To Flow (2)
158	142.69	140.71	Shut-In(2)
244	1176.77	139.35	End Shut-In(2)
249	1980.43	138.93	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	OCMW 5o 10M 85W	0.30
60.00	OCMW 10o 60W 30M	0.30
60.00	OCWM 5o 35W 60M	0.30
86.00	OCMW 5o 15W 80M	0.97
5.00	Free Oil 100o	0.07

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Murfin Drilling Co., Inc.

**7-2s-36w Rawlins, KS**

250 N Water STE #300  
Wichita, KS 67202

**Pancirni #2-7**

Job Ticket: 61108

**DST#: 1**

ATTN: Robert Hendrix

Test Start: 2014.12.29 @ 03:40:00

## Tool Information

Drill Pipe:	Length: 3972.00 ft	Diameter: 3.80 inches	Volume: 55.72 bbl	Tool Weight:	2500.00 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: 206.00 ft	Diameter: 2.25 inches	Volume: 1.01 bbl	Weight to Pull Loose:	65000.00 lb
			<u>Total Volume: 56.73 bbl</u>	Tool Chased	ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial	60000.00 lb
Depth to Top Packer:	4181.00 ft			Final	63000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	61.00 ft				
Tool Length:	89.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4154.00	
Shut In Tool	5.00			4159.00	
Hydraulic tool	5.00			4164.00	
Jars	5.00			4169.00	
Safety Joint	3.00			4172.00	
Packer	5.00			4177.00	28.00 Bottom Of Top Packer
Packer	4.00			4181.00	
Stubb	1.00			4182.00	
Recorder	0.00	8653	Outside	4182.00	
Recorder	0.00	8874	Inside	4182.00	
Perforations	21.00			4203.00	
Change Over Sub	1.00			4204.00	
Drill Pipe	32.00			4236.00	
Change Over Sub	1.00			4237.00	
Bullnose	5.00			4242.00	61.00 Bottom Packers & Anchor

**Total Tool Length: 89.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Murfin Drilling Co., Inc.

**7-2s-36w Rawlins, KS**

250 N Water STE #300  
Wichita, KS 67202

**Pancirni #2-7**

Job Ticket: 61108

**DST#: 1**

ATTN: Robert Hendrix

Test Start: 2014.12.29 @ 03:40:00

## 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:

33000 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.58 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 600.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
60.00	OCMW 5o 10M 85W	0.295
60.00	OCMW 10o 60W 30M	0.295
60.00	OCWM 5o 35W 60M	0.295
86.00	OCMW 5o 15W 80M	0.970
5.00	Free Oil 100o	0.070

Total Length: 271.00 ft      Total Volume: 1.925 bbl

Num Fluid Samples: 0

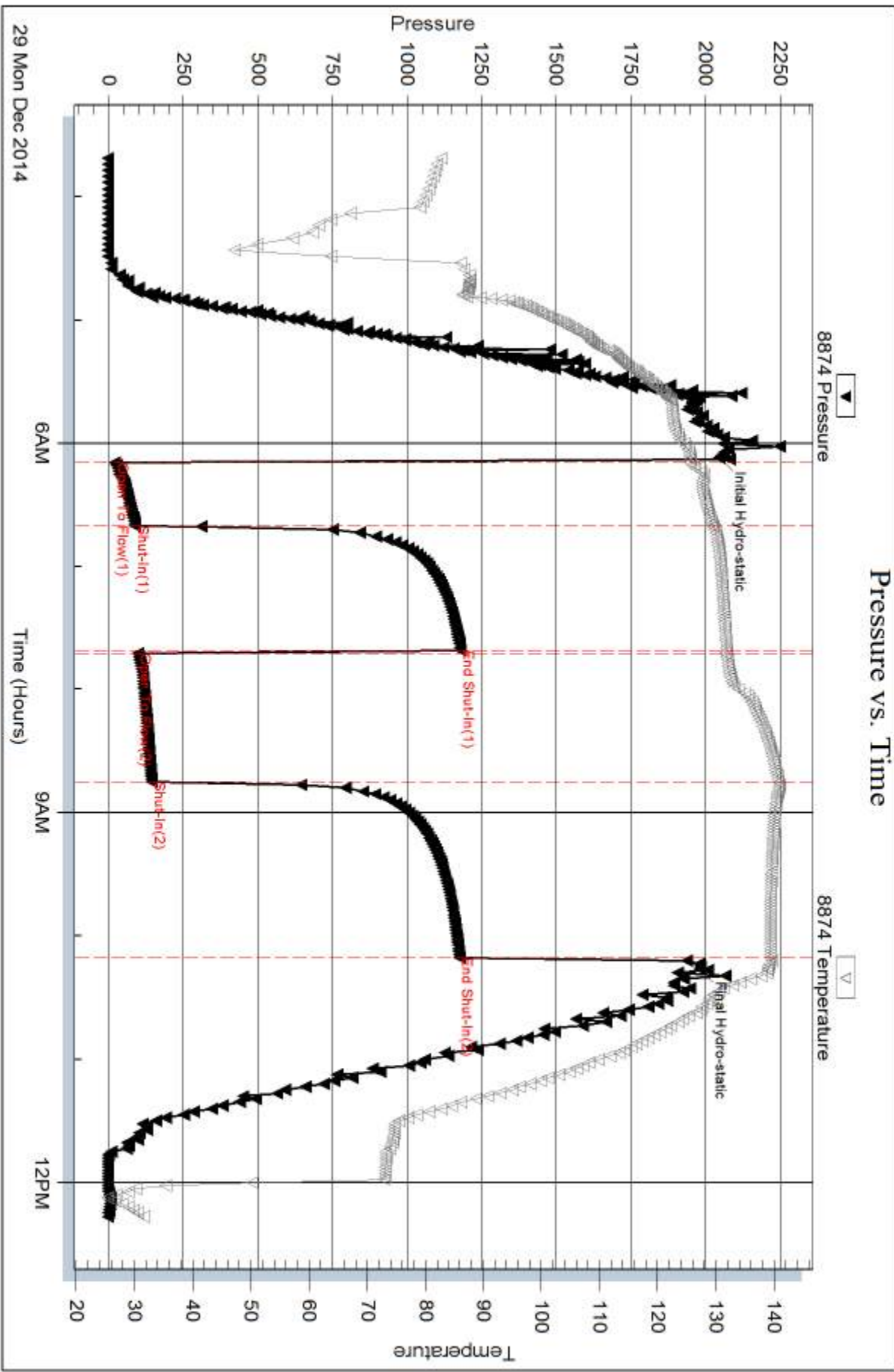
Num Gas Bombs: 0

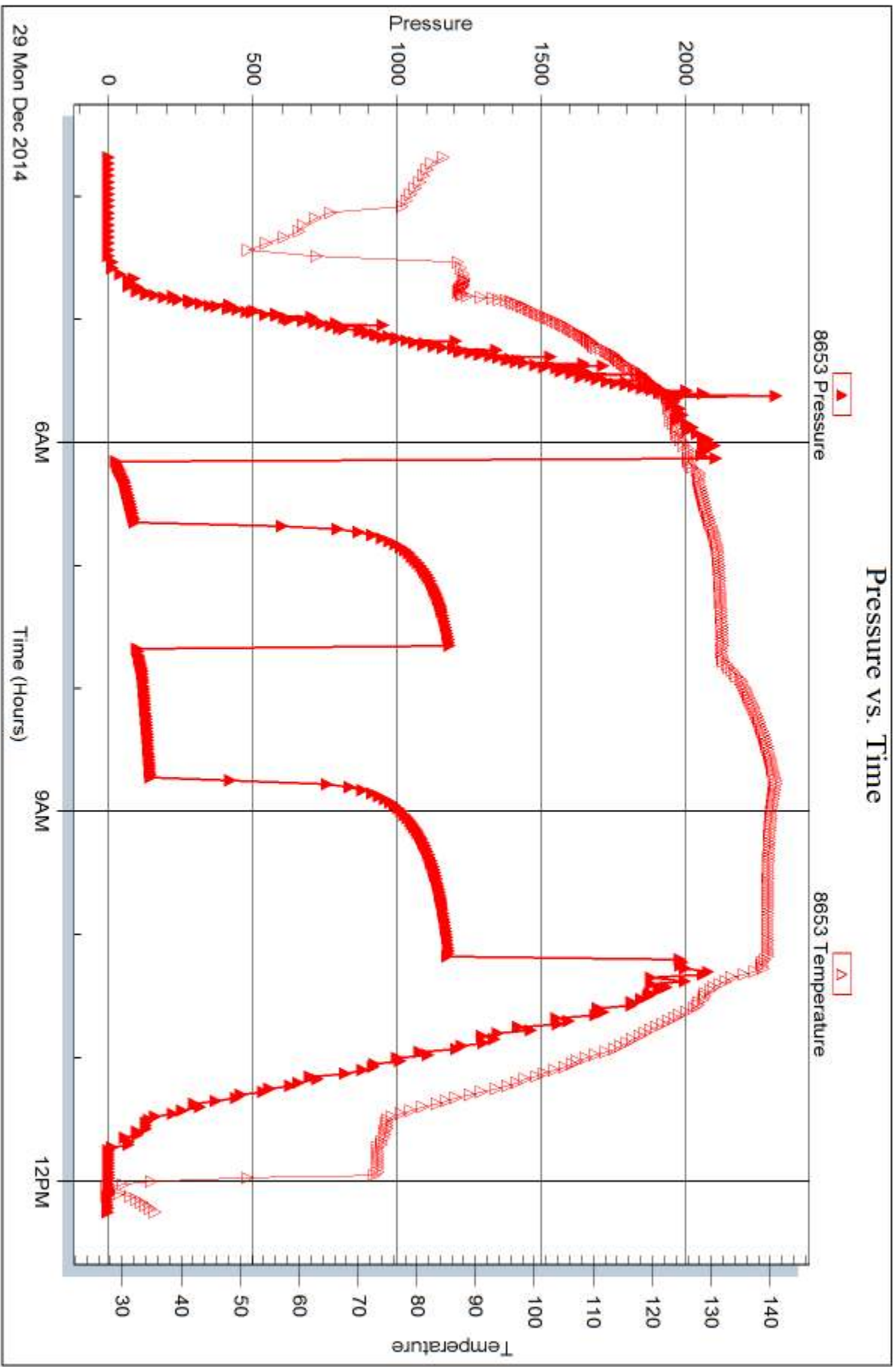
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .36 @ 42 deg = 33,000ppm







## DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co., Inc.**

250 N Water STE #300  
Wichita, KS 67202

ATTN: Robert Hendrix

### **Pancirni #2-7**

#### **7-2s-36w Rawlins, KS**

Start Date: 2015.01.02 @ 20:10:00

End Date: 2015.01.03 @ 04:44:00

Job Ticket #: 61109                      DST #: 2

Trilobite Testing, Inc  
1515 Commerce Parkway Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2015.01.09 @ 16:20:02





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

**7-2s-36w Rawlins, KS**

250 N Water STE #300  
Wichita, KS 67202

**Pancirni #2-7**

Job Ticket: 61109

**DST#: 2**

ATTN: Robert Hendrix

Test Start: 2015.01.02 @ 20:10:00

## GENERAL INFORMATION:

Formation: **LKC "D"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:53:10

Time Test Ended: 04:44:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Kevin Mack

Unit No: 82

**Interval: 4325.00 ft (KB) To 4394.00 ft (KB) (TVD)**

Reference Elevations: 3383.00 ft (KB)

Total Depth: 4394.00 ft (KB) (TVD)

3372.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

**Serial #: 8874**

**Inside**

Press@RunDepth: 518.46 psig @ 4326.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.01.02

End Date: 2015.01.03

Last Calib.: 2015.01.03

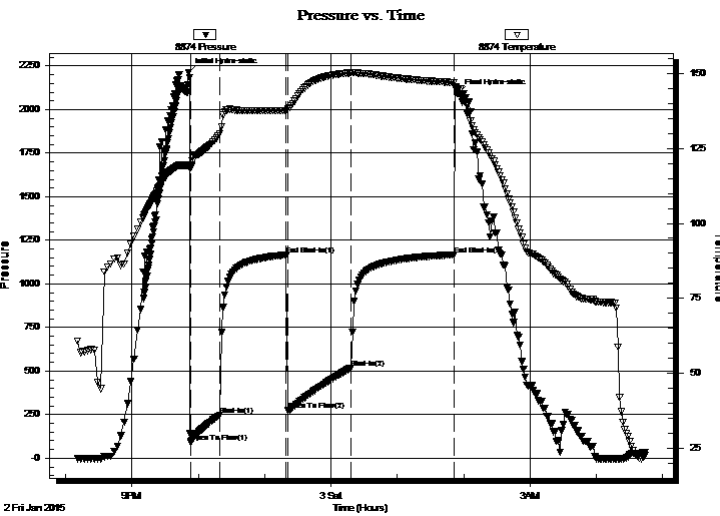
Start Time: 20:11:00

End Time: 04:44:00

Time On Btm: 2015.01.02 @ 21:51:30

Time Off Btm: 2015.01.03 @ 01:54:30

**TEST COMMENT:** 30 - IF- BoB in 10 min.  
60 - IS- Surface Return started at 1 min. Built to 4 3/4"  
60 - FF- BoB in 8 min.  
90 - FS- Surface Return started at 1 min. Built to 4 1/4"



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2210.47	119.16	Initial Hydro-static
2	92.57	118.69	Open To Flow (1)
28	247.50	130.05	Shut-In(1)
88	1166.55	137.72	End Shut-In(1)
90	272.80	138.24	Open To Flow (2)
147	518.46	150.26	Shut-In(2)
240	1167.11	147.03	End Shut-In(2)
243	2092.58	145.05	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
242.00	OCMW 5o 5M 90W	1.52
315.00	GOCMW 5G 5o 30M 60W	4.42
252.00	GOCMW 10G 10o 30M 50W	3.53
126.00	GOCWM 10G 30o 30W 30M	1.77
229.00	CGO 20G 80o	3.21
0.00	315' GIP	0.00

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Murfin Drilling Co., Inc.

**7-2s-36w Rawlins, KS**

250 N Water STE #300  
Wichita, KS 67202

**Pancirni #2-7**

Job Ticket: 61109

**DST#: 2**

ATTN: Robert Hendrix

Test Start: 2015.01.02 @ 20:10:00

## Tool Information

Drill Pipe:	Length: 4101.00 ft	Diameter: 3.80 inches	Volume: 57.53 bbl	Tool Weight:	2500.00 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: 206.00 ft	Diameter: 2.25 inches	Volume: 1.01 bbl	Weight to Pull Loose:	75000.00 lb
			<u>Total Volume: 58.54 bbl</u>	Tool Chased	ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial	60000.00 lb
Depth to Top Packer:	4325.00 ft			Final	68000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	69.00 ft				
Tool Length:	97.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4298.00	
Shut In Tool	5.00			4303.00	
Hydraulic tool	5.00			4308.00	
Jars	5.00			4313.00	
Safety Joint	3.00			4316.00	
Packer	5.00			4321.00	28.00 Bottom Of Top Packer
Packer	4.00			4325.00	
Stubb	1.00			4326.00	
Recorder	0.00	8653	Outside	4326.00	
Recorder	0.00	8874	Inside	4326.00	
Perforations	29.00			4355.00	
Change Over Sub	1.00			4356.00	
Drill Pipe	32.00			4388.00	
Change Over Sub	1.00			4389.00	
Bullnose	5.00			4394.00	69.00 Bottom Packers & Anchor

**Total Tool Length: 97.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Murfin Drilling Co., Inc.

**7-2s-36w Rawlins, KS**

250 N Water STE #300  
Wichita, KS 67202

**Pancirni #2-7**

Job Ticket: 61109

**DST#: 2**

ATTN: Robert Hendrix

Test Start: 2015.01.02 @ 20:10:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

29 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

33000 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

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

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 700.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
242.00	OCMW 5o 5M 90W	1.518
315.00	GOCMW 5G 5o 30M 60W	4.419
252.00	GOCMW 10G 10o 30M 50W	3.535
126.00	GOCWM 10G 30o 30W 30M	1.767
229.00	CGO 20G 80o	3.212
0.00	315' GIP	0.000

Total Length: 1164.00 ft      Total Volume: 14.451 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

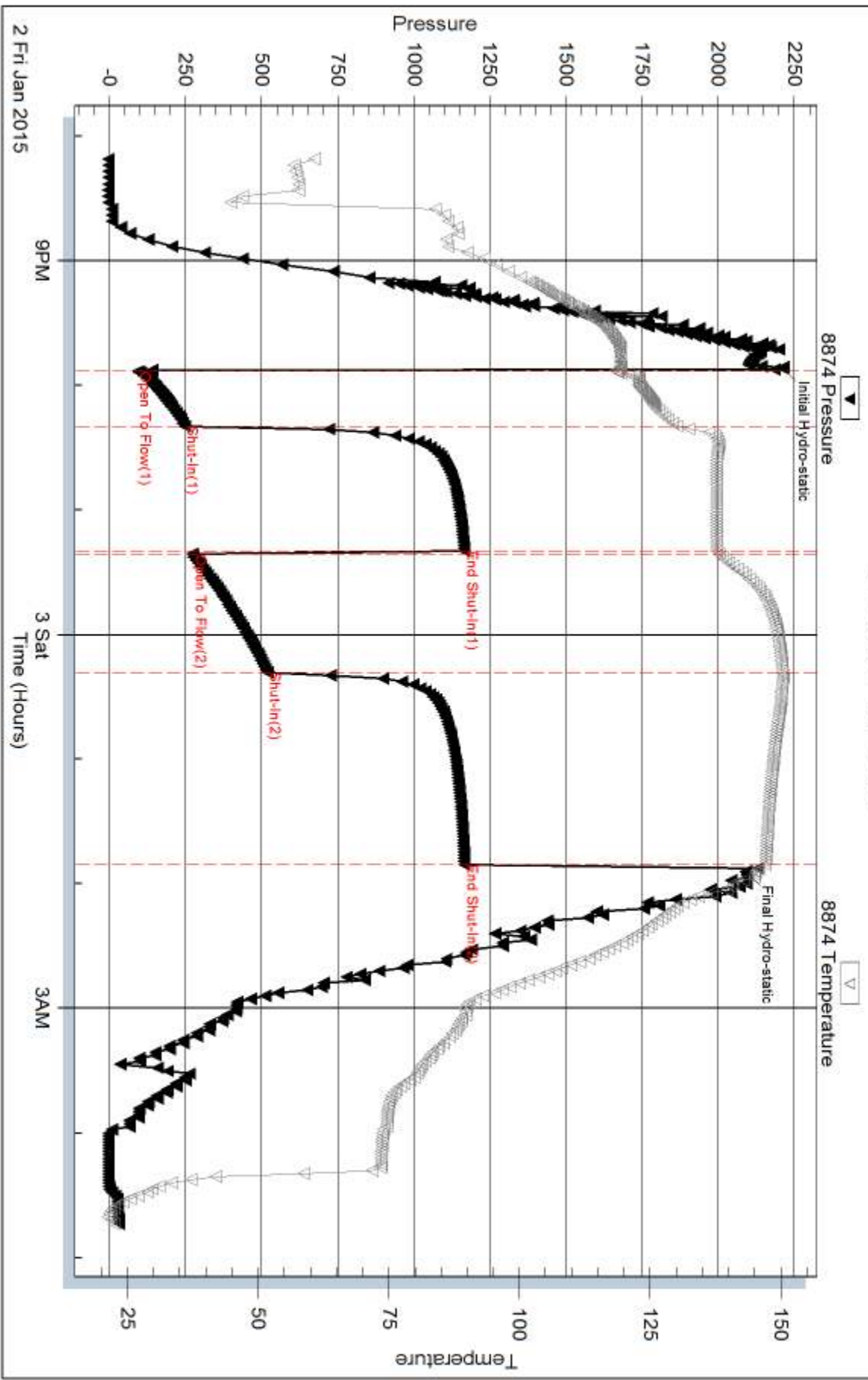
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Oil API 30 @ 70 deg = 29 corrected  
RW .39 @ 42 = 33000ppm

### Pressure vs. Time

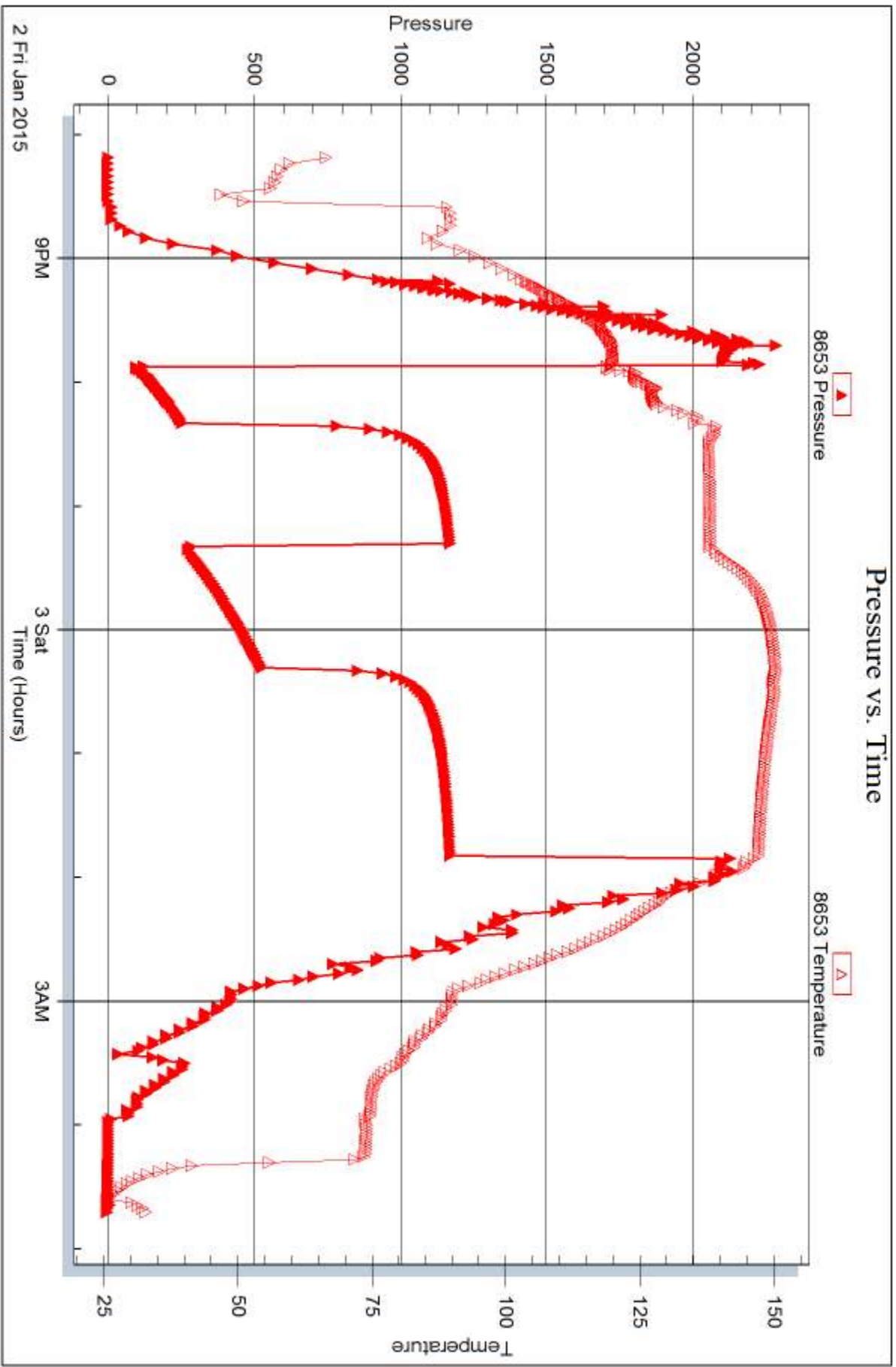


Serial #: 8653

Outside Murfin Drilling Co., Inc.

Pancini#2-7

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 61109

Printed: 2015.01.09 @ 16:20:03



## DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co., Inc.**

250 N Water STE #300  
Wichita, KS 67202

ATTN: Robert Hendrix

### **Pancirni #2-7**

#### **7-2s-36w Rawlins, KS**

Start Date: 2015.01.03 @ 13:51:00

End Date: 2015.01.03 @ 21:43:00

Job Ticket #: 61110                      DST #: 3

Trilobite Testing, Inc  
1515 Commerce Parkway Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2015.01.09 @ 16:19:42



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

**7-2s-36w Rawlins, KS**

250 N Water STE #300  
Wichita, KS 67202

**Pancirni #2-7**

Job Ticket: 61110

**DST#: 3**

ATTN: Robert Hendrix

Test Start: 2015.01.03 @ 13:51:00

## GENERAL INFORMATION:

Formation: **LKC "G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:23:00

Time Test Ended: 21:43:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Kevin Mack

Unit No: 82

**Interval: 4401.00 ft (KB) To 4454.00 ft (KB) (TVD)**

Reference Elevations: 3383.00 ft (KB)

Total Depth: 4454.00 ft (KB) (TVD)

3372.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

**Serial #: 8653 Outside**

Press@RunDepth: 39.40 psig @ 4402.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.01.03

End Date:

2015.01.03

Last Calib.:

2015.01.03

Start Time: 13:52:00

End Time:

21:43:00

Time On Btm:

2015.01.03 @ 16:21:00

Time Off Btm:

2015.01.03 @ 19:36:00

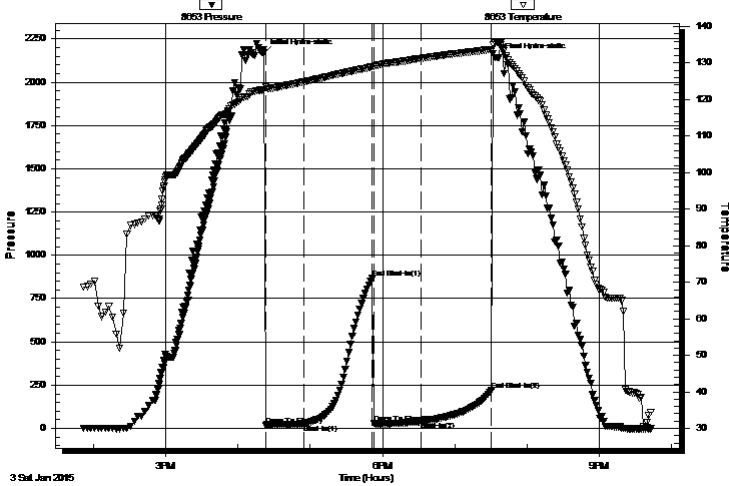
TEST COMMENT: 30 - IF- 1/4" Blow did not build or die.

60 - IS- No Return

30 - FF- No Blow

60 - FS- No Return

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2164.59	122.68	Initial Hydro-static
2	20.01	123.39	Open To Flow (1)
34	25.05	124.85	Shut-In(1)
91	869.09	128.96	End Shut-In(1)
92	29.85	129.05	Open To Flow (2)
131	39.40	131.30	Shut-In(2)
190	222.56	133.75	End Shut-In(2)
195	2141.89	135.66	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	OSM 100M (oil spots)	0.02
1.00	Free Oil 100o	0.00

## Gas Rates

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







**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Murfin Drilling Co., Inc.

**7-2s-36w Rawlins, KS**

250 N Water STE #300  
Wichita, KS 67202

**Pancirni #2-7**

Job Ticket: 61110

**DST#: 3**

ATTN: Robert Hendrix

Test Start: 2015.01.03 @ 13:51:00

## Tool Information

Drill Pipe:	Length: 4193.00 ft	Diameter: 3.80 inches	Volume: 58.82 bbl	Tool Weight: 2500.00 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: 206.00 ft	Diameter: 2.25 inches	Volume: 1.01 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 59.83 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4401.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	53.00 ft			
Tool Length:	81.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4374.00	
Shut In Tool	5.00			4379.00	
Hydraulic tool	5.00			4384.00	
Jars	5.00			4389.00	
Safety Joint	3.00			4392.00	
Packer	5.00			4397.00	28.00 Bottom Of Top Packer
Packer	4.00			4401.00	
Stubb	1.00			4402.00	
Recorder	0.00	8653	Outside	4402.00	
Recorder	0.00	8874	Inside	4402.00	
Perforations	13.00			4415.00	
Change Over Sub	1.00			4416.00	
Drill Pipe	32.00			4448.00	
Change Over Sub	1.00			4449.00	
Bullnose	5.00			4454.00	53.00 Bottom Packers & Anchor

**Total Tool Length: 81.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Murfin Drilling Co., Inc.

**7-2s-36w Rawlins, KS**

250 N Water STE #300  
Wichita, KS 67202

**Pancirni #2-7**

Job Ticket: 61110

**DST#: 3**

ATTN: Robert Hendrix

Test Start: 2015.01.03 @ 13:51:00

## Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 54.00 sec/qt

Water Loss: 6.79 in<sup>3</sup>

Resistivity: 0.00 ohm.m

Salinity: 700.00 ppm

Filter Cake: 2.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	OSM 100M (oil spots)	0.025
1.00	Free Oil 100o	0.005

Total Length: 6.00 ft      Total Volume: 0.030 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

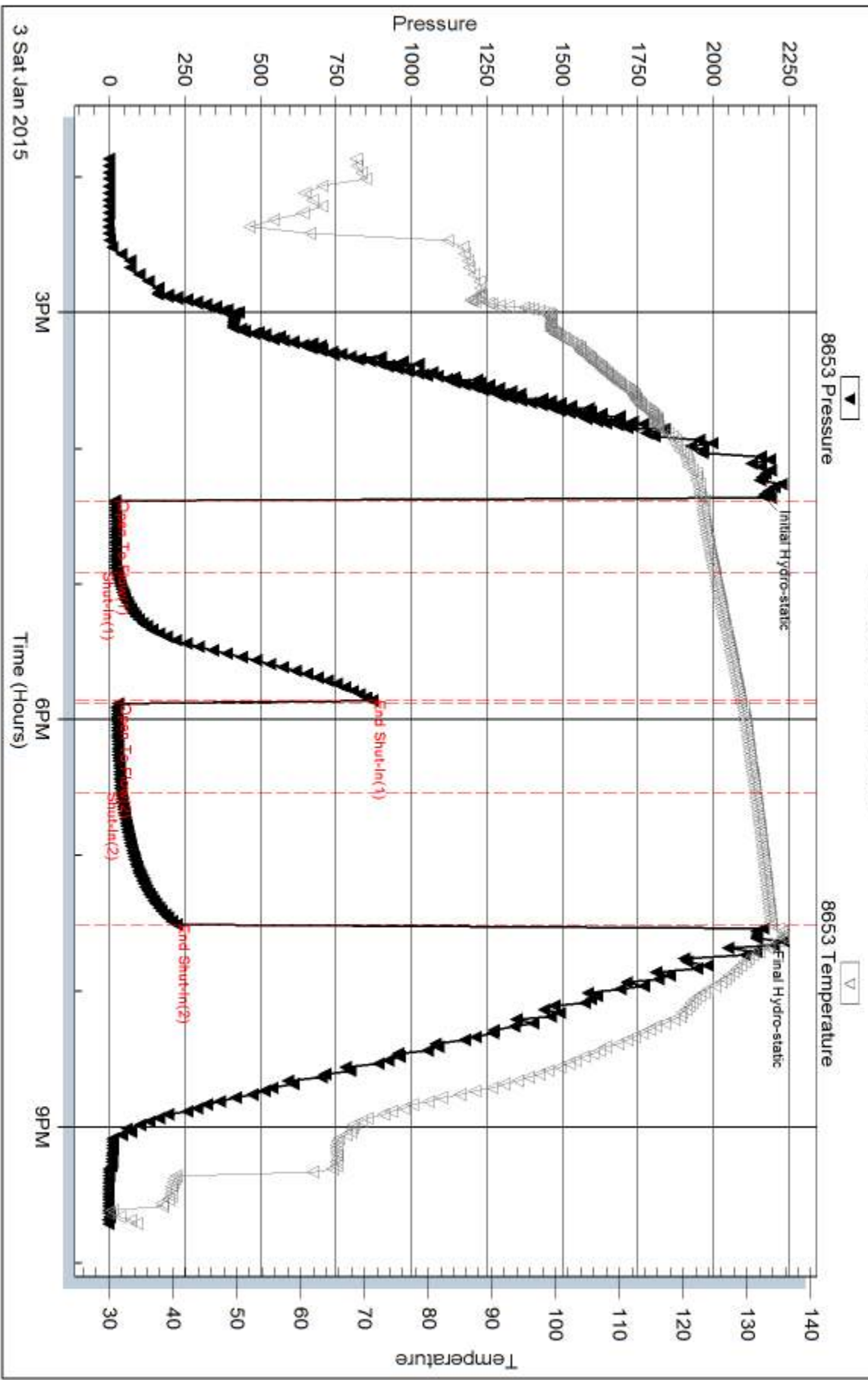
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time



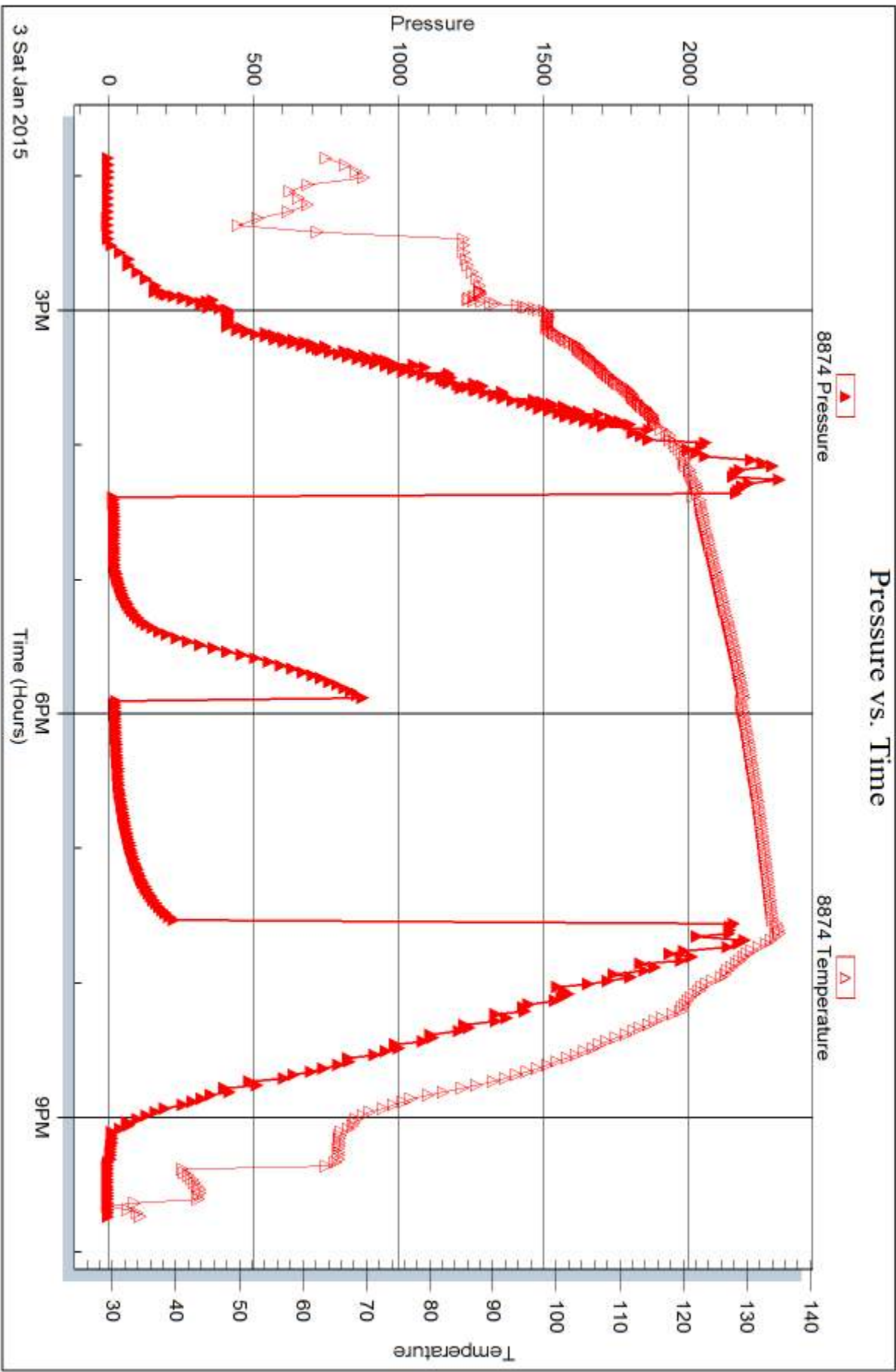
Serial #: 8874

Inside

Murfin Drilling Co., Inc.

Pancini#2-7

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 61110

Printed: 2015.01.09 @ 16:19:43



## DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co., Inc.**

250 N Water STE #300  
Wichita, KS 67202

ATTN: Robert Hendrix

### **Pancirni #2-7**

#### **7-2s-36w Rawlins, KS**

Start Date: 2015.01.04 @ 09:38:00

End Date: 2015.01.04 @ 18:00:30

Job Ticket #: 61111                      DST #: 4

Trilobite Testing, Inc  
1515 Commerce Parkway Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2015.01.09 @ 16:19:20



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

**7-2s-36w Rawlins, KS**

250 N Water STE #300  
Wichita, KS 67202

**Pancirni #2-7**

Job Ticket: 61111

**DST#: 4**

ATTN: Robert Hendrix

Test Start: 2015.01.04 @ 09:38:00

## GENERAL INFORMATION:

Formation: **LKC "H-J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:40:30

Time Test Ended: 18:00:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Kevin Mack

Unit No: 82

**Interval: 4445.00 ft (KB) To 4530.00 ft (KB) (TVD)**

Reference Elevations: 3383.00 ft (KB)

Total Depth: 4530.00 ft (KB) (TVD)

3372.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

**Serial #: 8874**

**Inside**

Press@RunDepth: 35.87 psig @ 4446.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.01.04

End Date:

2015.01.04

Last Calib.:

2015.01.04

Start Time: 09:39:00

End Time:

18:00:30

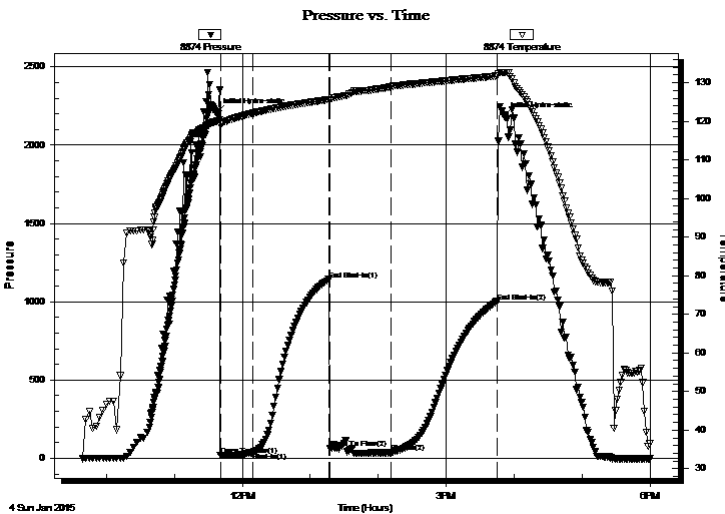
Time On Btm:

2015.01.04 @ 11:37:40

Time Off Btm:

**TEST COMMENT:** 30 - IF- 1/4" Blow built to 2"  
60 - IS- No Return  
60 - FF- Surface Blow started at 10 min. Built to 1 1/4"  
90 - FS- No Return

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2206.30	120.04	Initial Hydro-static
3	20.51	119.49	Open To Flow (1)
32	37.45	122.09	Shut-In(1)
99	1142.23	125.58	End Shut-In(1)
100	63.32	125.55	Open To Flow (2)
154	35.87	129.02	Shut-In(2)
247	1001.97	131.72	End Shut-In(2)
254	2185.41	132.67	Initial Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
50.00	OCM 20o 80M	0.25

## Gas Rates

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







**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Murfin Drilling Co., Inc.

**7-2s-36w Rawlins, KS**

250 N Water STE #300  
Wichita, KS 67202

**Pancirni #2-7**

Job Ticket: 61111

**DST#: 4**

ATTN: Robert Hendrix

Test Start: 2015.01.04 @ 09:38:00

## Tool Information

Drill Pipe:	Length: 4227.00 ft	Diameter: 3.80 inches	Volume: 59.29 bbl	Tool Weight: 2500.00 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: 206.00 ft	Diameter: 2.25 inches	Volume: 1.01 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 60.30 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4445.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	85.00 ft			
Tool Length:	113.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4418.00	
Shut In Tool	5.00			4423.00	
Hydraulic tool	5.00			4428.00	
Jars	5.00			4433.00	
Safety Joint	3.00			4436.00	
Packer	5.00			4441.00	28.00 Bottom Of Top Packer
Packer	4.00			4445.00	
Stubb	1.00			4446.00	
Recorder	0.00	8653	Outside	4446.00	
Recorder	0.00	8874	Inside	4446.00	
Perforations	14.00			4460.00	
Change Over Sub	1.00			4461.00	
Drill Pipe	63.00			4524.00	
Change Over Sub	1.00			4525.00	
Bullnose	5.00			4530.00	85.00 Bottom Packers & Anchor

**Total Tool Length: 113.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Murfin Drilling Co., Inc.

**7-2s-36w Rawlins, KS**

250 N Water STE #300  
Wichita, KS 67202

**Pancirni #2-7**

Job Ticket: 61111

**DST#: 4**

ATTN: Robert Hendrix

Test Start: 2015.01.04 @ 09:38:00

## 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: 73.00 sec/qt

Cushion Volume:

bbbl

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

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 800.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
50.00	OCM 20o 80M	0.246

Total Length: 50.00 ft      Total Volume: 0.246 bbl

Num Fluid Samples: 0

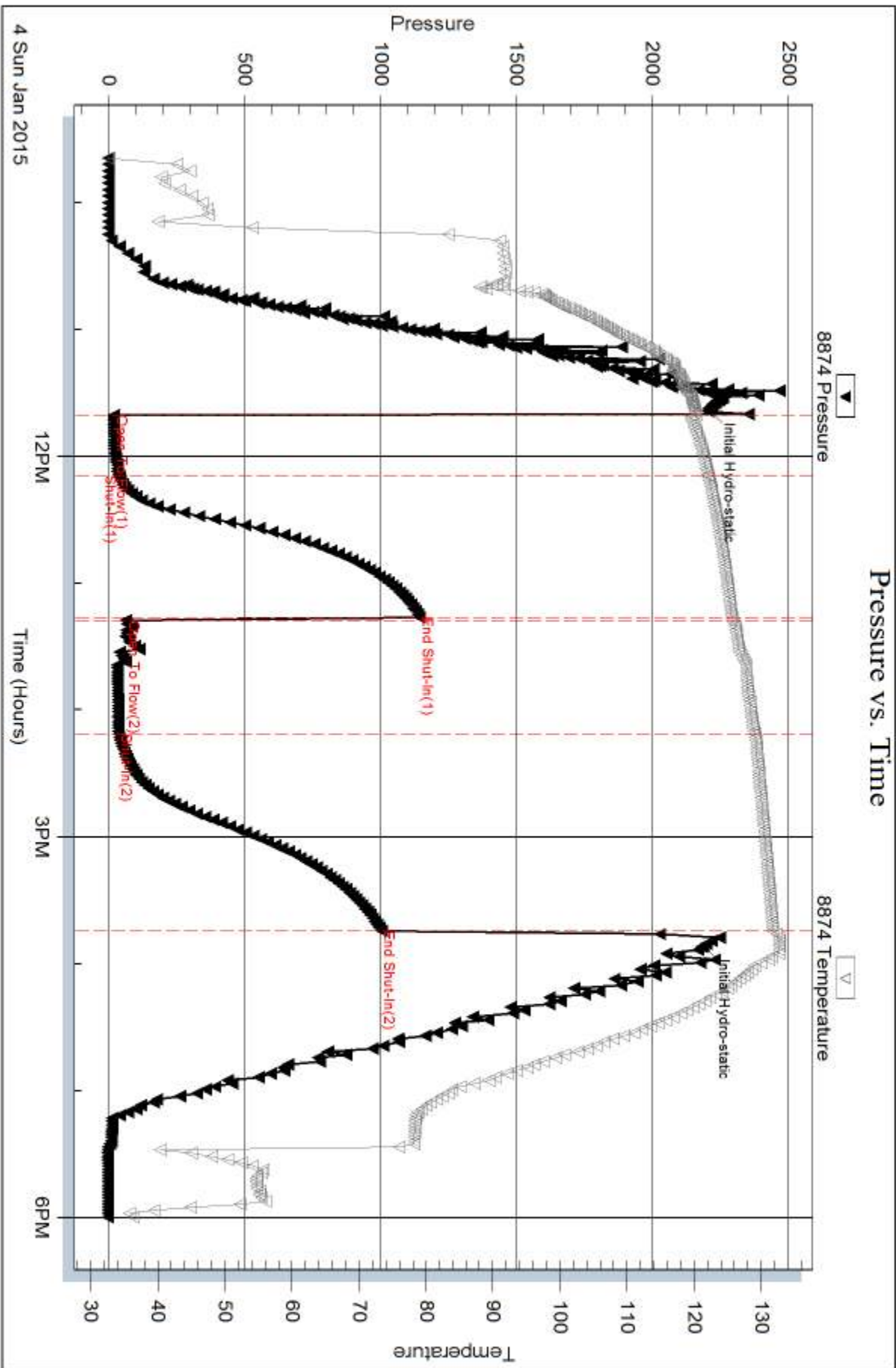
Num Gas Bombs: 0

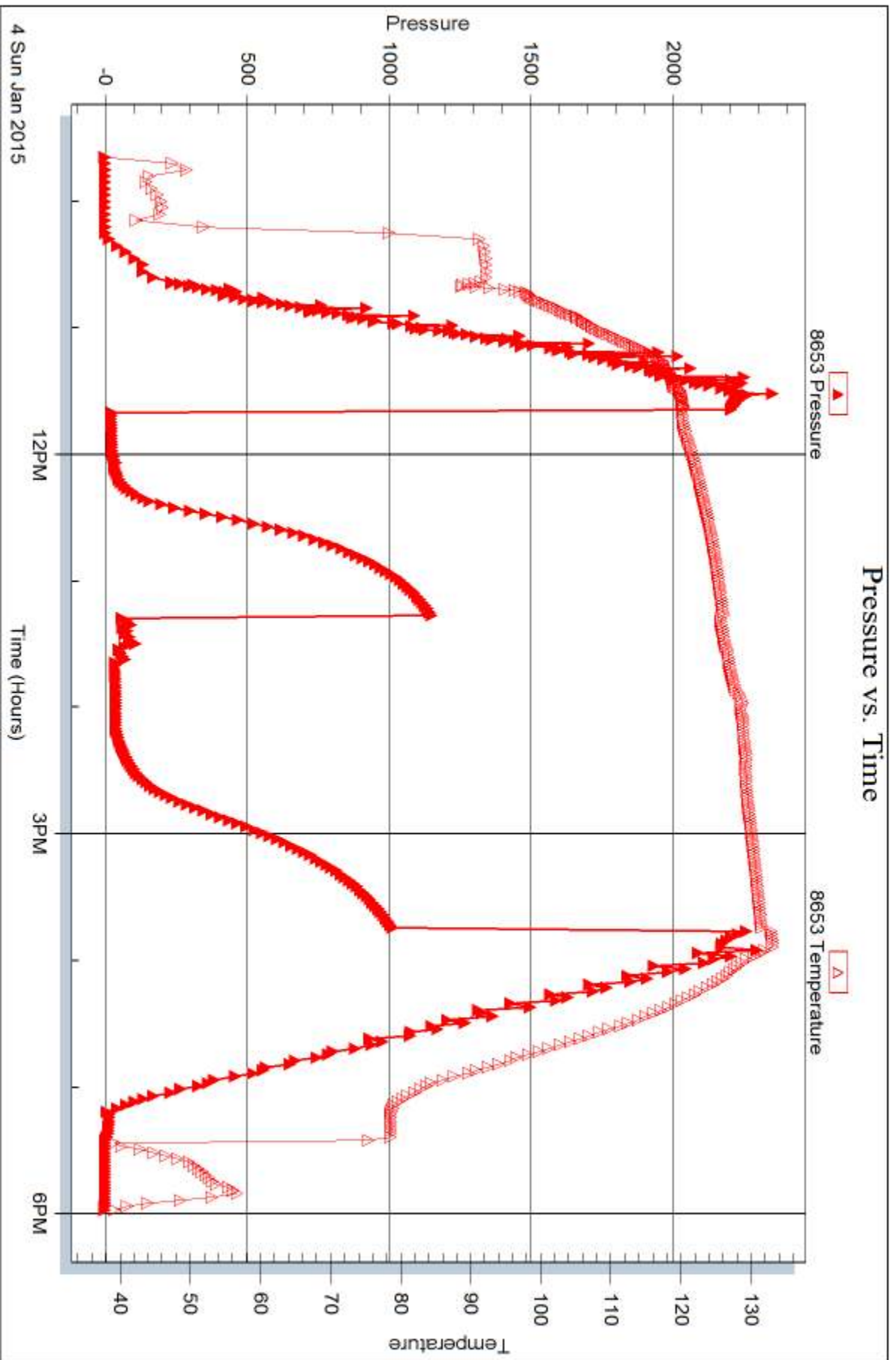
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







## DRILL STEM TEST REPORT

Prepared For: **Murfin Drilling Co., Inc.**

250 N Water STE #300  
Wichita, KS 67202

ATTN: Robert Hendrix

### **Pancirni #2-7**

#### **7-2s-36w Rawlins, KS**

Start Date: 2015.01.05 @ 18:17:00

End Date: 2015.01.06 @ 02:28:30

Job Ticket #: 61112                      DST #: 5

Trilobite Testing, Inc  
1515 Commerce Parkway Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2015.01.09 @ 16:18:41



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

**7-2s-36w Rawlins, KS**

250 N Water STE #300  
Wichita, KS 67202

**Pancirni #2-7**

Job Ticket: 61112

**DST#: 5**

ATTN: Robert Hendrix

Test Start: 2015.01.05 @ 18:17:00

## GENERAL INFORMATION:

Formation: **Pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:21:30

Time Test Ended: 02:28:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Donovan Baumann

Unit No: 82

**Interval: 4686.00 ft (KB) To 4756.00 ft (KB) (TVD)**

Total Depth: 4756.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3383.00 ft (KB)

3372.00 ft (CF)

KB to GR/CF: 11.00 ft

**Serial #: 8874 Inside**

Press@RunDepth: 70.82 psig @ 4687.00 ft (KB)

Start Date: 2015.01.05

End Date: 2015.01.06

Start Time: 18:18:00

End Time: 02:28:30

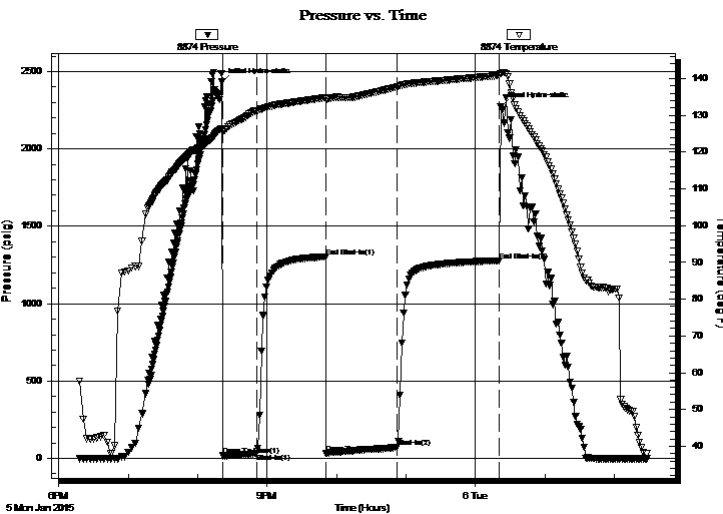
Capacity: 8000.00 psig

Last Calib.: 2015.01.06

Time On Btm: 2015.01.05 @ 20:21:00

Time Off Btm: 2015.01.06 @ 00:22:00

**TEST COMMENT:** 30 - IF - Weak surface blow built to 7 in. in 30 min. ( In Diesel )  
60 - ISI - No return  
60 - FF - Weak surface blow built to BOB in 48 min.  
90 - FSI - No return



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2431.82	126.33	Initial Hydro-static
1	17.76	125.52	Open To Flow (1)
30	31.40	131.26	Shut-In(1)
90	1300.02	134.84	End Shut-In(1)
90	32.69	134.45	Open To Flow (2)
151	70.82	137.74	Shut-In(2)
240	1277.80	140.85	End Shut-In(2)
241	2272.02	141.45	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	GOCM - 10G - 40o - 50M	0.30
60.00	MCGO - 10G - 85o - 5M	0.30
10.00	Free Oil - 90o - 10g	0.05
0.00	124 - Gas in pipe	0.00

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Murfin Drilling Co., Inc.

**7-2s-36w Rawlins, KS**

250 N Water STE #300  
Wichita, KS 67202

**Pancirni #2-7**

Job Ticket: 61112

**DST#: 5**

ATTN: Robert Hendrix

Test Start: 2015.01.05 @ 18:17:00

## Tool Information

Drill Pipe:	Length: 4481.00 ft	Diameter: 3.80 inches	Volume: 62.86 bbl	Tool Weight: 2500.00 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: 206.00 ft	Diameter: 2.25 inches	Volume: 1.01 bbl	Weight to Pull Loose: 72000.00 lb
			<u>Total Volume: 63.87 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	4686.00 ft			Final 66000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	70.00 ft			
Tool Length:	98.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

**Length (ft) Serial No. Position Depth (ft) Accum. Lengths**

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4659.00	
Shut In Tool	5.00			4664.00	
Hydraulic tool	5.00			4669.00	
Jars	5.00			4674.00	
Safety Joint	3.00			4677.00	
Packer	5.00			4682.00	28.00 Bottom Of Top Packer
Packer	4.00			4686.00	
Stubb	1.00			4687.00	
Recorder	0.00	8653	Outside	4687.00	
Recorder	0.00	8874	Inside	4687.00	
Perforations	31.00			4718.00	
Change Over Sub	1.00			4719.00	
Drill Pipe	31.00			4750.00	
Change Over Sub	1.00			4751.00	
Bullnose	5.00			4756.00	70.00 Bottom Packers & Anchor

**Total Tool Length: 98.00**





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Murfin Drilling Co., Inc.

**7-2s-36w Rawlins, KS**

250 N Water STE #300  
Wichita, KS 67202

**Pancirni #2-7**

Job Ticket: 61112

**DST#: 5**

ATTN: Robert Hendrix

Test Start: 2015.01.05 @ 18:17:00

## 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: 5.99 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 800.00 ppm

Filter Cake: 2.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	GOCM - 10G - 40o - 50M	0.295
60.00	MCGO - 10G - 85o - 5M	0.295
10.00	Free Oil - 90o - 10g	0.049
0.00	124 - Gas in pipe	0.000

Total Length: 130.00 ft

Total Volume: 0.639 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Gravity - 27

Serial #: 8874

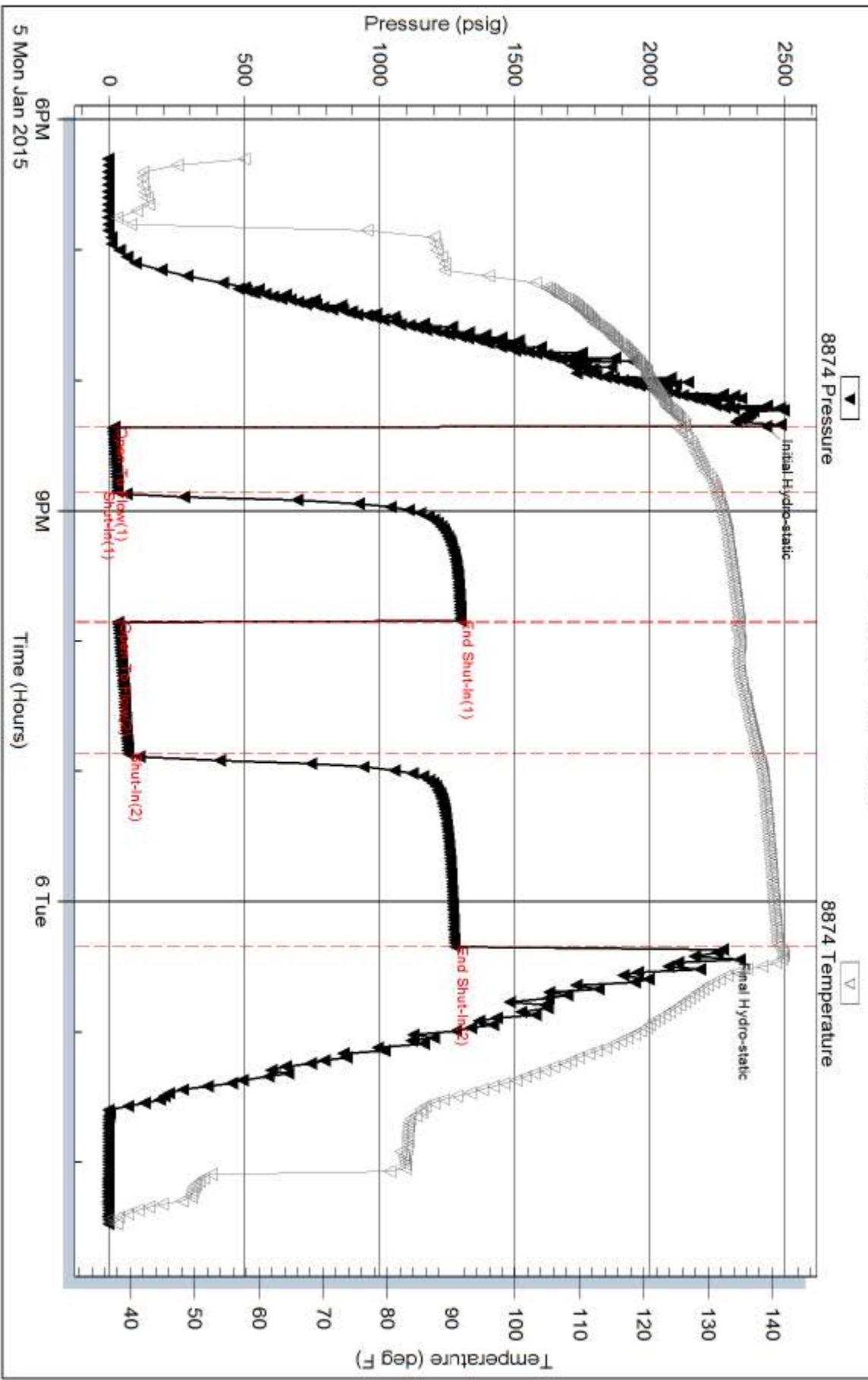
Inside

Murfin Drilling Co., Inc.

Pancini#2-7

DST Test Number: 5

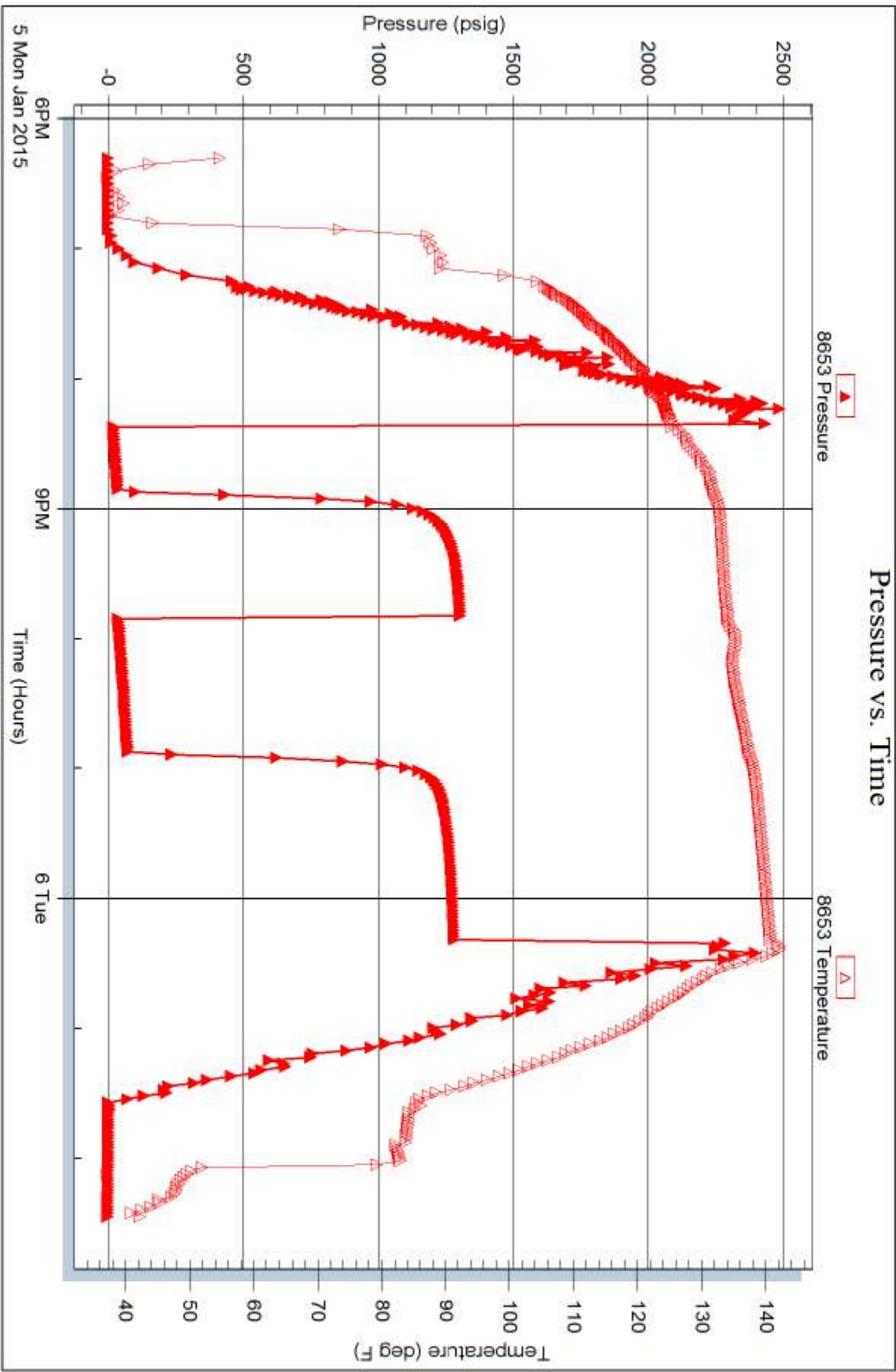
### Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 61112

Printed: 2015.01.09 @ 16:18:42





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 61108

Well Name & No. Pancirni #2-7 Test No. 1 Date 12-29-14  
 Company Murcin Drilling Co., Inc. Elevation 3383 KB 3372 GL  
 Address 250 N Water STE # 3000 Wichita, KS 67202  
 Co. Rep / Geo. Robert Hendrix Rig Murcin #2  
 Location: Sec. 7 Twp. 2S Rge. 36W Co. Rawlins State KS

Interval Tested 4181-4242 Zone Tested Oreol  
 Anchor Length 61' Drill Pipe Run 3972' Mud Wt. 9.2  
 Top Packer Depth 4177 Drill Collars Run 206' Vis 58  
 Bottom Packer Depth 4181 Wt. Pipe Run 0 WL 5.6  
 Total Depth 4242 Chlorides 600 ppm System LCM 6#  
 Blow Description IF- 3/4" Blow built to 8"  
ISI- NO Return  
FF- Surface Blow started at 7 min. Built to  
FSI- NO Return

Rec	Feet of	%gas	%oil	%water	%mud
5	Free Oil	100			
86	OCWM	5	15	80	
60	OCWM	5	35	60	
60	OCMW	10	60	30	
60	OCMW	5	85	10	

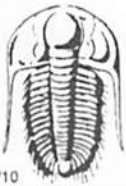
Rec Total 271' BHT 139 Gravity - API RW .36 @ 42 °F Chlorides 33,000 ppm

(A) Initial Hydrostatic 2047  Test 1250 T-On Location 2:00 AM  
 (B) First Initial Flow 205  Jars 250 T-Started 3:40 AM  
 (C) First Final Flow 87  Safety Joint 75 T-Open 6:10 AM  
 (D) Initial Shut-In 1179  Circ Sub \_\_\_\_\_ T-Pulled 10:10 AM  
 (E) Second Initial Flow 96  Hourly Standby \_\_\_\_\_ T-Out 12:20 PM  
 (F) Second Final Flow 142  Mileage 111 RT 172.05  
 (G) Final Shut-In 1176  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1980  Straddle \_\_\_\_\_

Initial Open 30  Shale Packer \_\_\_\_\_  
 Initial Shut-In 60  Extra Packer \_\_\_\_\_  
 Final Flow 60  Extra Recorder \_\_\_\_\_  
 Final Shut-In 90  Day Standby \_\_\_\_\_  
 Sub Total 1747.05  Accessibility \_\_\_\_\_  
 Total 1747.05  Ruined Shale Packer \_\_\_\_\_  
 MP/DST Disc't \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Sub Total 1747.05  Extra Copies \_\_\_\_\_  
 Sub Total 0  
 Total 1747.05

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

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 61109

4/10

Well Name & No. Pancirni #2-7 Test No. 2 Date 1-2-2015  
 Company Murfin Drilling Co., Inc. Elevation 3383 KB 3372 GL  
 Address 250 N Water STE #3000 Wichita, KS 67202  
 Co. Rep / Geo. Robert Hendrix Rig Murfin #2  
 Location: Sec. 7 Twp. 2S Rge. 36W Co. Rawlins State KS

Interval Tested 4325-4394 Zone Tested LKC "D"  
 Anchor Length 69' Drill Pipe Run 4101' Mud Wt. 9.1  
 Top Packer Depth 4321 Drill Collars Run 206' Vis 55  
 Bottom Packer Depth 4325 Wt. Pipe Run Ø WL 6.4  
 Total Depth 4394 Chlorides 7000 ppm System LCM 8#

Blow Description IF - BOB in 1/8 min.  
ISI - Surface Return started at 1 min. Built to 4 3/4"  
FF - BOB in 8 min.  
FSI - Surface Return started at 1 min. Built to 4 1/4"

Rec	Feet of	%gas	%oil	%water	%mud
229	CGO	20	80		
126	GOCWM	10	30	30	30
252	GOCMW	10	10	50	30
315	GOCMW	5	5	60	30
242	OCMW		5	90	5
Rec Total	1164				

BHT 139147 Gravity 29 API RW .39 @ 42 °F Chlorides 33,000 ppm  
 (A) Initial Hydrostatic 2047 2210  Test 1150  
 (B) First Initial Flow 20 92  Jars 250  
 (C) First Final Flow 87 247  Safety Joint 75  
 (D) Initial Shut-In 1179 1166  Circ Sub  
 (E) Second Initial Flow 96 272  Hourly Standby  
 (F) Second Final Flow 142 518  Mileage 111 111  
 (G) Final Shut-In 1176 1167  Sampler  
 (H) Final Hydrostatic 1420 2092  Straddle

T-On Location 7:40 PM  
 T-Started 8:10 PM  
 T-Open 9:50 PM  
 T-Pulled 1:50 AM  
 T-Out 4:45 AM  
 Comments 315' GIP

Initial Open 30  Ruined Shale Packer  
 Initial Shut-In 60  Ruined Packer  
 Final Flow 60  Extra Packer  
 Final Shut-In 90  Extra Recorder  
 Extra Copies  
 Sub Total 0  
 Total 1586  
 MP/DST Disc't  
 Sub Total 1586

Approved By \_\_\_\_\_ Our Representative

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. 61110

4/10

Well Name & No. Pancioni #2-7 Test No. 3 Date 1-3-15  
 Company Murfin Drilling Co., Inc. Elevation 3383 KB 3372 GL  
 Address 2508 N Water STE #300 Wichita, KS 67202  
 Co. Rep / Geo. Robert Hendrix Rig Murfin #2  
 Location: Sec. 7 Twp. 2S Rge. 36W Co. Rawlins State KS

Interval Tested 4401-4454 Zone Tested LKC "G"  
 Anchor Length 53' Drill Pipe Run 4193' Mud Wt. 9.2  
 Top Packer Depth 4397 Drill Collars Run 206 Vis 54  
 Bottom Packer Depth 4401 Wt. Pipe Run 15 WL 6.8  
 Total Depth 4454 Chlorides 7000 ppm System LCM 7#

Blow Description IF-1/4" Blow did not build or die  
IST-NO Return  
FF-NO Blow  
FSL-NO Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>1</u>	<u>Free Oil</u>		<u>1000</u>		
<u>5</u>	<u>OSM</u>		<u>SPOTS</u>		<u>1000</u>

Rec Total 6' BHT 134 Gravity - API RW - @ - ° F Chlorides - ppm

(A) Initial Hydrostatic 2164  Test 1150 T-On Location 1:30 PM  
 (B) First Initial Flow 20  Jars 250 T-Started 1:51 PM  
 (C) First Final Flow 25  Safety Joint 75 T-Open 4:25 PM  
 (D) Initial Shut-In 869  Circ Sub \_\_\_\_\_ T-Pulled 7:25 PM  
 (E) Second Initial Flow 29  Hourly Standby \_\_\_\_\_ T-Out 9:45 PM  
 (F) Second Final Flow 39  Mileage 111 RT 111 Comments \_\_\_\_\_  
 (G) Final Shut-In 222  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2141  Straddle \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_

Initial Open 30  Ruined Shale Packer \_\_\_\_\_  
 Initial Shut-In 60  Ruined Packer \_\_\_\_\_  
 Final Flow 30  Extra Copies \_\_\_\_\_  
 Final Shut-In 60 Sub Total 0  
 Total 1586  
 MP/DST Disc't \_\_\_\_\_  
 Sub Total 1586

Approved By \_\_\_\_\_ Our Representative

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 61111

Well Name & No. Pancinni #2-7 Test No. 4 Date 1-4-15  
 Company Murfin Drilling Co., Inc. Elevation 3383 KB 3372 GL  
 Address 250 N Water STE #3008 Wichita, KS 67202  
 Co. Rep / Geo. Robert Hendrix Rig Murfin #2  
 Location: Sec. 7 Twp. 2S Rge. 36 W Co. Rawlins State KS

Interval Tested 4445-4530 Zone Tested LKC "H-J"  
 Anchor Length 85' Drill Pipe Run 4227' Mud Wt. 9.3  
 Top Packer Depth 4441 Drill Collars Run 206 Vis 73  
 Bottom Packer Depth 4445 Wt. Pipe Run 0 WL 6.0  
 Total Depth 4530 Chlorides 800 ppm System LCM 8#  
 Blow Description IF - 1/4" Blow built to 2"  
ISI - No Return  
FF - Surface Blow started at 10 min. Built to 1 1/4"  
FST - No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>500</u>	<u>0.00</u>	<u>200</u>		<u>800</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 500 BHT 132 Gravity - API RW - @ - ° F Chlorides - ppm

(A) Initial Hydrostatic <u>2206</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>9:30 AM</u>
(B) First Initial Flow <u>20</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>9:38 AM</u>
(C) First Final Flow <u>37</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>11:40 AM</u>
(D) Initial Shut-In <u>1142</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>3:40 PM</u>
(E) Second Initial Flow <u>63</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>6:01 PM</u>
(F) Second Final Flow <u>35</u>	<input checked="" type="checkbox"/> Mileage <u>11 RT</u>	Comments
(G) Final Shut-In <u>1001</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2185</u>	<input type="checkbox"/> Straddle	
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Extra Copies
Final Flow <u>60</u>	<input type="checkbox"/> Day Standby	Sub Total <u>0</u>
Final Shut-In <u>90</u>	<input type="checkbox"/> Accessibility	Total <u>1586</u>
	Sub Total <u>1586</u>	MP/DST Disc't

Approved By \_\_\_\_\_ Our Representative

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **61112**

Well Name & No. Pancini #2-7 Test No. 5 Date 1-5-15  
 Company Murfin Drilling Co., Inc Elevation 3383 KB 3322 GL  
 Address 250 N Water STE #300 Wichita, KS 67202  
 Co. Rep / Geo. Robert Hendrix Rig Murfin #2  
 Location: Sec. 7 Twp. 2S Rge. 36W Co. Rawlins State KS

Interval Tested 4686' - 4756' Zone Tested Pawnee  
 Anchor Length 70' Drill Pipe Run 4481 Mud Wt. 9.2  
 Top Packer Depth 4681' Drill Collars Run 206 Vis 62  
 Bottom Packer Depth 4686' Wt. Pipe Run 0 WL 6  
 Total Depth 4756' Chlorides 800 ppm System LCM #9  
 Blow Description IF - weak surface blow built to 7 in. in 30 min. (In Diesel)  
ISI - no return  
FF - weak surface blow built to 30 in 48 min.  
PSI - no return

Rec	Feet of	%gas	%oil	%water	%mud
10	Free oil	10	90		
60	MC90	10	85		5
60	90CM	10	40		50
124	gas in pipe				

Rec Total 130 BHT 141 Gravity 27 API RW @  ° F Chlorides  ppm

(A) Initial Hydrostatic <u>2432</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>5:40 pm</u>
(B) First Initial Flow <u>18</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>6:17 pm</u>
(C) First Final Flow <u>31</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>8:21 pm</u>
(D) Initial Shut-In <u>1300</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>12:21 am 1-6</u>
(E) Second Initial Flow <u>33</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>2:28 am 1-6</u>
(F) Second Final Flow <u>71</u>	<input checked="" type="checkbox"/> Mileage <u>111R/H</u> <u>111</u>	Comments _____
(G) Final Shut-In <u>1278</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2272</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer

Initial Open 30  
 Initial Shut-In 60  
 Final Flow 60  
 Final Shut-In 90

Shale Packer  
 Extra Packer  
 Extra Recorder  
 Day Standby  
 Accessibility

Sub Total 1586  
 Total 1586  
 MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative R. Norman Baumann

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