



DRILL STEM TEST REPORT

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

20 N Water STE #300
Wichita, KS 67202

ATTN: Keith Reavis

Melba #1-34

34-4s-31w Rawlins,KS

Start Date: 2014.05.05 @ 06:21:00

End Date: 2014.05.05 @ 14:14:00

Job Ticket #: 56834 DST #: 1

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

Printed: 2014.05.09 @ 14:41:43



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

34-4s-31w Rawlins, KS

20 N Water STE #300
Wichita, KS 67202

Melba #1-34

Job Ticket: 56834

DST#: 1

ATTN: Keith Reavis

Test Start: 2014.05.05 @ 06:21:00

GENERAL INFORMATION:

Formation: **Toronto-Lansing**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:52:00

Time Test Ended: 14:14:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Kevin Mack

Unit No: 66

Interval: 3905.00 ft (KB) To 3990.00 ft (KB) (TVD)

Reference Elevations: 2940.00 ft (KB)

Total Depth: 3990.00 ft (KB) (TVD)

2935.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8874

Inside

Press@RunDepth: 53.57 psig @ 3906.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.05.05

End Date:

2014.05.05

Last Calib.:

2014.05.05

Start Time: 06:22:00

End Time:

14:14:00

Time On Btm:

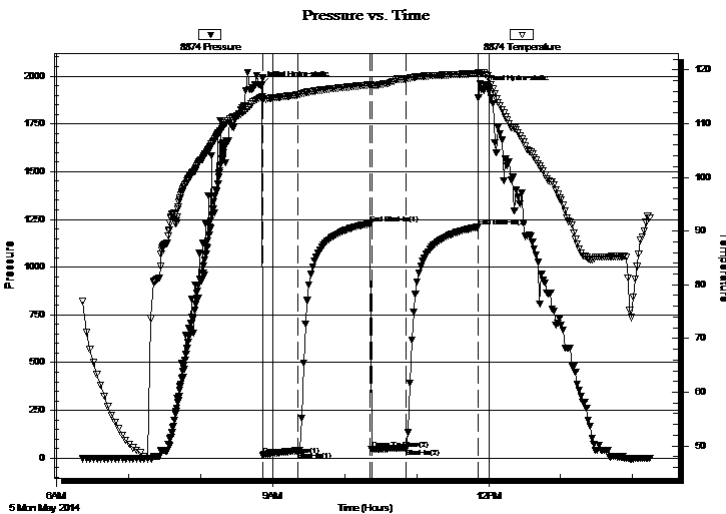
2014.05.05 @ 08:50:30

Time Off Btm:

2014.05.05 @ 11:54:00

TEST COMMENT: 30 - IF- 1/4" Blow built to 1"
60 - IS- No Return
30 - FF- No Blow
60 - FS- No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1951.31	114.83	Initial Hydro-static
2	16.76	114.47	Open To Flow (1)
31	38.41	115.35	Shut-In(1)
91	1228.68	117.22	End Shut-In(1)
92	44.75	117.00	Open To Flow (2)
121	53.57	118.31	Shut-In(2)
181	1209.92	119.34	End Shut-In(2)
184	1931.98	119.44	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	OSM 100M (oil spots)	0.05
60.00	Mud 100M	0.39

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

20 N Water STE #300
Wichita, KS 67202

ATTN: Keith Reavis

34-4s-31w Rawlins, KS

Melba #1-34

Job Ticket: 56834

DST#: 1

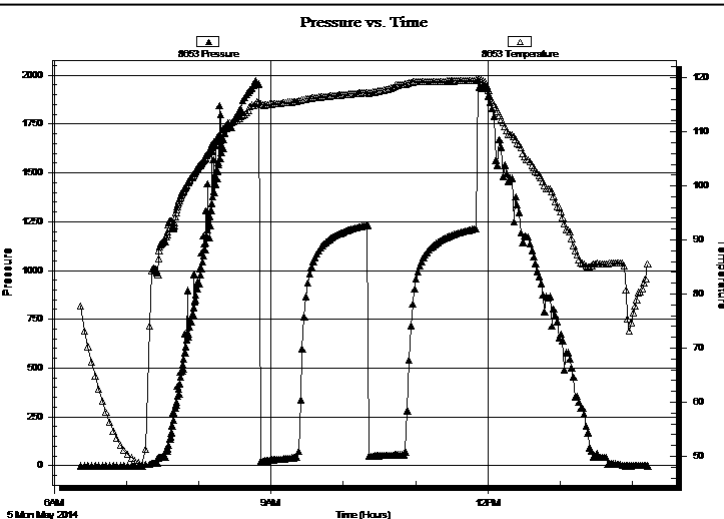
Test Start: 2014.05.05 @ 06:21:00

GENERAL INFORMATION:

Formation:	Toronto-Lansing		
Deviated:	No Whipstock:	ft (KB)	Test Type: Conventional Bottom Hole (Initial)
Time Tool Opened:	08:52:00		Tester: Kevin MAck
Time Test Ended:	14:14:00		Unit No: 66
Interval:	3905.00 ft (KB) To 3990.00 ft (KB) (TVD)		Reference Elevations: 2940.00 ft (KB)
Total Depth:	3990.00 ft (KB) (TVD)		2935.00 ft (CF)
Hole Diameter:	7.88 inches	Hole Condition: Good	KB to GR/CF: 5.00 ft

Serial #: 8653	Outside	Capacity:	8000.00 psig
Press@RunDepth:	psig @ 3906.00 ft (KB)	Last Calib.:	2014.05.05
Start Date:	2014.05.05	End Date:	2014.05.05
Start Time:	06:22:00	End Time:	14:12:30
		Time On Btm:	
		Time Off Btm:	

TEST COMMENT: 30 - IF- 1/4" Blow built to 1"
60 - IS- No Return
30 - FF- No Blow
60 - FS- No Return



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery		
Length (ft)	Description	Volume (bbl)
10.00	OSM 100M (oil spots)	0.05
60.00	Mud 100M	0.39

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co., Inc.

34-4s-31w Rawlins,KS

20 N Water STE #300
Wichita, KS 67202

Melba #1-34

Job Ticket: 56834

DST#: 1

ATTN: Keith Reavis

Test Start: 2014.05.05 @ 06:21:00

Tool Information

Drill Pipe:	Length: 3834.00 ft	Diameter: 3.80 inches	Volume: 53.78 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: 60.00 ft	Diameter: 2.25 inches	Volume: 0.30 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 54.08 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	3905.00 ft			Final 60000.00 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

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			3878.00	
Shut In Tool	5.00			3883.00	
Hydraulic tool	5.00			3888.00	
Jars	5.00			3893.00	
Safety Joint	3.00			3896.00	
Packer	5.00			3901.00	28.00 Bottom Of Top Packer
Packer	4.00			3905.00	
Stubb	1.00			3906.00	
Recorder	0.00	8653	Outside	3906.00	
Recorder	0.00	8874	Inside	3906.00	
Perforations	15.00			3921.00	
Change Over Sub	1.00			3922.00	
Drill Pipe	62.00			3984.00	
Change Over Sub	1.00			3985.00	
Bullnose	5.00			3990.00	85.00 Bottom Packers & Anchor

Total Tool Length: 113.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

34-4s-31w Rawlins,KS

20 N Water STE #300
Wichita, KS 67202

Melba #1-34

Job Ticket: 56834

DST#: 1

ATTN: Keith Reavis

Test Start: 2014.05.05 @ 06:21:00

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: 6.79 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1200.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	OSM 100M (oil spots)	0.049
60.00	Mud 100M	0.386

Total Length: 70.00 ft Total Volume: 0.435 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8874

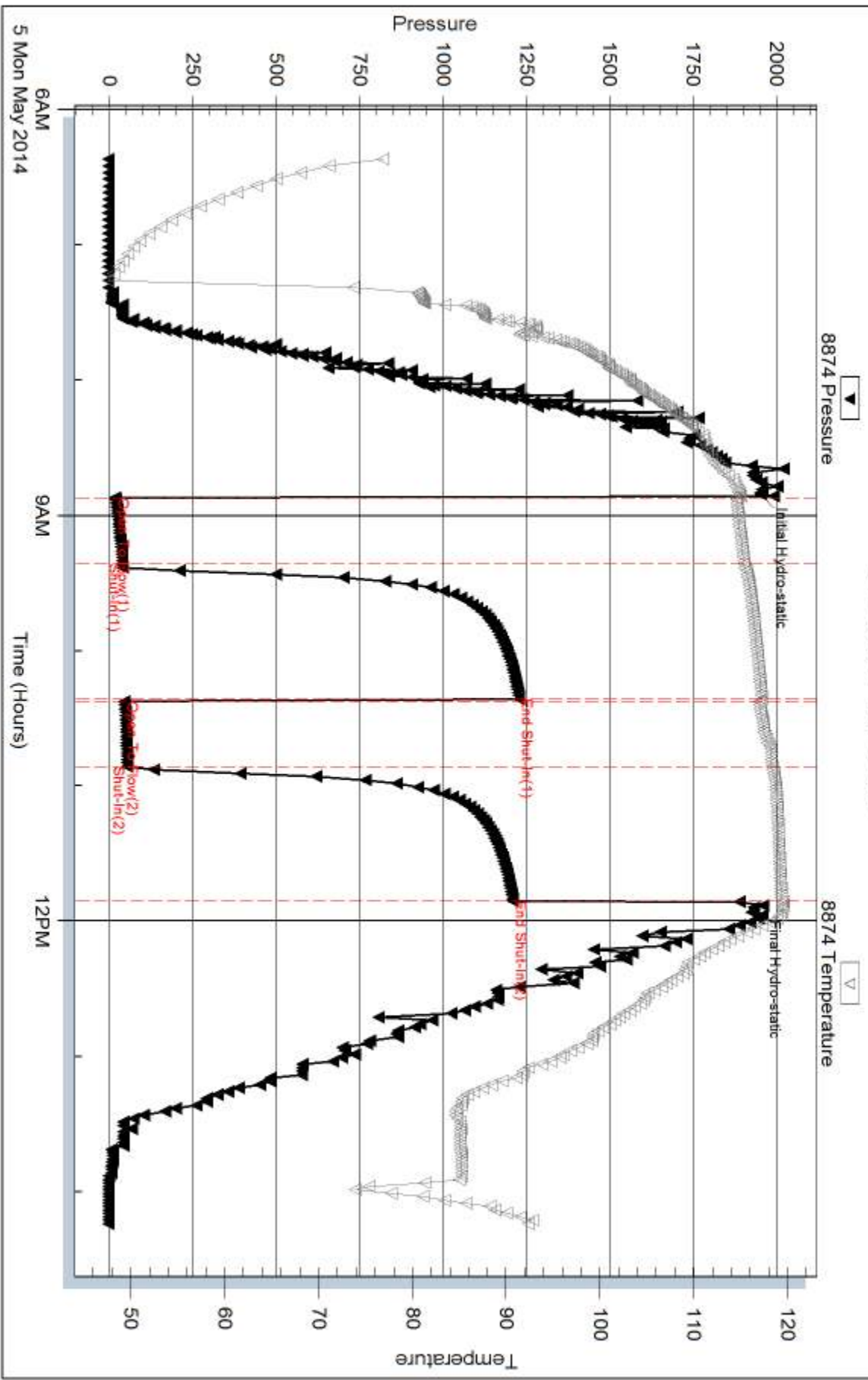
Inside

Murfin Drilling Co., Inc.

Wellbore #1-34

DST Test Number: 1

Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 56834

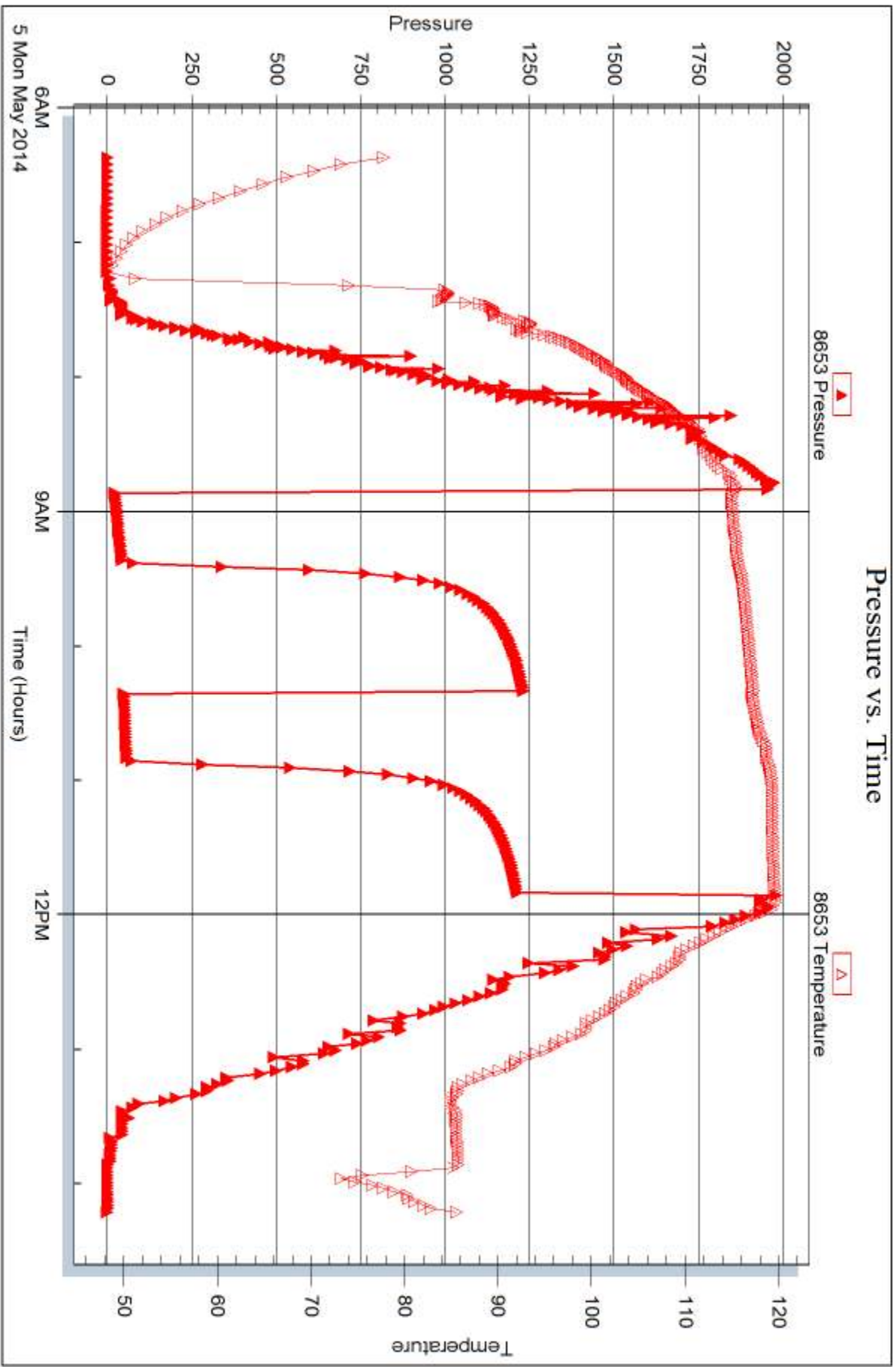
Printed: 2014.05.09 @ 14:41:44

Serial #: 8653

Outside Murfin Drilling Co., Inc.

Wellbore #1-34

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 56834

Printed: 2014.05.09 @ 14:41:44



DRILL STEM TEST REPORT

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

20 N Water STE #300
Wichita, KS 67202

ATTN: Keith Reavis

Melba #1-34

34-4s-31w Rawlins,KS

Start Date: 2014.05.06 @ 00:50:00

End Date: 2014.05.06 @ 08:37:00

Job Ticket #: 56835 DST #: 2

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

Printed: 2014.05.09 @ 14:41:18

Murfin Drilling Co., Inc. 34-4s-31w Rawlins,KS Melba #1-34 DST # 2 LKC "F-G" 2014.05.06



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

34-4s-31w Rawlins, KS

20 N Water STE #300
Wichita, KS 67202

Melba #1-34

Job Ticket: 56835

DST#: 2

ATTN: Keith Reavis

Test Start: 2014.05.06 @ 00:50:00

GENERAL INFORMATION:

Formation: **LKC "F-G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:34:30

Time Test Ended: 08:37:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Kevin Mack

Unit No: 66

Interval: 4008.00 ft (KB) To 4040.00 ft (KB) (TVD)

Reference Elevations: 2940.00 ft (KB)

Total Depth: 4040.00 ft (KB) (TVD)

2935.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8653 Outside

Press@RunDepth: 35.24 psig @ 4009.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.05.06

End Date:

2014.05.06

Last Calib.:

2014.05.06

Start Time: 00:51:00

End Time:

08:37:00

Time On Btm:

2014.05.06 @ 03:32:30

Time Off Btm:

2014.05.06 @ 06:42:30

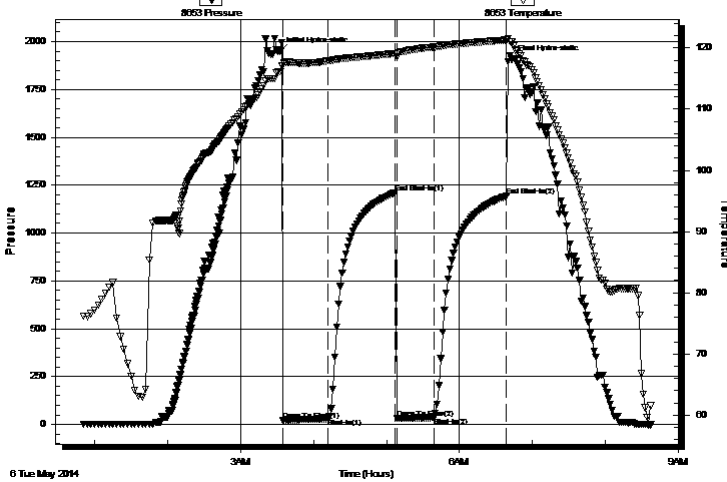
TEST COMMENT: 30 - IF- 1/2" Blow built to 1"

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	1947.00	116.17	Initial Hydro-static
2	23.04	117.13	Open To Flow (1)
40	29.78	117.93	Shut-In(1)
95	1210.94	119.12	End Shut-In(1)
96	31.81	118.50	Open To Flow (2)
126	35.24	120.14	Shut-In(2)
186	1193.46	121.31	End Shut-In(2)
190	1907.48	120.96	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	Mud 100M	0.10

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

34-4s-31w Rawlins, KS

20 N Water STE #300
Wichita, KS 67202

Melba #1-34

Job Ticket: 56835

DST#: 2

ATTN: Keith Reavis

Test Start: 2014.05.06 @ 00:50:00

GENERAL INFORMATION:

Formation: **LKC "F-G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:34:30

Time Test Ended: 08:37:00

Interval: 4008.00 ft (KB) To 4040.00 ft (KB) (TVD)

Total Depth: 4040.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Test Type: Conventional Bottom Hole (Initial)

Tester: Kevin Mack

Unit No: 66

Reference Elevations: 2940.00 ft (KB)

2935.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8874

Inside

Press@RunDepth: psig @ 4009.00 ft (KB)

Start Date: 2014.05.06

End Date:

2014.05.06

Start Time: 00:51:00

End Time:

08:38:30

Capacity: 8000.00 psig

Last Calib.: 2014.05.06

Time On Btm:

Time Off Btm:

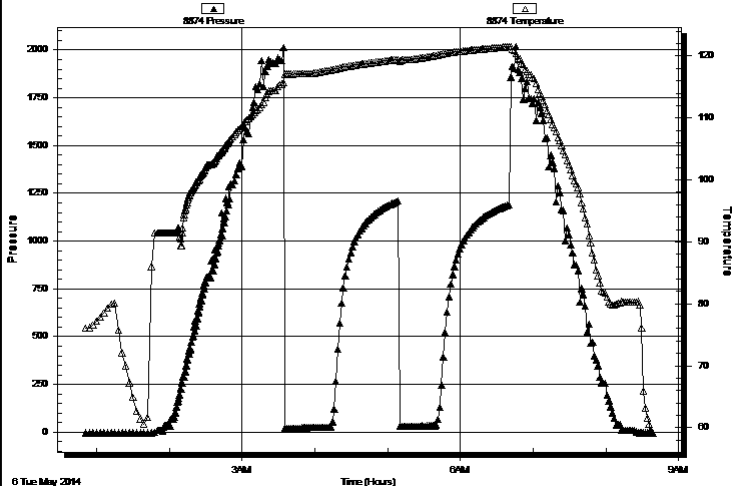
TEST COMMENT: 30 - IF- 1/2" Blow built to 1"

60 - ISI- No Return

30 - FF- No Blow

60 - FSI- No Return

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
20.00	Mud 100M	0.10

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co., Inc.

34-4s-31w Rawlins,KS

20 N Water STE #300
Wichita, KS 67202

Melba #1-34

Job Ticket: 56835

DST#: 2

ATTN: Keith Reavis

Test Start: 2014.05.06 @ 00:50:00

Tool Information

Drill Pipe:	Length: 3925.00 ft	Diameter: 3.80 inches	Volume: 55.06 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: 60.00 ft	Diameter: 2.25 inches	Volume: 0.30 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 55.36 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4008.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	32.00 ft			
Tool Length:	60.00 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			3981.00	
Shut In Tool	5.00			3986.00	
Hydraulic tool	5.00			3991.00	
Jars	5.00			3996.00	
Safety Joint	3.00			3999.00	
Packer	5.00			4004.00	28.00 Bottom Of Top Packer
Packer	4.00			4008.00	
Stubb	1.00			4009.00	
Recorder	0.00	8653	Outside	4009.00	
Recorder	0.00	8874	Inside	4009.00	
Perforations	26.00			4035.00	
Bullnose	5.00			4040.00	32.00 Bottom Packers & Anchor

Total Tool Length: 60.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

34-4s-31w Rawlins,KS

20 N Water STE #300
Wichita, KS 67202

Melba #1-34

Job Ticket: 56835

DST#: 2

ATTN: Keith Reavis

Test Start: 2014.05.06 @ 00:50:00

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: 50.00 sec/qt

Cushion Volume:

bbf

Water Loss: 6.79 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1400.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
20.00	Mud 100M	0.098

Total Length: 20.00 ft Total Volume: 0.098 bbf

Num Fluid Samples: 0

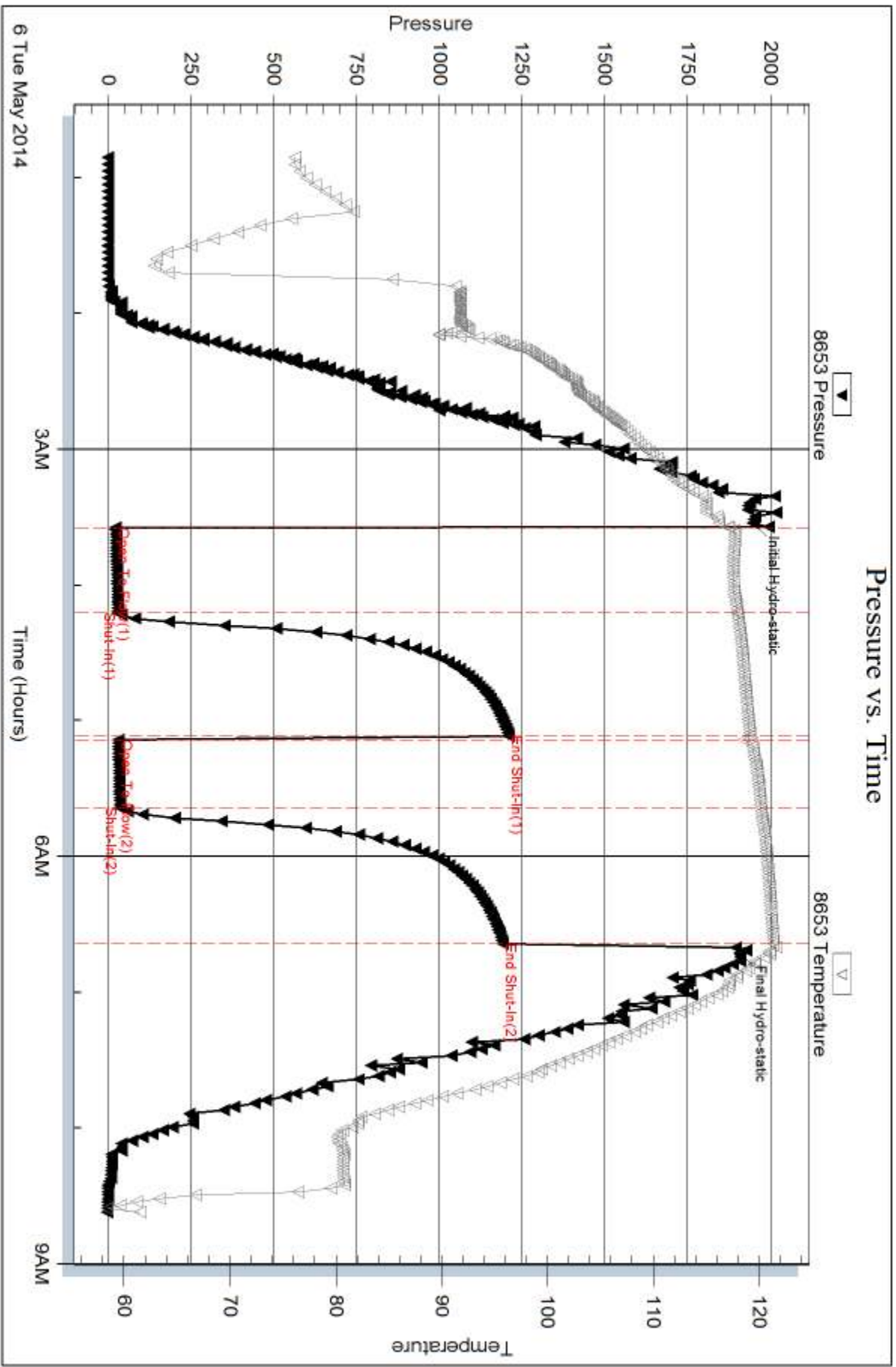
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



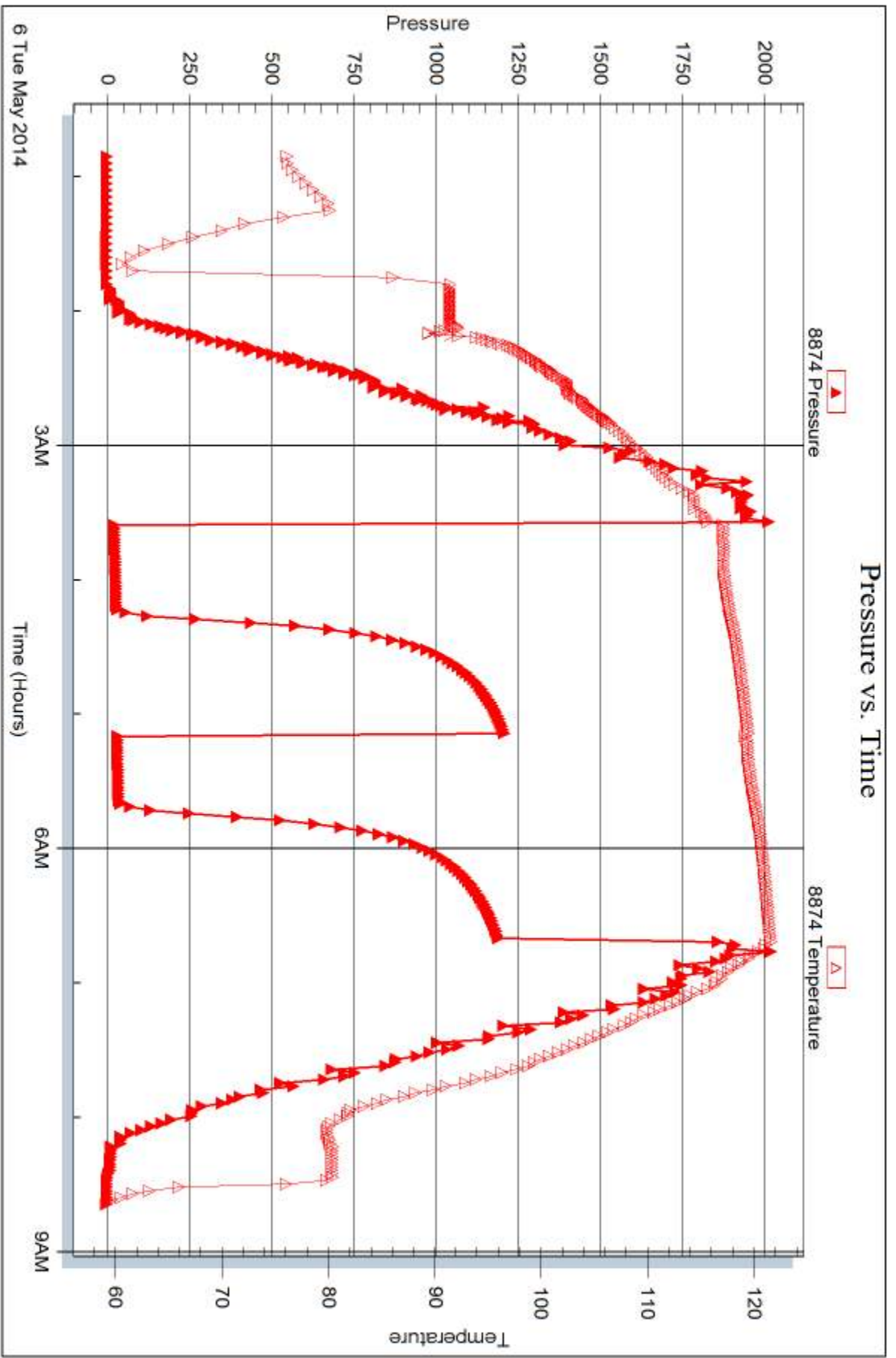
Serial #: 8874

Inside

Murfin Drilling Co., Inc.

Wellbore #1-34

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 56835

Printed: 2014.05.09 @ 14:41:19



DRILL STEM TEST REPORT

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

20 N Water STE #300
Wichita, KS 67202

ATTN: Keith Reavis

Melba #1-34

34-4s-31w Rawlins,KS

Start Date: 2014.05.06 @ 23:02:00

End Date: 2014.05.07 @ 08:38:00

Job Ticket #: 56836 DST #: 3

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

Printed: 2014.05.09 @ 14:40:41



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

34-4s-31w Rawlins, KS

20 N Water STE #300
Wichita, KS 67202

Melba #1-34

Job Ticket: 56836

DST#: 3

ATTN: Keith Reavis

Test Start: 2014.05.06 @ 23:02:00

GENERAL INFORMATION:

Formation: **LKC "I-J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:22:00

Time Test Ended: 08:38:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Kevin Mack

Unit No: 66

Interval: 4078.00 ft (KB) To 4148.00 ft (KB) (TVD)

Reference Elevations: 2940.00 ft (KB)

Total Depth: 4148.00 ft (KB) (TVD)

2935.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8874

Inside

Press@RunDepth: 176.82 psig @ 4079.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.05.06

End Date:

2014.05.07

Last Calib.:

2014.05.07

Start Time: 23:03:00

End Time:

08:38:00

Time On Btm:

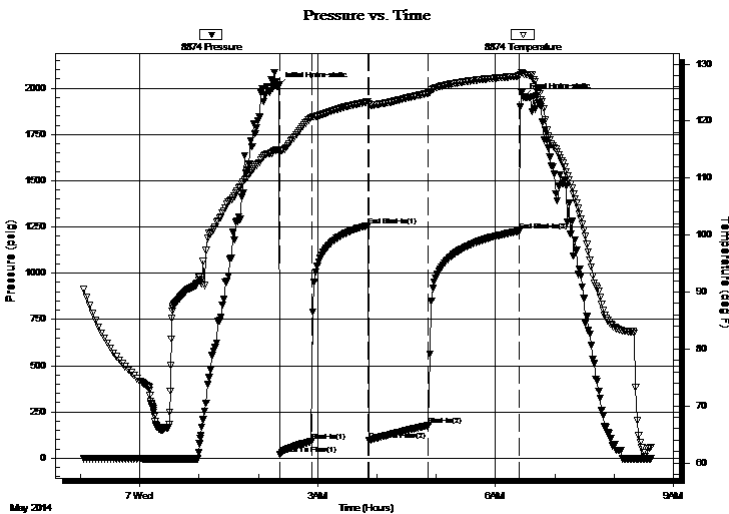
2014.05.07 @ 02:20:00

Time Off Btm:

2014.05.07 @ 06:28:00

TEST COMMENT: 30 - IF- BoB in 28 min.
60 - IS- No Return
60 - FF- BoB in 32 min
90 - FS- No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2009.26	114.98	Initial Hydro-static
2	22.74	114.68	Open To Flow (1)
34	91.51	120.60	Shut-In(1)
91	1257.25	123.37	End Shut-In(1)
92	95.53	122.97	Open To Flow (2)
152	176.82	124.89	Shut-In(2)
244	1226.56	127.87	End Shut-In(2)
248	1951.34	128.30	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud (Heavy) 100M	0.02
181.00	MW 95W 5M	2.04
126.00	MW 80W 20M	1.77
20.00	OSMW 20M 80W (Oil spots)	0.28

Gas Rates

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



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DRILL STEM TEST REPORT

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34-4s-31w Rawlins, KS

20 N Water STE #300
Wichita, KS 67202

Melba #1-34

Job Ticket: 56836

DST#: 3

ATTN: Keith Reavis

Test Start: 2014.05.06 @ 23:02:00

GENERAL INFORMATION:

Formation: **LKC "I-J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:22:00

Time Test Ended: 08:38:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Kevin Mack

Unit No: 66

Interval: 4078.00 ft (KB) To 4148.00 ft (KB) (TVD)

Total Depth: 4148.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2940.00 ft (KB)

2935.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8653 Outside

Press@RunDepth: psig @ 4079.00 ft (KB)

Start Date: 2014.05.06

End Date:

2014.05.07

Start Time: 23:03:00

End Time:

08:36:00

Capacity: 8000.00 psig

Last Calib.: 2014.05.07

Time On Btm:

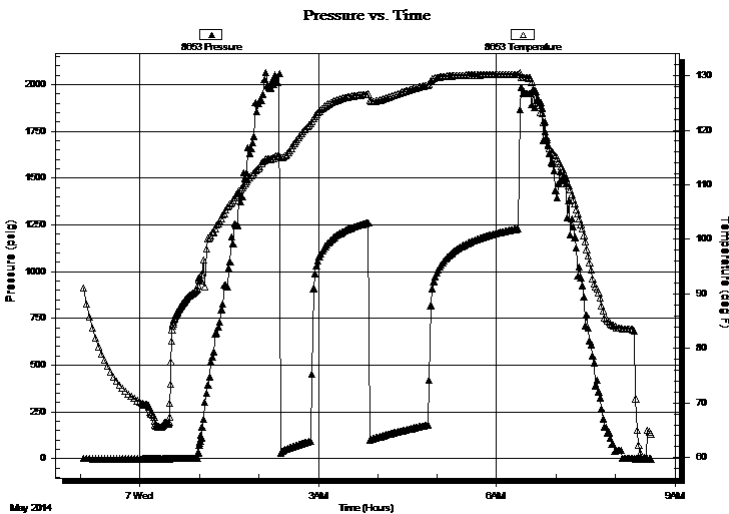
Time Off Btm:

TEST COMMENT: 30 - IF- BoB in 28 min.

60 - IS- No Return

60 - FF- BoB in 32 min

90 - FS- No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud (Heavy) 100M	0.02
181.00	MW 95W 5M	2.04
126.00	MW 80W 20M	1.77
20.00	OSMW 20M 80W (Oil spots)	0.28

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co., Inc.

34-4s-31w Rawlins,KS

20 N Water STE #300
Wichita, KS 67202

Melba #1-34

Job Ticket: 56836

DST#: 3

ATTN: Keith Reavis

Test Start: 2014.05.06 @ 23:02:00

Tool Information

Drill Pipe:	Length: 4021.00 ft	Diameter: 3.80 inches	Volume: 56.40 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: 60.00 ft	Diameter: 2.25 inches	Volume: 0.30 bbl	Weight to Pull Loose: 68000.00 lb
			<u>Total Volume: 56.70 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4078.00 ft			Final 62000.00 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

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4051.00	
Shut In Tool	5.00			4056.00	
Hydraulic tool	5.00			4061.00	
Jars	5.00			4066.00	
Safety Joint	3.00			4069.00	
Packer	5.00			4074.00	28.00 Bottom Of Top Packer
Packer	4.00			4078.00	
Stubb	1.00			4079.00	
Recorder	0.00	8653	Outside	4079.00	
Recorder	0.00	8874	Inside	4079.00	
Perforations	1.00			4080.00	
Change Over Sub	1.00			4081.00	
Drill Pipe	63.00			4144.00	
Change Over Sub	1.00			4145.00	
Bullnose	3.00			4148.00	70.00 Bottom Packers & Anchor

Total Tool Length: 98.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

34-4s-31w Rawlins,KS

20 N Water STE #300
Wichita, KS 67202

Melba #1-34

Job Ticket: 56836

DST#: 3

ATTN: Keith Reavis

Test Start: 2014.05.06 @ 23:02:00

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: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.99 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud (Heavy) 100M	0.025
181.00	MW 95W 5M	2.038
126.00	MW 80W 20M	1.767
20.00	OSMW 20M 80W (Oil spots)	0.281

Total Length: 332.00 ft

Total Volume: 4.111 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8874

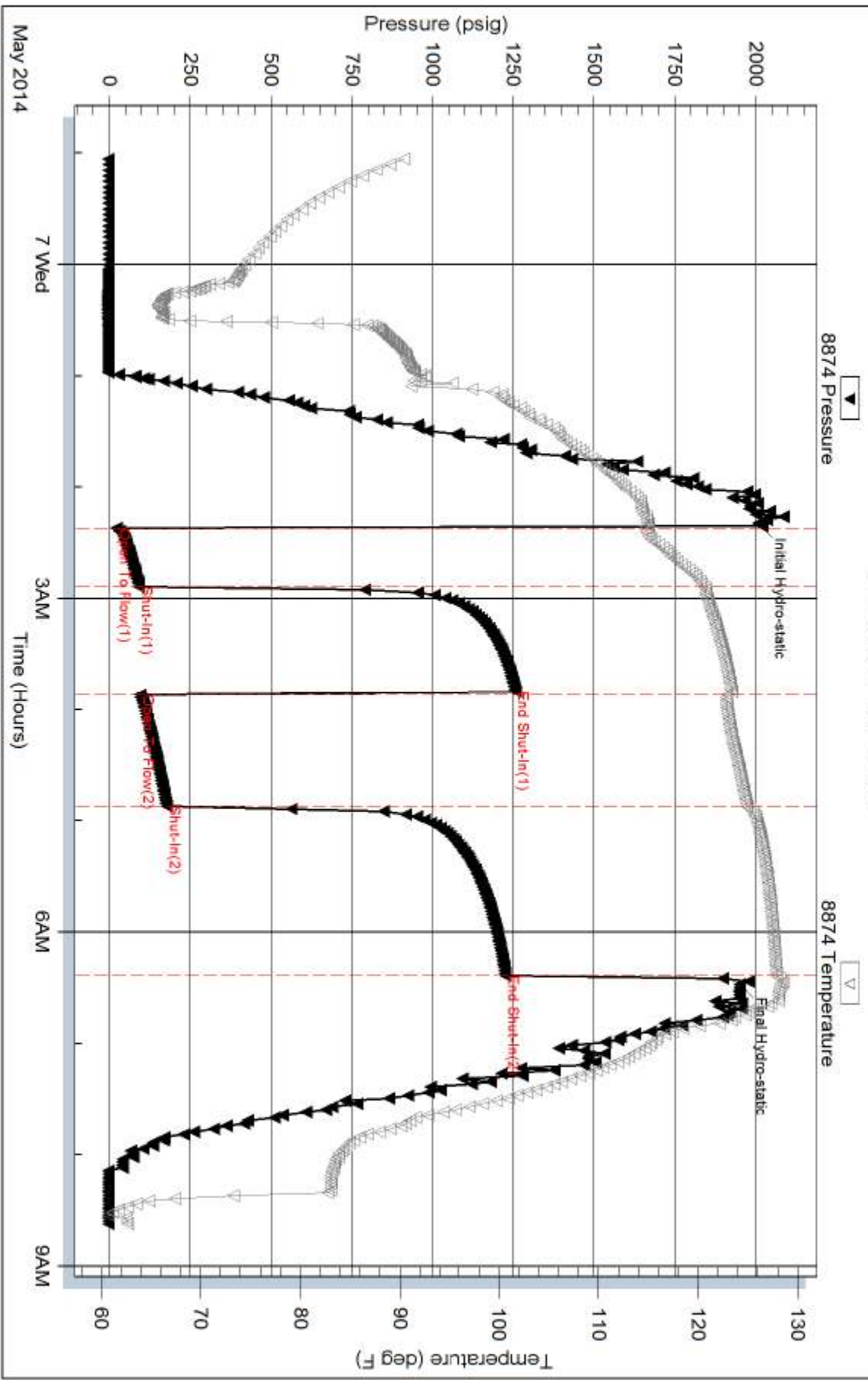
Inside

Murfin Drilling Co., Inc.

Wellbore #1-34

DST Test Number: 3

Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 56836

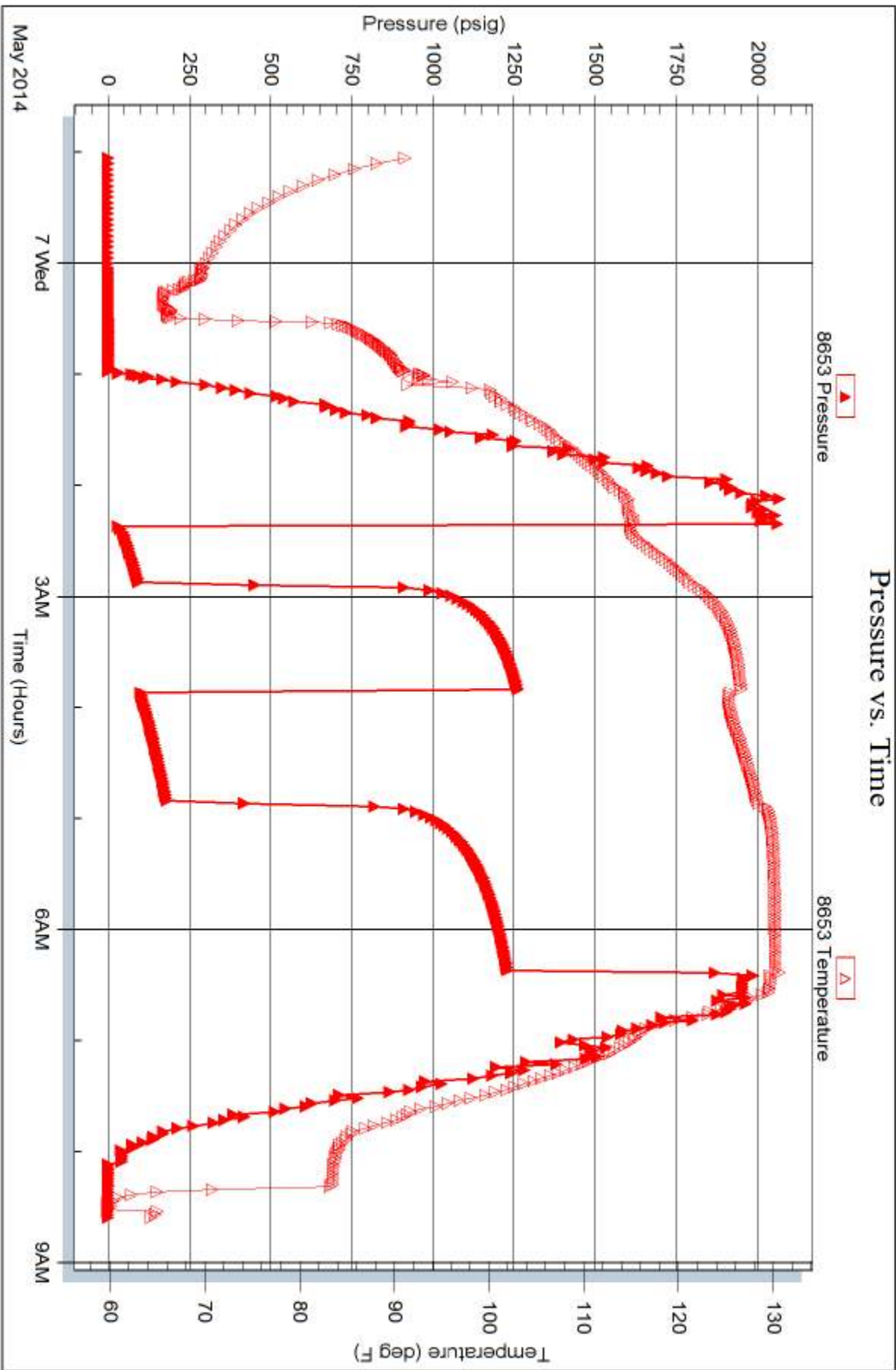
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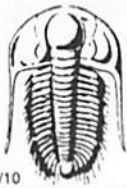
Serial #: 8653

Outside Murfin Drilling Co., Inc.

Wellbore #1-34

DST Test Number: 3





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 56834

Well Name & No. Meiba #1-34 Test No. 1 Date 5-5-14
 Company Murfin Drilling Co., Inc. Elevation 2940 KB 2935 GL
 Address 250 N Water STE #300 Wichita, KS 67202
 Co. Rep / Geo. Keith Reavis Rig Murfin #7
 Location: Sec. 34 Twp. 4S Rge. 31W Co. Rawlins State KS

Interval Tested 3905-3990 Zone Tested Toronto - Lansing
 Anchor Length 85' Drill Pipe Run 3834' Mud Wt. 8.9
 Top Packer Depth 3901 Drill Collars Run 60' Vis 50
 Bottom Packer Depth 3905 Wt. Pipe Run 0 WL 6.8
 Total Depth 3990 Chlorides 1,200 ppm System LCM 6#
 Blow Description IF - 1/4" Blow built to 1
ISI - NO Return
FF - NO Blow
FSI - NO Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>CSM</u>		<u>SPOTS</u>	<u>100</u>	
<u>60</u>	<u>Mud</u>			<u>100</u>	

Rec Total 70 BHT 119 Gravity - API RW - @ - ° F Chlorides - ppm

(A) Initial Hydrostatic <u>1951</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>5:20 AM</u>
(B) First Initial Flow <u>16</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>6:21 AM</u>
(C) First Final Flow <u>38</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>8:52 AM</u>
(D) Initial Shut-In <u>1228</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>11:52 AM</u>
(E) Second Initial Flow <u>44</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>2:20 PM</u>
(F) Second Final Flow <u>53</u>	<input checked="" type="checkbox"/> Mileage <u>56 RT</u> 86.80	Comments
(G) Final Shut-In <u>1209</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1931</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Flow <u>30</u>	<input type="checkbox"/> Day Standby	Total <u>1561.80</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1561.80</u>	

Approved By _____ Our Representative [Signature]

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. 56835

4/10

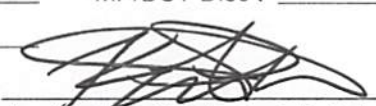
Well Name & No. Melba #1-34 Test No. 2 Date 5-6-14
 Company Murfin Drilling Co., Inc. Elevation 2940 KB 2935 GL
 Address 250 N Water STE # 300 Wichita, KS 67202
 Co. Rep / Geo. Keith Rivas Rig Murfin #7
 Location: Sec. 34 Twp. 4S Rge. 31W Co. Rawlins State KS

Interval Tested 4008 - 4040 Zone Tested LKC "F-G"
 Anchor Length 32' Drill Pipe Run 3925 Mud Wt. 9.2
 Top Packer Depth 4004 Drill Collars Run 60 Vis 50
 Bottom Packer Depth 4008 Wt. Pipe Run 0 WL 6.8
 Total Depth 4040 Chlorides 1,400 ppm System LCM 6#
 Blow Description IF-1/2" Blow built to 1"
ISI - NO Return
FF - NO Blow
FSI - NO Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>208</u>	<u>Mud</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 Total 208 BHT 121 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1947 Test 1250 T-On Location 12:05 AM
 (B) First Initial Flow 23 Jars 250 T-Started 12:50 AM
 (C) First Final Flow 29 Safety Joint 75 T-Open 3:10 AM
 (D) Initial Shut-In 1210 Circ Sub _____ T-Pulled 6:10 AM
 (E) Second Initial Flow 31 Hourly Standby _____ T-Out 8:40 AM
 (F) Second Final Flow 35 Mileage 56 RT 86.80 Comments _____
 (G) Final Shut-In 1193 Sampler _____
 (H) Final Hydrostatic 1907 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1661.80
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1661.80

Approved By _____ Our Representative 

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 56836

4/10

Well Name & No. Melba #1-34 Test No. 3 Date 5-6-14
 Company Murfin Drilling Co., Inc. Elevation 2940 KB 2935 GL
 Address 250 N Water STE #3000 Wichita, KS 67202
 Co. Rep / Geo. Keith Rawlis Rig Murfin #7
 Location: Sec. 34 Twp. 4S Rge. 31W Co. Rawlins State KS

Interval Tested 4078-4148 Zone Tested LKC "I-J"
 Anchor Length 70' Drill Pipe Run 4021 Mud Wt. 9.0
 Top Packer Depth 4074 Drill Collars Run 600' Vis 60
 Bottom Packer Depth 4078 Wt. Pipe Run 0 WL 6.0
 Total Depth 4148 Chlorides 2,000 ppm System LCM 8#
 Blow Description IF-BOB in 28 min.
ISI-NO Return
FF-BOB in 32 min.
FSI-NO Return

Rec	Feet of	%gas	SPOTS	%oil	%water	%mud
<u>205</u>	<u>OS MW</u>			<u>80</u>	<u>20</u>	
<u>126</u>	<u>MW</u>			<u>80</u>	<u>20</u>	
<u>181</u>	<u>MW</u>			<u>95</u>	<u>5</u>	
<u>5</u>	<u>Mud (heavy)</u>				<u>100</u>	

Rec Total 332 BHT 128 Gravity _____ API RW .122 @ 61 °F Chlorides 75,000 ppm

(A) Initial Hydrostatic _____ Test 1250 T-On Location 10:20 PM
 (B) First Initial Flow _____ Jars 250 T-Started 11:02 PM
 (C) First Final Flow _____ Safety Joint 75 T-Open 2:22 AM
 (D) Initial Shut-In _____ Circ Sub _____ T-Pulled 6:22 AM
 (E) Second Initial Flow _____ Hourly Standby _____ T-Out 8:40 AM
 (F) Second Final Flow _____ Mileage 56 RT 173.60 Comments loaded tools
 (G) Final Shut-In _____ Sampler _____ 1:20 PM 5-8-14
 (H) Final Hydrostatic _____ Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open 30 Extra Recorder _____ Sub Total 800
 Initial Shut-In 60 Day Standby 1d 4.5h Total 2548.60
 Final Flow 60 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 90 Sub Total 1748.60

Approved By _____ Our Representative

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