



DRILL STEM TEST REPORT

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

250 N Water STE 300
Wichita, KS 67202

ATTN: Saman Sharifaie

Bentley #1-17

17-16s-27w Lane,KS

Start Date: 2013.09.14 @ 09:47:00

End Date: 2013.09.14 @ 18:31:00

Job Ticket #: 52866 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.09.19 @ 09:25:20



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

17-16s-27w Lane, KS

250 N Water STE 300
Wichita, KS 67202

Bentley #1-17

Job Ticket: 52866

DST#: 1

ATTN: Saman Sharifaie

Test Start: 2013.09.14 @ 09:47:00

GENERAL INFORMATION:

Formation: **LCK " I-K "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:05:00

Time Test Ended: 18:31:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Sam Esparza

Unit No: 64

Interval: 4177.00 ft (KB) To 4273.00 ft (KB) (TVD)

Reference Elevations: 2720.00 ft (KB)

Total Depth: 4273.00 ft (KB) (TVD)

2709.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8845 Outside

Press @ RunDepth: 61.88 psig @ 4178.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.09.14

End Date:

2013.09.14

Last Calib.:

2013.09.14

Start Time: 09:47:05

End Time:

18:31:00

Time On Btm:

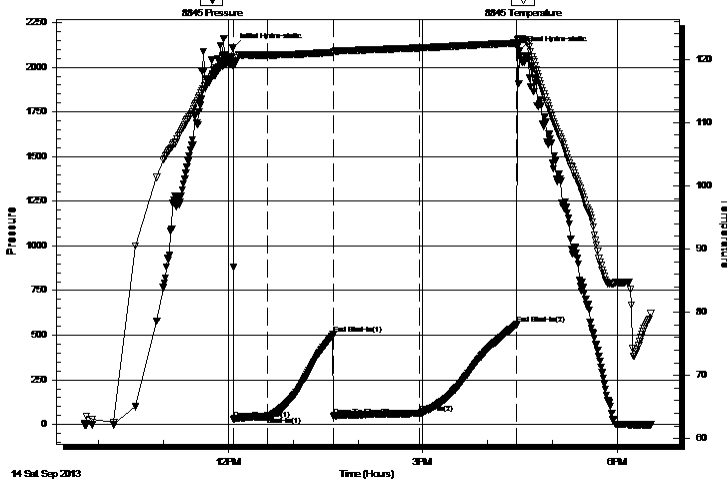
2013.09.14 @ 12:04:30

Time Off Btm:

2013.09.14 @ 16:29:00

TEST COMMENT: IF: 1 1/4" Blow .
IS: No Return.
FF: 4 " Blow .
FS: No Return.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2108.73	119.66	Initial Hydro-static
1	30.31	119.12	Open To Flow (1)
32	43.32	120.66	Shut-In(1)
93	503.69	121.10	End Shut-In(1)
93	46.20	121.13	Open To Flow (2)
173	61.88	121.80	Shut-In(2)
263	560.42	122.57	End Shut-In(2)
265	2090.88	123.30	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
70.00	GOCM 10g 10o 80m	0.34

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co., Inc.

17-16s-27w Lane, KS

250 N Water STE 300
Wichita, KS 67202

Bentley #1-17

Job Ticket: 52866

DST#: 1

ATTN: Saman Sharifaie

Test Start: 2013.09.14 @ 09:47:00

Tool Information

Drill Pipe:	Length: 3893.00 ft	Diameter: 3.80 inches	Volume: 54.61 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 276.00 ft	Diameter: 2.25 inches	Volume: 1.36 bbl	Weight to Pull Loose: 100000.0 lb
			<u>Total Volume: 55.97 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 76000.00 lb
Depth to Top Packer:	4177.00 ft			Final 76000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	96.00 ft			
Tool Length:	124.00 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			4150.00	
Shut In Tool	5.00			4155.00	
Hydraulic tool	5.00			4160.00	
Jars	5.00			4165.00	
Safety Joint	3.00			4168.00	
Packer	5.00			4173.00	28.00 Bottom Of Top Packer
Packer	4.00			4177.00	
Stubb	1.00			4178.00	
Recorder	0.00	6772	Outside	4178.00	
Recorder	0.00	8845	Outside	4178.00	
Perforations	25.00			4203.00	
Change Over Sub	1.00			4204.00	
Drill Pipe	63.00			4267.00	
Change Over Sub	1.00			4268.00	
Bullnose	5.00			4273.00	96.00 Bottom Packers & Anchor

Total Tool Length: 124.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

17-16s-27w Lane, KS

250 N Water STE 300
Wichita, KS 67202

Bentley #1-17

Job Ticket: 52866

DST#: 1

ATTN: Saman Sharifaie

Test Start: 2013.09.14 @ 09:47:00

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: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.38 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2800.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
70.00	GOCM 10g 10o 80m	0.344

Total Length: 70.00 ft Total Volume: 0.344 bbl

Num Fluid Samples: 0

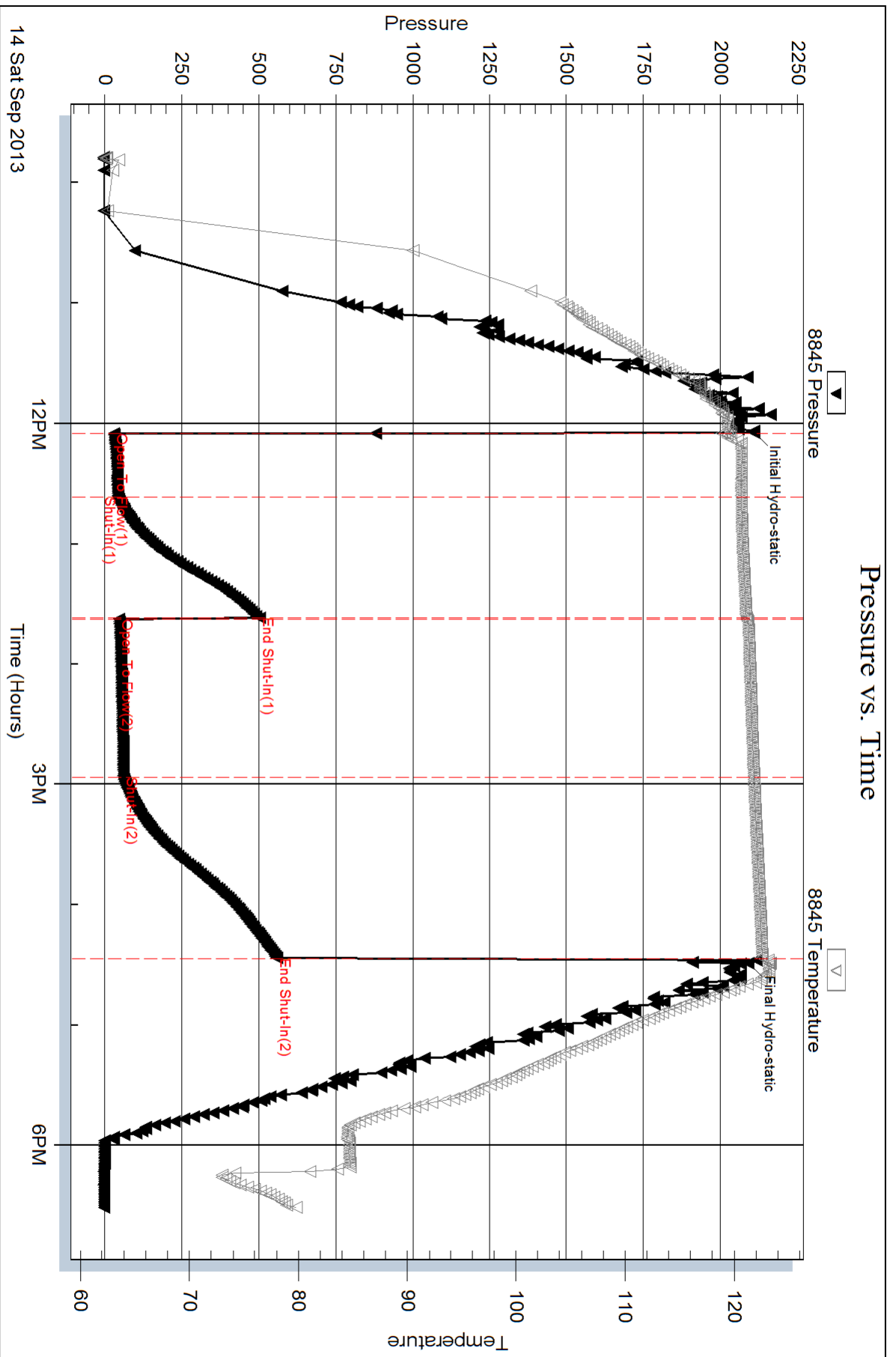
Num Gas Bombs: 0

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: Saman Sharifaie

Bentley #1-17

17-16s-27w Lane,KS

Start Date: 2013.09.15 @ 04:46:00

End Date: 2013.09.15 @ 13:06:15

Job Ticket #: 52867 DST #: 2

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

Printed: 2013.09.19 @ 09:24:34



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

17-16s-27w Lane, KS

250 N Water STE 300
Wichita, KS 67202

Bentley #1-17

Job Ticket: 52867

DST#: 2

ATTN: Saman Sharifaie

Test Start: 2013.09.15 @ 04:46:00

GENERAL INFORMATION:

Formation: **LKC " L "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:43:30

Time Test Ended: 13:06:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Sam Esparza

Unit No: 64

Interval: 4270.00 ft (KB) To 4325.00 ft (KB) (TVD)

Reference Elevations: 2720.00 ft (KB)

Total Depth: 4325.00 ft (KB) (TVD)

2709.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8845 Outside

Press @ Run Depth: 229.01 psig @ 4271.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.09.15

End Date: 2013.09.15

Last Calib.: 2013.09.15

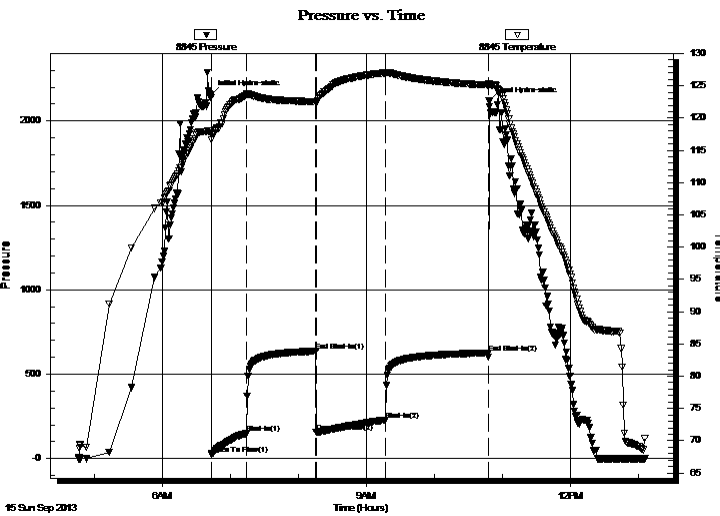
Start Time: 04:46:05

End Time: 13:06:14

Time On Btm: 2013.09.15 @ 06:43:15

Time Off Btm: 2013.09.15 @ 10:48:30

TEST COMMENT: IF: 9 1/2 " Blow.
IS: No Return.
FF: BOB @ 43 min.
FS: No Return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2156.07	117.99	Initial Hydro-static
1	25.40	116.63	Open To Flow (1)
31	147.53	123.59	Shut-In(1)
93	636.78	122.52	End Shut-In(1)
93	155.54	122.22	Open To Flow (2)
154	229.01	126.99	Shut-In(2)
245	626.19	125.11	End Shut-In(2)
246	2117.74	125.25	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
360.00	MW 10m 90w (Oil Spots)	2.54
70.00	OWCM 5 o 35 w 60m	0.98

* 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., Inc.

17-16s-27w Lane, KS

250 N Water STE 300
Wichita, KS 67202

Bentley #1-17

Job Ticket: 52867

DST#: 2

ATTN: Saman Sharifaie

Test Start: 2013.09.15 @ 04:46:00

Tool Information

Drill Pipe:	Length: 3986.00 ft	Diameter: 3.80 inches	Volume: 55.91 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 276.00 ft	Diameter: 2.25 inches	Volume: 1.36 bbl	Weight to Pull Loose: 95000.00 lb
			<u>Total Volume: 57.27 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 81000.00 lb
Depth to Top Packer:	4270.00 ft			Final 81000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	55.00 ft			
Tool Length:	83.00 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			4243.00	
Shut In Tool	5.00			4248.00	
Hydraulic tool	5.00			4253.00	
Jars	5.00			4258.00	
Safety Joint	3.00			4261.00	
Packer	5.00			4266.00	28.00 Bottom Of Top Packer
Packer	4.00			4270.00	
Stubb	1.00			4271.00	
Recorder	0.00	6772	Outside	4271.00	
Recorder	0.00	8845	Outside	4271.00	
Perforations	16.00			4287.00	
Change Over Sub	1.00			4288.00	
Drill Pipe	31.00			4319.00	
Change Over Sub	1.00			4320.00	
Bullnose	5.00			4325.00	55.00 Bottom Packers & Anchor

Total Tool Length: 83.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

17-16s-27w Lane, KS

250 N Water STE 300
Wichita, KS 67202

Bentley #1-17

Job Ticket: 52867

DST#: 2

ATTN: Saman Sharifaie

Test Start: 2013.09.15 @ 04:46:00

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:

60000 ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3400.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
360.00	MW 10m 90w (Oil Spots)	2.536
70.00	OWCM 5 o 35 w 60m	0.982

Total Length: 430.00 ft Total Volume: 3.518 bbl

Num Fluid Samples: 0

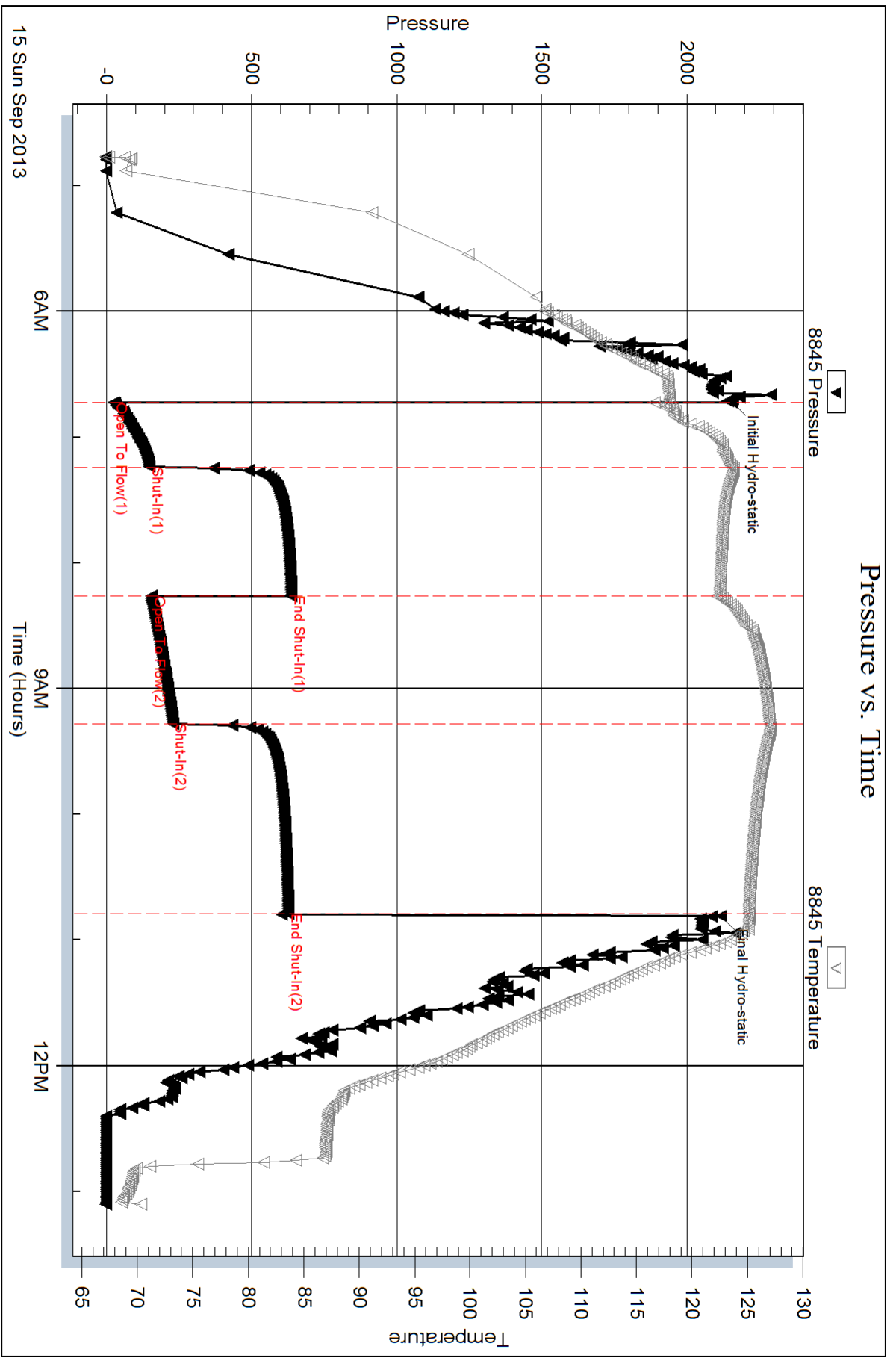
Num Gas Bombs: 0

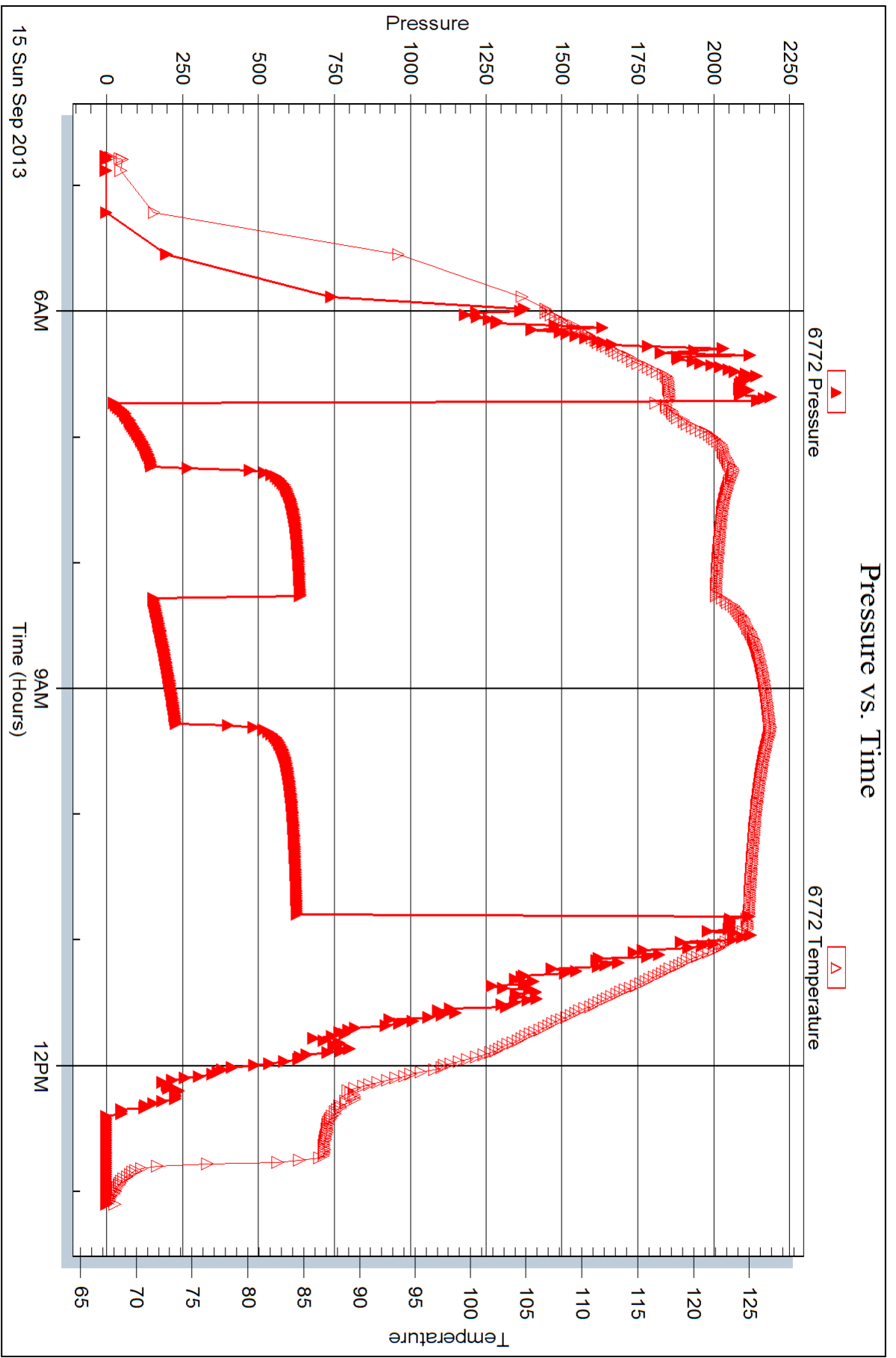
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Water Salinity: .113 @ 77 degrees= 60,000 ppm







DRILL STEM TEST REPORT

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

250 N Water STE 300
Wichita, KS 67202

ATTN: Saman Sharifaie

Bentley #1-17

17-16s-27w Lane,KS

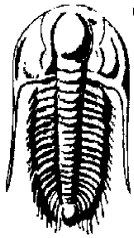
Start Date: 2013.09.16 @ 01:41:00

End Date: 2013.09.16 @ 08:40:00

Job Ticket #: 52868 DST #: 3

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

Printed: 2013.09.19 @ 09:23:29



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

17-16s-27w Lane, KS

250 N Water STE 300
Wichita, KS 67202

Bentley #1-17

Job Ticket: 52868

DST#: 3

ATTN: Saman Sharifaie

Test Start: 2013.09.16 @ 01:41:00

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:22:30

Time Test Ended: 08:40:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Sam Esparza

Unit No: 64

Interval: 4346.00 ft (KB) To 4388.00 ft (KB) (TVD)

Reference Elevations: 2720.00 ft (KB)

Total Depth: 4388.00 ft (KB) (TVD)

2709.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 11.00 ft

Serial #: 8845 Outside

Press @ Run Depth: 24.54 psig @ 4347.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.09.16

End Date:

2013.09.16

Last Calib.:

2013.09.16

Start Time: 01:41:05

End Time:

08:39:59

Time On Btm:

2013.09.16 @ 03:22:15

Time Off Btm:

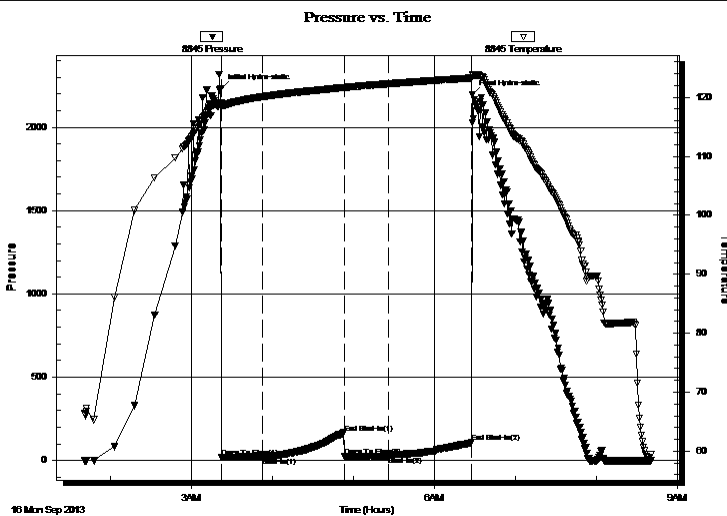
2013.09.16 @ 06:28:15

TEST COMMENT: IF: 1/4" Blow died back to a Weak Surface Blow .

IS: No Return.

FF: No Blow .

FS: No Return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2231.96	119.04	Initial Hydro-static
1	19.41	118.24	Open To Flow (1)
31	21.68	120.10	Shut-In(1)
91	165.40	121.66	End Shut-In(1)
91	23.37	121.61	Open To Flow (2)
124	24.54	122.30	Shut-In(2)
186	108.07	123.27	End Shut-In(2)
186	2197.91	123.80	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud 100m	0.02

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Murfin Drilling Co., Inc.

17-16s-27w Lane, KS

250 N Water STE 300
Wichita, KS 67202

Bentley #1-17

Job Ticket: 52868

DST#: 3

ATTN: Saman Sharifaie

Test Start: 2013.09.16 @ 01:41:00

Tool Information

Drill Pipe:	Length: 4052.00 ft	Diameter: 3.80 inches	Volume: 56.84 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 276.00 ft	Diameter: 2.25 inches	Volume: 1.36 bbl	Weight to Pull Loose: 95000.00 lb
			<u>Total Volume: 58.20 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 82000.00 lb
Depth to Top Packer:	4346.00 ft			Final 82000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	42.00 ft			
Tool Length:	70.00 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			4319.00	
Shut In Tool	5.00			4324.00	
Hydraulic tool	5.00			4329.00	
Jars	5.00			4334.00	
Safety Joint	3.00			4337.00	
Packer	5.00			4342.00	28.00 Bottom Of Top Packer
Packer	4.00			4346.00	
Stubb	1.00			4347.00	
Recorder	0.00	6772	Outside	4347.00	
Recorder	0.00	8845	Outside	4347.00	
Perforations	3.00			4350.00	
Change Over Sub	1.00			4351.00	
Drill Pipe	31.00			4382.00	
Change Over Sub	1.00			4383.00	
Bullnose	5.00			4388.00	42.00 Bottom Packers & Anchor

Total Tool Length: 70.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

17-16s-27w Lane, KS

250 N Water STE 300
Wichita, KS 67202

Bentley #1-17

Job Ticket: 52868

DST#: 3

ATTN: Saman Sharifaie

Test Start: 2013.09.16 @ 01:41:00

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: 6.79 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3300.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud 100m	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

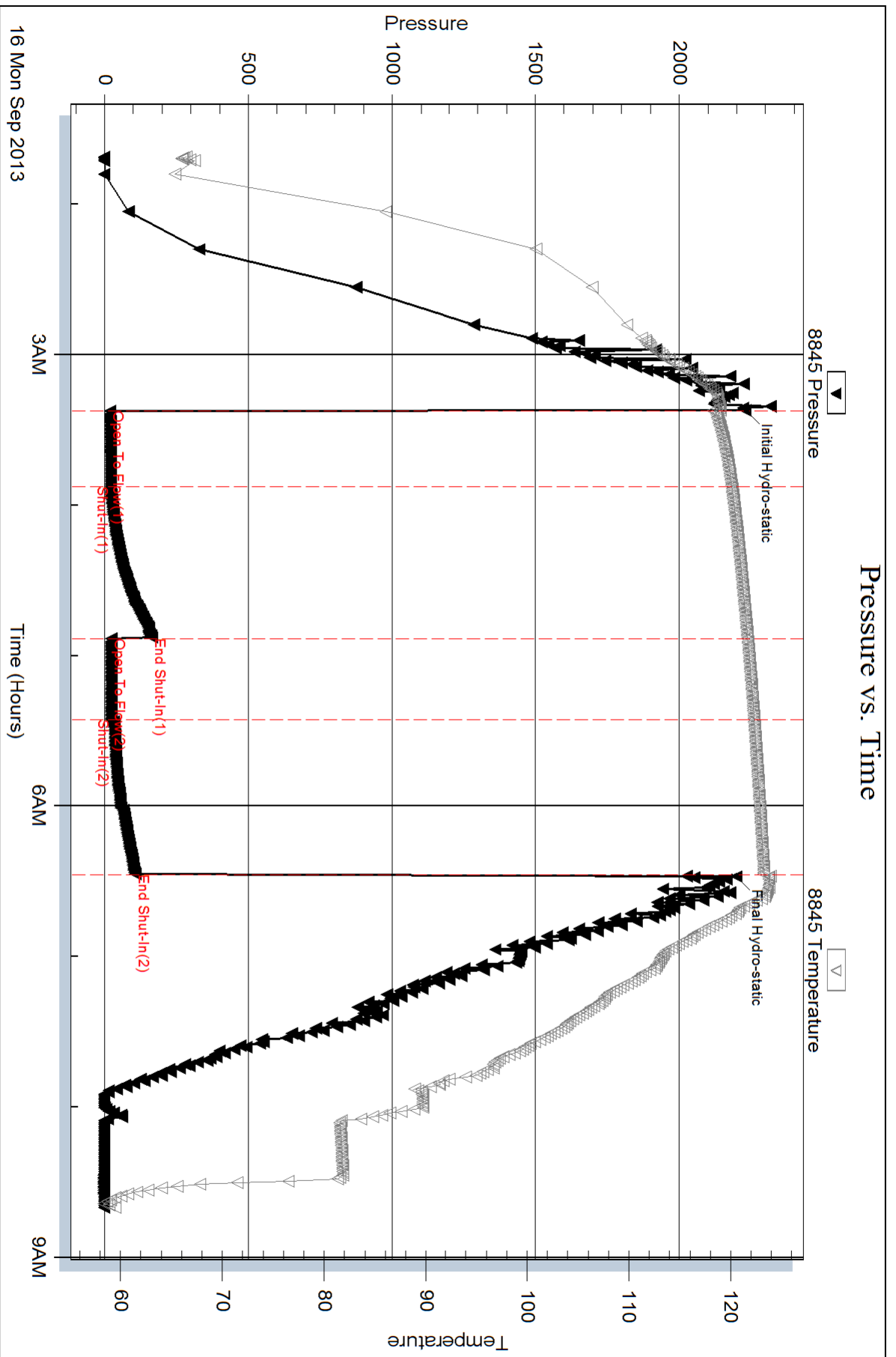
Num Gas Bombs: 0

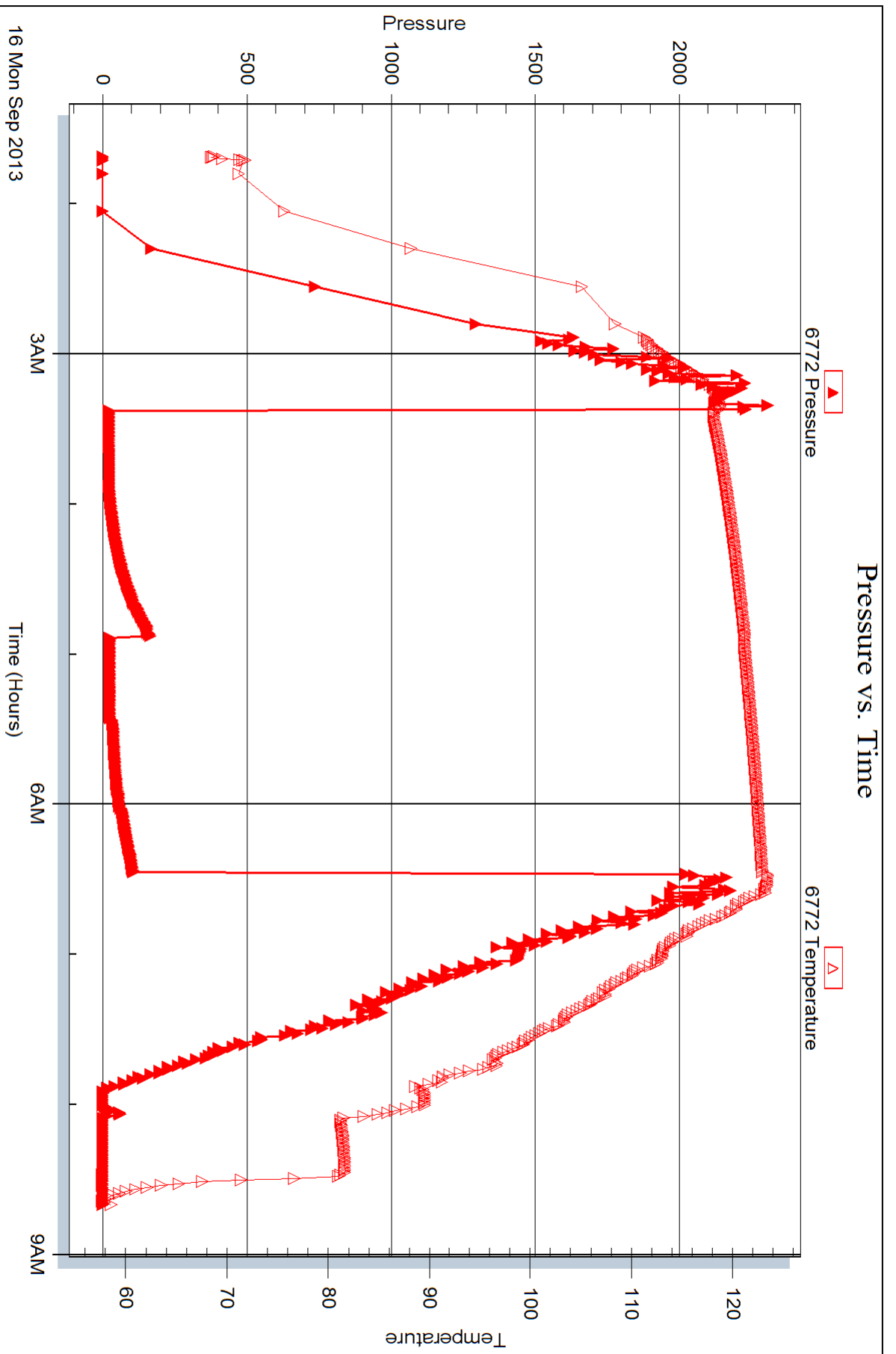
Serial #:

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: Saman Sharifaie

Bentley #1-17

17-16s-27w Lane,KS

Start Date: 2013.09.17 @ 03:19:00

End Date: 2013.09.17 @ 12:41:15

Job Ticket #: 52869 DST #: 4

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

Printed: 2013.09.19 @ 09:23:02

Murfin Drilling Co., Inc. 17-16s-27w Lane,KS Bentley #1-17 DST # 4 Ft. Scott 2013.09.17



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Murfin Drilling Co., Inc.

17-16s-27w Lane, KS

250 N Water STE 300
Wichita, KS 67202

Bentley #1-17

Job Ticket: 52869

DST#: 4

ATTN: Saman Sharifaie

Test Start: 2013.09.17 @ 03:19:00

GENERAL INFORMATION:

Formation: **Ft. Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:07:15

Time Test Ended: 12:41:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Sam Esparza

Unit No: 64

Interval: 4486.00 ft (KB) To 4520.00 ft (KB) (TVD)

Total Depth: 4520.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2720.00 ft (KB)

2709.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 8845 Outside

Press @ Run Depth: 65.20 psig @ 4487.00 ft (KB)

Start Date: 2013.09.17

End Date: 2013.09.17

Start Time: 03:19:05

End Time: 12:41:15

Capacity: 8000.00 psig

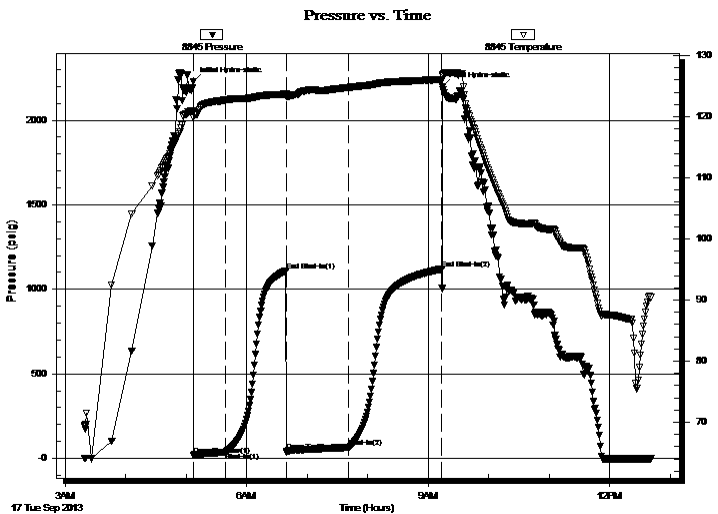
Last Calib.: 2013.09.17

Time On Btm: 2013.09.17 @ 05:07:00

Time Off Btm: 2013.09.17 @ 09:14:15

TEST COMMENT: IF: 5" Blow.
IS: No Return.
FF: BOB @ 59 min.
FS: No Return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2227.67	120.87	Initial Hydro-static
1	18.93	119.80	Open To Flow (1)
32	36.91	122.71	Shut-In(1)
92	1109.62	123.68	End Shut-In(1)
93	41.60	123.26	Open To Flow (2)
155	65.20	124.78	Shut-In(2)
247	1120.17	126.07	End Shut-In(2)
248	2197.33	126.65	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	GOCM 10g 30o 60m	0.59
0.00	60' GIP	0.00

* 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., Inc.

17-16s-27w Lane, KS

250 N Water STE 300
Wichita, KS 67202

Bentley #1-17

Job Ticket: 52869

DST#: 4

ATTN: Saman Sharifaie

Test Start: 2013.09.17 @ 03:19:00

Tool Information

Drill Pipe:	Length: 4202.00 ft	Diameter: 3.80 inches	Volume: 58.94 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 276.00 ft	Diameter: 2.25 inches	Volume: 1.36 bbl	Weight to Pull Loose: 95000.00 lb
			<u>Total Volume: 60.30 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 81000.00 lb
Depth to Top Packer:	4486.00 ft			Final 81000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	34.00 ft			
Tool Length:	62.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Change Over Sub	1.00			4459.00	
Shut In Tool	5.00			4464.00	
Hydraulic tool	5.00			4469.00	
Jars	5.00			4474.00	
Safety Joint	3.00			4477.00	
Packer	5.00			4482.00	28.00 Bottom Of Top Packer
Packer	4.00			4486.00	
Stubb	1.00			4487.00	
Recorder	0.00	6772	Outside	4487.00	
Recorder	0.00	8845	Outside	4487.00	
Perforations	28.00			4515.00	
Bullnose	5.00			4520.00	34.00 Bottom Packers & Anchor

Total Tool Length: 62.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Murfin Drilling Co., Inc.

17-16s-27w Lane, KS

250 N Water STE 300
Wichita, KS 67202

Bentley #1-17

Job Ticket: 52869

DST#: 4

ATTN: Saman Sharifaie

Test Start: 2013.09.17 @ 03:19:00

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: 7.99 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4800.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
120.00	GOCM 10g 30o 60m	0.590
0.00	60' GIP	0.000

Total Length: 120.00 ft Total Volume: 0.590 bbl

Num Fluid Samples: 0

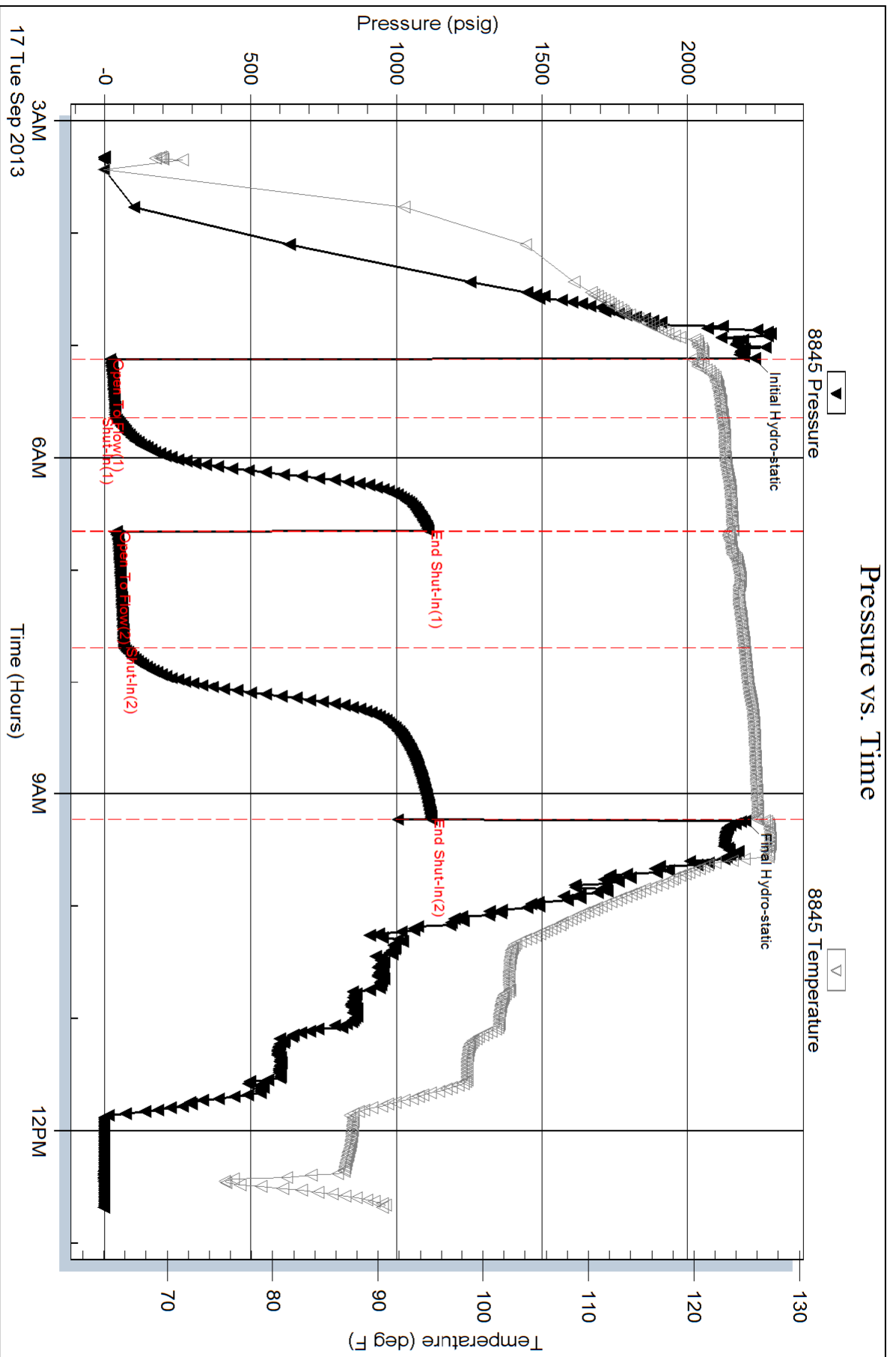
Num Gas Bombs: 0

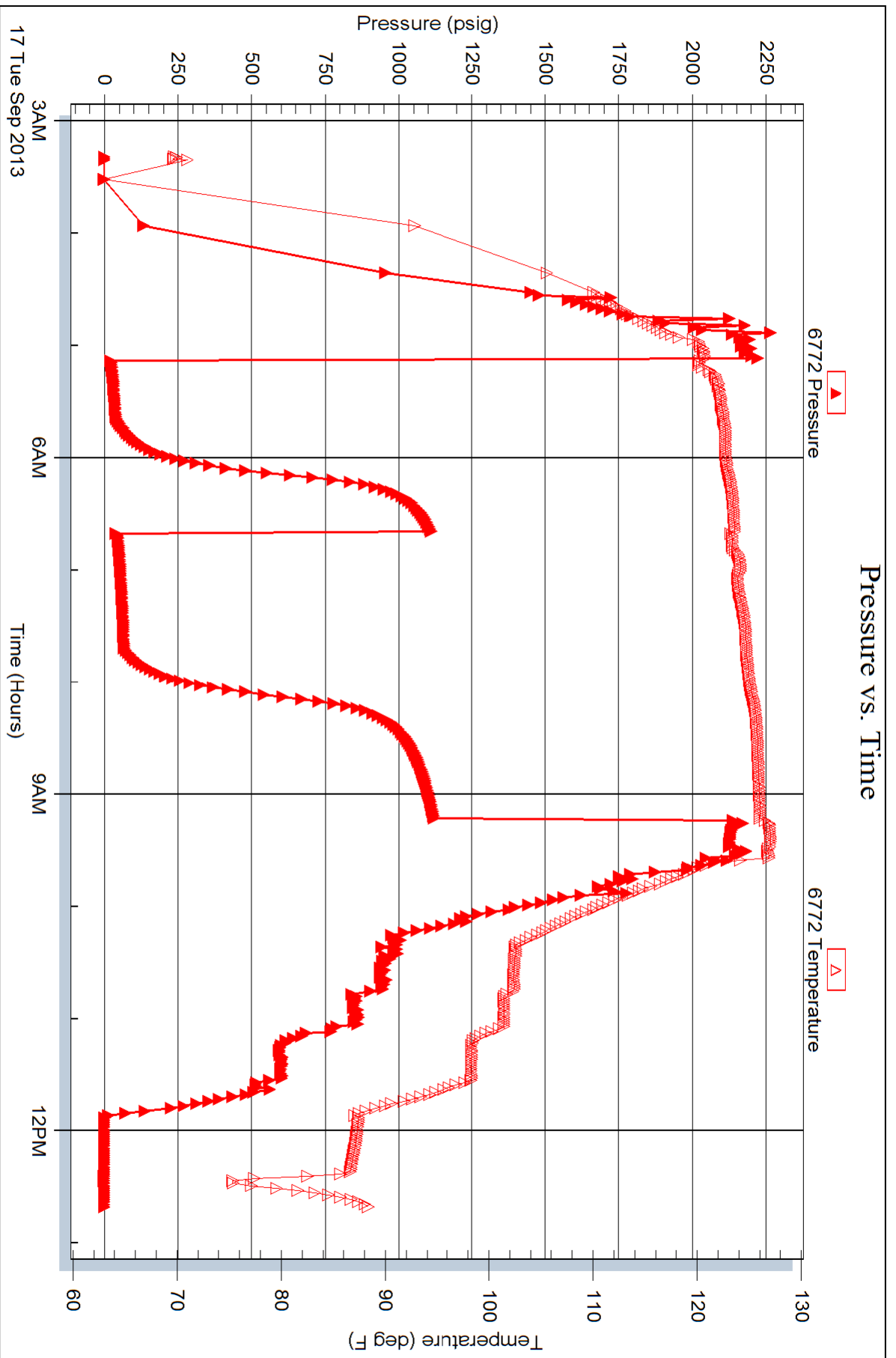
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 52866

Well Name & No. Bentley #1-17 Test No. 1 Date 9/14/13
 Company Murfin Drilling CO., Inc. Elevation 2720 KB 2709 GL
 Address 250 N Water STE 300 Wichita, KS 67202
 Co. Rep / Geo. Saman Sharifaie Rig Murfin #21
 Location: Sec. 17 Twp. 16S Rge. 27W Co. Lane State KS

Interval Tested 4177 - 4273 Zone Tested LKC "I, J, K"
 Anchor Length 96' Drill Pipe Run 3893 Mud Wt. 9.3
 Top Packer Depth 4173 Drill Collars Run 276 Vis 55
 Bottom Packer Depth 4177 Wt. Pipe Run Ø WL 6.4
 Total Depth 4273 Chlorides 2800 ppm System LCM 2

Blow Description IF: 1 1/2" Blow.
ISI: NO Return.
FF: 4" Blow.
FSI: NO Return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>70</u>	<u>Feet of Goch</u>	<u>10</u>	<u>10</u>	<u>50</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 70 BHT 123 Gravity — API RW — @ — Chlorides — ppm
 (A) Initial Hydrostatic 2109 Test 1250 T-On Location 8:30
 (B) First Initial Flow 30 Jars 250 T-Started 9:47
 (C) First Final Flow 43 Safety Joint 75 T-Open 12:05
 (D) Initial Shut-In 504 Circ Sub N/C T-Pulled 16:28
 (E) Second Initial Flow 46 Hourly Standby _____ T-Out 18:31
 (F) Second Final Flow 62 Mileage 90 R/T 139.50
 (G) Final Shut-In 560 Sampler _____
 (H) Final Hydrostatic 2091 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

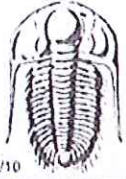
Comments Stack in mud wait for tractor operator.
Final Flow supposed to be 60 min Not 90 min!
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____

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

Sub Total 0
 Total 1714.50
 MP/DST Disc't _____

Approved By [Signature] 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 of 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. 52867

Well Name & No. Bentley #1-17 Test No. 2 Date 9/15/13
 Company Murfin Drilling Co., Inc. Elevation 2720 KB 2709 GL
 Address 250 N Water STE 300 Wichita, KS 67202
 Co. Rep / Geo. Saman Shaurifate Rig Murfin #21
 Location: Sec. 17 Twp. 16S Rge. 27W Co. Lane State KS

Interval Tested 4270-4325 Zone Tested LKC "L"
 Anchor Length 55' Drill Pipe Run 3986 Mud Wt. 9.3
 Top Packer Depth 4266 Drill Collars Run 276 Vis 60
 Bottom Packer Depth 4270 Wt. Pipe Run Ø WL 6.4
 Total Depth 4325 Chlorides 3400 ppm System LCM 2

Blow Description IF: 9 1/2" Blow.
IST: No Return.
FF: BOB @ 43 min.
FSI: No Return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>70</u>	<u>OWCM</u>	<u>5</u>	<u>35</u>	<u>60</u>	
<u>360</u>	<u>MW (oil spots)</u>		<u>90</u>	<u>10</u>	

Rec Total 430 BHT 125 Gravity — API RW .113 @ 77 °F Chlorides 60,000 ppm

(A) Initial Hydrostatic 2156 Test 1250 T-On Location 4:30
 (B) First Initial Flow 25 Jars 250 T-Started 4:46
 (C) First Final Flow 148 Safety Joint 75 T-Open 6:44
 (D) Initial Shut-In 637 Circ Sub N/C T-Pulled 10:47
 (E) Second Initial Flow 156 Hourly Standby _____ T-Out 13:06
 (F) Second Final Flow 229 Mileage 90 R/T 139.50 Comments _____
 (G) Final Shut-In 626 Sampler _____
 (H) Final Hydrostatic 2118 Straddle _____

Initial Open 30 Shale Packer _____ Ruined Shale Packer _____
 Initial Shut-In 60 Extra Packer _____ Ruined Packer _____
 Final Flow 60 Extra Recorder _____ Sub Total 0
 Final Shut-In 90 Day Standby _____ Total 1714.50
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1714.50

Approved By [Signature] 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. 52868

Well Name & No. Bentley #1-17 Test No. 3 Date 9/16/13
 Company Murkin Drilling Co., Inc Elevation 2720 KB 2709 GL
 Address 250 N W 4th St E 300 Wichita, KS 67202
 Co. Rep / Geo. Samah Sharifaie Rig Murkin #21
 Location: Sec. 17 Twp. 16N Rge. 27W Co. Lane State KS

Interval Tested 4346-4388 Zone Tested Marmaton
 Anchor Length 42' Drill Pipe Run 4052 Mud Wt. 9.2
 Top Packer Depth 4342 Drill Collars Run 270 Vis 57
 Bottom Packer Depth 4346 Wt. Pipe Run Ø WL 6.8
 Total Depth 4388 Chlorides 3300 ppm System LCM 4

Blow Description IP: 1/4" Blow down back to a weak surface Blow.
ISL: No Return.
FF: No Blow
FSI: No Return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</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 5 BHT 123 Gravity — API RW — @ — ° F Chlorides — ppm

(A) Initial Hydrostatic	<u>2232</u>	<input checked="" type="checkbox"/> Test	<u>1250</u>	T-On Location	<u>1:30</u>
(B) First Initial Flow	<u>19</u>	<input checked="" type="checkbox"/> Jars	<u>250</u>	T-Started	<u>1:41</u>
(C) First Final Flow	<u>22</u>	<input checked="" type="checkbox"/> Safety Joint	<u>75</u>	T-Open	<u>3:23</u>
(D) Initial Shut-In	<u>165</u>	<input checked="" type="checkbox"/> Circ Sub	<u>N/C</u>	T-Pulled	<u>6:28</u>
(E) Second Initial Flow	<u>23</u>	<input type="checkbox"/> Hourly Standby		T-Out	<u>8:40</u>
(F) Second Final Flow	<u>25</u>	<input checked="" type="checkbox"/> Mileage	<u>90 R/H</u> 139.50	Comments	
(G) Final Shut-In	<u>108</u>	<input type="checkbox"/> Sampler			
(H) Final Hydrostatic	<u>2198</u>	<input type="checkbox"/> Straddle			

Initial Open	<u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Shale Packer
Initial Shut-In	<u>60</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
Final Flow	<u>30</u>	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Extra Copies
Final Shut-In	<u>60</u>	<input type="checkbox"/> Day Standby	Sub Total <u>0</u>
		<input type="checkbox"/> Accessibility	Total <u>1714.50</u>
		Sub Total <u>1714.50</u>	MP/DST Disc

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. 52869

Well Name & No. Bentley #1-17 Test No. 4 Date 9/17/13
 Company Murfin Drilling Co., Inc. Elevation 2720 KB 2709 GL
 Address 250 N Water STE 300 Wichita, KS 67202
 Co. Rep / Geo. Saman Sharifaire Rig Murfin #21
 Location: Sec. 17 Twp. 16S Rge. 27W Co. Lane State KS

Interval Tested 4486-4520 Zone Tested Ft. Scott
 Anchor Length 34' Drill Pipe Run 4200 Mud Wt. 9.2
 Top Packer Depth 4482 Drill Collars Run 276 Vis 50
 Bottom Packer Depth 4486 Wt. Pipe Run Ø WL 8.0
 Total Depth 4520 Chlorides 4800 ppm System LCM 2

Blow Description IF: 5" Blow
ISI: No Return.
IF: BOB @ 59 min.
ESI: No Return.

Rec	Feet of	%gas	%oil	%water	%mud
120	Feet of <u>GOCM</u>	10	30		60
	Feet of <u>60' GIP</u>				
	Feet of				
	Feet of				
	Feet of				

Rec Total 120 BHT 126 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>222.8</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>300</u>
(B) First Initial Flow <u>19</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>3:19</u>
(C) First Final Flow <u>37</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>5:07</u>
(D) Initial Shut-In <u>1110</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>9:13</u>
(E) Second Initial Flow <u>42</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>12:41</u>
(F) Second Final Flow <u>65</u>	<input checked="" type="checkbox"/> Mileage <u>90 R/T</u> <u>279</u>	Comments <u>Loaded to 15 @</u>
(G) Final Shut-In <u>1120</u>	<input type="checkbox"/> Sampler	<u>15:30 9/18/13</u>
(H) Final Hydrostatic <u>2197</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer

Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow <u>60</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>800</u>
Final Shut-In <u>90</u>	<input type="checkbox"/> Day Standby <u>1d 2.75h</u>	Total <u>2654</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1854</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